

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: P823406

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

Issue Date: 4/16/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P823406  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-254-9)  
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-CQ  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE  
3000K, 80 CRI LEDS AND CONCENTRATED DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

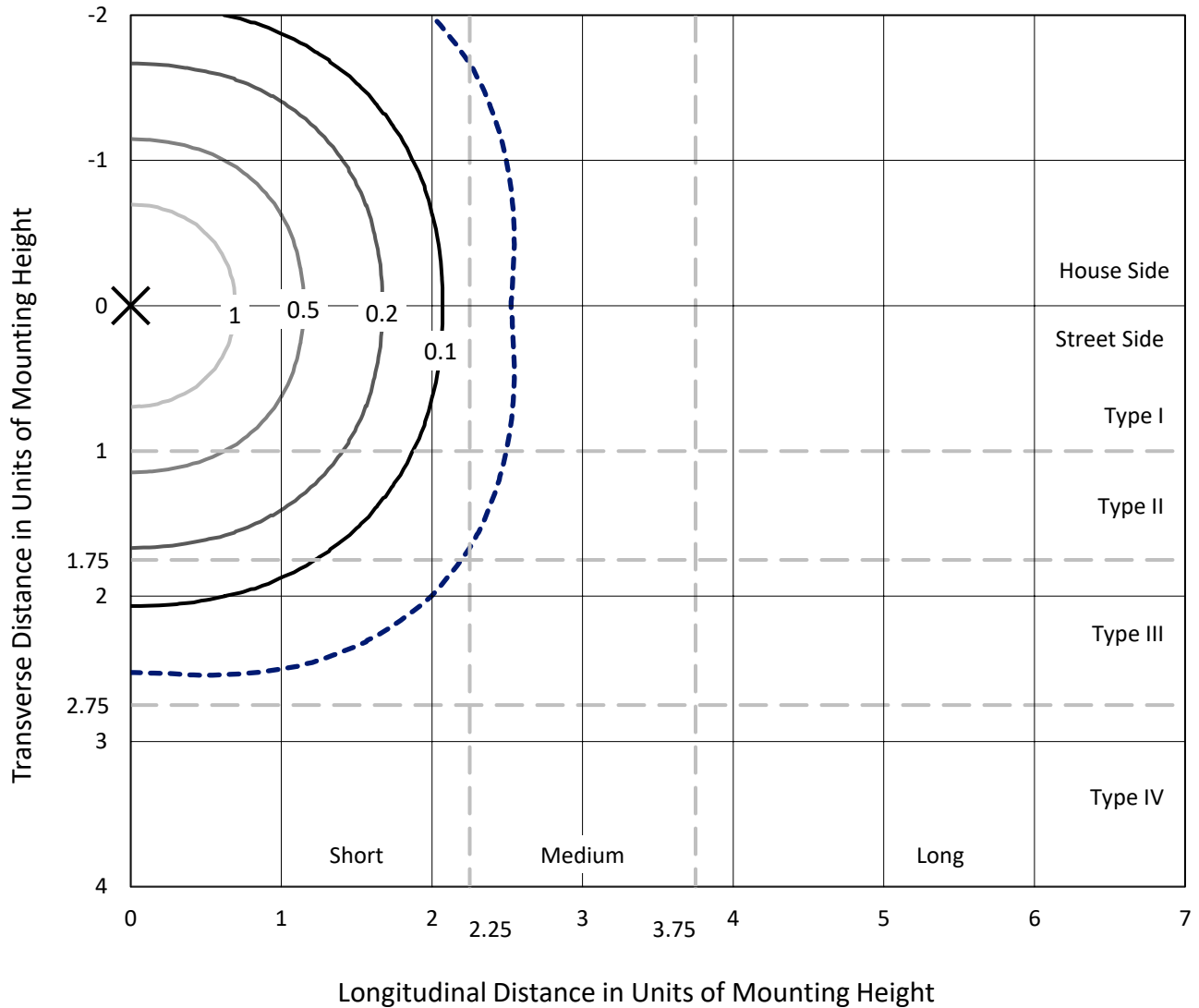
Lumens per Lamp: N/A  
Luminaire Lumens: 4764.1 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Luminous Opening: Circular (Dia: 0.71' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 42.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

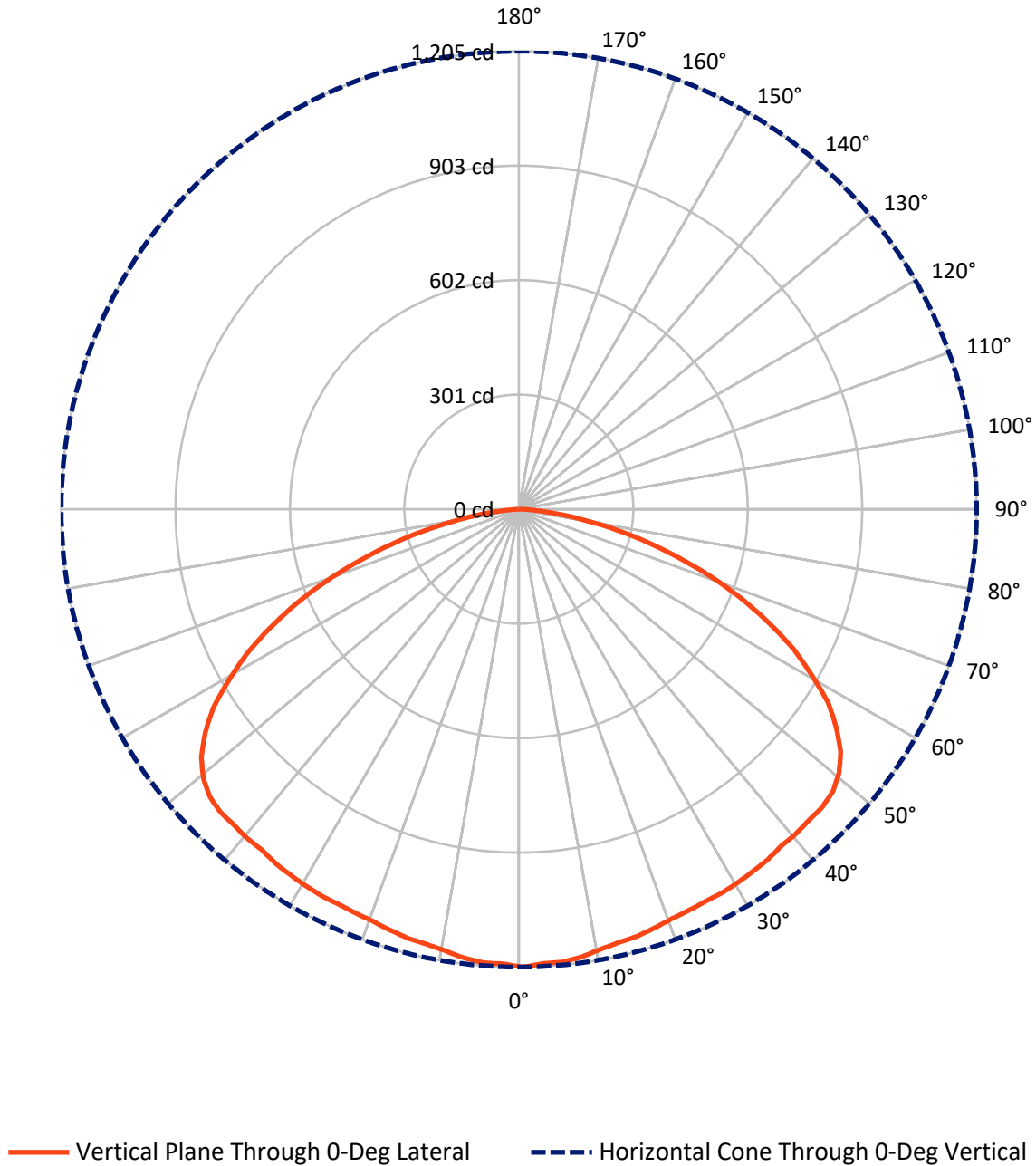
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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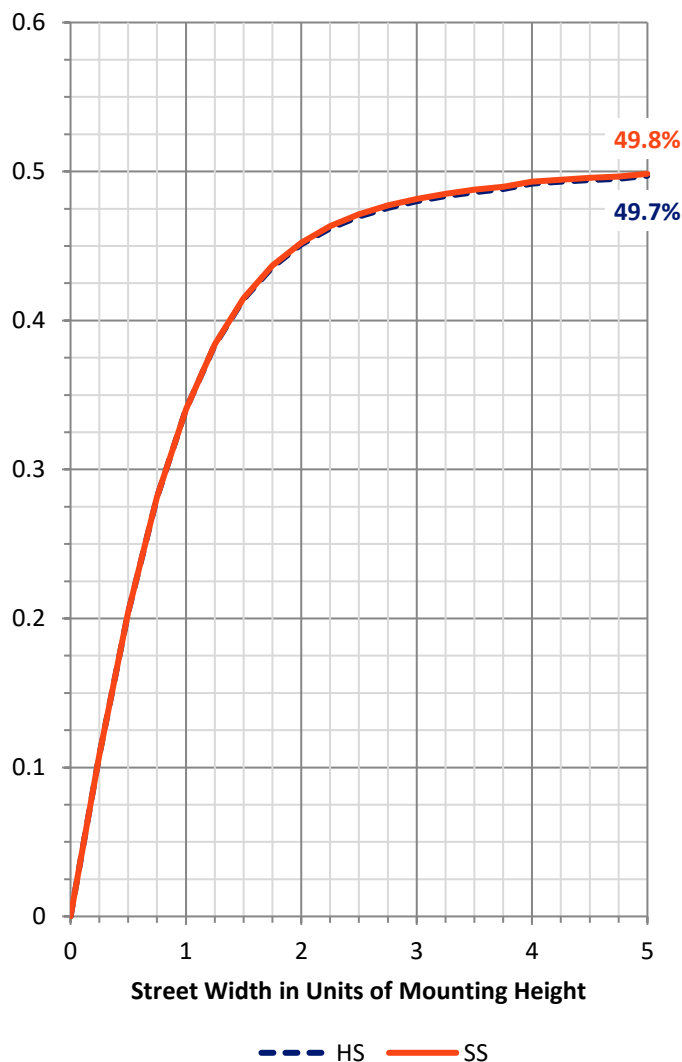
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2382.0	0.0	2382.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2382.0	0.0	2382.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4764.1	0.0	4764.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.6	2.4
10°-20°	329.8	6.9
20°-30°	531.1	11.1
30°-40°	714.3	15.0
40°-50°	881.4	18.5
50°-60°	945.6	19.8
60°-70°	766.8	16.1
70°-80°	406.4	8.5
80°-90°	75.2	1.6
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°	4764.1	100.0
0°-180°	4764.1	100.0

**Coefficient of Utilization**



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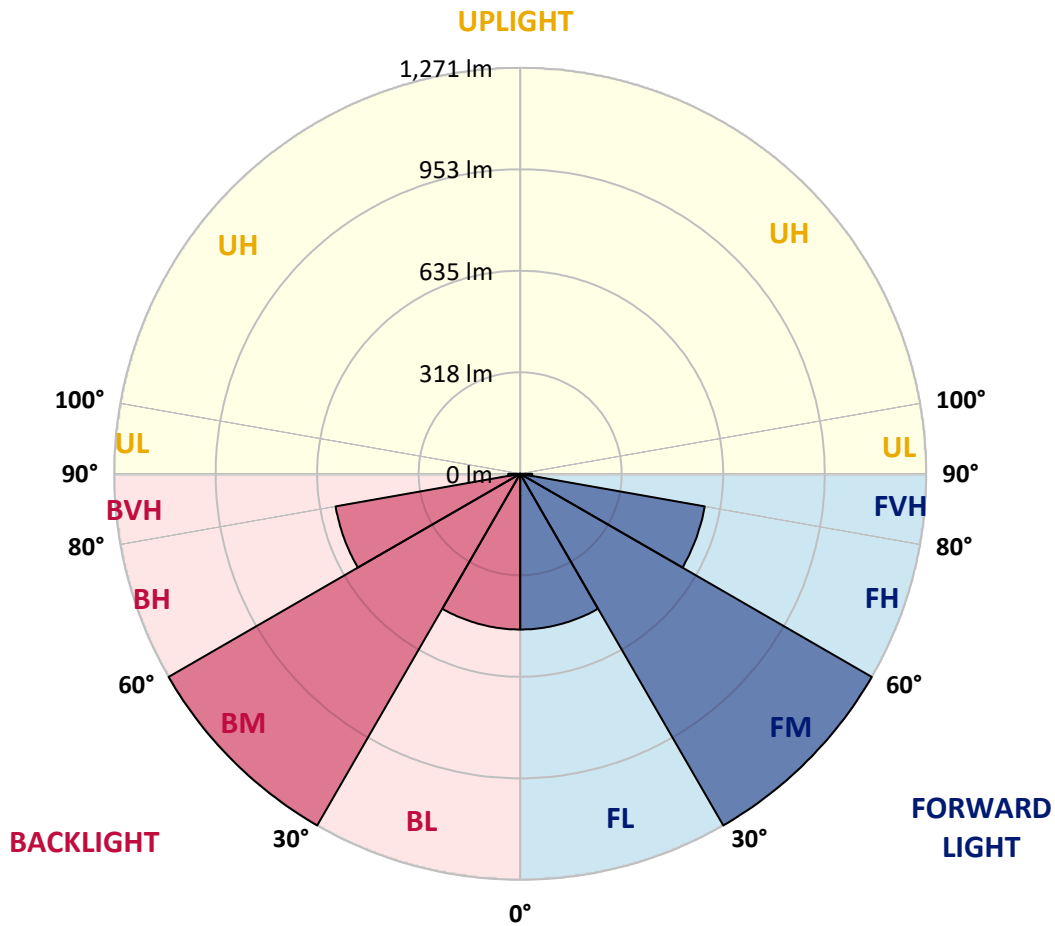
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	487.3	10.2			
FM (30°-60°)	1270.6	26.7			
FH (60°-80°)	586.6	12.3			G0/660
FVH (80°-90°)	37.6	0.8			G1/100
BL (0°-30°)	487.3	10.2	B1/500		
BM (30°-60°)	1270.6	26.7	B2/2500		
BH (60°-80°)	586.6	12.3	B2/1000		G0/660
BVH (80°-90°)	37.6	0.8			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°	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6
2.5°	1196.8	1196.8	1196.8	1196.8	1196.8	1196.8	1196.8	1196.8	1196.8	1196.8	1200.7
5°	1196.8	1196.8	1196.8	1196.8	1193.0	1196.8	1196.8	1196.8	1196.8	1196.8	1196.8
7.5°	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1
10°	1177.4	1177.4	1177.4	1177.4	1177.4	1177.4	1177.4	1177.4	1177.4	1177.4	1177.4
12.5°	1169.6	1169.6	1169.6	1169.6	1169.6	1169.6	1169.6	1169.6	1169.6	1169.6	1169.6
15°	1165.7	1165.7	1165.7	1165.7	1165.7	1165.7	1165.7	1165.7	1165.7	1161.8	1161.8
17.5°	1157.9	1157.9	1157.9	1157.9	1161.8	1161.8	1161.8	1157.9	1157.9	1157.9	1157.9
20°	1150.1	1150.1	1150.1	1154.0	1154.0	1154.0	1154.0	1154.0	1150.1	1150.1	1150.1
22.5°	1146.2	1146.2	1146.2	1146.2	1150.1	1150.1	1150.1	1150.1	1146.2	1146.2	1146.2
25°	1142.3	1142.3	1146.2	1146.2	1150.1	1150.1	1150.1	1146.2	1146.2	1142.3	1142.3
27.5°	1142.3	1142.3	1146.2	1146.2	1150.1	1150.1	1150.1	1150.1	1146.2	1142.3	1142.3
30°	1138.4	1142.3	1142.3	1146.2	1150.1	1150.1	1150.1	1146.2	1142.3	1138.4	1138.4
32.5°	1134.5	1134.5	1138.4	1142.3	1146.2	1146.2	1146.2	1142.3	1138.4	1134.5	1130.6
35°	1130.6	1130.6	1130.6	1138.4	1142.3	1142.3	1142.3	1138.4	1130.6	1126.7	1126.7
37.5°	1122.8	1126.7	1130.6	1134.5	1142.3	1142.3	1142.3	1134.5	1126.7	1122.8	1118.9
40°	1122.8	1122.8	1130.6	1134.5	1146.2	1146.2	1142.3	1134.5	1126.7	1118.9	1115.0
42.5°	1118.9	1122.8	1130.6	1142.3	1154.0	1154.0	1150.1	1138.4	1126.7	1118.9	1115.0
45°	1118.9	1118.9	1130.6	1146.2	1161.8	1165.7	1157.9	1146.2	1130.6	1115.0	1115.0
47.5°	1111.1	1111.1	1126.7	1146.2	1165.7	1169.6	1165.7	1146.2	1126.7	1115.0	1111.1
50°	1091.6	1091.6	1111.1	1134.5	1157.9	1165.7	1157.9	1142.3	1115.0	1099.4	1095.5
52.5°	1060.4	1060.4	1079.9	1111.1	1134.5	1146.2	1138.4	1118.9	1091.6	1068.2	1064.3
55°	1013.6	1017.5	1037.0	1072.1	1099.4	1111.1	1103.3	1079.9	1048.7	1025.3	1017.5
57.5°	959.0	959.0	986.3	1021.4	1048.7	1060.4	1052.6	1029.2	994.1	970.7	962.9
60°	885.0	888.9	912.3	959.0	986.3	998.0	990.2	962.9	924.0	896.7	888.9
62.5°	810.9	814.8	838.2	877.2	908.4	916.2	908.4	881.1	846.0	818.7	810.9
65°	725.1	729.0	756.3	791.4	814.8	826.5	814.8	791.4	760.2	732.9	729.0
67.5°	635.5	639.4	666.6	697.8	721.2	729.0	717.3	697.8	666.6	643.3	635.5
70°	541.9	545.8	569.2	596.5	616.0	623.8	616.0	592.6	569.2	545.8	541.9
72.5°	444.4	448.3	471.7	495.1	510.7	518.5	506.8	491.2	467.8	448.3	444.4
75°	350.9	350.9	370.4	389.9	405.4	409.3	401.5	389.9	370.4	354.8	347.0
77.5°	261.2	261.2	280.7	292.4	300.2	308.0	300.2	288.5	276.8	261.2	261.2
80°	175.4	175.4	191.0	198.8	206.6	210.5	206.6	198.8	191.0	179.3	175.4
82.5°	105.3	105.3	113.1	120.9	120.9	124.8	124.8	120.9	113.1	105.3	105.3
85°	46.8	42.9	50.7	54.6	54.6	58.5	58.5	54.6	50.7	46.8	46.8
87.5°	3.9	7.8	7.8	11.7	11.7	11.7	11.7	11.7	7.8	7.8	7.8
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)