

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: P823408

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

Issue Date: 4/16/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P823408  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-254-8)  
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-MQ  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE  
3000K, 80 CRI LEDS AND MEDIUM DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4965.9 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Luminous Opening: Circular (Dia: 0.71' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

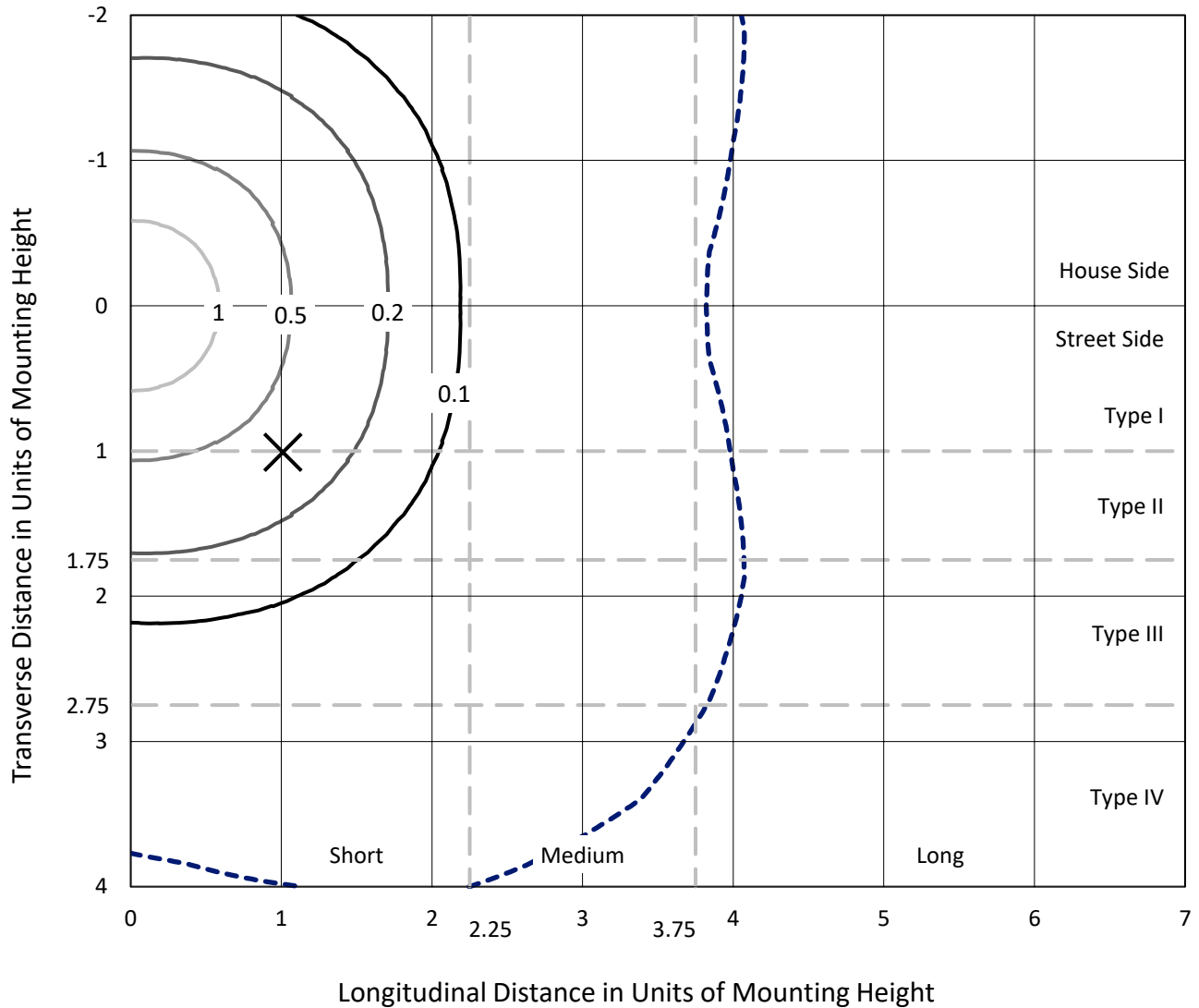
Input Watts (W): 42.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

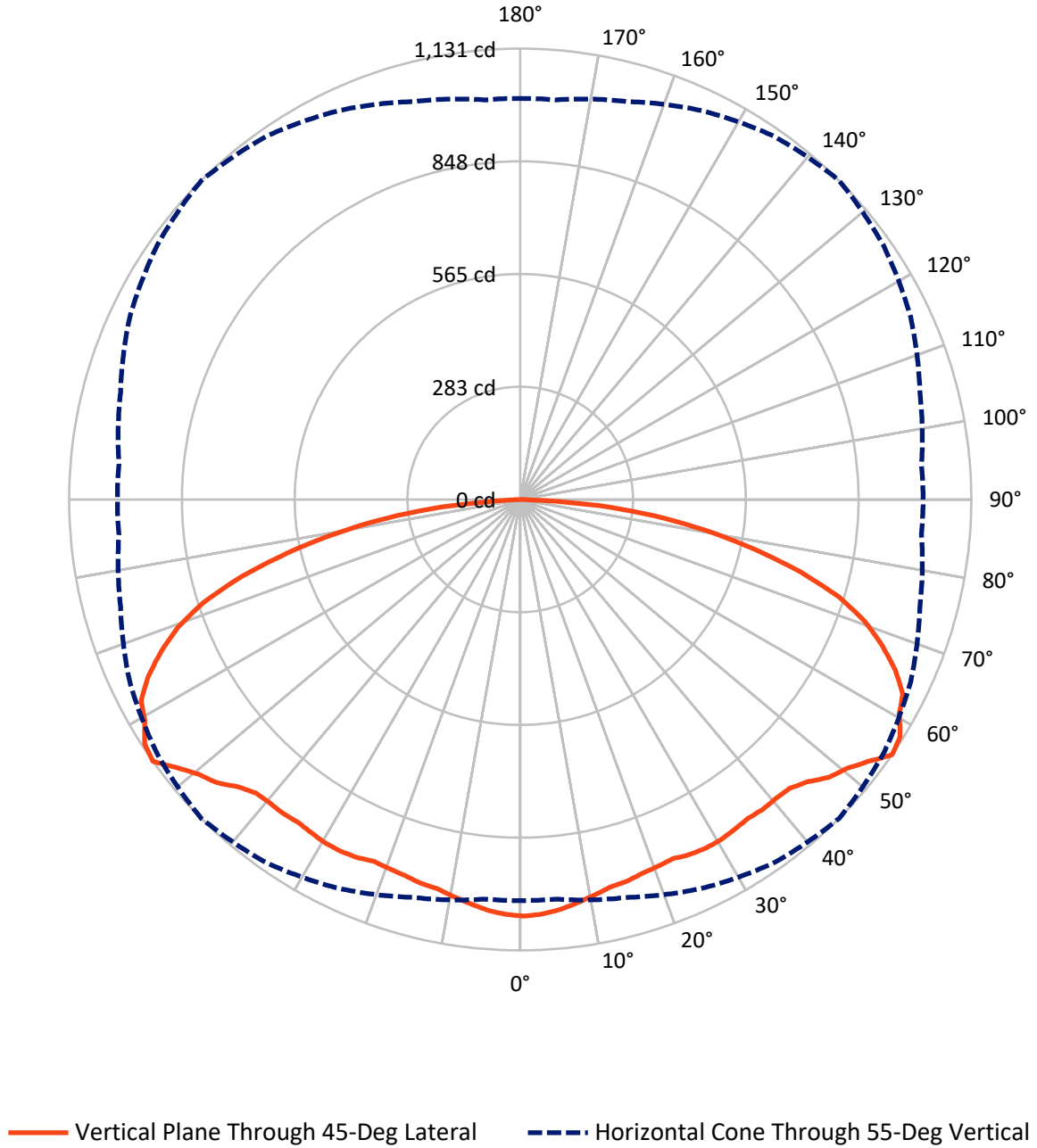
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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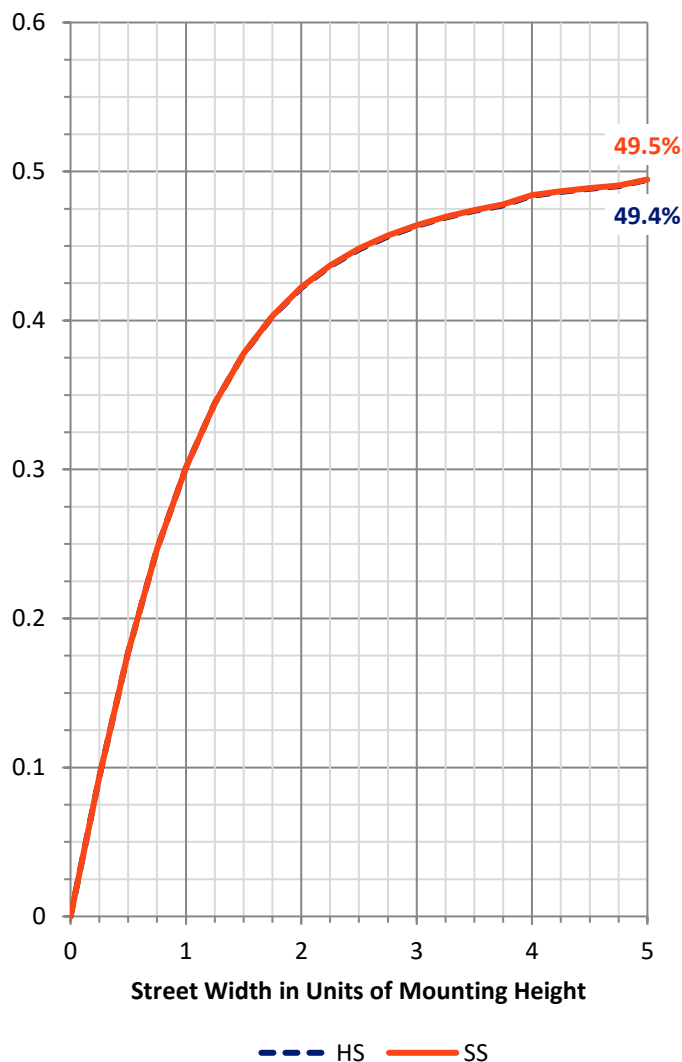
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2483.0	0.0	2483.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2483.0	0.0	2483.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4965.9	0.0	4965.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.8	2.0
10°-20°	280.7	5.7
20°-30°	453.7	9.1
30°-40°	614.0	12.4
40°-50°	769.0	15.5
50°-60°	942.4	19.0
60°-70°	944.7	19.0
70°-80°	681.7	13.7
80°-90°	181.8	3.7
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°	4965.9	100.0
0°-180°	4965.9	100.0

**Coefficient of Utilization**



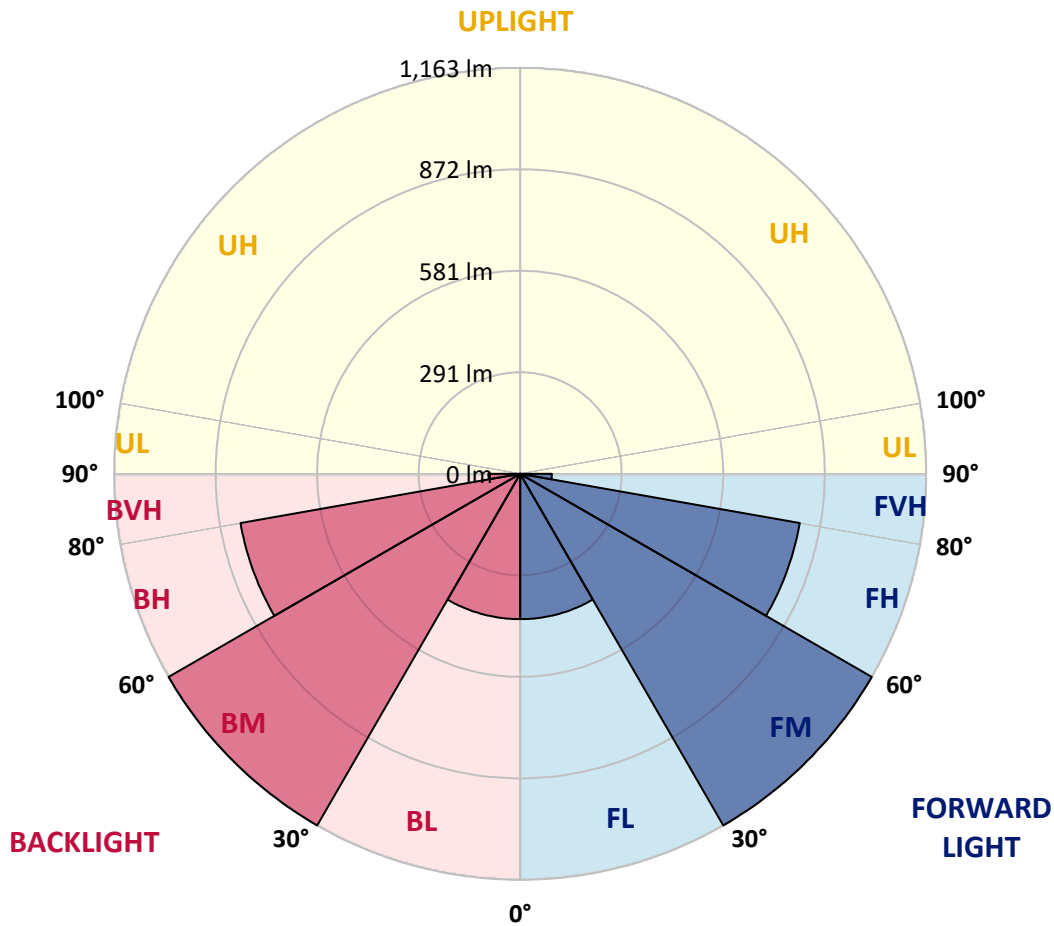
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	416.1	8.4			
FM (30°-60°)	1162.7	23.4			
FH (60°-80°)	813.2	16.4			G1/1800
FVH (80°-90°)	90.9	1.8			G1/100
BL (0°-30°)	416.1	8.4	B1/500		
BM (30°-60°)	1162.7	23.4	B2/2500		
BH (60°-80°)	813.2	16.4	B2/1000		G1/1800
BVH (80°-90°)	90.9	1.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1044.8	1044.8	1044.8	1044.8	1044.8	1044.8	1044.8	1044.8	1044.8	1044.8	1044.8
2.5°	1040.9	1040.9	1040.9	1037.0	1040.9	1040.9	1040.9	1040.9	1040.9	1040.9	1040.9
5°	1033.1	1033.1	1033.1	1033.1	1033.1	1033.1	1033.1	1033.1	1033.1	1033.1	1033.1
7.5°	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4
10°	1005.8	1005.8	1005.8	1005.8	1009.7	1009.7	1009.7	1009.7	1005.8	1005.8	1005.8
12.5°	994.1	994.1	994.1	998.0	998.0	998.0	998.0	998.0	998.0	998.0	994.1
15°	990.2	990.2	990.2	990.2	994.1	994.1	994.1	994.1	990.2	990.2	990.2
17.5°	982.4	982.4	982.4	986.3	986.3	986.3	986.3	986.3	982.4	982.4	982.4
20°	974.6	974.6	978.5	978.5	982.4	982.4	982.4	978.5	978.5	974.6	978.5
22.5°	974.6	974.6	974.6	978.5	978.5	978.5	978.5	974.6	974.6	974.6	974.6
25°	974.6	974.6	978.5	982.4	982.4	986.3	982.4	978.5	974.6	974.6	974.6
27.5°	978.5	978.5	982.4	986.3	986.3	990.2	986.3	982.4	978.5	978.5	978.5
30°	978.5	978.5	982.4	986.3	986.3	990.2	986.3	982.4	978.5	978.5	978.5
32.5°	970.7	974.6	978.5	982.4	986.3	986.3	986.3	982.4	978.5	974.6	974.6
35°	966.8	970.7	974.6	978.5	982.4	982.4	982.4	978.5	974.6	970.7	970.7
37.5°	962.9	962.9	970.7	974.6	978.5	986.3	982.4	974.6	970.7	966.8	966.8
40°	959.0	962.9	966.8	974.6	978.5	986.3	982.4	974.6	966.8	962.9	962.9
42.5°	959.0	959.0	966.8	974.6	982.4	990.2	986.3	978.5	966.8	962.9	959.0
45°	962.9	966.8	978.5	994.1	1001.9	1009.7	1005.8	994.1	974.6	966.8	962.9
47.5°	978.5	982.4	994.1	1009.7	1029.2	1040.9	1029.2	1009.7	994.1	982.4	978.5
50°	986.3	990.2	1009.7	1029.2	1056.5	1060.4	1056.5	1029.2	1009.7	990.2	990.2
52.5°	1001.9	1001.9	1025.3	1060.4	1083.8	1091.6	1083.8	1064.3	1025.3	1005.8	1001.9
55°	1005.8	1005.8	1033.1	1076.0	1111.1	1130.6	1111.1	1079.9	1037.0	1009.7	1009.7
57.5°	982.4	990.2	1025.3	1068.2	1111.1	1122.8	1111.1	1072.1	1029.2	994.1	990.2
60°	955.1	966.8	998.0	1048.7	1079.9	1091.6	1083.8	1048.7	1001.9	966.8	962.9
62.5°	927.9	943.4	978.5	1017.5	1064.3	1076.0	1064.3	1017.5	978.5	943.4	927.9
65°	869.4	885.0	935.6	982.4	1025.3	1033.1	1029.2	982.4	935.6	885.0	877.2
67.5°	810.9	822.6	857.7	931.8	966.8	978.5	970.7	927.9	861.6	822.6	818.7
70°	748.5	760.2	791.4	861.6	896.7	916.2	900.6	861.6	791.4	760.2	756.3
72.5°	666.7	682.2	717.3	779.7	814.8	834.3	818.7	779.7	717.3	678.3	670.5
75°	569.2	580.9	623.8	674.4	709.5	725.1	713.4	678.3	623.8	580.9	577.0
77.5°	463.9	475.6	514.6	565.3	584.8	600.4	588.7	561.4	514.6	475.6	471.7
80°	350.9	362.6	397.7	436.6	456.1	471.7	460.0	432.7	397.7	362.6	358.7
82.5°	230.0	241.7	272.9	304.1	323.6	339.2	327.5	300.2	276.8	241.7	237.8
85°	97.5	109.2	136.4	167.6	183.2	198.8	187.1	163.7	136.4	113.1	109.2
87.5°	7.8	11.7	11.7	15.6	11.7	19.5	11.7	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)