

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: P832649

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

Issue Date: 5/14/2024

Test Information

Test Method: LM-79-08
Report Number: P832649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-254-12)
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-CG
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE
3000K, 80 CRI LEDS AND WIDE DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4498 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

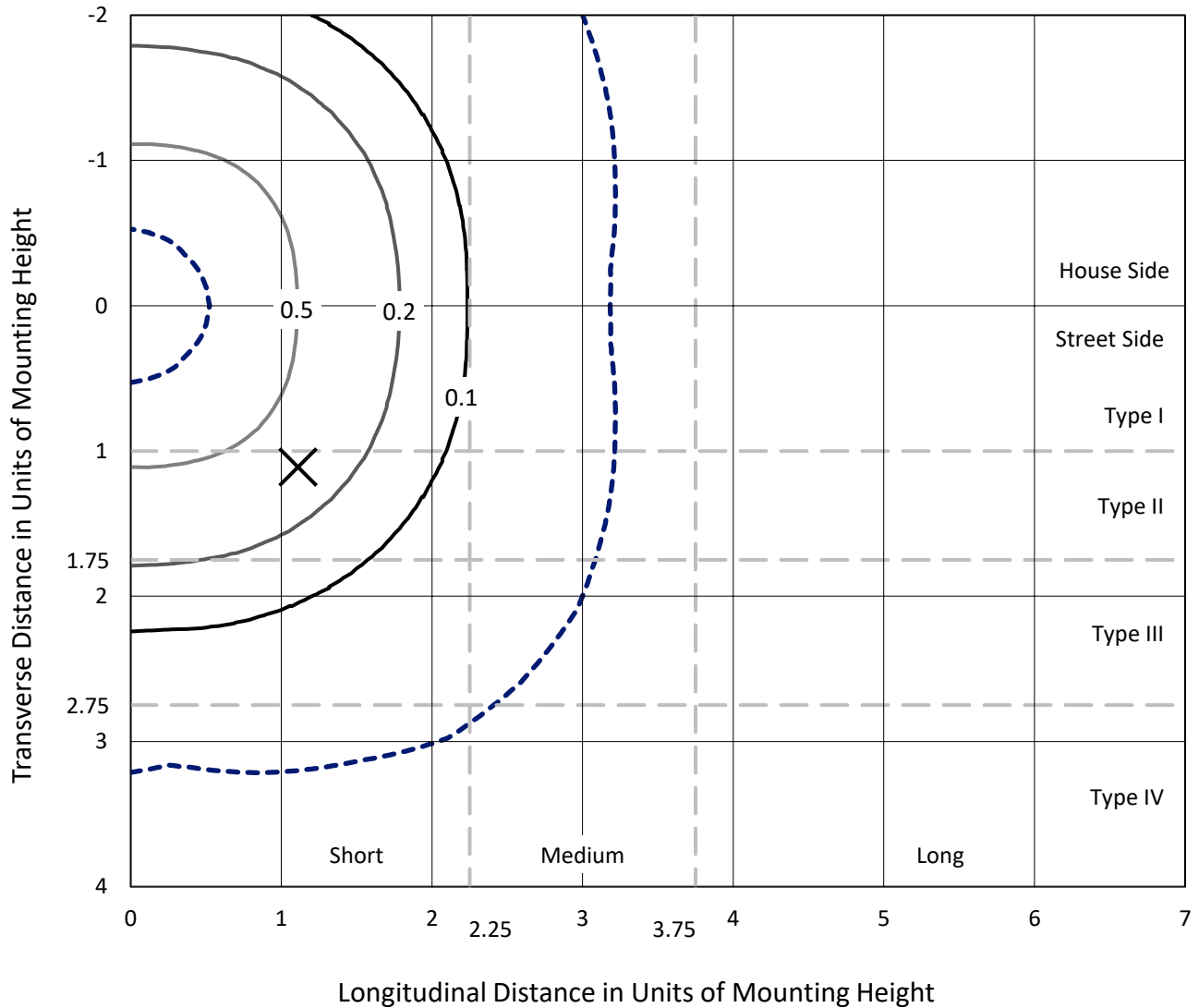
Input Watts (W): 42.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

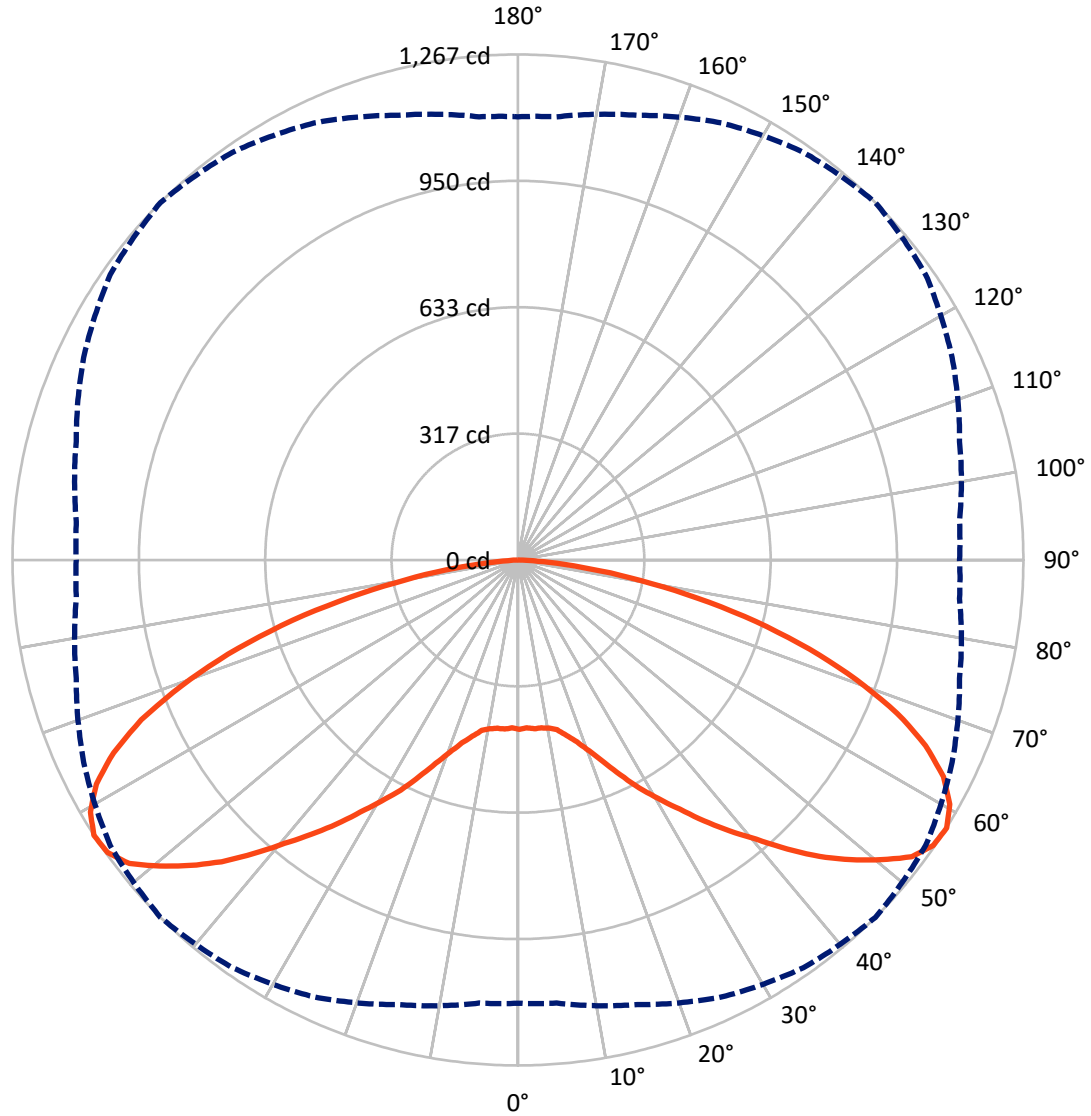
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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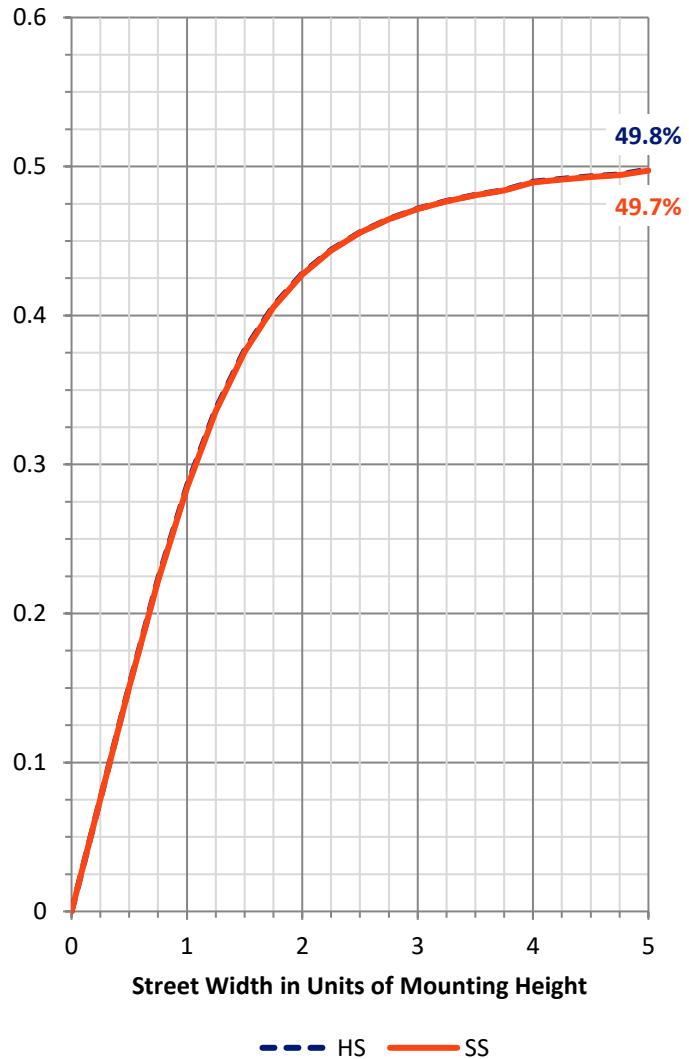
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2249.0	0.0	2249.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2249.0	0.0	2249.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4498.0	0.0	4498.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	0.9
10°-20°	131.0	2.9
20°-30°	275.6	6.1
30°-40°	496.9	11.0
40°-50°	789.9	17.6
50°-60°	1053.9	23.4
60°-70°	1018.3	22.6
70°-80°	590.1	13.1
80°-90°	101.7	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°	4498.0	100.0
0°-180°	4498.0	100.0

Coefficient of Utilization



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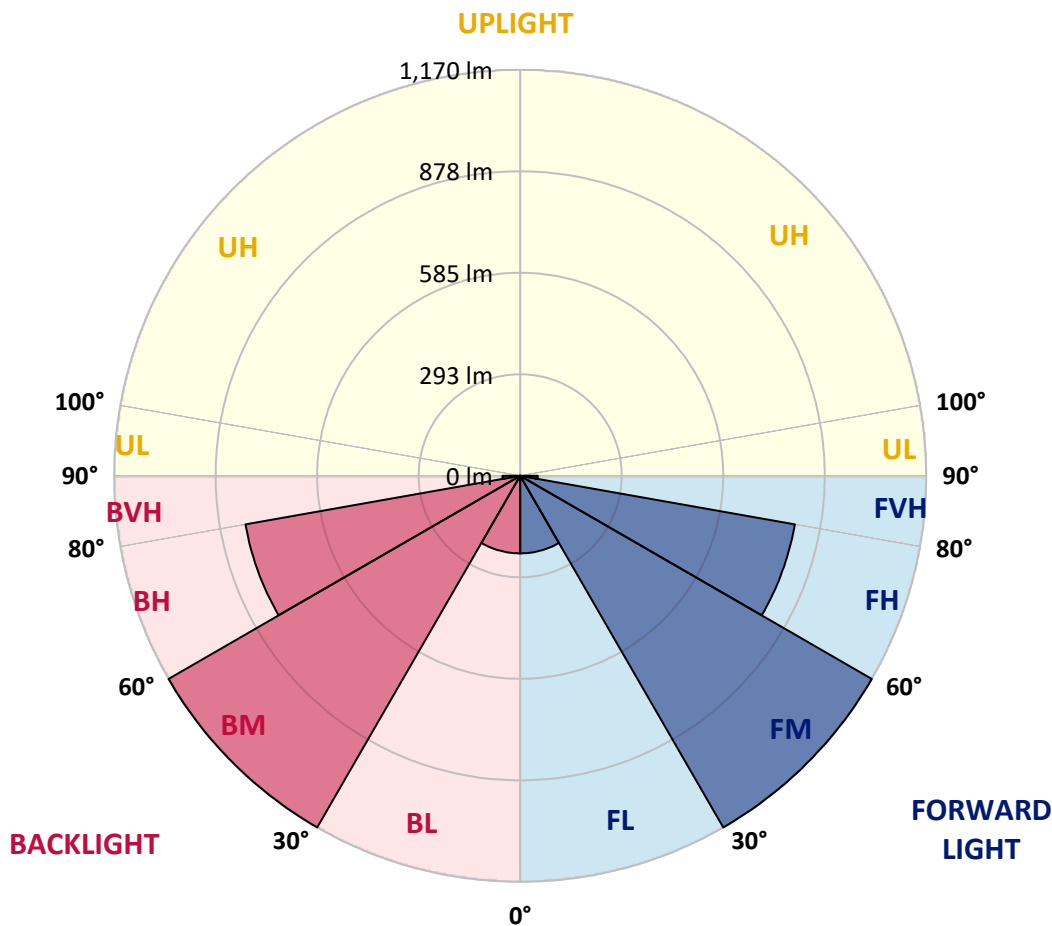
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	223.6	5.0			
FM (30°-60°)	1170.4	26.0			
FH (60°-80°)	804.2	17.9			G1/1800
FVH (80°-90°)	50.8	1.1			G1/100
BL (0°-30°)	223.6	5.0	B1/500		
BM (30°-60°)	1170.4	26.0	B2/2500		
BH (60°-80°)	804.2	17.9	B2/1000		G1/1800
BVH (80°-90°)	50.8	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	424.9	424.9	424.9	424.9	424.9	424.9	424.9	424.9	424.9	424.9	424.9
2.5°	421.0	421.0	421.0	421.0	421.0	421.0	421.0	421.0	421.0	421.0	421.0
5°	424.9	424.9	424.9	424.9	424.9	424.9	424.9	424.9	424.9	424.9	424.9
7.5°	421.0	421.0	424.9	424.9	424.9	424.9	424.9	424.9	424.9	421.0	421.0
10°	424.9	424.9	424.9	428.8	428.8	428.8	428.8	428.8	424.9	424.9	424.9
12.5°	432.7	432.7	436.6	436.6	436.6	436.6	436.6	436.6	436.6	432.7	432.7
15°	452.2	452.2	452.2	456.1	456.1	456.1	456.1	456.1	452.2	452.2	452.2
17.5°	471.7	471.7	475.6	475.6	479.5	479.5	479.5	475.6	475.6	475.6	475.6
20°	499.0	499.0	502.9	502.9	506.8	510.7	510.7	506.8	502.9	502.9	502.9
22.5°	534.1	538.0	538.0	538.0	541.9	549.7	545.8	541.9	538.0	538.0	538.0
25°	576.9	580.8	584.7	584.7	588.6	596.4	596.4	584.7	584.7	584.7	584.7
27.5°	627.6	631.5	635.4	635.4	639.3	647.1	643.2	635.4	635.4	631.5	631.5
30°	674.4	678.3	682.2	686.1	690.0	693.9	693.9	686.1	682.2	678.3	674.4
32.5°	721.2	721.2	729.0	736.8	744.6	744.6	748.5	736.8	729.0	721.2	717.3
35°	768.0	771.9	775.8	787.5	799.1	803.0	799.1	787.5	775.8	768.0	768.0
37.5°	818.6	822.5	826.4	842.0	853.7	861.5	853.7	842.0	826.4	818.6	814.7
40°	873.2	877.1	881.0	900.5	912.2	920.0	908.3	896.6	881.0	873.2	869.3
42.5°	923.9	931.7	939.5	962.9	982.4	990.2	978.5	959.0	943.4	923.9	920.0
45°	986.3	994.1	1005.8	1029.1	1048.6	1060.3	1044.7	1025.3	1001.9	986.3	982.4
47.5°	1036.9	1044.7	1056.4	1087.6	1114.9	1122.7	1107.1	1083.7	1052.5	1033.0	1029.1
50°	1075.9	1083.7	1107.1	1142.2	1173.4	1181.2	1165.6	1134.4	1099.3	1072.0	1068.1
52.5°	1107.1	1114.9	1142.2	1189.0	1224.1	1235.8	1216.3	1181.2	1134.4	1103.2	1099.3
55°	1122.7	1126.6	1161.7	1212.4	1247.5	1263.0	1243.6	1204.6	1153.9	1118.8	1114.9
57.5°	1111.0	1114.9	1153.9	1208.5	1247.5	1266.9	1247.5	1200.7	1146.1	1111.0	1107.1
60°	1087.6	1087.6	1122.7	1185.1	1231.9	1243.6	1224.1	1177.3	1118.8	1083.7	1079.8
62.5°	1044.7	1040.8	1083.7	1138.3	1185.1	1196.8	1181.2	1134.4	1075.9	1040.8	1036.9
65°	962.9	955.1	1017.5	1068.1	1111.0	1122.7	1111.0	1068.1	1013.6	959.0	951.2
67.5°	865.4	853.7	912.2	970.7	1009.7	1025.3	1009.7	974.6	912.2	857.6	853.7
70°	764.1	752.4	799.1	849.8	892.7	900.5	884.9	849.8	791.4	756.3	756.3
72.5°	643.2	631.5	674.4	713.4	756.3	764.1	748.5	717.3	674.4	639.3	635.4
75°	510.7	499.0	538.0	569.2	612.0	615.9	608.1	573.0	538.0	502.9	502.9
77.5°	378.1	366.4	397.6	424.9	460.0	460.0	456.1	428.8	397.6	374.2	374.2
80°	249.5	241.7	269.0	280.7	311.9	311.9	308.0	288.5	265.1	249.5	245.6
82.5°	140.3	132.5	155.9	159.8	183.2	183.2	179.3	163.7	148.1	136.4	136.4
85°	54.6	46.8	62.4	66.3	78.0	78.0	74.1	70.2	58.5	50.7	50.7
87.5°	3.9	3.9	7.8	7.8	11.7	11.7	11.7	7.8	7.8	3.9	3.9
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)