

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: P832650

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

Issue Date: 5/14/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P832650  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-254-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/14/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TTN-D2-830-U-WQ-SG  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE  
3000K, 80 CRI LEDS AND WIDE DISTRIBUTION WITH SOLITE GLASS  
Light Source: -  
Ballast/Driver: -

**Summary**

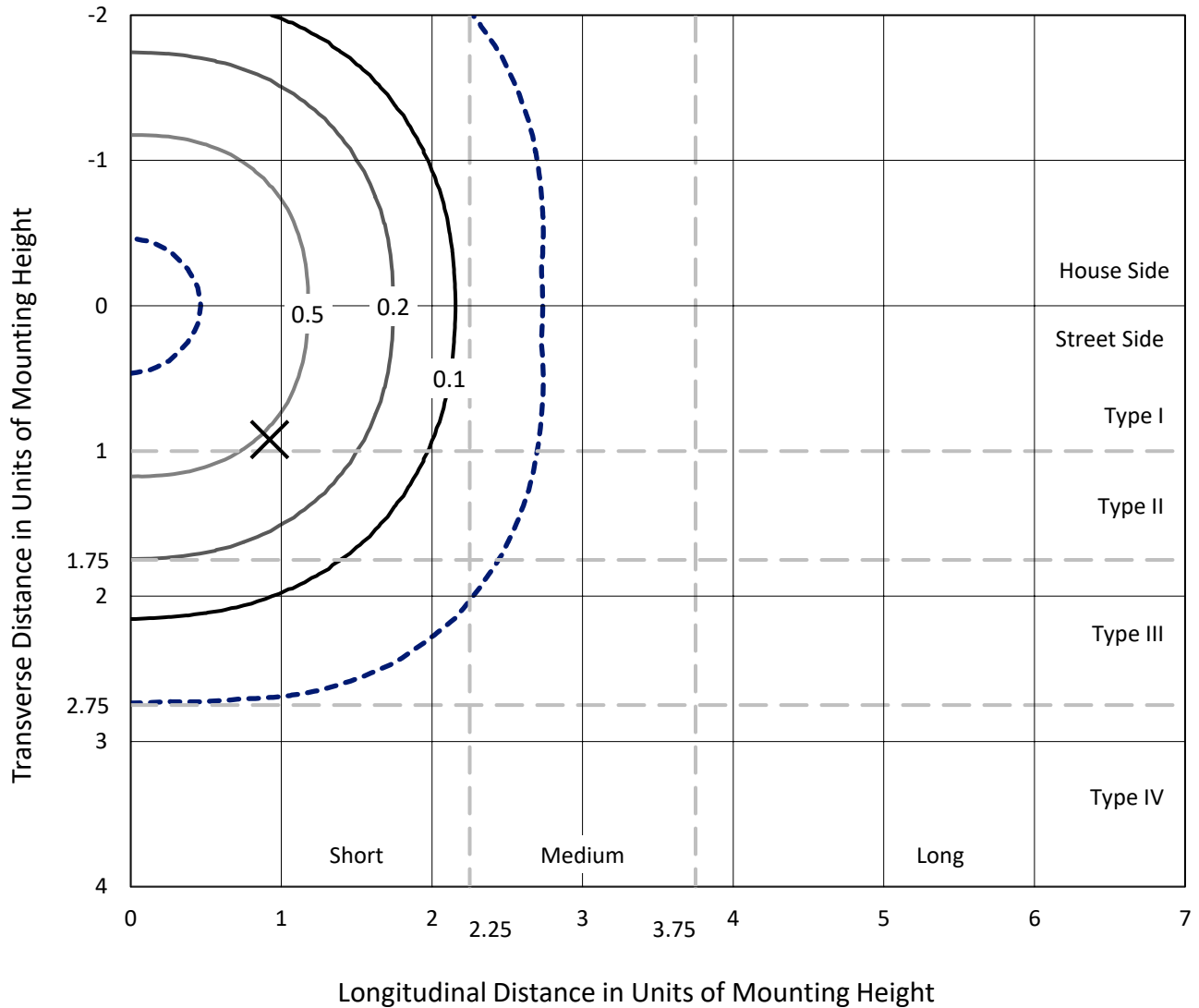
Lumens per Lamp: N/A  
Luminaire Lumens: 4409 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Circular (Dia: 0.71' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 42.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

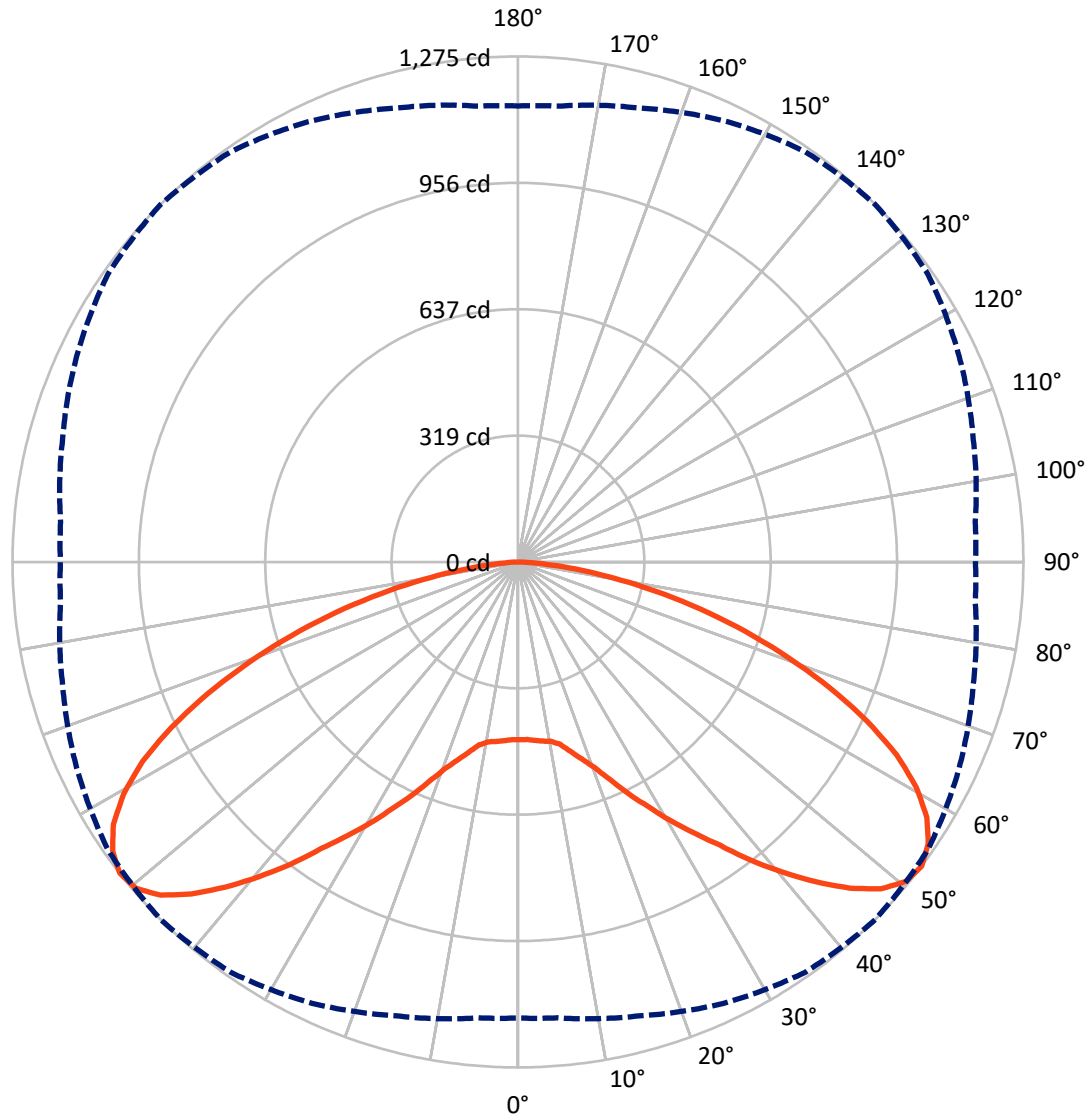
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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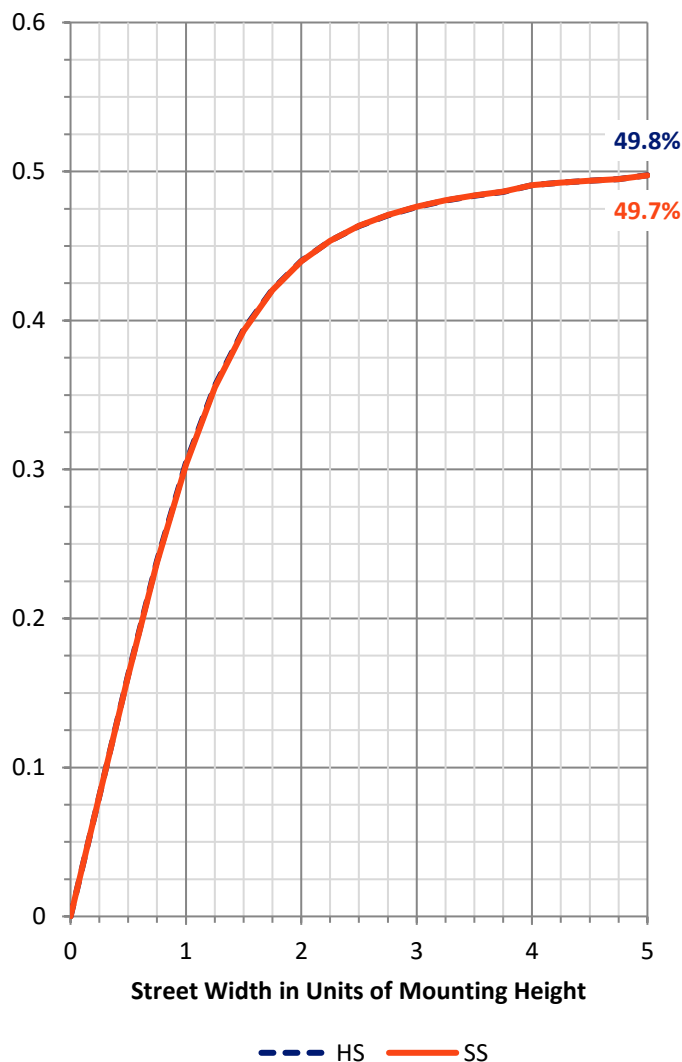
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2204.5	0.0	2204.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2204.5	0.0	2204.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4409.0	0.0	4409.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.3	1.0
10°-20°	142.3	3.2
20°-30°	300.3	6.8
30°-40°	548.5	12.4
40°-50°	873.2	19.8
50°-60°	1055.9	23.9
60°-70°	887.8	20.1
70°-80°	470.6	10.7
80°-90°	87.1	2.0
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°	4409.0	100.0
0°-180°	4409.0	100.0

**Coefficient of Utilization**



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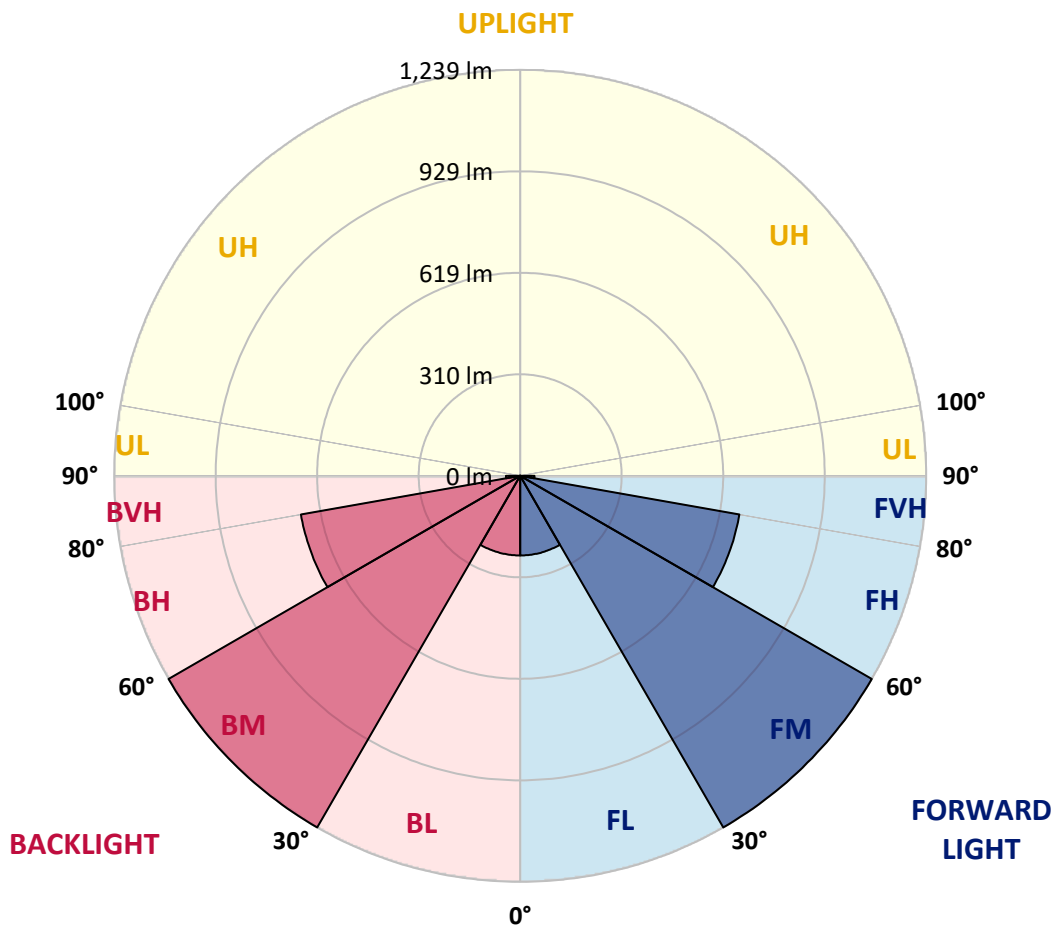
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	242.9	5.5			
FM (30°-60°)	1238.8	28.1			
FH (60°-80°)	679.2	15.4			G1/1800
FVH (80°-90°)	43.5	1.0			G1/100
BL (0°-30°)	242.9	5.5	B1/500		
BM (30°-60°)	1238.8	28.1	B2/2500		
BH (60°-80°)	679.2	15.4	B2/1000		G1/1800
BVH (80°-90°)	43.5	1.0			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°	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3
2.5°	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3
5°	452.1	452.1	448.3	452.1	452.1	452.1	452.1	452.1	452.1	452.1	452.1
7.5°	452.1	452.1	452.1	456.0	456.0	456.0	456.0	452.1	452.1	452.1	452.1
10°	459.9	459.9	459.9	459.9	459.9	459.9	459.9	459.9	459.9	459.9	459.9
12.5°	471.6	471.6	471.6	471.6	471.6	471.6	471.6	471.6	471.6	471.6	471.6
15°	491.1	491.1	491.1	491.1	495.0	495.0	495.0	491.1	491.1	491.1	491.1
17.5°	514.5	514.5	518.4	518.4	522.3	522.3	522.3	518.4	514.5	518.4	514.5
20°	549.6	549.6	549.6	553.5	557.4	557.4	557.4	549.6	549.6	549.6	549.6
22.5°	588.6	588.6	588.6	592.5	596.4	596.4	596.4	588.6	588.6	588.6	588.6
25°	635.3	635.3	635.3	639.2	643.1	647.0	647.0	639.2	635.3	635.3	631.4
27.5°	682.1	682.1	689.9	693.8	697.7	697.7	697.7	689.9	686.0	686.0	686.0
30°	736.7	736.7	744.5	748.4	756.2	756.2	756.2	744.5	740.6	736.7	736.7
32.5°	787.4	791.3	799.1	806.9	814.6	814.6	818.5	803.0	795.2	791.3	791.3
35°	841.9	845.8	853.6	865.3	873.1	877.0	880.9	865.3	853.6	849.7	849.7
37.5°	904.3	908.2	919.9	931.6	947.2	955.0	958.9	935.5	916.0	908.2	908.2
40°	974.5	978.4	990.1	1005.6	1021.2	1029.0	1032.9	1009.5	990.1	982.3	978.4
42.5°	1032.9	1040.7	1052.4	1075.8	1091.4	1103.1	1103.1	1075.8	1052.4	1040.7	1040.7
45°	1087.5	1095.3	1114.8	1138.2	1161.6	1173.2	1169.4	1142.1	1114.8	1099.2	1095.3
47.5°	1130.4	1138.2	1161.6	1188.8	1220.0	1231.7	1227.8	1196.6	1161.6	1142.1	1138.2
50°	1153.8	1157.7	1184.9	1223.9	1255.1	1266.8	1259.0	1227.8	1188.8	1161.6	1157.7
52.5°	1149.9	1153.8	1184.9	1227.8	1262.9	1274.6	1262.9	1227.8	1188.8	1157.7	1153.8
55°	1126.5	1130.4	1161.6	1208.3	1243.4	1255.1	1243.4	1208.3	1165.5	1134.3	1130.4
57.5°	1083.6	1087.5	1118.7	1165.5	1204.4	1216.1	1200.5	1161.6	1118.7	1087.5	1087.5
60°	1021.2	1025.1	1056.3	1107.0	1142.1	1153.8	1134.3	1103.1	1060.2	1025.1	1021.2
62.5°	939.4	939.4	974.5	1025.1	1056.3	1071.9	1052.4	1017.3	978.4	939.4	943.3
65°	841.9	838.0	873.1	919.9	955.0	966.7	947.2	916.0	877.0	841.9	841.9
67.5°	740.6	740.6	767.9	806.9	838.0	849.7	830.2	803.0	771.8	740.6	740.6
70°	631.4	631.4	650.9	689.9	717.2	725.0	713.3	686.0	658.7	631.4	631.4
72.5°	522.3	518.4	537.9	569.1	592.5	600.3	588.6	573.0	541.8	522.3	522.3
75°	413.2	409.3	421.0	448.3	467.7	475.5	463.8	452.1	428.8	413.2	413.2
77.5°	307.9	304.0	315.7	339.1	350.8	354.7	346.9	339.1	319.6	307.9	307.9
80°	210.5	206.6	214.4	230.0	241.7	241.7	237.8	233.9	218.3	210.5	214.4
82.5°	124.7	120.8	128.6	140.3	148.1	144.2	144.2	140.3	128.6	124.7	124.7
85°	54.6	50.7	54.6	62.4	70.2	66.3	66.3	66.3	58.5	54.6	54.6
87.5°	7.8	7.8	7.8	11.7	15.6	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)