

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P823410

Luminaire Tested: **TTN-D2-830-U-WQ**

Issue Date: 4/16/2024

Test Information

Test Method: LM-79-08
Report Number: P823410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-254-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TTN-D2-830-U-WQ
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE
3000K, 80 CRI LEDS AND WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4736 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G2

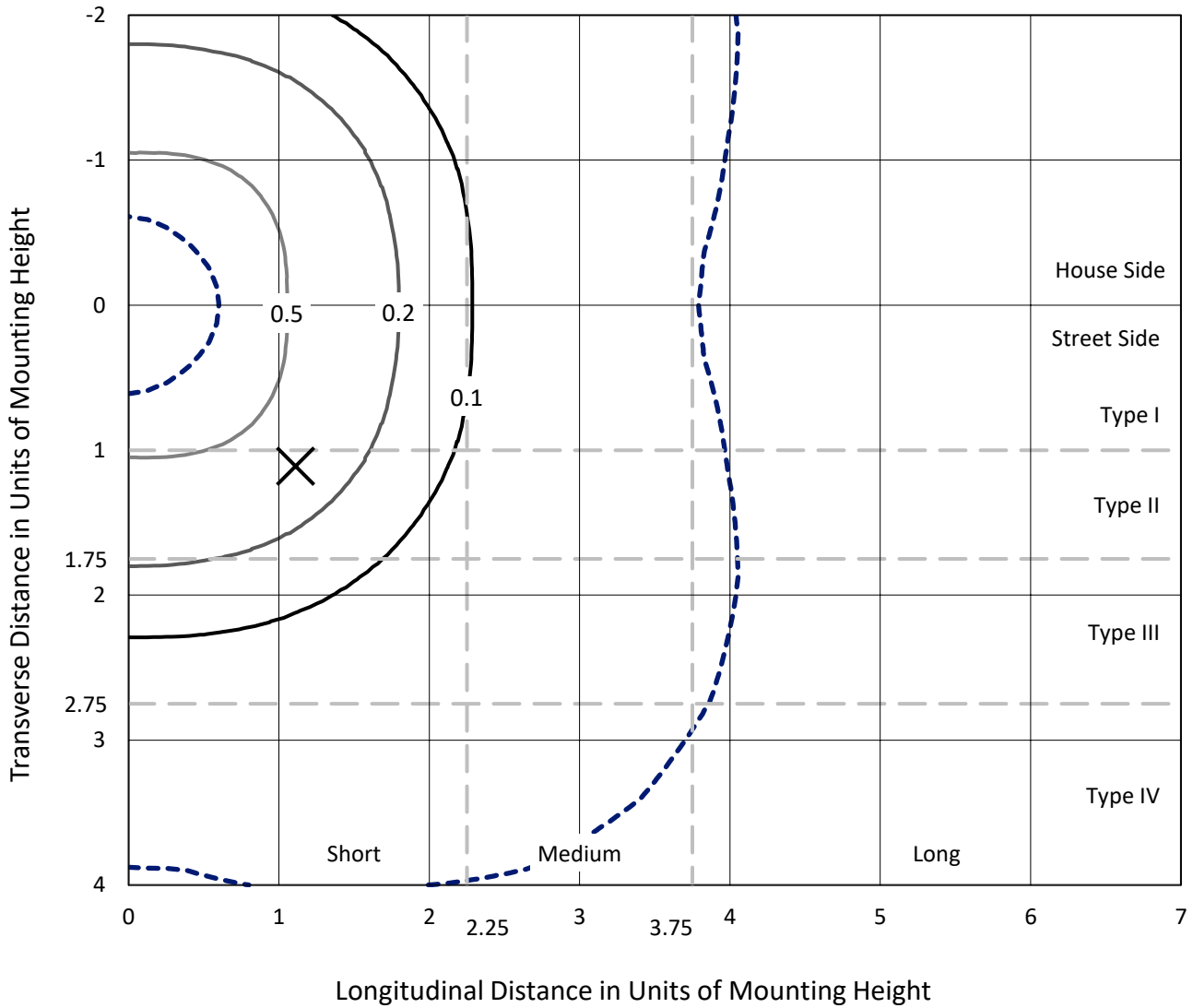
Input Watts (W): 42.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

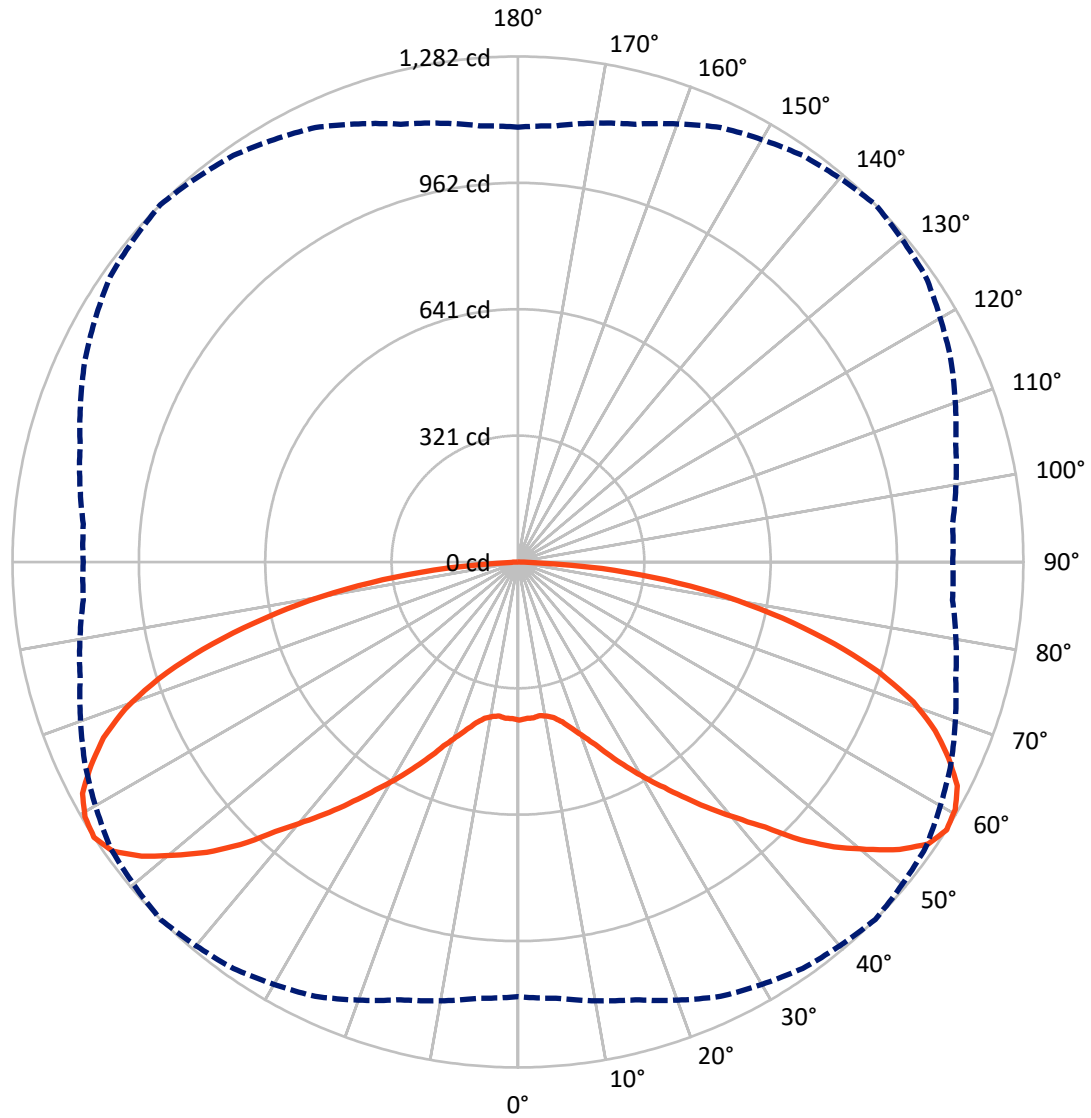
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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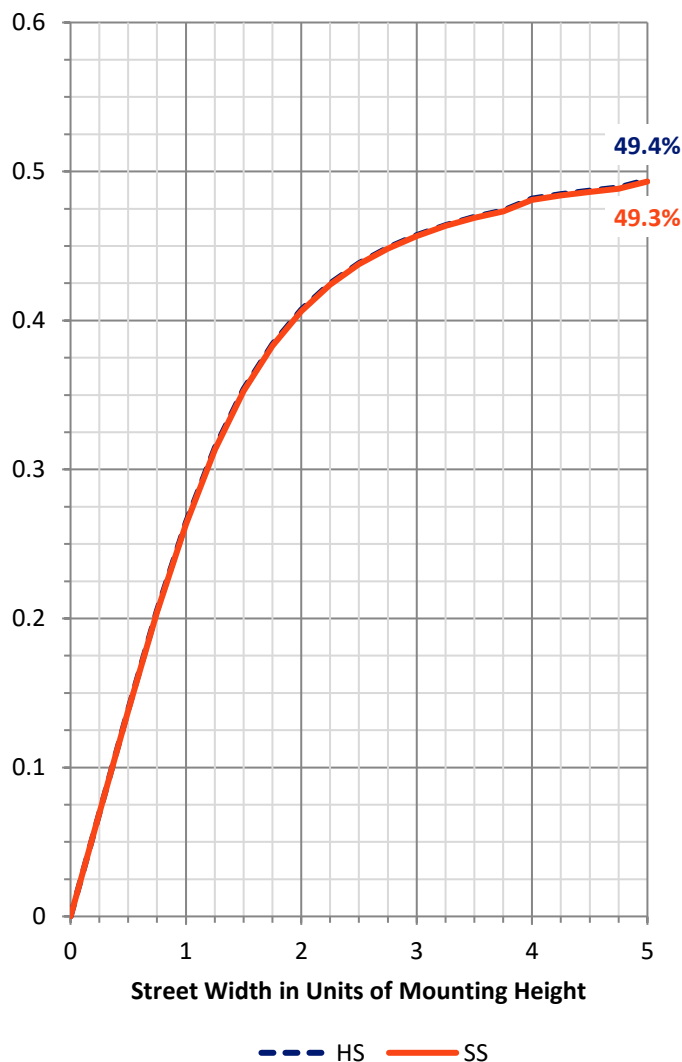
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2368.0	0.0	2368.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2368.0	0.0	2368.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4736.0	0.0	4736.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.7	0.8
10°-20°	120.4	2.5
20°-30°	252.6	5.3
30°-40°	458.4	9.7
40°-50°	747.2	15.8
50°-60°	1045.9	22.1
60°-70°	1091.8	23.1
70°-80°	780.1	16.5
80°-90°	201.8	4.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4736.0	100.0
0°-180°	4736.0	100.0

Coefficient of Utilization



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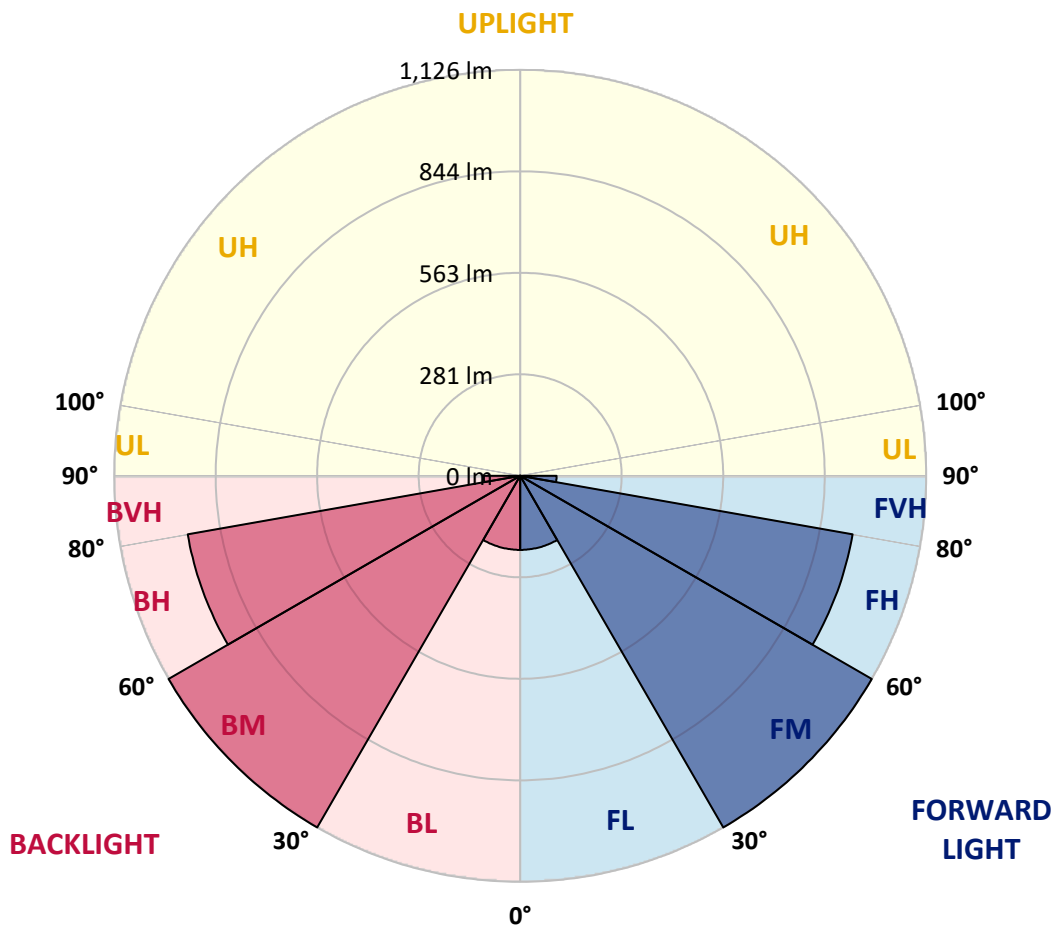
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	205.4	4.3			
FM (30°-60°)	1125.7	23.8			
FH (60°-80°)	936.0	19.8			G1/1800
FVH (80°-90°)	100.9	2.1			G2/225
BL (0°-30°)	205.4	4.3	B1/500		
BM (30°-60°)	1125.7	23.8	B2/2500		
BH (60°-80°)	936.0	19.8	B2/1000		G1/1800
BVH (80°-90°)	100.9	2.1			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	401.4	401.4	401.4	401.4	401.4	401.4	401.4	401.4	401.4	401.4	401.4
2.5°	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5
5°	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5
7.5°	389.7	389.7	393.6	393.6	393.6	393.6	393.6	393.6	393.6	393.6	393.6
10°	389.7	389.7	393.6	393.6	397.5	397.5	397.5	393.6	393.6	389.7	389.7
12.5°	397.5	397.5	397.5	401.4	405.3	405.3	405.3	401.4	401.4	397.5	397.5
15°	409.2	413.1	413.1	417.0	420.9	420.9	420.9	417.0	417.0	413.1	413.1
17.5°	432.6	432.6	432.6	436.5	440.4	444.3	444.3	436.5	436.5	432.6	436.5
20°	456.0	459.9	459.9	463.8	467.7	471.6	467.7	463.8	459.9	459.9	459.9
22.5°	491.1	491.1	495.0	495.0	502.8	502.8	502.8	495.0	495.0	495.0	495.0
25°	530.1	530.1	534.0	537.9	545.6	545.6	541.8	534.0	534.0	534.0	537.9
27.5°	576.8	576.8	580.7	580.7	588.5	588.5	584.6	580.7	580.7	580.7	584.6
30°	619.7	619.7	627.5	631.4	635.3	635.3	635.3	627.5	627.5	623.6	623.6
32.5°	658.7	662.6	666.5	678.2	686.0	682.1	686.0	678.2	670.4	666.5	666.5
35°	701.5	705.4	713.2	724.9	736.6	736.6	736.6	724.9	717.1	709.3	713.2
37.5°	752.2	752.2	763.9	775.6	791.2	795.1	791.2	779.5	767.8	760.0	760.0
40°	806.8	806.8	818.5	830.2	849.7	853.5	849.7	834.1	818.5	814.6	814.6
42.5°	861.3	861.3	876.9	888.6	912.0	919.8	912.0	892.5	876.9	865.2	869.1
45°	919.8	923.7	943.2	966.6	993.9	1005.6	993.9	970.5	947.1	923.7	923.7
47.5°	986.1	986.1	1009.4	1036.7	1067.9	1079.6	1064.0	1040.6	1009.4	990.0	990.0
50°	1028.9	1032.8	1064.0	1099.1	1138.1	1145.9	1134.2	1099.1	1064.0	1036.7	1032.8
52.5°	1071.8	1075.7	1110.8	1161.5	1200.4	1212.1	1196.5	1161.5	1110.8	1075.7	1075.7
55°	1099.1	1106.9	1145.9	1200.4	1243.3	1262.8	1239.4	1200.4	1142.0	1103.0	1099.1
57.5°	1103.0	1110.8	1149.8	1216.0	1258.9	1282.3	1262.8	1212.1	1149.8	1106.9	1103.0
60°	1095.2	1099.1	1138.1	1208.2	1258.9	1274.5	1258.9	1204.3	1134.2	1099.1	1091.3
62.5°	1075.7	1083.5	1122.5	1180.9	1239.4	1251.1	1235.5	1177.0	1118.6	1075.7	1067.9
65°	1013.3	1021.1	1079.6	1138.1	1188.7	1200.4	1188.7	1138.1	1075.7	1013.3	1005.6
67.5°	943.2	947.1	1005.6	1075.7	1122.5	1142.0	1122.5	1079.6	1001.7	943.2	935.4
70°	869.1	873.0	919.8	993.9	1040.6	1064.0	1044.5	997.8	915.9	865.2	861.3
72.5°	783.4	783.4	830.2	888.6	935.4	958.8	943.2	884.7	822.4	771.7	763.9
75°	666.5	670.4	721.0	763.9	814.6	830.2	814.6	767.8	709.3	658.7	650.9
77.5°	545.6	549.5	592.4	627.5	674.3	686.0	674.3	635.3	580.7	537.9	534.0
80°	413.1	417.0	452.1	483.3	522.3	537.9	526.2	487.2	444.3	405.3	393.6
82.5°	268.9	272.8	307.9	331.3	366.4	378.1	370.3	335.2	300.1	261.1	257.2
85°	120.8	124.7	155.9	175.4	202.7	214.4	206.6	175.4	148.1	113.0	105.2
87.5°	11.7	11.7	11.7	11.7	11.7	15.6	15.6	11.7	11.7	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)