

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: P832630

Luminaire Tested: **TTN-D2-740-U-WQ-SG**

Issue Date: 5/14/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P832630  
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-D2-740-U-WQ-SG  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE  
4000K, 70 CRI LEDS AND WIDE DISTRIBUTION WITH SOLITE GLASS  
Light Source: -  
Ballast/Driver: -

**Summary**

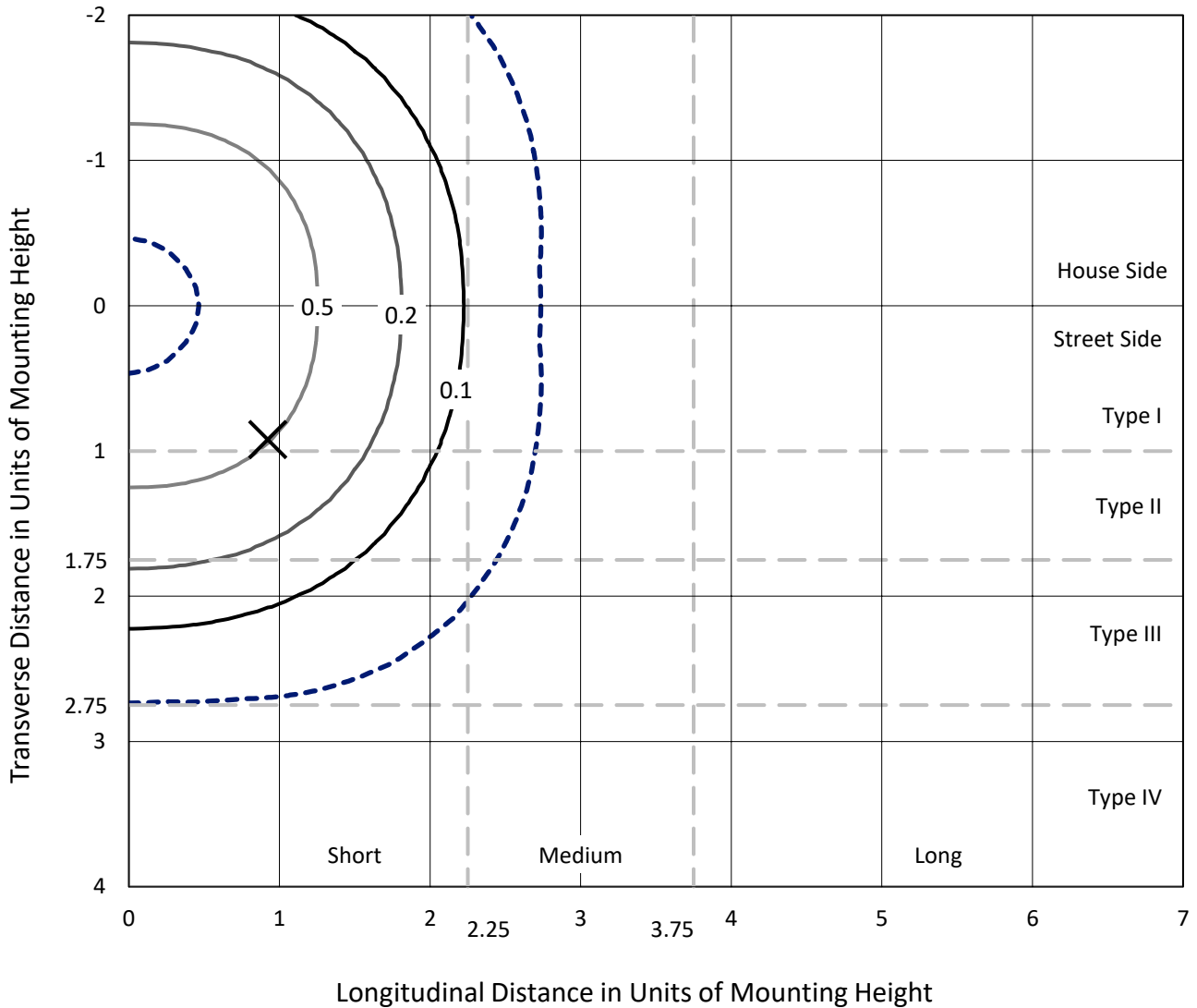
Lumens per Lamp: N/A  
Luminaire Lumens: 4921 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Luminous Opening: Circular (Dia: 0.71' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 42.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

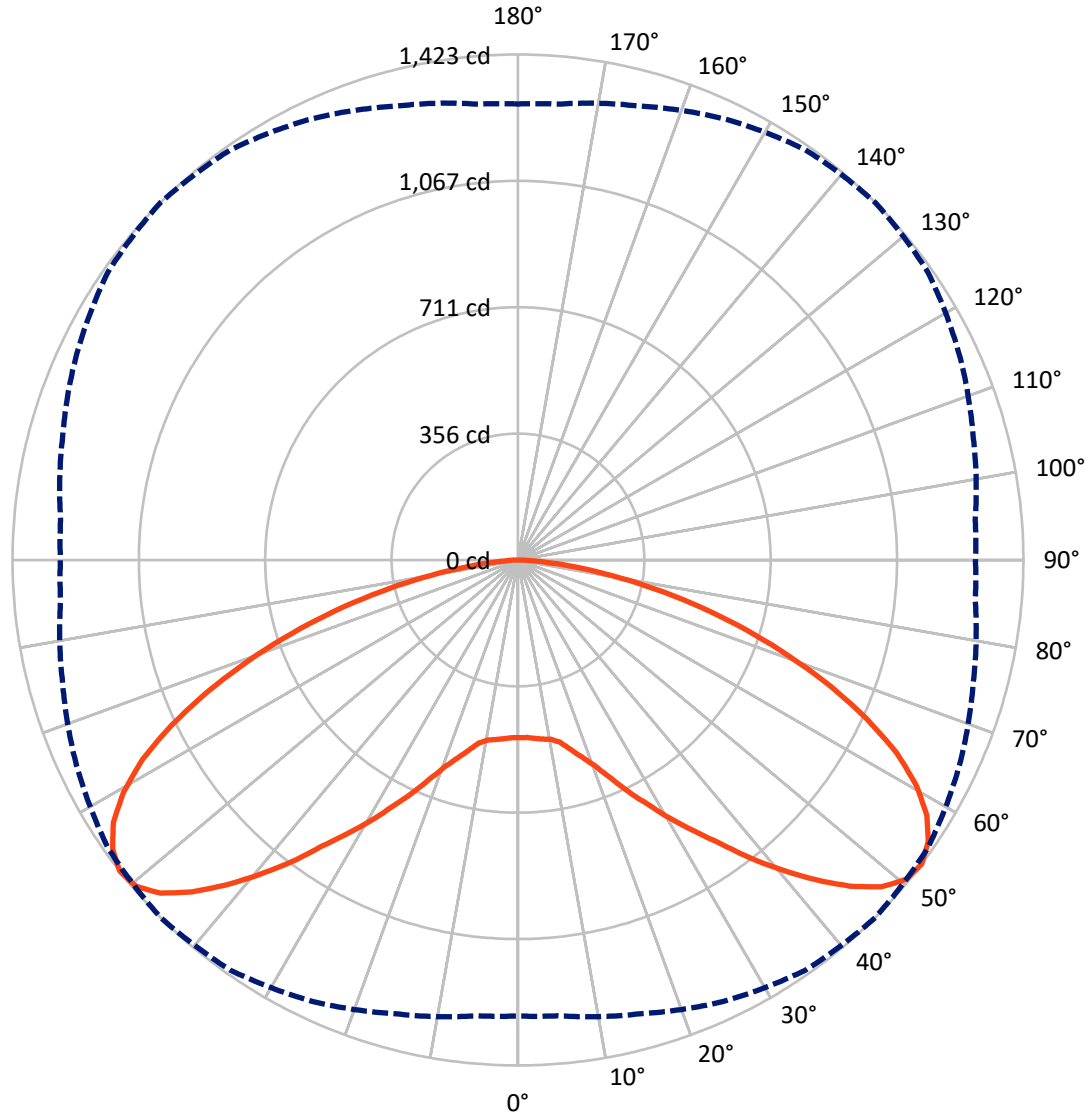
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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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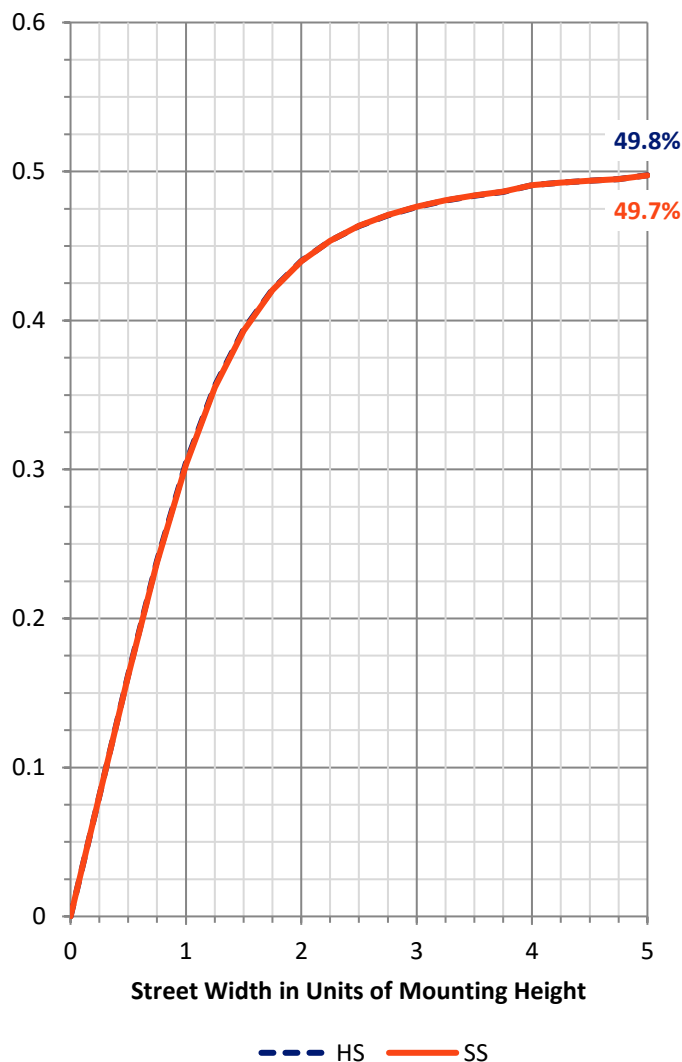
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2460.5	0.0	2460.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2460.5	0.0	2460.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4921.0	0.0	4921.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.3	1.0
10°-20°	158.8	3.2
20°-30°	335.1	6.8
30°-40°	612.2	12.4
40°-50°	974.6	19.8
50°-60°	1178.5	23.9
60°-70°	990.9	20.1
70°-80°	525.3	10.7
80°-90°	97.2	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°	4921.0	100.0
0°-180°	4921.0	100.0

**Coefficient of Utilization**



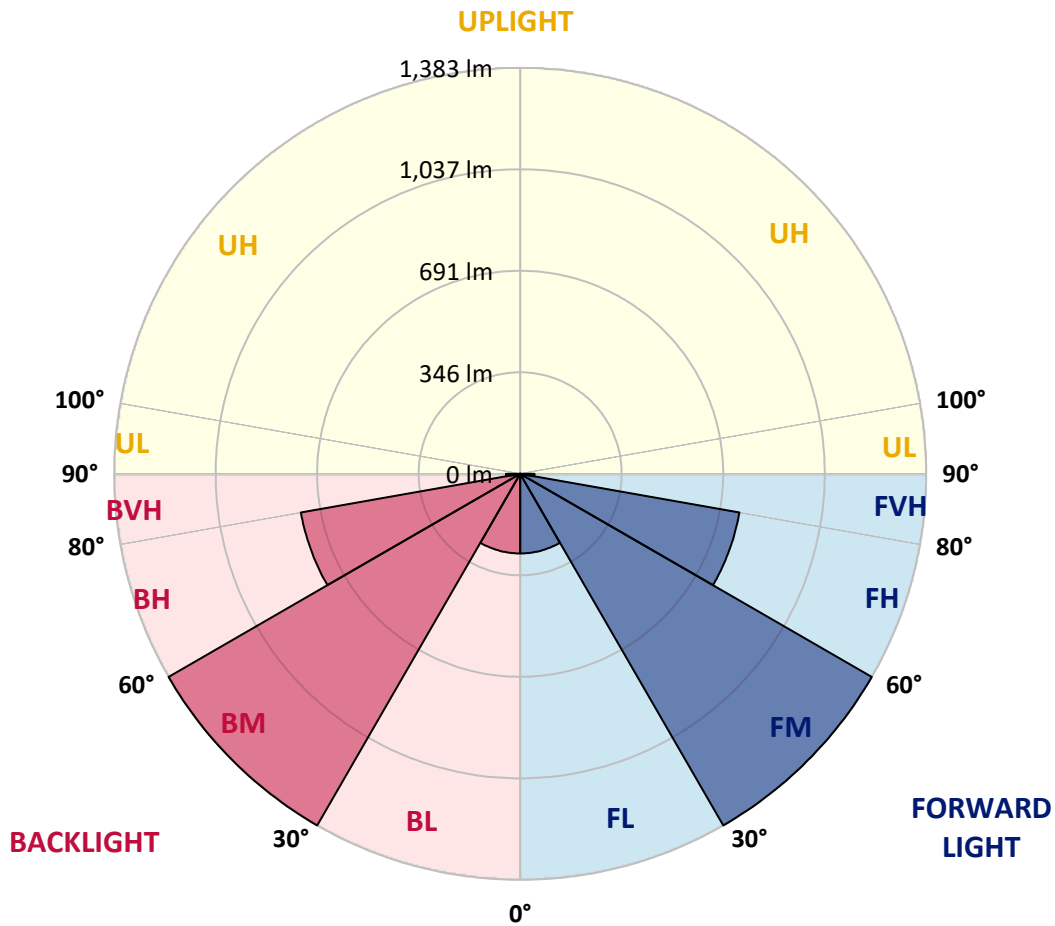
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	271.1	5.5			
FM (30°-60°)	1382.7	28.1			
FH (60°-80°)	758.1	15.4			G1/1800
FVH (80°-90°)	48.6	1.0			G1/100
BL (0°-30°)	271.1	5.5	B1/500		
BM (30°-60°)	1382.7	28.1	B2/2500		
BH (60°-80°)	758.1	15.4	B2/1000		G1/1800
BVH (80°-90°)	48.6	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°	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3
2.5°	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3
5°	504.7	504.7	500.3	504.7	504.7	504.7	504.7	504.7	504.7	504.7	504.7
7.5°	504.7	504.7	504.7	509.0	509.0	509.0	509.0	504.7	504.7	504.7	504.7
10°	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4
12.5°	526.4	526.4	526.4	526.4	526.4	526.4	526.4	526.4	526.4	526.4	526.4
15°	548.2	548.2	548.2	548.2	552.5	552.5	552.5	548.2	548.2	548.2	548.2
17.5°	574.3	574.3	578.6	578.6	583.0	583.0	583.0	578.6	574.3	578.6	574.3
20°	613.4	613.4	613.4	617.8	622.1	617.8	622.1	613.4	613.4	613.4	613.4
22.5°	656.9	656.9	656.9	661.3	665.6	665.6	665.6	656.9	656.9	656.9	656.9
25°	709.1	709.1	709.1	713.5	717.8	722.2	722.2	713.5	709.1	709.1	704.8
27.5°	761.3	761.3	770.0	774.4	778.7	778.7	778.7	770.0	765.7	765.7	765.7
30°	822.2	822.2	830.9	835.3	844.0	844.0	844.0	830.9	826.6	822.2	822.2
32.5°	878.8	883.1	891.8	900.5	909.3	909.3	913.6	896.2	887.5	883.1	883.1
35°	939.7	944.1	952.8	965.8	974.5	978.9	983.2	965.8	952.8	948.4	948.4
37.5°	1009.3	1013.7	1026.7	1039.8	1057.2	1065.9	1070.2	1044.1	1022.4	1013.7	1013.7
40°	1087.6	1092.0	1105.0	1122.4	1139.8	1148.5	1152.9	1126.8	1105.0	1096.3	1092.0
42.5°	1152.9	1161.6	1174.6	1200.7	1218.1	1231.2	1231.2	1200.7	1174.6	1161.6	1161.6
45°	1213.8	1222.5	1244.2	1270.3	1296.4	1309.5	1305.1	1274.7	1244.2	1226.8	1222.5
47.5°	1261.6	1270.3	1296.4	1326.9	1361.7	1374.8	1370.4	1335.6	1296.4	1274.7	1270.3
50°	1287.7	1292.1	1322.5	1366.1	1400.9	1413.9	1405.2	1370.4	1326.9	1296.4	1292.1
52.5°	1283.4	1287.7	1322.5	1370.4	1409.6	1422.6	1409.6	1370.4	1326.9	1292.1	1287.7
55°	1257.3	1261.6	1296.4	1348.6	1387.8	1400.9	1387.8	1348.6	1300.8	1266.0	1261.6
57.5°	1209.4	1213.8	1248.6	1300.8	1344.3	1357.3	1339.9	1296.4	1248.6	1213.8	1213.8
60°	1139.8	1144.2	1179.0	1235.5	1274.7	1287.7	1266.0	1231.2	1183.3	1144.2	1139.8
62.5°	1048.5	1048.5	1087.6	1144.2	1179.0	1196.4	1174.6	1135.5	1092.0	1048.5	1052.8
65°	939.7	935.4	974.5	1026.7	1065.9	1078.9	1057.2	1022.4	978.9	939.7	939.7
67.5°	826.6	826.6	857.0	900.5	935.4	948.4	926.7	896.2	861.4	826.6	826.6
70°	704.8	704.8	726.5	770.0	800.5	809.2	796.1	765.7	735.2	704.8	704.8
72.5°	583.0	578.6	600.4	635.2	661.3	670.0	656.9	639.5	604.7	583.0	583.0
75°	461.2	456.8	469.9	500.3	522.1	530.8	517.7	504.7	478.6	461.2	461.2
77.5°	343.7	339.3	352.4	378.5	391.5	395.9	387.2	378.5	356.7	343.7	343.7
80°	234.9	230.6	239.3	256.7	269.7	269.7	265.4	261.0	243.6	234.9	239.3
82.5°	139.2	134.9	143.6	156.6	165.3	161.0	161.0	156.6	143.6	139.2	139.2
85°	60.9	56.6	60.9	69.6	78.3	74.0	74.0	74.0	65.3	60.9	60.9
87.5°	8.7	8.7	8.7	13.1	17.4	13.1	13.1	13.1	8.7	8.7	8.7
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)