

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: P832587

Luminaire Tested: **TTN-D1-830-U-MQ-CG**

Issue Date: 5/14/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P832587  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-254-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/14/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TTN-D1-830-U-MQ-CG  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE  
3000K, 80 CRI LEDS AND MEDIUM DISTRIBUTION WITH CLEAR GLASS  
Light Source: -  
Ballast/Driver: -

**Summary**

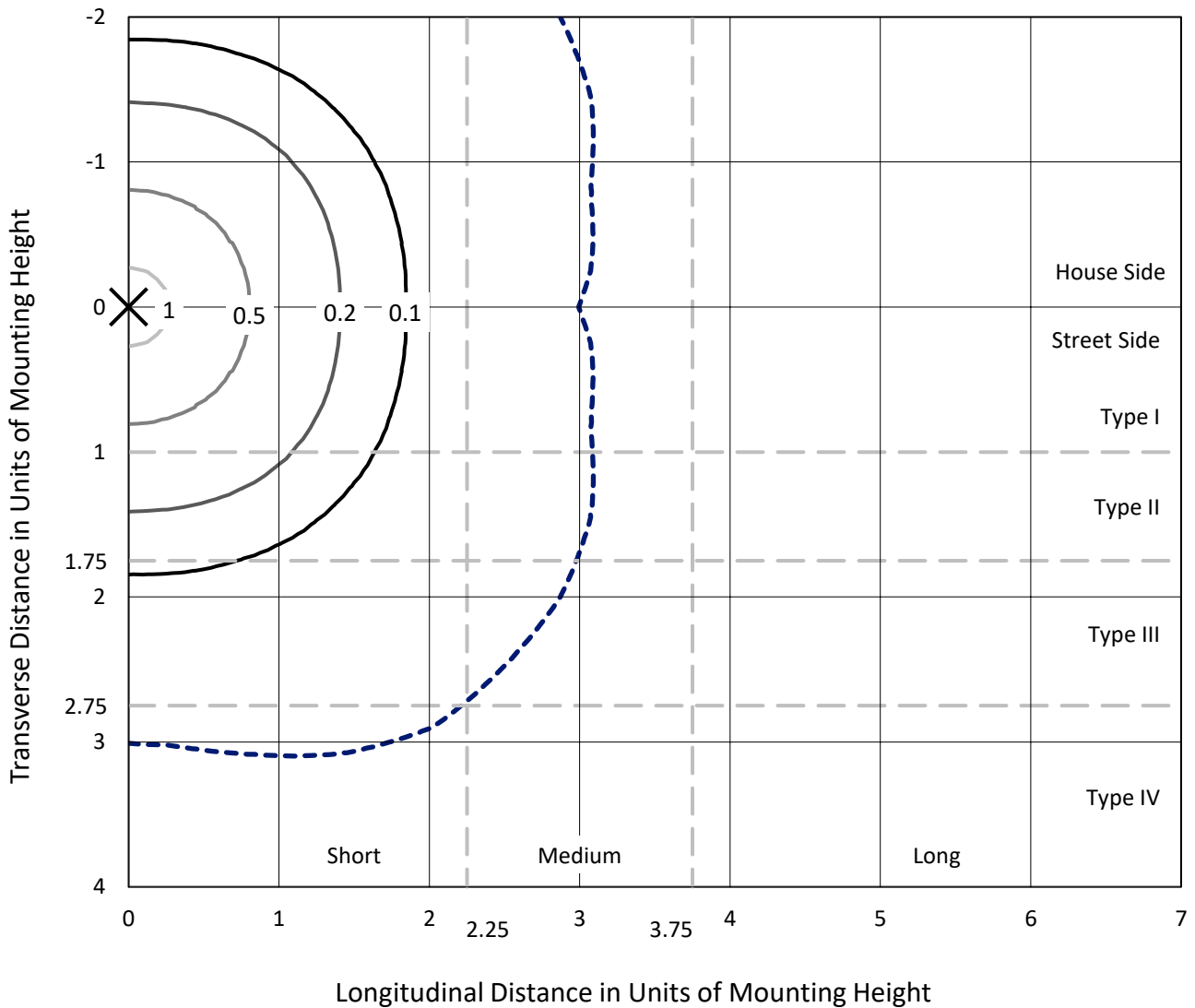
Lumens per Lamp: N/A  
Luminaire Lumens: 3054 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Luminous Opening: Circular (Dia: 0.71' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 26.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

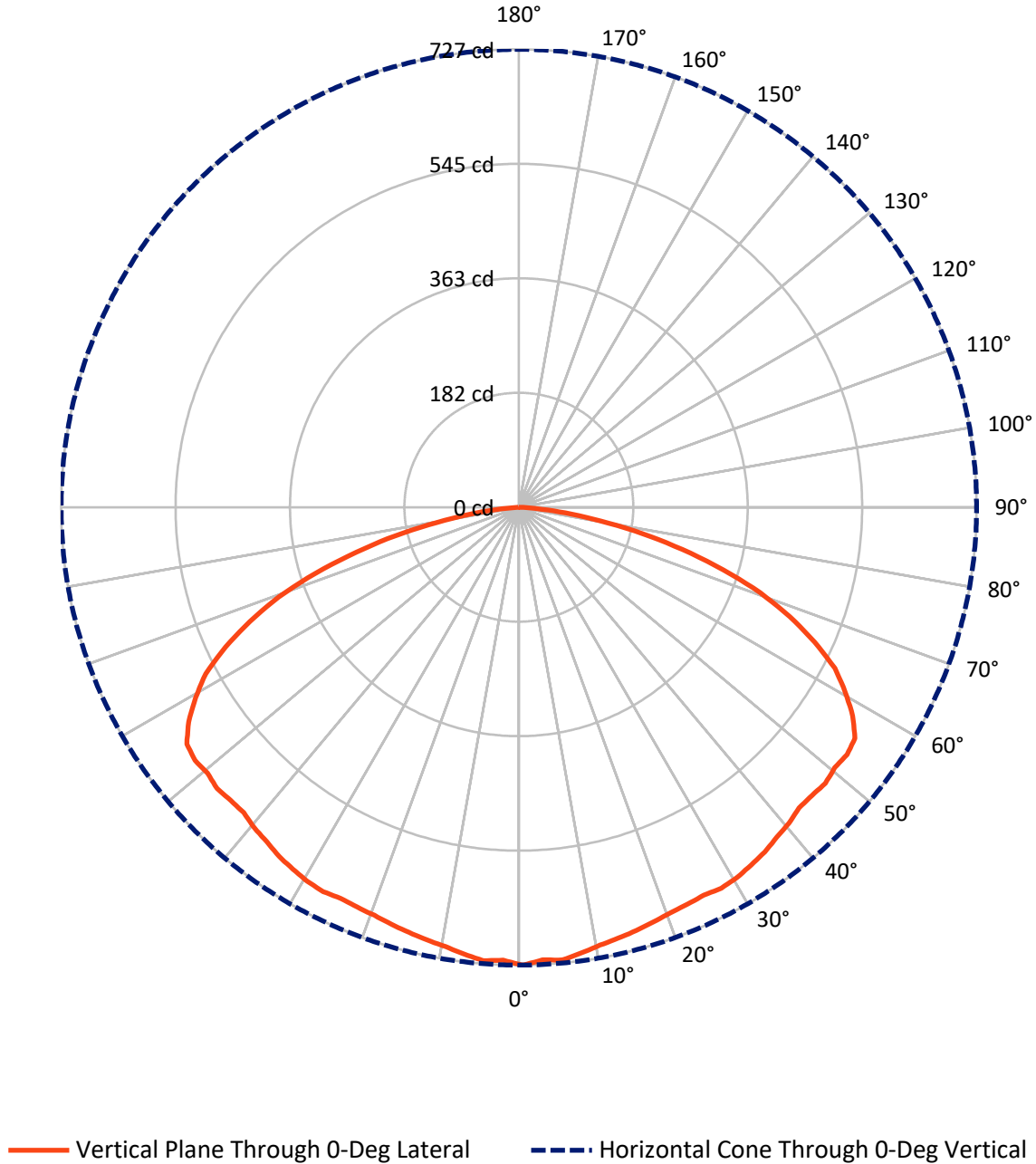
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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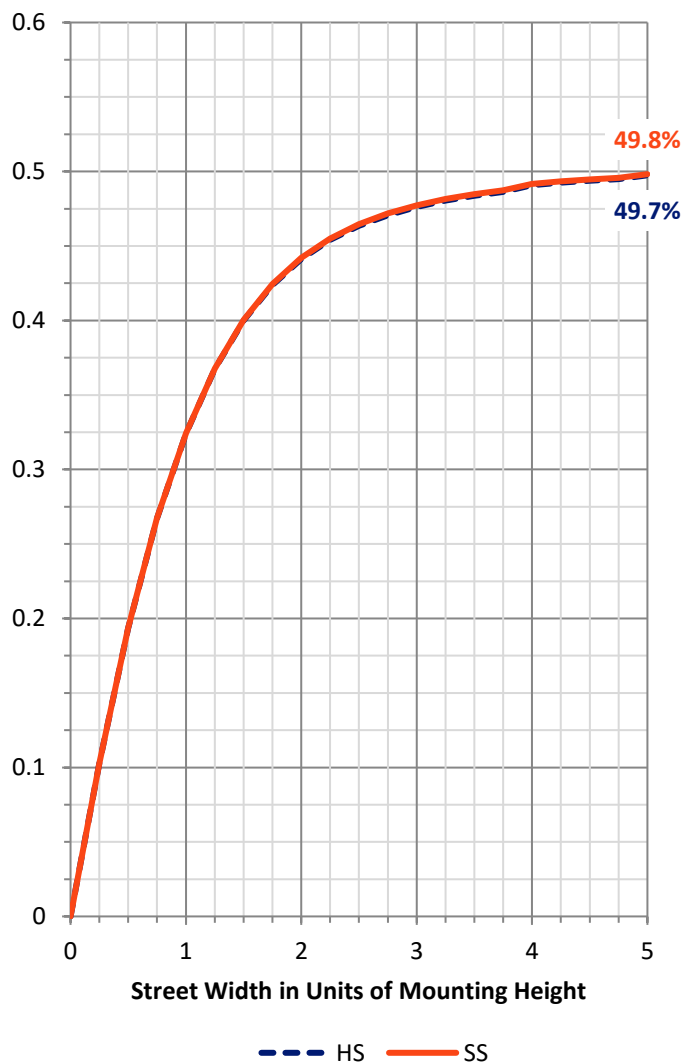
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1527.0	0.0	1527.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1527.0	0.0	1527.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3054.0	0.0	3054.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.2	2.2
10°-20°	197.4	6.5
20°-30°	317.5	10.4
30°-40°	424.2	13.9
40°-50°	515.4	16.9
50°-60°	598.8	19.6
60°-70°	552.5	18.1
70°-80°	323.4	10.6
80°-90°	56.7	1.9
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°	3054.0	100.0
0°-180°	3054.0	100.0

**Coefficient of Utilization**



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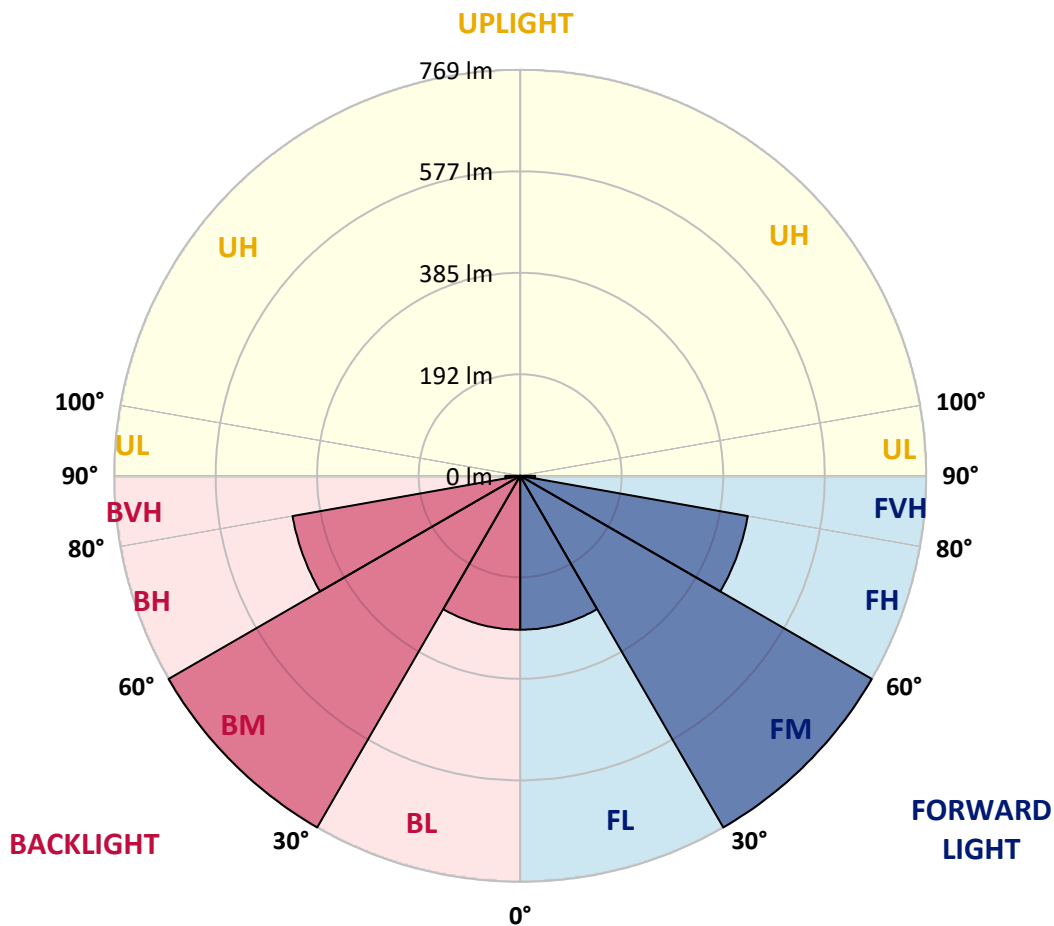
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	291.6	9.5			
FM (30°-60°)	769.2	25.2			
FH (60°-80°)	437.9	14.3			G0/660
FVH (80°-90°)	28.3	0.9			G1/100
BL (0°-30°)	291.6	9.5	B1/500		
BM (30°-60°)	769.2	25.2	B1/1000		
BH (60°-80°)	437.9	14.3	B1/500		G0/660
BVH (80°-90°)	28.3	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	726.5	726.5	726.5	726.5	726.5	726.5	726.5	726.5	726.5	726.5	726.5
2.5°	719.1	721.6	719.1	719.1	719.1	719.1	719.1	719.1	719.1	719.1	721.6
5°	721.6	721.6	721.6	721.6	719.1	719.1	719.1	719.1	719.1	721.6	721.6
7.5°	714.1	714.1	714.1	714.1	714.1	711.7	714.1	714.1	714.1	714.1	714.1
10°	706.7	706.7	706.7	706.7	706.7	706.7	706.7	706.7	706.7	706.7	706.7
12.5°	701.7	701.7	701.7	701.7	701.7	701.7	701.7	701.7	701.7	699.3	699.3
15°	696.8	696.8	696.8	696.8	699.3	699.3	696.8	696.8	696.8	696.8	696.8
17.5°	691.8	691.8	691.8	691.8	694.3	694.3	694.3	691.8	691.8	691.8	691.8
20°	686.9	686.9	686.9	686.9	689.3	689.3	689.3	689.3	689.3	686.9	686.9
22.5°	684.4	684.4	684.4	684.4	686.9	686.9	686.9	686.9	684.4	684.4	684.4
25°	681.9	684.4	684.4	684.4	686.9	689.3	689.3	686.9	684.4	681.9	681.9
27.5°	684.4	684.4	684.4	686.9	686.9	689.3	689.3	686.9	684.4	684.4	684.4
30°	681.9	681.9	681.9	684.4	686.9	689.3	686.9	686.9	684.4	681.9	681.9
32.5°	676.9	676.9	679.4	681.9	684.4	684.4	684.4	681.9	679.4	676.9	676.9
35°	672.0	672.0	672.0	674.5	679.4	679.4	679.4	676.9	674.5	672.0	669.5
37.5°	664.5	667.0	667.0	672.0	674.5	676.9	674.5	672.0	667.0	664.5	664.5
40°	659.6	659.6	662.1	667.0	672.0	672.0	669.5	667.0	662.1	659.6	659.6
42.5°	652.2	652.2	657.1	662.1	669.5	669.5	667.0	662.1	657.1	652.2	652.2
45°	652.2	652.2	657.1	667.0	672.0	676.9	672.0	667.0	657.1	652.2	649.7
47.5°	654.6	654.6	659.6	672.0	681.9	686.9	679.4	669.5	659.6	654.6	652.2
50°	649.7	652.2	662.1	674.5	686.9	689.3	686.9	672.0	662.1	649.7	649.7
52.5°	652.2	652.2	664.5	684.4	696.8	701.7	696.8	684.4	662.1	649.7	649.7
55°	647.2	644.7	662.1	684.4	704.2	714.1	704.2	684.4	659.6	644.7	642.2
57.5°	624.9	624.9	647.2	669.5	694.3	699.3	691.8	669.5	644.7	624.9	619.9
60°	595.1	597.6	619.9	644.7	667.0	669.5	664.5	644.7	619.9	597.6	590.2
62.5°	562.9	567.8	590.2	615.0	642.2	647.2	639.8	615.0	585.2	570.3	557.9
65°	515.8	523.2	548.0	575.3	605.0	602.6	602.6	572.8	550.5	525.7	513.3
67.5°	463.7	471.1	488.5	525.7	550.5	548.0	545.5	525.7	488.5	471.1	463.7
70°	406.7	411.6	429.0	466.2	488.5	491.0	483.5	463.7	429.0	416.6	404.2
72.5°	339.7	342.2	367.0	396.7	419.1	416.6	414.1	396.7	364.5	352.1	337.2
75°	267.8	270.3	292.6	319.9	337.2	334.8	332.3	319.9	292.6	277.7	265.3
77.5°	200.9	198.4	220.7	240.5	250.4	252.9	248.0	238.0	218.2	205.8	198.4
80°	131.4	128.9	148.8	163.7	171.1	171.1	168.6	161.2	146.3	136.4	131.4
82.5°	74.4	71.9	84.3	94.2	101.7	99.2	96.7	91.7	84.3	76.9	71.9
85°	27.3	27.3	34.7	39.7	44.6	44.6	42.2	39.7	32.2	29.8	27.3
87.5°	2.5	2.5	5.0	7.4	7.4	7.4	5.0	5.0	2.5	2.5	2.5
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)