

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: P832588

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

Issue Date: 5/14/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P832588  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-254-14)  
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-RW-CG  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE  
3000K, 80 CRI LEDS AND RECTANGULAR DISTRIBUTION WITH CLEAR GLASS  
Light Source: -  
Ballast/Driver: -

**Summary**

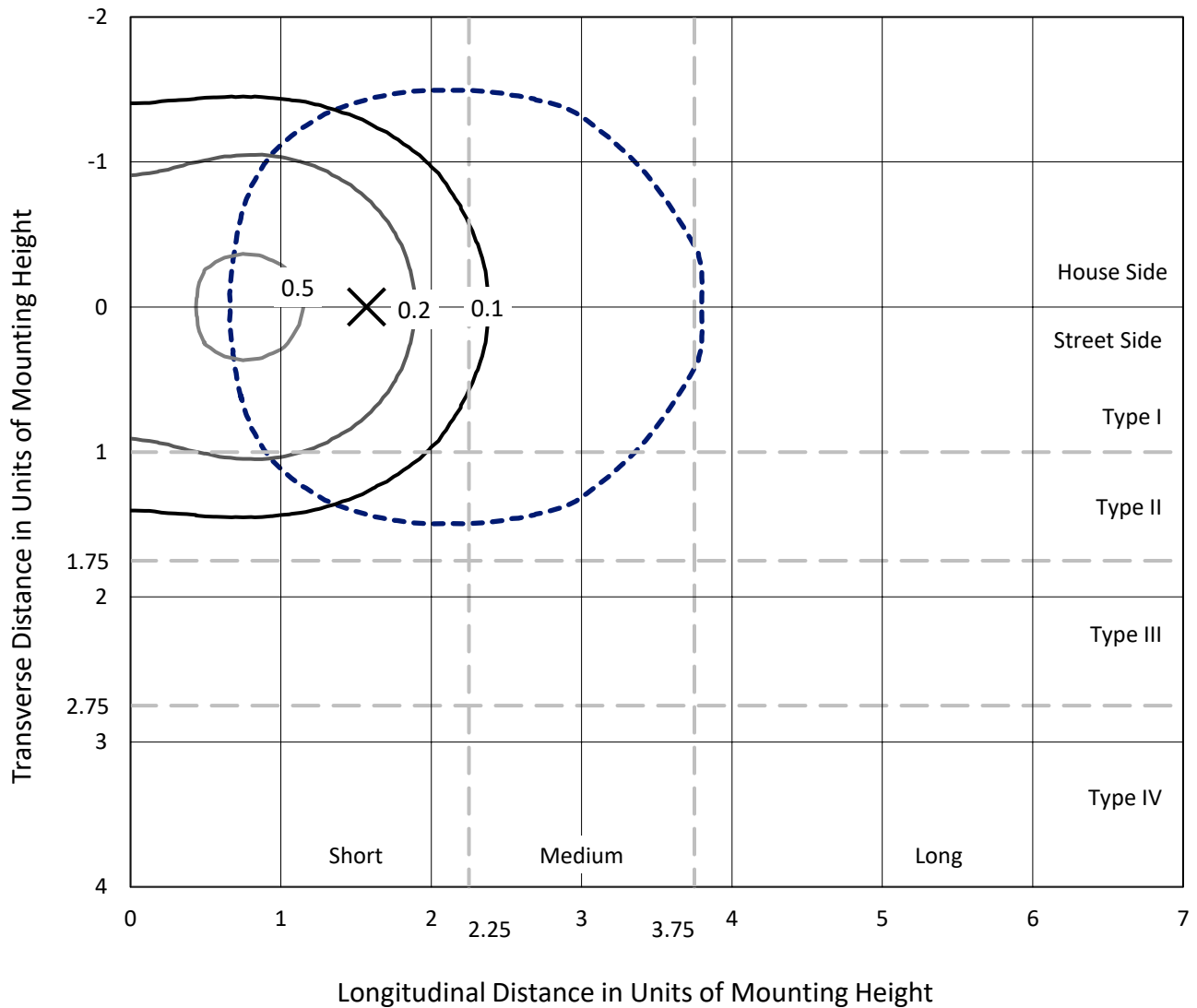
Lumens per Lamp: N/A  
Luminaire Lumens: 2754 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Circular (Dia: 0.71' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 26.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

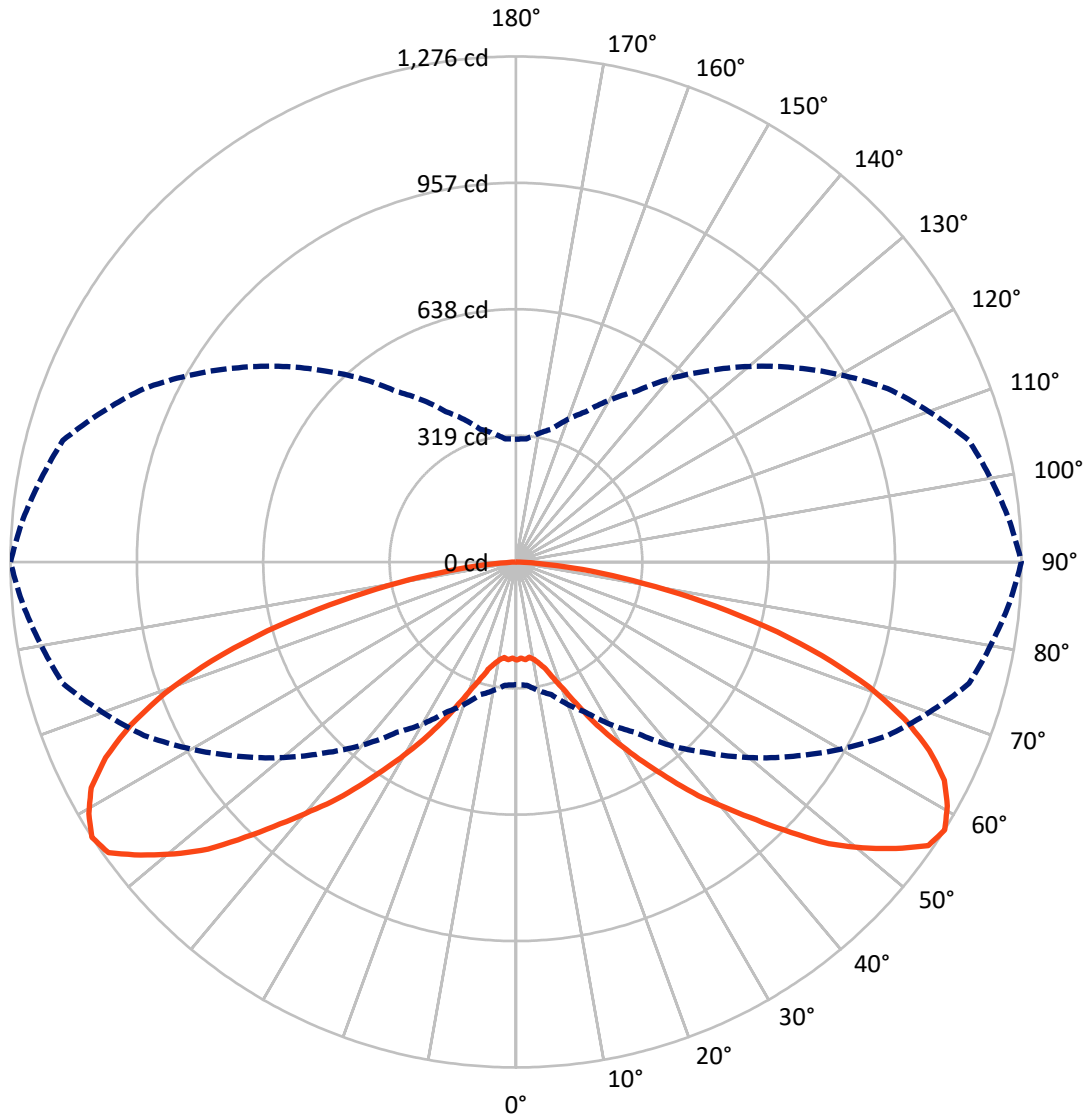
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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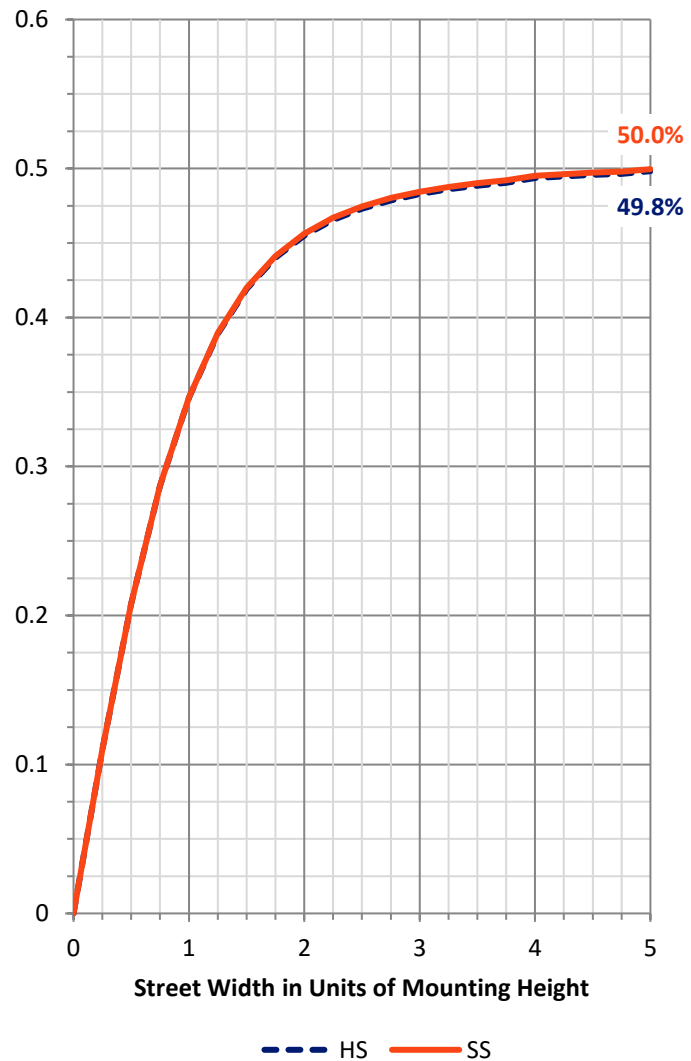
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1377.0	0.0	1377.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1377.0	0.0	1377.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	2754.0	0.0	2754.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.6	0.9
10°-20°	76.1	2.8
20°-30°	162.0	5.9
30°-40°	298.5	10.8
40°-50°	480.6	17.5
50°-60°	650.5	23.6
60°-70°	632.5	23.0
70°-80°	368.0	13.4
80°-90°	62.2	2.3
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°	2754.0	100.0
0°-180°	2754.0	100.0



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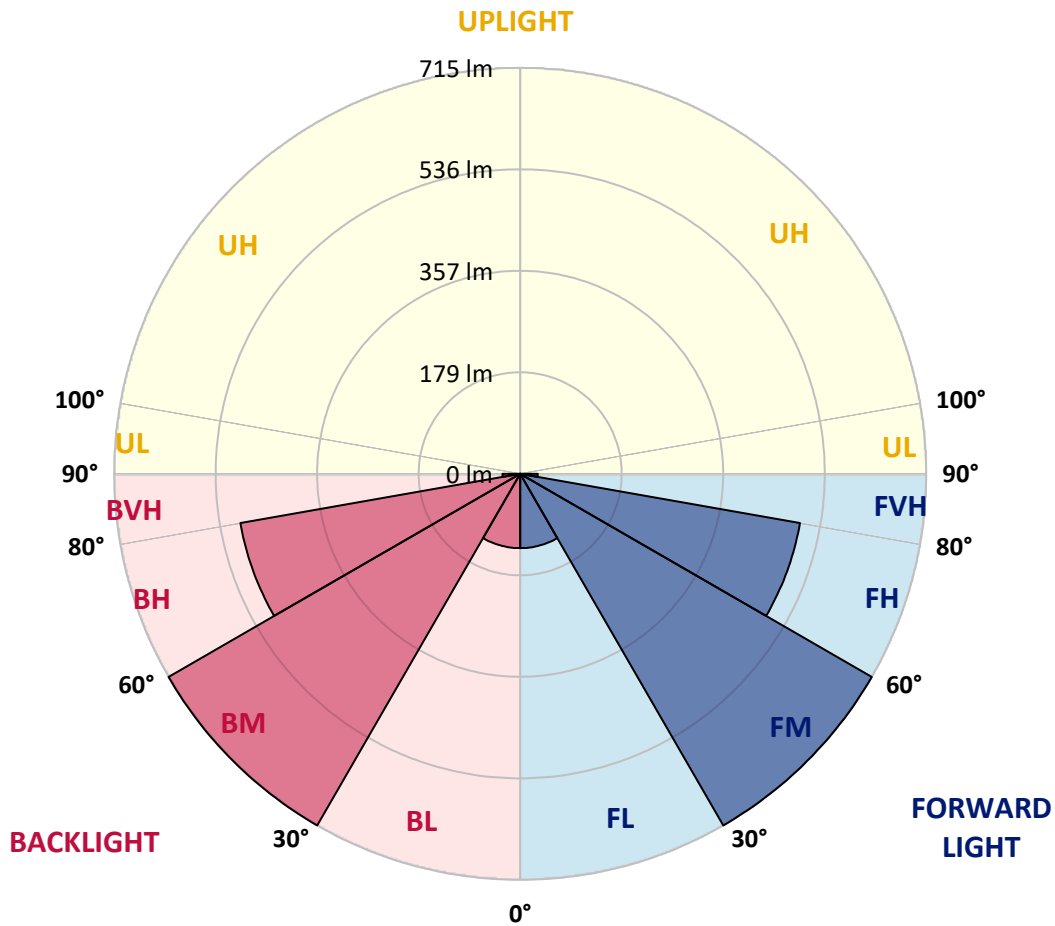
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	130.8	4.8			
FM (30°-60°)	714.8	26.0			
FH (60°-80°)	500.2	18.2			G0/660
FVH (80°-90°)	31.1	1.1			G1/100
BL (0°-30°)	130.8	4.8	B1/500		
BM (30°-60°)	714.8	26.0	B1/1000		
BH (60°-80°)	500.2	18.2	B2/1000		G2/1000
BVH (80°-90°)	31.1	1.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	247.8	247.8	247.8	247.8	247.8	247.8	247.8	247.8	247.8	247.8	247.8
2.5°	247.8	247.8	247.8	247.8	245.3	245.3	245.3	242.8	242.8	242.8	242.8
5°	247.8	247.8	247.8	250.3	250.3	250.3	247.8	247.8	247.8	247.8	247.8
7.5°	247.8	250.3	250.3	247.8	247.8	245.3	245.3	245.3	242.8	242.8	242.8
10°	247.8	247.8	247.8	247.8	245.3	245.3	247.8	247.8	250.3	250.3	250.3
12.5°	245.3	245.3	247.8	247.8	247.8	250.3	255.2	257.7	260.2	262.7	262.7
15°	247.8	247.8	250.3	252.7	255.2	260.2	267.6	275.0	280.0	282.5	280.0
17.5°	247.8	250.3	252.7	257.7	265.1	272.6	285.0	294.9	304.8	307.3	309.7
20°	252.7	252.7	255.2	265.1	277.5	289.9	307.3	324.6	337.0	341.9	341.9
22.5°	255.2	257.7	260.2	272.6	292.4	312.2	337.0	356.8	374.2	384.1	386.6
25°	262.7	262.7	267.6	285.0	309.7	339.5	371.7	401.4	423.7	436.1	438.6
27.5°	267.6	270.1	277.5	299.8	332.0	369.2	413.8	448.5	475.8	490.6	493.1
30°	272.6	275.0	289.9	314.7	354.3	398.9	451.0	495.6	530.3	547.6	550.1
32.5°	280.0	282.5	299.8	327.1	374.2	428.7	488.1	542.7	592.2	607.1	609.6
35°	287.4	289.9	309.7	341.9	396.5	458.4	527.8	592.2	651.7	671.5	676.5
37.5°	294.9	297.3	317.2	356.8	418.8	490.6	572.4	649.2	713.6	740.9	748.3
40°	302.3	304.8	327.1	371.7	441.1	525.3	619.5	703.7	778.1	810.3	815.2
42.5°	307.3	309.7	334.5	384.1	463.4	557.5	669.0	763.2	842.5	884.6	889.6
45°	314.7	317.2	344.4	401.4	483.2	594.7	716.1	830.1	921.8	968.9	973.8
47.5°	319.6	322.1	351.9	411.3	505.5	629.4	765.7	889.6	998.6	1048.1	1063.0
50°	322.1	324.6	356.8	421.2	520.4	654.2	805.3	949.0	1065.5	1127.4	1134.9
52.5°	322.1	327.1	359.3	428.7	530.3	676.5	837.5	998.6	1129.9	1199.3	1201.8
55°	319.6	322.1	356.8	426.2	535.2	686.4	859.8	1028.3	1174.5	1241.4	1263.7
57.5°	309.7	312.2	346.9	418.8	525.3	681.4	854.9	1035.8	1184.4	1248.9	1276.1
60°	294.9	299.8	332.0	401.4	510.4	664.1	840.0	1020.9	1169.6	1248.9	1251.3
62.5°	277.5	280.0	312.2	379.1	488.1	636.8	812.7	991.2	1134.9	1216.6	1214.2
65°	252.7	255.2	282.5	351.9	448.5	584.8	758.2	944.1	1068.0	1154.7	1147.3
67.5°	225.5	228.0	252.7	314.7	401.4	527.8	683.9	864.8	973.8	1063.0	1058.1
70°	195.8	195.8	218.1	270.1	351.9	463.4	602.1	760.7	869.7	944.1	946.6
72.5°	161.1	161.1	180.9	225.5	294.9	389.0	508.0	649.2	738.4	802.8	807.8
75°	126.4	123.9	141.2	178.4	232.9	309.7	401.4	522.8	592.2	654.2	651.7
77.5°	89.2	89.2	99.1	128.9	168.5	230.4	297.3	394.0	441.1	493.1	483.2
80°	57.0	57.0	61.9	84.2	111.5	153.6	195.8	267.6	299.8	339.5	327.1
82.5°	29.7	27.3	32.2	44.6	59.5	84.2	109.0	156.1	171.0	200.7	190.8
85°	9.9	9.9	9.9	14.9	22.3	32.2	42.1	66.9	69.4	89.2	81.8
87.5°	2.5	0.0	0.0	2.5	2.5	2.5	2.5	7.4	7.4	14.9	9.9
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)