

17. CONSISTENCY WITH PORTLAND DESIGN STANDARDS & DESIGN MANUAL

The City of Portland has design standards contained within Section 14-526 of the City Code; the City of Portland Design Manual does not contain any design guidance relevant to the Waynflete School Campus. The proposed development will follow the City's design standards as described below:

a) Transportation Standards

The campus upgrades are not being proposed for the purpose of accommodating a larger enrollment; rather, it is intended to improve the overall learning experience of the classrooms. As such, an increase in traffic throughout, to, and from the Site is not anticipated at this time. No new curb cuts or parking lots are proposed. The school's current traffic management protocols and existing campus parking areas will be maintained.

b) Environmental Quality Standards

1. Preservation of Significant Natural Features

The Site is fully developed and there are no known areas of significant natural features, including unusual natural areas, threatened or endangered botanical features, areas of significant wildlife habitats, aguifers, waterbodies, or wetland areas.

2. Landscaping & Landscape Preservation

Landscaping Plans are included in the Design Drawings attached to Section 3 of this Report. Existing trees will be preserved to the maximum extent practicable. Vegetation not specified for removal will be protected during construction. The project design team will request a meeting with the City Arborist, Jeff Tarling, to review the Landscaping Plan and to coordinate proposed plantings and the preservation of existing landscaping.

3. Water Quality. Stormwater Management & Erosion Control

The proposed project has been designed to minimize the amount of stormwater leaving the site. As further described in Section 12 of this report, an on-site, subsurface stormwater treatment and detention system is proposed, which reduces the peak rate of runoff from the site, provides stormwater treatment, and complies with the standards of Section 5 of the Technical Manual. The proposed project will not result in the flooding of adjacent lots or City property. The proposed project is not located within the watershed of an Urban Impaired Stream and is not anticipated to pose a risk of groundwater contamination either during or post-construction.

The proposed project has also been designed to provide for adequate and sanitary disposal of sewage, as further described in Section 14 of this Report.

c) Public Infrastructure & Community Safety Standards

The proposed project's consistency with City Master Plans is described in Section 13 of this Report.

As a School Campus, provisions for public safety are of the utmost importance and have been incorporated into the design of site visibility, access, and territorial reinforcement. The school's current traffic management protocols, including emergency vehicle access, will be maintained.

The availability and adequate capacity of public utilities is described in Section 14 of this Report.

The full plan set has been provided to the Fire Department Reviewer, along with a cover letter including the items in the Portland Fire Department Site Review Checklist.

d) Site Design Standards



- 1. Massing, ventilation, and wind impact: The proposed Lower School is within the school campus and does not result in any changes to ventilation or significant change in wind patterns or any adverse effects on the adjacent neighbor on Fletcher Street. The proposed Gymnasium will be recessed into the ground an additional six feet, such that the proposed roof height will be lower than the existing roof height of the current gymnasium. The Lower School will be pursuing a Passive House certification and, as a result, will have minimal HVAC systems. Air source heat pumps will be used with condensers on roof tops or in screened utility yards. The gymnasium will be serviced by a major roof top mechanical unit, which will be screened and positioned so that it faces the campus interior.
- 2. Shadows: The footprints of both the proposed and existing Lower School and Gymnasium are essentially the same, and there is no significant change to building heights; no adverse impacts from shadows are anticipated to result from the proposed project.
- 3. Snow and ice loading: The proposed buildings have been designed to accommodate appropriate snow and ice loads and to prevent significant amounts of accumulated snow and ice from loading or falling onto adjacent properties or public ways.
- 4. View corridors: The proposed buildings are located within the Waynflete School Campus and comply with the building height requirements, as described in Section 6 of this Report, and will therefore not obstruct public view corridors identified in the City's Downtown Vision View Corridor Protection Plan.
- 5. *Historic Resources:* A Historic Preservation Application for Certificate of Appropriateness was submitted on October 5, 2015, and a public hearing has been scheduled for March 16, 2016.
- 6. Exterior Lighting: Cut Sheets for all proposed lighting fixtures, in addition to a Photometric Plan, are attached to this Section for your reference. No pole mounted light fixtures will be used; all site lighting will be building mounted or on the underside of canopies. All exterior light fixtures will be full cutoff with no light emitted above the horizontal plane. No light trespass onto the adjacent properties or street is anticipated to result from the proposed project.
- 7. Noise and Vibration: Noise associated with the proposed development will not exceed regulated levels. The Lower School will be serviced by air source heat pumps and condensers will be located on roof tops and in a concealed utility yard. The Gymnasium will be serviced by a major rooftop air handling unit located on a rooftop within the campus and screened for noise reduction. Proposed HVAC equipment is further described in Section 18 of this Report.
- 8. Signage and Wayfinding: All signage will be limited to building names and function and will be designed to the Waynflete campus standards.
- 9. Zoning Related Design Standards: An assessment of the City Zoning requirements is provided in Section 6 of this Report. There are no other zoning related design standards associated with the proposed project; the City of Portland Design Manual does not contain any design guidance relevant to the Waynflete School Campus.

17.1 ATTACHMENTS

- Lighting Fixture Cut Sheets
- Photometric Plan

PHILIPS LIGHTOLIER

Downlighting

SlimSurface LED

5" and 7" round aperture surface mount downlight

TYPE C1



SlimSurface LED is a 5/8" thick surface mounted luminaire with the appearance of a recessed downlight. Easy to install into most standard j-boxes, the SlimSurface LED round apertures are available in a 5" 650 lm and 7" 1000 lm fixture.



Project:	
Location:	
Cat.No:	
Туре:	
Lamps:	Qty:
Notes:	

Ordering information

Series	Size	Shape	CRI	сст	Lumens	Finish	UL listing
S		R					
S SlimSurface	5 5"	R Round	8 80 9 90¹	27K 2700 K 30K 3000 K 35K 3500 K 40K 4000 K	7 650lm	blank White AL Aluminum BK Black	blank Wet location
	5 5"	R Round	8 80	30K 3000K	7 650lm	blank White	-D Damp location
	7 7"	R Round	8 80 9 90¹	27K 2700 K 30K 3000 K 35K 3500 K 40K 4000 K	10 1000lm	blank White AL Aluminum BK Black	blank Wet location
	7 7"	R Round	8 80	30K 3000K	10 1000lm	blank White	-D Damp location



1. 90 CRI is only available with 2700K

 $Note: Lumen\ output\ is\ calculated\ based\ on\ 80\ CRI\ and\ 3000K\ CCT.\ Please\ consult\ adjustment\ factors\ table\ on\ page\ 3\ for\ other\ lumen\ outputs.$

Features

- Flange: One piece plastic flange. Injection molded white, applied aluminum, or black.
- 2. **Lens:** High transmittance lens allowing for smooth, comfortable light pattern.
- 3. **Power supply:** Integral class 2 driver. Factory wired electronic LED driver (see Electrical section for specifications)
- 4. LED Strip: Utilizes Philips LEDs.
- Lifetime: Expected lifetime 50,000 hours and backed by a 5-year warranty (see Philips.com/warranties for details).
- Compliance: Non-conductive fixture for shower light application. This product complies with the requirements of the California Energy Commission regulated under Title 24, and has been listed in the Title 20 database.

Electrical

Electronic power supply: RoHS compliant. Class 2 power unit. Unit tolerates sustained open circuit and short circuit output conditions without damage.

Dimming: All luminaires are intended for use with incandescent standard type dimmers (TRIAC). 10%-100% dimming range.

Lumen Output	Max. Input Current	Max. Input Power		
630 lm	0.08 A	9.5W		
980 lm	0.13 A	14.2 W		

Input Voltage 120 V
Input Frequency 50/60 Hz
Power Factor > 0.9
Max. THD <15 %
Minimum Operating Temperature - 20°C

Labels

cULus listed for damp locations (wall mount applications and wet locations (covered ceilings). ENERGY STAR® certified.

Compatibility

example: S5R830K7AL

Installs into standard J-box applications:



 $3^{1}/_{2}$ " round (plastic)



4" square (plastic) Not compatible with S5R



4" octagonal (metal)



4" square (metal) Not compatible with S5R

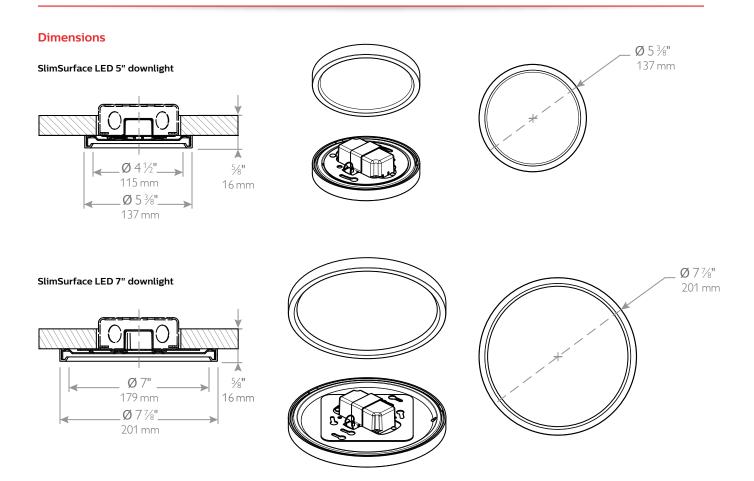
Note: 21/8" deep octagon junction box recommended for through circuit wiring applications.





S5R & S7R SlimSurface LED

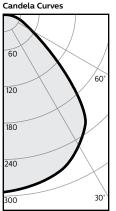
5" and 7" round aperture surface mount downlight



S5R & S7R SlimSurface LED

5" and 7" round aperture surface mount downlight

S5R830K7 • 10 W LED, 3000 K, 80 CRI



Angle	Mean CP	Lumens
0	294	
5	291	28
10	286	
15	282	80
20 25	276 265	122
25 30	253	122
35	236	147
40	211	
45	157	121
50	108	
55	74	68
60 65	53 39	40
70	30	40
75	22	23
80	14	
85	5	6
90	0	

Report¹: 438GFR

Output lumens:
Spacing Criterio
Field Angle:
Beam Angle:

625 lm: 1.3 141° 92° Input Watts²: Efficacy: CCT³: CRI: 9.8 W 64.8 lm/w 3000 K >80

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5′	12	6.5'
6'	8	7.8'
7'	6	9.1'
8'	5	10.4'
9'	4	11.7'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

5' 26.7 0.43 6' 17.5 0.29 7' 12.5 0.20 8' 10.4 0.17 9' 8.4 0.14	Spacing on center	Initial center beam foot-candles	Watts per sq.ft	
	6'	17.5	0.29	
	7'	12.5	0.20	
	8'	10.4	0.17	

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling		80)%		70)%	50)%	30)%	0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zona	al cav	ity m	etho	d - Ef	fectiv	/e flo	or ref	lecta	nce =	20%
Room Cavity Ratio 0 6 8 2 9 5 7 7 1 0	119 111 102 94 87 81 75 70 65 61 58	119 107 95 85 77 69 63 58 53 49 45	119 103 89 78 69 61 55 50 45 41 38	119 100 84 72 63 55 49 44 40 36 33	116 104 93 84 75 68 62 57 52 48 45	116 98 83 72 63 55 49 44 40 36 33	111 100 90 81 73 66 61 55 51 47	111 95 81 71 62 55 49 44 39 36 33	106 96 87 78 71 64 59 54 50 46 43	106 92 80 69 61 54 48 43 39 36 33	100 87 76 66 58 52 46 41 37 34 31

Zonal lumens & percentages Zone Lumens %Luminaire

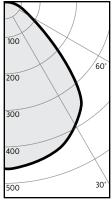
Zone	Lumens	/sLullillalle
0-30 0-40 0-60 0-90	230 377 566 635	36.2% 59.3% 89.2% 100.0%
0-50	055	100.070

CRI and CCT adjustment factors

90 CRI 2700K = 84% 80 CRI 2700K = 100% 80 CRI 3000K = 100% 80 CRI 3500K = 105% 80 CRI 4000K = 109%

S7R830K10 • 14W LED, 3000K, 80 CRI

Candela Curves



Angle	Mean CP	Lumens
0	461	
5	457	43
10	450	
15	444	125
20	433	
25	415	192
30	395	
35	365	227
40	322	
45	235	182
50	161	
55	111	102
60	80	
65	59	60
70	45	2.0
75	34	36
80	22	11
85	10 0	11
90	ا ا	

Report¹: 441GFR

Output lumens:
Spacing Criterion
Field Angle:
Beam Angle:

977 lms 1.3 140° 91° Input Watts²: Efficacy: CCT³: CRI:

13.8W 70.8lm/w 3000K >80

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	18	6.5'
6'	13	7.8′
7'	9	9.1'
8'	7	10.4'
9'	6	11.7'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	41.2	0.61
6'	27.0	0.40
7'	19.3	0.29
8'	16.1	0.24
9'	12.9	0.19

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	3	80%			70)%	50)%	30)%	0%	
Wall		70	50	30	10	50	10	50	10	50	10	0
RCR		Zona	al cav	ity m	etho	d - Ef	fectiv	e flo	or ref	lecta	nce =	20%
Room Cavity Ratio 6 8 2 4 5 5 5 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		119 111 102 94 87 81 75 70 66 62 58	119 107 95 85 77 70 63 58 53 49 46	119 103 89 78 69 62 55 50 46 42 38	119 100 84 73 63 56 50 44 40 36 33	116 104 93 84 76 69 63 57 53 49	116 98 83 72 63 56 49 44 40 36 33	111 100 90 81 73 67 61 56 51 48	111 95 82 71 62 55 49 44 40 36 33	106 96 87 78 71 65 59 54 50 47 43	106 92 80 70 61 54 49 44 40 36 33	100 87 76 66 59 52 46 42 38 34 31

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	360	36.9%
0-40	587	60.1%
0-60	871	89.2%
0-90	977	100.0%

CRI and CCT adjustment factors

90 CRI 2700K = 84% 80 CRI 2700K = 100% 80 CRI 3000K = 100% 80 CRI 3500K = 105% 80 CRI 4000K = 109%

^{1.} Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

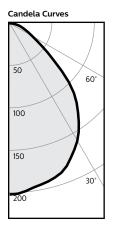
^{2.} Wattage: controlled to within 5%

 $^{3.} Correlated Color Temperature: within specs as defined in ANSI_NEMA_ANSLG~C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.\\$

S5R & S7R SlimSurface LED

5" and 7" round aperture surface mount downlight

S5R927K7 • 10 W LED, 2700 K, 90 CRI



Angle	Mean CP	Lumen
0	222	
5	219	21
10	213	
15	207	58
20	197	
25	181	83
30	163	
35	141	88
40	119	
45	88	68
50	60	
55	41	38
60 65	30 22	22
70	17	22
75	13	13
80	8	'3
85	3	4
90	0	"
	ı	l

Report¹: 683GFR

Output lumens:	
Spacing Criterion:	
Field Angle:	
Beam Angle:	

395lms
1.1
130°
82°

Input Watts2: Efficacy: CCT3: CRI:

9.7W 40.7lm/w 2700 K

Single unit data

Height to hted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	9	5.5'
6'	6	6.6'
7'	5	7.7'
8'	3	8.8'
9'	3	9.9'

^{*} Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft
5' 6' 7' 8' 9'	16.8 11.0 7.9 6.6 5.2	0.43 0.28 0.20 0.17 0.13

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling		80)%		70)%	50)%	30)%	0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zona	al cav	ity m	etho	d - Ef	fectiv	e flo	or ref	lecta	nce =	20%
Room Cavity Ratio 0 6 8 4 9 5 7 8 8 1 0	119 111 103 95 89 82 77 72 67 63 60	119 107 96 86 78 71 65 60 55 51 48	119 104 90 80 71 63 57 52 48 44 40	119 100 86 74 65 58 52 47 42 39 36	116 105 94 85 77 70 64 59 55 51 47	116 99 85 74 65 57 52 47 42 39 36	111 101 91 82 75 68 63 58 53 50 46	111 96 83 72 64 57 51 46 42 38 35	106 97 88 80 72 66 61 56 52 48 45	106 93 81 71 63 56 51 46 42 38 35	100 88 77 68 60 54 48 44 40 36 34

Zonal lumens & percentages

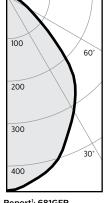
Zone	Lumens	%Luminaire
0-30	162	41.1%
0-40	250	63.4%
0-60	356	90.0%
0-90	395	100.0%

CRI and CCT adjustment factors

90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

S7R927K10 • 14W LED, 2700 K, 90 CRI

Candela Curves



Angle	Mean CP	Lumens
0	443	
5	435	41
10	419	
15	401	113
20	374	
25	338	156
30	308	
35	276	172
40	241	
45	178	137
50	120	70
55	83	76
60 65	60 46	46
70	35	46
75	27	28
80	18	20
85	8	9
90	Ö	
	1	1

Report1: 681GFR

Output lumens:	1.1	Input Watts ² :	14.2 W
Spacing Criterion:		Efficacy:	54.8 lm/v
Field Angle:		CCT ³ :	2700 K
Beam Angle:		CRI:	>90

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*		
5'	18	5.5'		
6'	12	6.6'		
7'	9	7.7'		
8'	7	8.8'		
9'	5	9.9'		

^{*} Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing Ini	tial center beam	Watts		
on center	foot-candles	per sq.ft.		
5'	32.9	0.63		
6'	21.6	0.41		
7'	15.4	0.30		
8'	12.9	0.25		
9'	10.3	0.20		

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling		80)%		70	50%)%	30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR Zonal cavity method - Effective floor					or ref	lecta	nce =	20%			
Room Cavity Ratio 0 6 8 2 9 5 7 8 7 1 0	119 111 102 95 88 82 76 71 67 63 59	119 107 96 86 78 71 65 59 55 51 47	119 103 90 79 70 63 57 51 47 43 40	119 100 85 73 64 57 51 46 42 38 35	116 104 94 84 76 70 64 58 54 50 47	116 98 84 73 64 57 51 46 42 38 35	111 100 90 82 74 68 62 57 53 49 46	111 95 82 72 63 56 50 46 41 38 35	106 96 87 79 72 66 60 56 52 48 45	106 92 80 70 62 56 50 45 41 38 35	100 88 77 67 60 53 48 43 39 36 33

Zonal lumens & percentages

Zone	Lumens	%Luminair
0-30	310	39.8%
0-40	482	61.9%
0-60	696	89.3%
0-90	779	100.0%

CRI and CCT adjustment factors

90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

- 1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
- 2. Wattage: controlled to within 5%
- 3. Correlated Color Temperature: within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

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Philips Lighting, North America Corporation 200 Franklin Square Drive, Somerset, NJ 08873 Tel. 855-486-2216

Philips Lighting Canada Ltd. A division of Philips Electronics Ltd. 281 Hillmount Rd, Markham, ON, Canada L6C 2S3 Tel. 800-668-9008

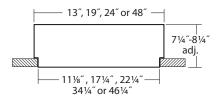
TYPE C2

PRULITE COM 213 746 0360

Type:

Job:





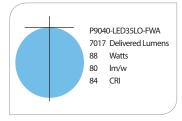
LOW MED STD HIGH **12"**: lm 550 700 1100 1400 14 18 28 35 18": lm 950 1650 1950 2150 19 33 2100 3150 3900 5300 2': lm w 35 54 67 3': lm 4500 7000 9000 13275 87 113 177 56 W 7000 8800 13900 21000 **4'**: lm 88 110 174 281

Lumen output may vary +/- 5% 4000K used for Im/ft estimates above 3500K -2% Ilf, 3000K -4%, 2700K -6% See LED Details PDF for more info

Clean, radiant, celestial, at times almost invisible.

P9000 – a slimmer, refined version of P8900 – minimal 7/16" trim or trimless with flush lens that melts into its environment. Optional drop down lens creates a playful 'bubble-like' effect.

Perfect partner to our P4000 Sky Oculus pendant.





SERIES	LED COLOR	OUTPUT	SHIELDING	TRIM COLOR	CIRCUITING	VOLTAGE	CEILING SYSTEMS	CONTROLS	OPTIONS
9012 12" diam. 9018 18" diam. 9020 2' diam. 9030 3' diam. 9040 4' diam.	LED27 2700K LED3 3000K LED35 3500K LED4 4000K	LO Low MO Medium SO Standard HO High PROG Program- mable light output (specify de- sired lumens or watts per fixture)	FWA Flush White Acrylic Lens Standard DWA Drop White Acrylic lens	TMW Textured Matte White Standard YGW Gloss White Y_ Premium Color CC Custom Color	SC Single Circuit	120 277 UNV 120-277	X1 T-Bar X3 Hard Ceiling Flange trim X7 Hard Ceiling Trimless mud- over Flange	ND Non-dimming DM10 0-10v 10% dimming Standard DM01 0-10v 1% dimming STEP Step Dimming 100-50-Off DML 1% Lutron Dimming DMD 0.1% DALI Dimming DMG 1% DALI Dimming	EML Emergency Battery, Low EMH Emergency Battery, High (NA 18* and 2*) PRUBIN Meticulous binning and labeling every LED board within a 2-step MacAd- ams elipse





PHOTOMETRICS

Low Output:

P9040-LED35LO-FWA 7017 Delivered Lumens

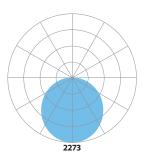
88 Watts

80 lm/w

84 CRI 3500 CCT

Light Labs Test #L041411805

Zonal Lumen Summary: 0-90 = 100%



Vertical Angle	0	22.25	45	67.5	90
0	2273	2273	2273	2273	2273
5	2260	2260	2260	2260	2260
15	212	212	212	212	212
25	2005	2005	2005	2005	2005
35	1773	1773	1773	1773	1773
45	1484	1484	1484	1484	1484
55	1150	1150	1150	1150	1150
65	807	807	807	807	807
75	440	440	440	440	440
85	131	131	131	131	131
90	0	0	0	0	0

LUMEN MAINTENANCE

Designed to last with cool running mid-power LEDs projected to maintain 90% (L90) of their initial output for 100,000 hours (at HO), and L70 exceeding 150,000 hours.

LED SYSTEM LED modules and drivers are field replaceable.

PROG (optional) Programmable light output. Specify desired lumens or watts per fixture.

BINNING Standard binning (all Prudential LED boards) includes testing at the chip level and board integration to provide consisten color temperature within a 3-step MacAdam ellipse, with +/- 5% lumen output range and

+/- .004 Duv.

PRUBIN Prudential Ltg's exclusive 'job binning' method that ensures color temperature consistency across all luminaires on a project. Meticulously (OPTIONAL)

testing and labeling EVERY LED BOARD to +/- 25 lumens, +/- 50k CCT and +/- .004 Duv — while also separating positive from negative — allows us to match color, hue and intensity throughout a project and provides a consistent color temperature within a 2-step

MacAdam ellipse.

LABELS ETL damp labeled and I.B.E.W. manufactured

ELECTRICAL Must specify LED dimming controls. LED fixtures have constant current

driver(s) with less than 20% THD when loaded to a minimum of 60%. Drivers sink a maximum of 6mA per driver. DM10 LED drivers are 0-10V dimmable and are compatible with most 0-10V wall slide dimmers and direct 0-10V analog signal dimmers. Max driver size 1.25" w x 1" h.

CONSTRUCTION

Housing Die-formed 20-gauge USA steel, >20% PC recycled, 100% recyclable

Lens Thermoformed acrylic, 100% recyclable

MOUNTING Recessed mounted into exposed T-bar or hard ceiling applictions

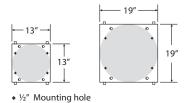
WARRANTY Single-source, 5 year limited warranty covers standard components and

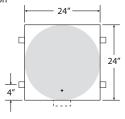
construction

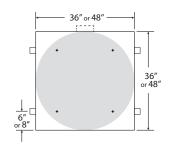


MOUNTING LOCATIONS

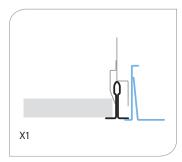
Fixture must be installed prior to ceiling installation

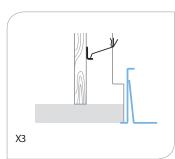


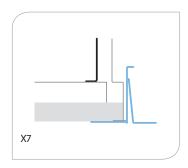




CEILING SYSTEMS













High Performance 4" Aperture (HP-4) - Recessed

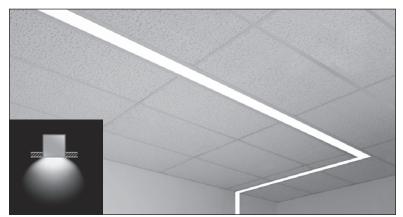








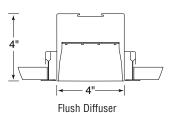
Date	
Project	
Туре	
Comments	



DESCRIPTION

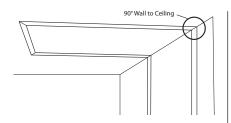
High Performance 4" Aperture Recessed (HP-4 R) is a patented, linear LED luminaire. HP-4 R is the first recessed linear LED luminaire to feature On-Grid™ mounting for standard lengths, making installation quick and easy. HP-4 R is RoHS compliant.





DIMENSIONS & DIFFUSER

Glare-free experience is attained with mid-powered LEDs and a precise diffuser to eliminate pixilation.



MITERED ANGLES

Fully illuminated corners have internal secondary diffusers to ensure against light leaks. Custom angles are available.



SEAMLESS ILLUMINATION

Internal secondary diffusers at corners, joints and seams ensure visually seamless, uniform, continuous illumination.

ORDERING GUIDE

Sample Number: HP-4 R - 32' - S0 - 3500K - 120V - SC - C1 - OBO

•	HP-4 R	\neg	н	\neg \vdash	\neg \vdash	\neg	\neg \vdash	_
		┯╵┕┈			┌┤└╴	┌┤└	┌┤└┐	_
Finelite Series HP-4 R								
Length (Minimum 2', increments accurate to 1/16th", Standard)		J						
Light Engine (SO - Standard Output, HO - High Output)			J					
LED Color Temperature (3000K, 3500K, 4000K) ——————————————————————————————————								
Voltage (120V, 277V) ———————————————————————————————————]			
Circuiting (SC - Single Circuit)*								
Mounting (C1 - 1" T-Bar, C2 - 9/16" T-Bar, C3 - Screw Slot, C3F - Flush Screw Slot, VF -	Visible Flange, C2T - 9/	16" Tegular,						
C1T - 1" Tegular, SF - Spackle Flange, TZ6 (C1, C2, C2T, C3, C3F) - Tech Zone	e 6") —						J	
Intergrated Sensor (OBO - Occupancy Sensor OBD - Daylight)	,							

*Contact factory for switching options

High Performance 4" Aperture (HP-4) - Recessed

PHOTOMETRY

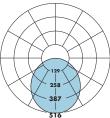
Standard Output

Efficacy (Lumen per watt): 79.9

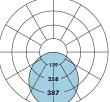
Total luminaire output: 1447 Lumens (362 lumens/foot)

18 Watts (4.5 watts/foot)

CRI: 83 R9: 10 CCT: 4000K ITL LM79 Report 74686

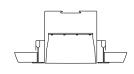


- Refer to www finelite com for additional photometry and



product information.

lighting facts



CANDLEPOWER SUMMARY									
	0.0	22.5	45	67.5	90	Flux			
0	514	514	514	514	514				
5	514	511	511	511	513	49			
15	493	492	492	491	492	139			
25	453	492	492	491	492	139			
35	397	397	395	395	394	247			
45	331	330	328	328	326	254			
55	255	256	256	255	251	228			
65	179	179	180	178	174	1 <i>77</i>			
75	103	103	104	102	99	109			
85	33	33	34	34	33	37			
90	0	2	4	5	6				

PHOTOMETRY

High Output

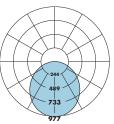
Efficacy (Lumen per watt): 74.6

Total luminaire output: 2754 Lumens (689 lumens/foot)

37 Watts (9.2 watts/foot)

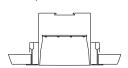
CRI: 83 R9: 10

CCT: 4000K ITL LM79 Report 74687



 Refer to www finelite com for additional photometry and product information.





CANDLEPOWER SUMMARY										
	0.0	22.5	45	67.5	90	Flux				
0	973	973	973	973	973					
5	974	969	968	969	972	92				
15	936	932	931	932	934	263				
25	860	859	855	856	858	395				
35	754	755	<i>75</i> 0	<i>75</i> 1	<i>75</i> 1	470				
45	628	629	625	625	623	483				
55	487	489	488	486	481	435				
65	341	342	343	340	334	337				
75	199	198	198	194	190	208				
85	65	64	64	63	61	70				
90	0	4	6	8	8					

PHOTOMETRY

Standard Output

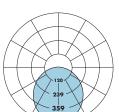
Efficacy (Lumen per watt): 74

Total luminaire output: 1348 Lumens (337 lumens/foot)

18 Watts (4.5 watts/foot)

CRI: 84 R9: 14 CCT: 3500K

ITL LM79 Report 74684



- Refer to www.finelite.com for additional photometry and product information.





	CAI	NDLEPO	OWER	SUMM	NARY	
	0.0	22.5	45	67.5	90	Flux
0	476	476	476	476	476	
5	476	474	473	473	475	45
15	457	456	455	455	456	129
25	420	422	418	418	419	193
35	368	369	367	367	367	230
45	308	307	306	306	304	236
55	238	239	238	238	235	213
65	167	167	168	166	163	165
75	97	97	97	96	94	102
85	32	31	32	32	32	35
90	0	2	4	5	6	
l						

PHOTOMETRY

High Output

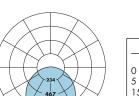
Efficacy (Lumen per watt): 70.5

Total luminaire output: 2622 Lumens (656 lumens/foot)

37 Watts (9.2 watts/foot)

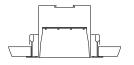
CRI: 84 R9: 16

CCT: 3500K ITL LM79 Report 74685



- Refer to www.finelite.com for additional photometry and product information.





	CANDLEPOWER SUMMARY						
	0.0	22.5	45	67.5	90	Flux	
0	930	930	930	930	930		
5	930	926	925	925	928	88	
15	893	890	889	890	891	251	
25	820	821	816	816	817	377	
35	719	719	714	715	714	448	
45	598	598	595	595	592	460	
55	463	464	463	462	456	413	
65	325	325	326	323	317	320	
75	188	188	189	186	181	198	
85	61	61	62	62	60	67	
90	0	2	5	6	7		

Consult www.finelite.com for 3000K photometric reports.

High Performance 4" Aperture (HP-4) - Recessed

SPECIFICATIONS

CONSTRUCTION: Precision-cut 6061-T6 extruded aluminum body. Internal joiner system, plug-together wiring, standard. Housing is powder coated.

ENDCAPS: Flat endcaps add 0.05" to each end of luminaire.

MITERED CORNERS: Illuminated 90° corners in a single plane are standard. Custom angles are available (90° minimum on inside corners). Contact factory.

REFLECTORS: Die-formed 20-gauge cold-rolled steel reflectors are finished in 96 LG high reflectance matte white powder coat paint.

DIFFUSER: 12' maximum lens length. Internal secondary diffusers at corners, joints and seams ensure visually seamless, uniform, continuous illumination. Frost white snap-in lens, 73% transmissive, 99% diffusion.

LIGHT ENGINE: Two lumens packages are available, Standard Output (SO) and High Output (HO). A separate chart summarizes lumen distribution and wattage. LM79 test reports are available for each distribution. Light engines are replaceable.

LUMEN MAINTENANCE: 90% of initial light output (L90) at 100,000 hours; 70% of initial light output (L70) 168,000 hours.

Flex conduit is secured to top of fixture. Support to structure using All-Thread.

All-Thread support holes are located on each end of the fixture.

LED COLOR TEMPERATURE (CCT): 3000K, 3500K, or 4000K

DRIVER: Replaceable 120V/277V Constant Current Reduction dimming driver standard. Can be wired dimming or non-dimming. 0-10V dimming controls with a range of 10%- 100%. Dimming to 1% available; consult factory. Driver is fully accessible from below the ceiling. Power Factor: ≥0.9. Total Harmonic Distortion (THD) <20%. Expected driver lifetime: 100,000 hours.

LUTRON DRIVER OPTIONS: Lut3W-3-wire, LutES-EcoSystem, Lut2W-2-wire.

ELECTRICAL: Optional emergency to generator/inverter wiring, internal generator transfer switch, nightlight wiring, step-dimming driver, backup battery. Factory-choice lowprofile backup battery available. 8' minimum fixture length for low profile battery pack. Bodine BSL722 battery pack also available; 4' minimum fixture length. Backup battery delivers 1300 lumens. Half of a 4' section will be illuminated in emergency mode.



INTEGRATED SENSORS: Integrated PIR (Passive Infrared) occupancy and/or $\frac{\text{Occupancy}}{\text{Sensor}}$ daylight sensors available. Refer to Occupancy Sensor and Daylight Sensor

tech sheets for more information.

MOUNTING: Standard bracket design works with most lay-in ceiling types. Brackets secure luminaire to the ceiling grid from above. Tie-in T-Bar brackets. Connect luminaire to T-Bar for securing to structure. Consult local codes for tie-wire recommendations.

FEED: Standard with one 18-gauge/5-conductor singlecircuit feed. 14-gauge feed used when fixture current exceeds 5 amps. Optional 6' flex conduit whips available.

LENGTHS: Standard 4', 8', and 12' section lengths can be combined to make longer runs. Contact factory for custom lengths, angles and configurations accurate to 1/16thinch.

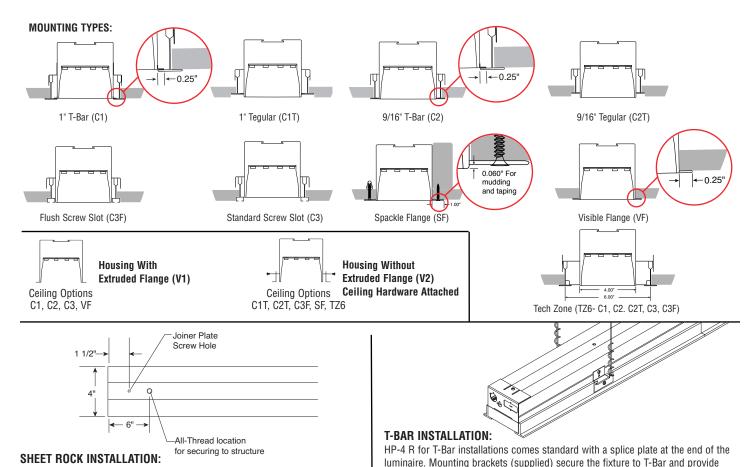
LABELS: Fixture and electrical components are ETL-listed conforming to UL 1598 in the U.S.A. and CAN/CSA C22.2 No. 250.0 in Canada. In accordance with NEC Code 410.73 (G), this luminaire contains an internal driver disconnect. Damp Location.

WEIGHT: 2.8 lb/ft.

support to structure location. All starter/independent fixtures are 11/16" shorter

than nominal. All joiner/ender fixture are normal length.

WARRANTY: 10-year warranty on all standard components. Optional accessories such as emergency battery packs are covered by their individual manufacturer warranties.





High Performance 4" Aperture (HP-4) - Recessed

		Lumen Output Per Foot					
	3000K		3500K		4000K		
	S0	НО	S0	НО	S0	НО	
Lumens Per Foot	329.75	639.25	337	655.5	361.75	689	
Watts Per Foot	4.45	9.35	4.55	9.3	4.525	9.225	
Efficacy (LPW)	74.1	68.4	74.1	70.5	79.9	74.6	

SO - Standard Output, HO - High Output

High Performance 4" Aperture (HP-4) - Recessed









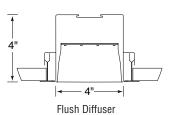
Date	
Project	
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Comments

DESCRIPTION

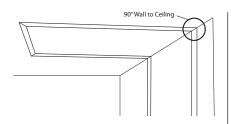
High Performance 4" Aperture Recessed (HP-4 R) is a patented, linear LED luminaire. HP-4 R is the first recessed linear LED luminaire to feature On-Grid™ mounting for standard lengths, making installation quick and easy. HP-4 R is RoHS compliant.





DIMENSIONS & DIFFUSER

Glare-free experience is attained with mid-powered LEDs and a precise diffuser to eliminate pixilation.



MITERED ANGLES

Fully illuminated corners have internal secondary diffusers to ensure against light leaks. Custom angles are available.



SEAMLESS ILLUMINATION

Internal secondary diffusers at corners, joints and seams ensure visually seamless, uniform, continuous illumination.

ORDERING GUIDE

Sample Number: HP-4 R - 32' - S0 - 3500K - 120V - SC - C1 - OBO

, , , , , , , , , , , , , , , , , , ,						
	HP-4 R	\mathbb{H}	\Box H	\supset \vdash	$\exists \vdash$	$\dashv \vdash$
Finelite Series HP-4 R						
Length (Minimum 2', increments accurate to 1/16th", Standard)						
Light Engine (SO - Standard Output, HO - High Output)						
LED Color Temperature (3000K, 3500K, 4000K)]			
Voltage (120V, 277V)						
Circuiting (SC - Single Circuit)*					J	
Mounting (C1 - 1" T-Bar, C2 - 9/16" T-Bar, C3 - Screw Slot, C3F - Flush Screw Slot, VF - Visible	e Flange, C2T - 9/16	6" Tegular,				
C1T - 1" Tegular, SF - Spackle Flange, TZ6 (C1, C2, C2T. C3, C3F) - Tech Zone 6") -						
Intergrated Sensor (OBO - Occupancy Sensor OBD - Daylight)						

*Contact factory for switching options

High Performance 4" Aperture (HP-4) - Recessed

PHOTOMETRY

Standard Output

Efficacy (Lumen per watt): 79.9

Total luminaire output: 1447 Lumens (362 lumens/foot)

18 Watts (4.5 watts/foot)

90

0.0

514 514

514

493

453 492

397 397

331 330

255 256

179

103 103

33 33

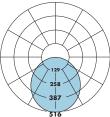
22.5 45

511

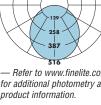
492

179

CRI: 83 R9: 10 CCT: 4000K ITL LM79 Report 74686



- Refer to www finelite com for additional photometry and product information.



lighting facts

PHOTOMETRY

High Output

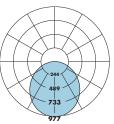
Efficacy (Lumen per watt): 74.6

Total luminaire output: 2754 Lumens (689 lumens/foot)

37 Watts (9.2 watts/foot)

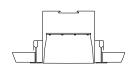
CRI: 83 R9: 10 CCT: 4000K

ITL LM79 Report 74687



 Refer to www finelite com for additional photometry and product information.





CANDLEPOWER SUMMARY								
	0.0	22.5	45	67.5	90	Flux		
0	973	973	973	973	973			
5	974	969	968	969	972	92		
15	936	932	931	932	934	263		
25	860	859	855	856	858	395		
35	754	755	<i>75</i> 0	<i>75</i> 1	<i>75</i> 1	470		
45	628	629	625	625	623	483		
55	487	489	488	486	481	435		
65	341	342	343	340	334	337		
75	199	198	198	194	190	208		
85	65	64	64	63	61	70		
90	0	4	6	8	8			

PHOTOMETRY

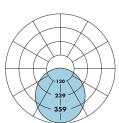
Standard Output

Efficacy (Lumen per watt): 74

Total luminaire output: 1348 Lumens (337 lumens/foot)

18 Watts (4.5 watts/foot)

CRI: 84 R9: 14 CCT: 3500K ITL LM79 Report 74684



- Refer to www.finelite.com for additional photometry and product information.





CANDLEPOWER SUMMARY

514

511

492

492 491 492 139

395 395 394 247

328 328

256 255 2.51 228

180 178

104 102

34 34

67.5

514 514

513

326 254

174

99 33 37

139

177

109

511

491 492

	CAI	NDLEPO	OWER	SUMM	\ARY	
	0.0	22.5	45	67.5	90	Flux
0	476	476	476	476	476	
5	476	474	473	473	475	45
15	457	456	455	455	456	129
25	420	422	418	418	419	193
35	368	369	367	367	367	230
45	308	307	306	306	304	236
55	238	239	238	238	235	213
65	167	167	168	166	163	165
75	97	97	97	96	94	102
85	32	31	32	32	32	35
90	0	2	4	5	6	

PHOTOMETRY

High Output

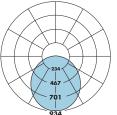
Efficacy (Lumen per watt): 70.5

Total luminaire output: 2622 Lumens (656 lumens/foot)

37 Watts (9.2 watts/foot)

CRI: 84 R9: 16





- Refer to www.finelite.com for additional photometry and product information.



	C	ANDLE	POWER	R SUMA	ΛARY	
	0.0	22.5	45	67.5	90	Flux
0	930	930	930	930	930	
5	930	926	925	925	928	88
15	893	890	889	890	891	251
25	820	821	816	816	817	377
35	719	719	714	715	714	448
45	598	598	595	595	592	460
55	463	464	463	462	456	413
65	325	325	326	323	31 <i>7</i>	320
75	188	188	189	186	181	198
85	61	61	62	62	60	67
90	0	2	5	6	7	

Consult www.finelite.com for 3000K photometric reports.

High Performance 4" Aperture (HP-4) - Recessed

SPECIFICATIONS

CONSTRUCTION: Precision-cut 6061-T6 extruded aluminum body. Internal joiner system, plug-together wiring, standard. Housing is powder coated.

ENDCAPS: Flat endcaps add 0.05" to each end of luminaire.

MITERED CORNERS: Illuminated 90° corners in a single plane are standard. Custom angles are available (90° minimum on inside corners). Contact factory.

REFLECTORS: Die-formed 20-gauge cold-rolled steel reflectors are finished in 96 LG high reflectance matte white powder coat paint.

DIFFUSER: 12' maximum lens length. Internal secondary diffusers at corners, joints and seams ensure visually seamless, uniform, continuous illumination. Frost white snap-in lens, 73% transmissive, 99% diffusion.

LIGHT ENGINE: Two lumens packages are available, Standard Output (SO) and High Output (HO). A separate chart summarizes lumen distribution and wattage. LM79 test reports are available for each distribution. Light engines are replaceable.

LUMEN MAINTENANCE: 90% of initial light output (L90) at 100,000 hours; 70% of initial light output (L70) 168,000 hours.

Flex conduit is secured to top of fixture. Support to structure using All-Thread.

All-Thread support holes are located on each end of the fixture.

LED COLOR TEMPERATURE (CCT): 3000K, 3500K, or 4000K

DRIVER: Replaceable 120V/277V Constant Current Reduction dimming driver standard. Can be wired dimming or non-dimming. 0-10V dimming controls with a range of 10%- 100%. Dimming to 1% available; consult factory. Driver is fully accessible from below the ceiling. Power Factor: ≥0.9. Total Harmonic Distortion (THD) <20%. Expected driver lifetime: 100,000 hours.

LUTRON DRIVER OPTIONS: Lut3W-3-wire, LutES-EcoSystem, Lut2W-2-wire.

ELECTRICAL: Optional emergency to generator/inverter wiring, internal generator transfer switch, nightlight wiring, step-dimming driver, backup battery. Factory-choice lowprofile backup battery available. 8' minimum fixture length for low profile battery pack. Bodine BSL722 battery pack also available; 4' minimum fixture length. Backup battery delivers 1300 lumens. Half of a 4' section will be illuminated in emergency mode.



INTEGRATED SENSORS: Integrated PIR (Passive Infrared) occupancy and/or $\frac{\text{Occupancy}}{\text{Sensor}}$ daylight sensors available. Refer to Occupancy Sensor and Daylight Sensor

tech sheets for more information.

MOUNTING: Standard bracket design works with most lay-in ceiling types. Brackets secure luminaire to the ceiling grid from above. Tie-in T-Bar brackets. Connect luminaire to T-Bar for securing to structure. Consult local codes for tie-wire recommendations.

FEED: Standard with one 18-gauge/5-conductor singlecircuit feed. 14-gauge feed used when fixture current exceeds 5 amps. Optional 6' flex conduit whips available.

LENGTHS: Standard 4', 8', and 12' section lengths can be combined to make longer runs. Contact factory for custom lengths, angles and configurations accurate to 1/16thinch.

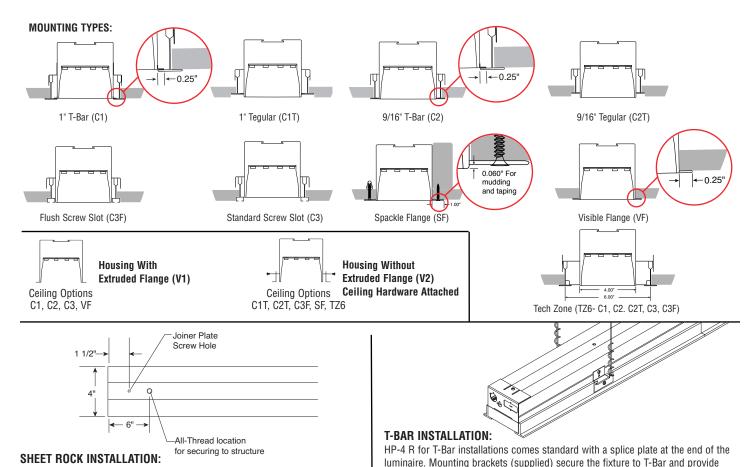
LABELS: Fixture and electrical components are ETL-listed conforming to UL 1598 in the U.S.A. and CAN/CSA C22.2 No. 250.0 in Canada. In accordance with NEC Code 410.73 (G), this luminaire contains an internal driver disconnect. Damp Location.

WEIGHT: 2.8 lb/ft.

support to structure location. All starter/independent fixtures are 11/16" shorter

than nominal. All joiner/ender fixture are normal length.

WARRANTY: 10-year warranty on all standard components. Optional accessories such as emergency battery packs are covered by their individual manufacturer warranties.





High Performance 4" Aperture (HP-4) - Recessed

		Lumen Output Per Foot					
	3000K		3500K		4000K		
	S0	НО	S0	НО	S0	НО	
Lumens Per Foot	329.75	639.25	337	655.5	361.75	689	
Watts Per Foot	4.45	9.35	4.55	9.3	4.525	9.225	
Efficacy (LPW)	74.1	68.4	74.1	70.5	79.9	74.6	

SO - Standard Output, HO - High Output

Lumark

The patented Lumark Crosstour™ LED Wall Pack Series of luminaries provides an architectural style with super bright, energy efficient LEDs. The low-profile, rugged die-cast aluminum construction, universal back box, stainless steel hardware along with a sealed and gasketed optical compartment make the Crosstour impervious to contaminants. The Crosstour wall luminaire is ideal for wall/surface, inverted mount for façade/canopy illumination, post/bollard, site lighting, floodlight and low level pathway illumination including stairs. Typical applications include building entrances, multi-use facilities, apartment buildings, institutions, schools, stairways and loading docks test.

Catalog #	Туре
Project	
Comments	Date

SPECIFICATION FEATURES

Construction

Slim, low-profile LED design with rugged one-piece, die-cast aluminum hinged removable door and back box. Matching housing styles incorporate both a small and large design. The small housing is available in 7W and 18W. The large housing is available in the 26W model. Patent pending secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes three (3) half-inch, NPT threaded conduit entry points. The universal back box supports both the small and large forms and mounts to standard 3-1/2" to 4" round and octagonal, 4" square, single gang and masonry junction boxes. Key hole gasket allows for adaptation to junction box or wall. External fin design extracts heat from the fixture surface. Onepiece silicone gasket seals door and back box. Minimum 5" wide pole for site lighting application. Not recommended for car wash applications.

Optical

Silicone sealed optical LED chamber incorporates a custom engineered mirrored anodized reflector providing high-efficiency illumination. Optical assembly includes impact-resistant tempered glass and meets IESNA requirements for full cutoff compliance. Solid state LED Crosstour luminaries are thermally optimized with five (5) lumen packages in cool 5000K or neutral warm 3500K LED color temperature (CCT).

Electrical

LED driver is mounted to the die-cast housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 7W models operate in -40°C to 40°C [-40°F to 104°F]. 18W and 26W models operate in -40°C to 40°C [-40°F to 104°F]. High ambient 50°C models available. Crosstour luminaires maintain greater than 90% of initial

light output after 72,000 hours of operation. Three (3) half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 120-277V 50/60Hz or 347V 60Hz models.

Finish

Crosstour is protected with a Super durable TGIC carbon bronze or summit white polyester powder coat paint. Super durable TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life.

Warrantv

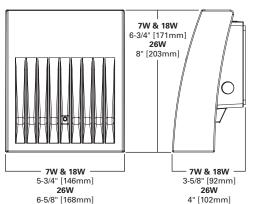
Five-year warranty.



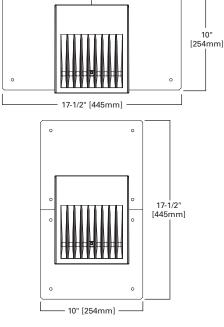
XTOR CROSSTOUR LED

APPLICATIONS: WALL / SURFACE POST / BOLLARD LOW LEVEL FLOODLIGHT INVERTED SITE LIGHTING

DIMENSIONS



ESCUTCHEON PLATES





CERTIFICATION DATA

UL/cUL Wet Location Listed LM79 / LM80 Compliant ROHS Compliant ADA Compliant NOM Compliant Models IP66 Ingressed Protection Rated Title 24 Compliant DesignLights Consortium® Qualified*

TECHNICAL DATA

40°C Maximum Ambient Temperature External Supply Wiring 90°C Minimum

EPA

Effective Projected Area (Sq. Ft.): XTOR1A/XT0R2A=0.34 XTOR3A=0.45

SHIPPING DATA:

Approximate Net Weight: 3.7 – 5.25 lbs. [1.7 – 2.4 kgs.]



LUMEN MAINTENANCE

Ambient Temperature	Maintenance						
XTOR1A Mode	el						
25°C	> 92%	> 290,000					
40°C	> 92%	> 290,000					
50°C	> 91%	> 270,000					
XTOR2A Mode	XTOR2A Model						
25°C	> 91%	> 270,000					
40°C	> 90%	> 260,000					
50°C	> 88%	> 225,000					
XTOR3A Mode	XTOR3A Model						
25°C	> 91%	> 280,000					
40°C	> 91%	> 270,000					
50°C	> 89%	> 240,000					

LUMENS - CRI/CCT TABLE

LED Information	XTOR1A	XTOR2A	XTOR2A-N	XTOR3A	XTOR3A-N
Delivered Lumens (Wall Mount)	722	1,633	1,523	2,804	2,284
Delivered Lumens (With Flood Accessory Kit) ¹	468	1,060	978	2,168	1,738
B.U.G. Rating ²	B0-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0
CCT (Kelvin)	5,000	5,000	3,500	5,000	3,500
CRI (Color Rendering Index)	65	65	70	65	70
Power Consumption (Watts)	7W	18W	18W	26W	26W
			1	•	

NOTES: 1 Includes shield and visor. 2 B.U.G. Rating does not apply to floodlighting.

CURRENT DRAW

Voltogo	Model Series				
voitage	Voltage XTOR1A		XTOR3A		
120V	0.05A	0.15A	0.22A		
208V	0.03A	0.08A	0.13A		
240V	0.03A	0.07A	0.11A		
277V	0.03A	0.06A	0.10A		
347V	0.025A	0.058A	0.082A		

ORDERING INFORMATION

Sample Number: XTOR2A-N-WT-PC1

Series 1	LED Kelvin Color	Housing Color	Options (Add as Suffix)	Accessories (Order Separately)
XTOR1A=Small Door, 7W XTOR2A=Small Door, 18W XTOR3A=Small Door, 26W	[Blank]=Bright White (Standard) 5000K N=Neutral Warm White, 3500K ²	[Blank]=Carbon Bronze (Standard) WT=Summit White	PC1=Photocontrol 120V ³ PC2=Photocontrol 208-277V ^{3,4} 347V=347V ⁵ HA=50°C High Ambient ⁵	WG/XTOR=Wire Guard ⁶ XTORFLD-KNC=Knuckle Floodlight Kit ⁷ XTORFLD-TRN=Trunnion Floodlight Kit ⁷ XTORFLD-KNC-WT=Knuckle Floodlight Kit, Summit White ⁷ XTORFLD-TRN-WT=Trunnion Floodlight Kit, Summit White ⁷ EWP/XTOR=Escutcheon Wall Plate, Carbon Bronze EWP/XTOR-WT=Escutcheon Wall Plate, Summit White

NOTES: 1 DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 2 XTOR1A not available in 3500K. 3 Photocontrols are factory installed. 4 Order PC2 for 347V models. 5 Thru-branch wiring not available with HA option or with 347V. 6 Wire guard for wall/surface mount. Not for use with floodlight kit accessory. 7 Floodlight kit accessory supplied with knuckle (KNC) or trunnion (TRN) base, small and large top visors and small and large impact shields.

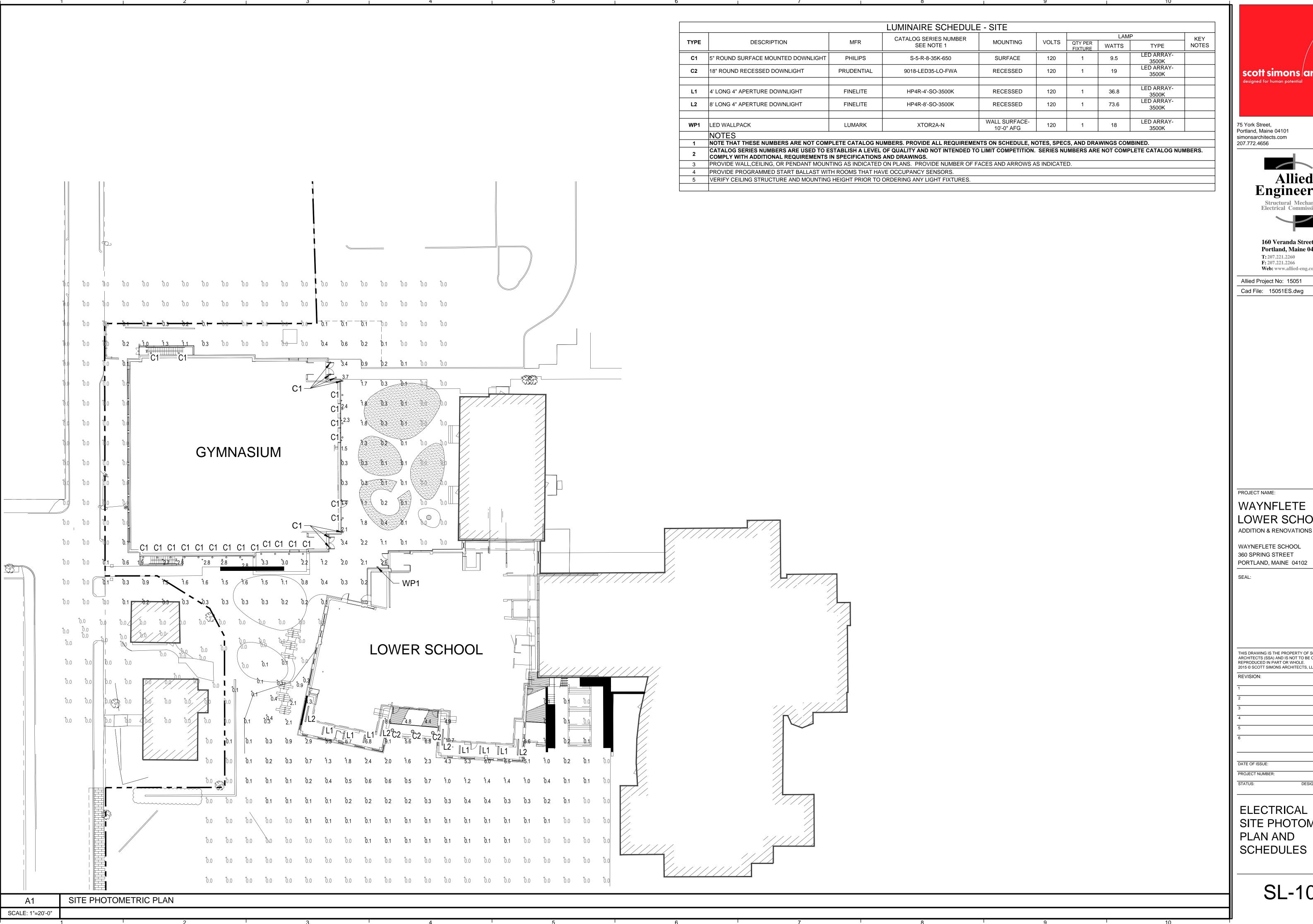
STOCK ORDERING INFORMATION

7W Series	18W Series	26W Series
XTOR1A=7W, 5000K, Carbon Bronze	XTOR2A=18W, 5000K, Carbon Bronze	XTOR3A=26W, 5000K, Carbon Bronze
XTOR1A-WT=7W, 5000K, Summit White	XTOR2A-N=18W, 3500K, Carbon Bronze	XTOR3A-N=26W, 3500K, Carbon Bronze
XTOR1A-PC1=7W, 5000K, 120V PC, Carbon Bronze	XTOR2A-WT=18W, Summit White	XTOR3A-WT=26W, Summit White
	XTOR2A-PC1=18W, 120V PC, Carbon Bronze	XTOR3A-PC1=26W, 120V PC, Carbon Bronze

5-DAY QUICK SHIP ORDERING INFORMATION

7W Series	18W Series	26W Series
XTOR1A-WT-PC1=7W, 5000K, Summit White, 120V PC	XTOR2A-PC2=18W, 5000K, 208-277V PC, Carbon Bronze	XTOR3A-PC2=26W, 5000K, 208-277V PC, Carbon Bronze
	XTOR2A-WT-PC1=18W, 5000K, Summit White, 120V PC	XTOR3A-WT-PC1=26W, 5000K, Summit White, 120V PC
	XTOR2A-WT-PC2=18W, 5000K, Summit White, 208-277V PC	XTOR3A-WT-PC2=26W, 5000K, Summit White, 208-277V PC
	XTOR2A-N-WT=18W, 3500K, Summit White	XTOR3A-N-WT=26W, 3500K, Summit White
	XTOR2A-N-PC1=18W, 3500K, 120V PC, Carbon Bronze	XTOR3A-N-PC1=26W, 3500K, 120V PC, Carbon Bronze
	XTOR2A-N-PC2=18W, 3500K, 208-277V PC, Carbon Bronze	XTOR3A-N-PC2=26W, 3500K, 208-277V PC, Carbon Bronze
	XTOR2A-N-WHT-PC1=18W, 3500K, Summit White, 120V PC	XTOR3A-N-WHT-PC1=26W, 3500K, Summit White, 120V PC
	XTOR2A-N-WT-PC2=18W, 3500K, Summit White, 208-277V PC	XTOR3A-N-WT-PC2=26W, 3500K, Summit White, 208-277V PC





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PROJECT NAME:

WAYNFLETE LOWER SCHOOL

WAYNEFLETE SCHOOL 360 SPRING STREET

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DESIGN DEVELOPMENT

ELECTRICAL SITE PHOTOMETRIC PLAN AND SCHEDULES

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