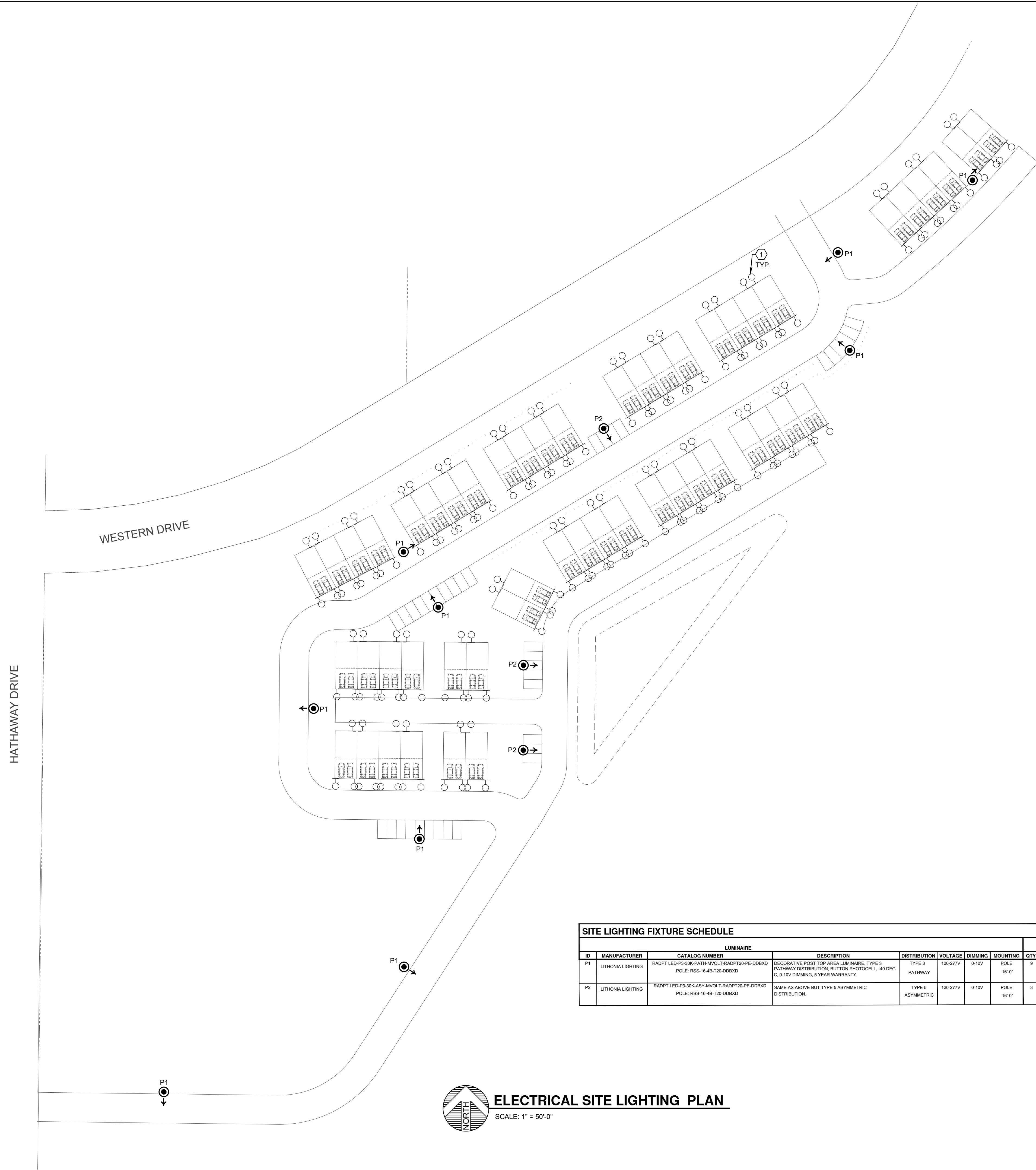


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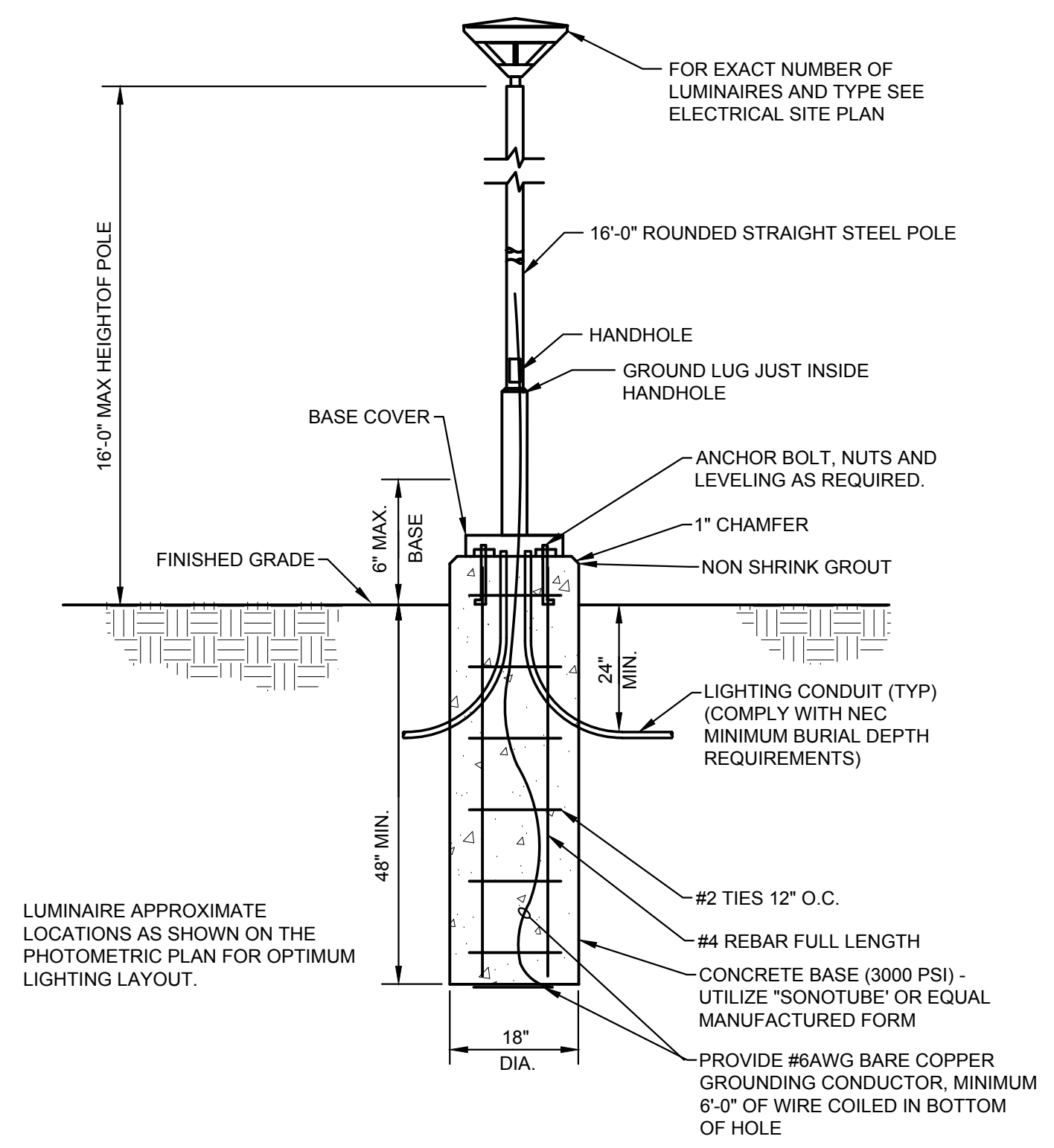


ELECTRICAL SITE LIGHTING PLAN
SCALE: 1" = 50'-0"

SITE LIGHTING FIXTURE SCHEDULE												
LUMINAIRE												
ID	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	DISTRIBUTION	VOLTAGE	DIMMING	MOUNTING	QTY.	TYPE	WATTS	LUMENS	COLOR TEMP./CRI
P1	LITHOMIA LIGHTING	RADPT1-LED-P3-30K-PATH-MVOLT-RADPT20-PE-DOBXD POLE: RSS-16-48-T20-DOBXD	DECORATIVE POST TOP AREA LUMINAIRE, TYPE 3 PATHWAY DISTRIBUTION, BUTTON PHOTOCELL, 40 DEG. C, 0-10V DIMMING, 5 YEAR WARRANTY.	TYPE 3 PATHWAY	120-277V	0-10V	POLE 16'-0"	9	LED	54	5,707	3000K
P2	LITHOMIA LIGHTING	RADPT1-LED-P3-30K-ASYM-VOLT-RADPT20-PE-DOBXD POLE: RSS-16-48-T20-DOBXD	SAME AS ABOVE BUT TYPE 5 ASYMMETRIC DISTRIBUTION.	TYPE 5 ASYMMETRIC	120-277V	0-10V	POLE 16'-0"	3	LED	54	5,707	3000K

KEYED NOTES
① TYPICAL CARRIAGE LIGHT FOR TOWNHOMES. COORDINATE WITH OWNER.

Please provide details of this fixture



① TYPICAL FIXTURE TYPE P1,P2 POLE BASE DETAIL
NOT TO SCALE

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CONSTRUCTION**

**721 WESTERN DR. TOWNHOMES
SITE DEVELOPMENT PLAN PHOTOMETRY**
721 WESTERN DRIVE, COLORADO SPRINGS, CO 80915

REVISIONS	MARK	DATE	COMMENT
1	Δ	09/15/2023	COORDINATION SET

**ELECTRICAL SITE
DEVELOPMENT
PLAN**

PROJECT	23080
DATE	09/15/2023
DRAWN	CAO
CHECKED	MP

DP1

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
10' Beyond Property Line	Illuminance	Fc	0.04	0.7	0.0	N.A.	N.A.
Property Line	Illuminance	Fc	0.09	1.3	0.0	N.A.	N.A.
Western Townhomes Site	Illuminance	Fc	0.29	2.9	0.0	N.A.	N.A.
Townhomes Area	Illuminance	Fc	0.42	2.9	0.0	N.A.	N.A.

Per Section 6.2.3.B.1.e. in the Land Development Code, "Light levels measured at the property line of the development site adjacent to... public right of way shall not exceed 0.1 foot candles"

GENERAL NOTES

- A. CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO ANY EXCAVATION. NOT ALL EXISTING CONDITIONS ARE SHOWN FOR CLARITY.
- B. CONTRACTOR SHALL PROVIDE ALL REQUIRED CUTTING, TRENCHING, BACKFILLING, AND RESTORATION.
- C. THESE PHOTOMETRIC CALCULATIONS ARE BASED ON MANUFACTURER'S IES FILES AND 0.85 LIGHT DEPRECIATION FACTOR.
- D. ACTUAL ILLUMINANCE LEVELS MAY DIFFER FROM THE FOOT CANDLE LEVELS SHOWN DUE TO VARIABLE FIELD CONDITIONS, SUCH AS NEARBY EXISTING LUMINAIRES, LUMINAIRE DIRT DEPRECIATION, LANDSCAPING, AND FUTURE DEVELOPMENTS.

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SITE DEVELOPMENT PLAN PHOTOMETRY
721 WESTERN DRIVE, COLORADO SPRINGS, CO 80915

REVISIONS	MARK	DATE	COMMENT
	Δ	09/15/2023	COORDINATION SET

DEVELOPMENTAL
SITE
PHOTOMETRIC
PLAN

PROJECT	23080
DATE	09/15/2023
DRAWN	CAO
CHECKED	MP

SHEET
DP2

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HATHAWAY DRIVE

WESTERN DRIVE


PROPERTY LINE

10' BEYOND PROPERTY LINE

ELECTRICAL SITE LIGHTING PHOTOMETRIC PLAN
SCALE: 1" = 50'-0"

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Radean Post Top LED Area Luminaire



Specifications

EPA: 1.02 ft² (0.105 m²)

Length: 24" (61cm)

Width: 24" (61cm)

H1 Luminaire Height: 4" (10.16cm)

H2 Luminaire Height: 26" (66.04cm)

Weight: 38lbs (17.24kg)


Introduction

The architecturally-inspired shape of the RADEAN™ post top area luminaire embodies the grace and strength of the RADEAN family. The twin copper-core cast aluminum arms support the slender superstructure, creating a beautiful sculpture by day transforming into a beacon of comfort by night. Triangular arms redirect reflection maintaining its visually quiet appearance. With sleek lines and simple silhouettes, these LED luminaires use specialized lighting and visual comfort to transform common areas like courtyards, outdoor retail locations, universities and corporate campuses into pedestrian-friendly nighttime environments.

Ordering Information **EXAMPLE:** RADPT LED P3 30K SYM MVOLT PT4 PE DNAXD

RADPT LED	Series	Performance package	Color temperature	Distribution	Voltage	Mounting required
RADPT LED	P1	3,000 Lumens	27K 2700K	SYM Symmetric type V	MVOLT ¹ 277 ²	PT4 ¹ Slips inside a 4"Ø round metal pole
	P2	5,000 Lumens	30K 3000K	ASY Asymmetric type IV	120 ³ 347	RADPT20 Slips over a 2 3/8" diameter tenon (4" tall tenon required)
	P3	7,000 Lumens	35K 3500K	PATH Pathway type III	208 ⁴ 480	RADPT25 Slips over a 2 7/8" diameter tenon (4" tall tenon required)
	P4	10,000 Lumens	40K 4000K		240 ⁵	
	P5	15,000 Lumens	50K 5000K			

Control options	Other options	Finish options
Shipped installed METARK right AR 3.0 enabled ⁶ PE Battery powered ⁶ FAO Field adjustable output ⁶	SF Single face ⁷ DF Double face ⁷ RRO Recessed optics ⁷	Shipped installed HS Housewre steel ⁸ DOBKX Dark bronze DBLXK Black DNALD Natural aluminum DNWHD White DOBKD Textured dark bronze DBLBD Textured black DNWTD Textured natural aluminum DNWCD Textured white



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RADPT LED Rev. 06/24/23

Ordering Information

Accessories
Optional accessories only

MBRS Round steel shade wheel
 MRO DBX20 Double ended base for 4"Ø pole (patent pending)
 MRO DBX25 Full base case for 4"Ø pole (patent pending)

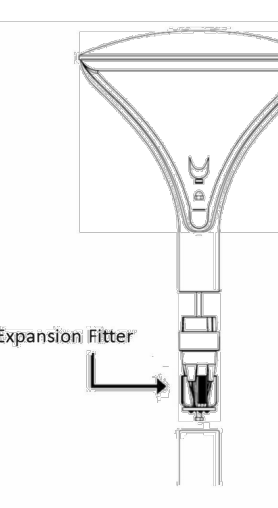
For more control options, visit [www.lithonia.com](#)

NOTES

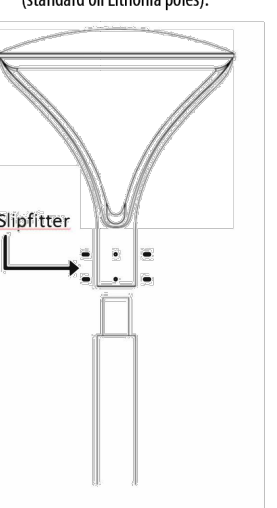
- 2700K and 3500K may require extended lead times.
- MRO21 driver operates on any line voltage from 120-277V (50/60 Hz). Single face (SF) requires 120, 277 or 347 voltage option. Double face (DF) requires 208, 240 or 480 voltage option.
- Requires optional 4" round straight metal pole.
- METARK not available with PE or FAO. Must link to external iLight Air network. Does not include occupancy sensor. For more information refer to 35325 pole mount sensor.
- For left rotation, select RRO and rotate luminaire 180° on pole.
- Also available as a separate accessory; see Accessories information at left. HS not available with RRO. Shield is field installable shield in 180° increments.

Mounting

PT4



RADPT20 or RADPT25
RADPT20 and RADPT25 mounting requires a 4" tall tenon (standard on Lithonia poles).

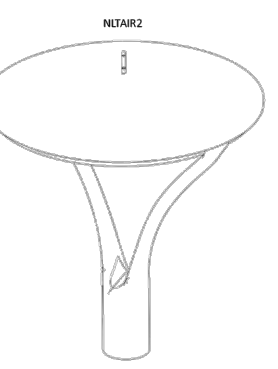


Acuity Part Number	Description	For Luminaires	Used with Mounting
RSS 18 48 PT DBXBD	18" Round Straight Steel - 4" O.D. - Open Top	RADPT LED	PT4
RSS 12 48 PT DBXBD	12" Round Straight Steel - 4" O.D. - Open Top	RADPT LED	PT4
RSS 14 48 PT DBXBD	14" Round Straight Steel - 4" O.D. - Open Top	RADPT LED	PT4
RSS 16 48 PT DBXBD	16" Round Straight Steel - 4" O.D. - Open Top	RADPT LED	PT4
RSS 18 48 PT DBXBD	18" Round Straight Steel - 4" O.D. - Open Top	RADPT LED	PT4
RSS 20 48 PT DBXBD	20" Round Straight Steel - 4" O.D. - Open Top	RADPT LED	PT4
RSS 25 48 PT DBXBD	25" Round Straight Steel - 4" O.D. - Open Top	RADPT LED	PT4
RSS 18 48 T20 DBXBD	18" Round Straight Steel - 4" O.D. - Tenon Top	RADPT LED	RADPT20
RSS 12 48 T20 DBXBD	12" Round Straight Steel - 4" O.D. - Tenon Top	RADPT LED	RADPT20
RSS 14 48 T20 DBXBD	14" Round Straight Steel - 4" O.D. - Tenon Top	RADPT LED	RADPT20
RSS 16 48 T20 DBXBD	16" Round Straight Steel - 4" O.D. - Tenon Top	RADPT LED	RADPT20
RSS 18 48 T20 DBXBD	18" Round Straight Steel - 4" O.D. - Tenon Top	RADPT LED	RADPT20
RSS 20 48 T20 DBXBD	20" Round Straight Steel - 4" O.D. - Tenon Top	RADPT LED	RADPT20
RSS 25 48 T20 DBXBD	25" Round Straight Steel - 4" O.D. - Tenon Top	RADPT LED	RADPT20

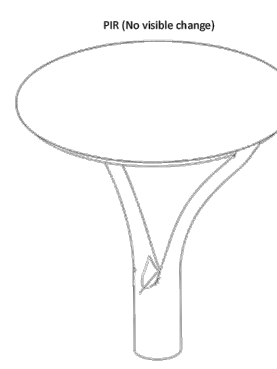
* Customer must verify pole loading per required design criteria and specified wind speed. Consult pole specification sheet for additional details.

Control Options

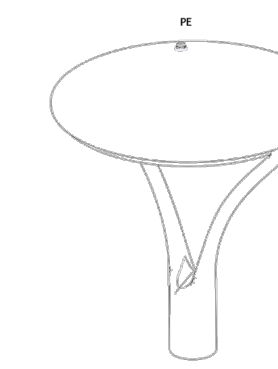
METARK



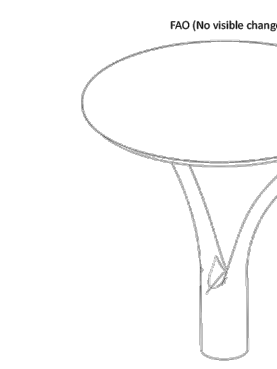
PE (No width change)




PE



FAO (No width change)





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RADPT LED Rev. 06/24/23

Performance Data

Lumen Output
 Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Contact factory for performance data on any configurations not shown here.

Performance Package	Input Wattage	Distribution	2700K						3500K						4000K						5000K						
			1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	
P1	25	ASY	2,924	2	1	1	115	3,022	2	2	2	119	3,095	2	2	2	121	3,168	3	2	3	123	3,168	2	2	3	125
		PATH	2,529	2	1	2	100	2,613	2	2	2	103	2,676	2	2	2	105	2,739	2	2	2	108	2,739	2	2	2	108
		SYM	3,086	2	1	1	121	3,189	2	1	1	126	3,266	2	1	1	129	3,344	2	1	1	132	3,344	2	1	1	132
P2	38	ASY	4,521	3	2	3	119	4,672	3	2	3	123	4,785	3	2	3	126	4,898	3	2	3	129	4,898	3	2	3	129
		PATH	3,909	2	2	2	103	4,040	2	2	2	106	4,137	2	2	2	109	4,235	3	2	3	111	4,235	3	2	3	111
		SYM	4,772	2	2	1	126	4,931	3	2	1	130	5,050	3	2	1	133	5,169	3	2	1	136	5,169	3	2	1	136
P3	54	ASY	6,387	3	2	3	119	6,600	3	2	3	123	6,760	3	2	3	126	6,919	3	2	3	129	6,919	3	2	3	129
		PATH	5,521	3	2	3	103	5,707	3	2	3	106	5,845	3	2	3	109	5,983	3	2	3	112	5,983	3	2	3	112
		SYM	6,761	3	2	2	126	6,966	3	2	2	130	7,185	3	2	2	133	7,393	3	2	2	136	7,393	3	2	2	136
P4	86	ASY	10,150	4	2	4	118	10,489	4	2	4	122	10,742	4	2	4	125	10,996	4	2	4	128	10,996	4	2	4	128
		PATH	8,727	3	2	3	102	9,070	3	2	3	106	9,249	3	2	3	108	9,500	3	2	3	111	9,500	3	2	3	111
		SYM	10,713	3	2	2	125	11,071	3	2	2	129	11,338	3	2	2	132	11,606	3	2	2	135	11,606	3	2	2	135
P5	123	ASY	14,200	4	2	4	116	14,724	4	2	4	120	15,081	4	3	4	123	15,437	4	3	4	126	15,437	4	3	4	126
		PATH	12,322	4	2	4	101	12,733	4	3	4	104	13,041	4	3	4	106	13,349	4	3	4	109	13,349	4	3	4	109
		SYM	15,040	4	2	3	123	15,541	4	2	3	127	15,917	4	2	3	130	16,293	4	2	3	133	16,293	4	2	3	133

Lumen Ambient Temperature (LAT) Multipliers
Data determines the extrapolated performance projections for the RADPT LED platform in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

Ambient	32°F	1.00
0°C	32°F	1.00
5°C	41°F	1.05
10°C	50°F	1.04
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.96


Projected LED Lumen Maintenance
Data determines the extrapolated performance projections for the RADPT LED platform in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate Lf, use the Lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Package	Projected LED Lumen Maintenance			
	0	25,000	50,000	100,000
P1	1.00	0.96	0.91	0.82
P2	1.00	0.96	0.91	0.82
P3	1.00	0.96	0.91	0.82
P4	1.00	0.96	0.91	0.82
P5	1.00	0.95	0.89	0.78

Electrical Load

Lumen Package	LED Drive Current	Voltage	Wattage	Summation (A)						
				150	208	346	277	317	480	
P1	500	42.8	21.4	Input Current	0.22	0.13	0.11	0.1	0.08	0.06
				System Watts	26	26	26	27	25	26
P2	770	41	33.1	Input Current	0.33	0.19	0.16	0.14	0.11	0.08
				System Watts	39	39	39	39	38	38
P3	1100	43.2	47.5	Input Current	0.46	0.26	0.23	0.2	0.16	0.12
				System Watts	55	54	54	54	54	54
P4	900	87.3	78.6	Input Current	0.73	0.42	0.36	0.32	0.25	0.18
				System Watts	87	86	86	86	86	86
P5	1250	88.2	110.2	Input Current	1	0.58	0.5	0.44	0.35	0.25
				System Watts	120	119	119	119	120	120



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CUT SHEETS

DP3

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