

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: P832624

Luminaire Tested: **TTN-D2-735-U-WQ-CG**

Issue Date: 5/14/2024

Test Information

Test Method: LM-79-08
Report Number: P832624
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-D2-735-U-WQ-CG
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE
3500K, 70 CRI LEDS AND WIDE DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4760 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

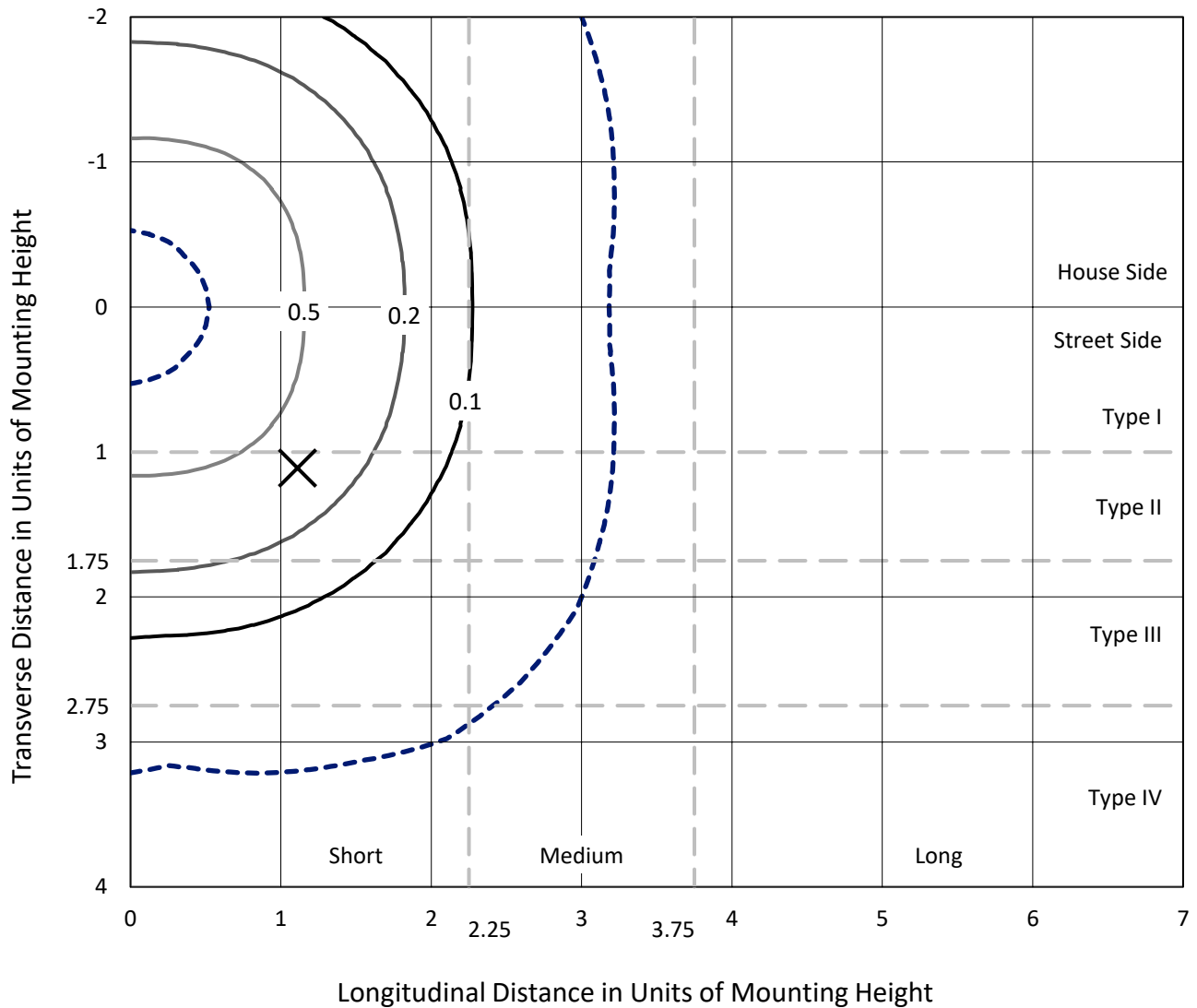
Input Watts (W): 42.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

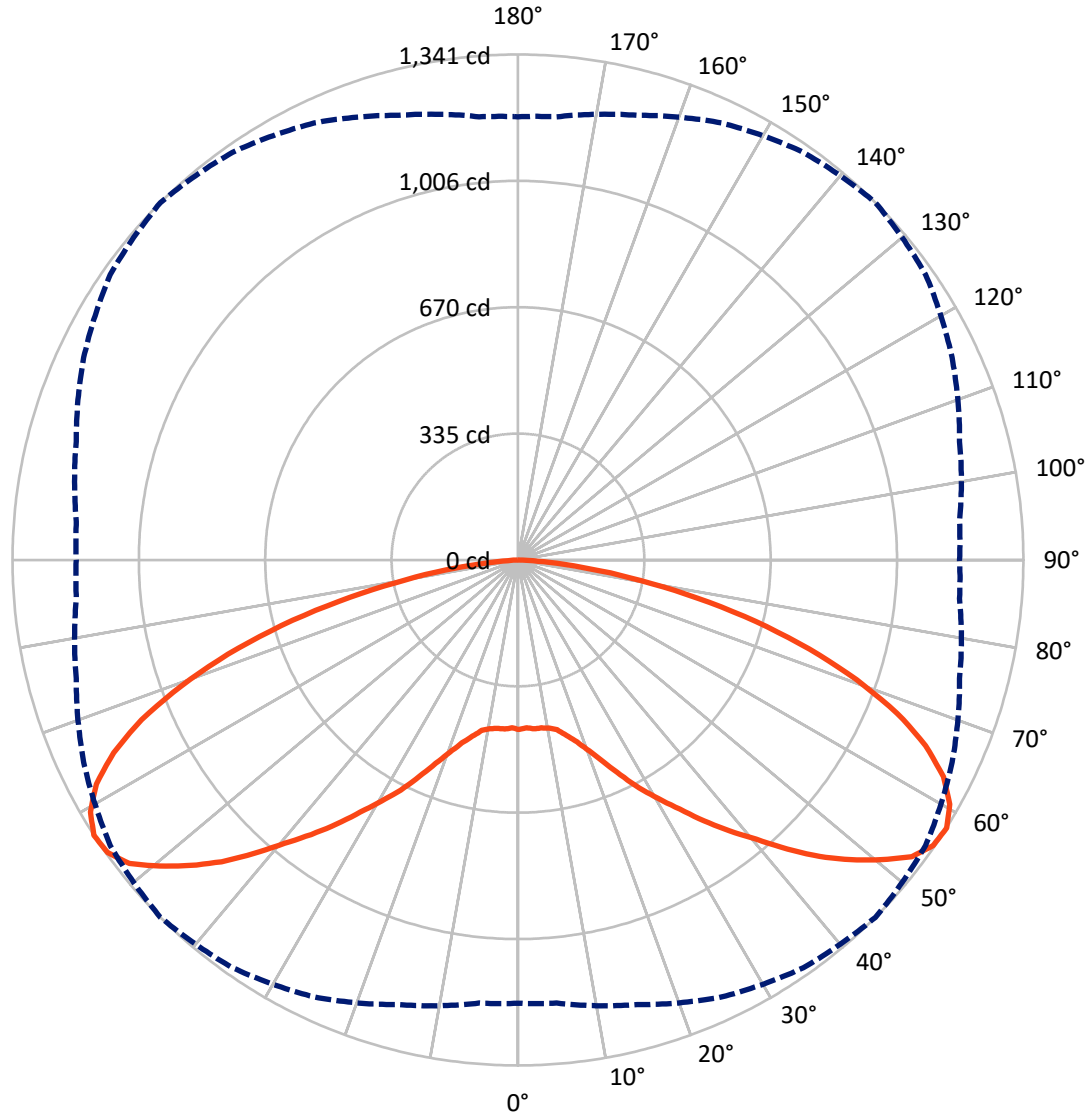
✕ Max cd
 - - - 1/2 Max cd



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 57.5-Deg Vertical

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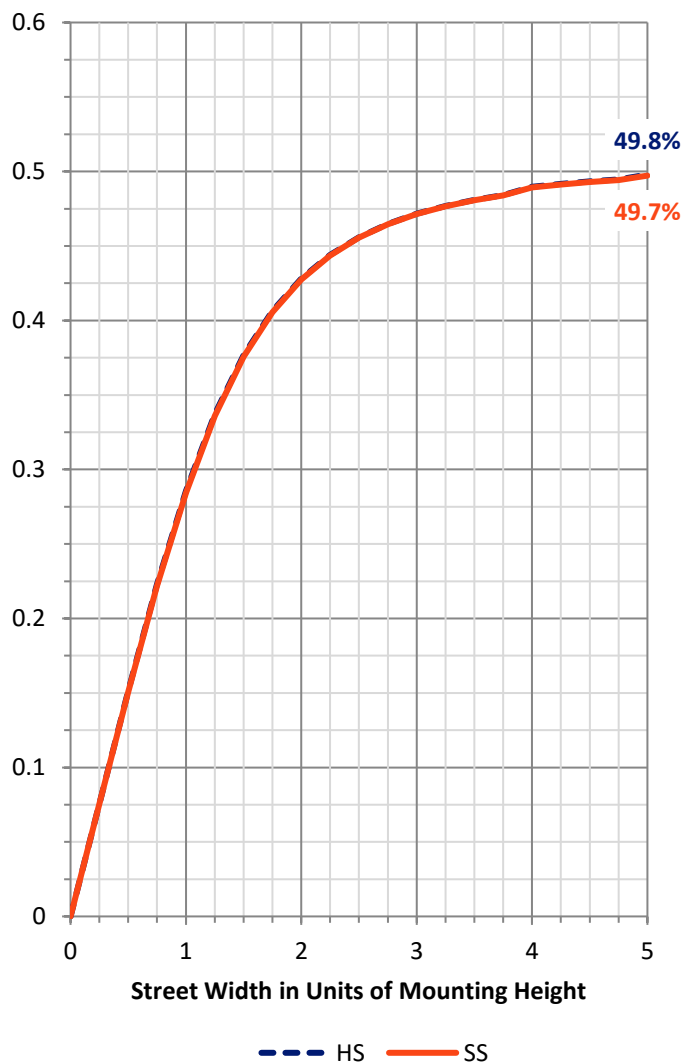
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2380.0	0.0	2380.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2380.0	0.0	2380.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4760.0	0.0	4760.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	0.9
10°-20°	138.6	2.9
20°-30°	291.7	6.1
30°-40°	525.9	11.0
40°-50°	836.0	17.6
50°-60°	1115.3	23.4
60°-70°	1077.6	22.6
70°-80°	624.4	13.1
80°-90°	107.6	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°	4760.0	100.0
0°-180°	4760.0	100.0

Coefficient of Utilization



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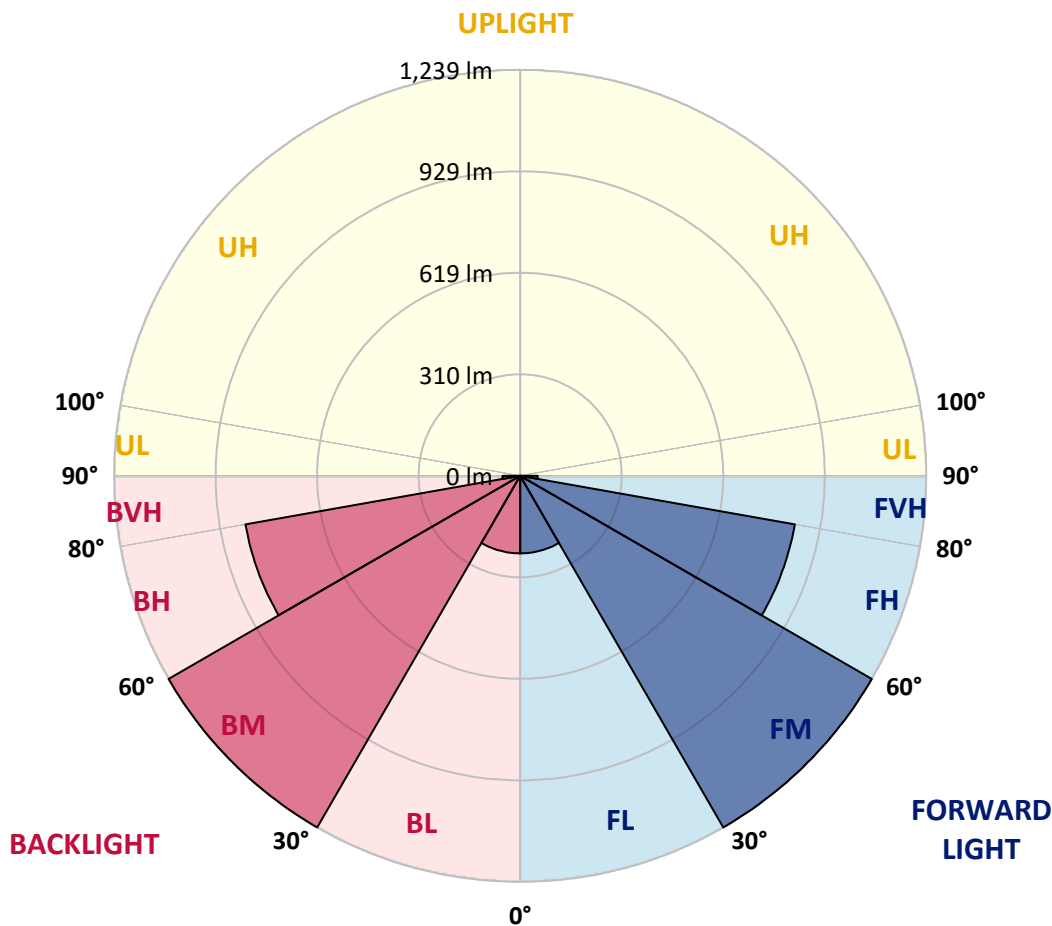
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	236.6	5.0			
FM (30°-60°)	1238.6	26.0			
FH (60°-80°)	851.0	17.9			G1/1800
FVH (80°-90°)	53.8	1.1			G1/100
BL (0°-30°)	236.6	5.0	B1/500		
BM (30°-60°)	1238.6	26.0	B2/2500		
BH (60°-80°)	851.0	17.9	B2/1000		G1/1800
BVH (80°-90°)	53.8	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°	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7
2.5°	445.5	445.5	445.5	445.5	445.5	445.5	445.5	445.5	445.5	445.5	445.5
5°	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7
7.5°	445.5	445.5	449.7	449.7	449.7	449.7	449.7	449.7	449.7	445.5	445.5
10°	449.7	449.7	449.7	453.8	453.8	453.8	453.8	453.8	449.7	449.7	449.7
12.5°	457.9	457.9	462.0	462.0	462.0	462.0	462.0	462.0	462.0	457.9	457.9
15°	478.5	478.5	478.5	482.7	482.7	482.7	482.7	482.7	478.5	478.5	478.5
17.5°	499.2	499.2	503.3	503.3	507.4	507.4	507.4	503.3	503.3	503.3	503.3
20°	528.0	528.0	532.2	532.2	536.3	540.4	540.4	536.3	532.2	532.2	532.2
22.5°	565.2	569.3	569.3	569.3	573.4	581.7	577.6	573.4	569.3	569.3	569.3
25°	610.6	614.7	618.8	618.8	622.9	631.2	631.2	618.8	618.8	618.8	618.8
27.5°	664.2	668.3	672.4	672.4	676.6	684.8	680.7	672.4	672.4	668.3	668.3
30°	713.7	717.8	721.9	726.1	730.2	734.3	734.3	726.1	721.9	717.8	713.7
32.5°	763.2	763.2	771.4	779.7	787.9	787.9	792.1	779.7	771.4	763.2	759.1
35°	812.7	816.8	820.9	833.3	845.7	849.8	845.7	833.3	820.9	812.7	812.7
37.5°	866.3	870.5	874.6	891.1	903.5	911.7	903.5	891.1	874.6	866.3	862.2
40°	924.1	928.2	932.3	953.0	965.3	973.6	961.2	948.8	932.3	924.1	920.0
42.5°	977.7	986.0	994.2	1019.0	1039.6	1047.8	1035.5	1014.8	998.3	977.7	973.6
45°	1043.7	1052.0	1064.3	1089.1	1109.7	1122.1	1105.6	1085.0	1060.2	1043.7	1039.6
47.5°	1097.3	1105.6	1118.0	1151.0	1179.9	1188.1	1171.6	1146.9	1113.8	1093.2	1089.1
50°	1138.6	1146.9	1171.6	1208.7	1241.7	1250.0	1233.5	1200.5	1163.4	1134.5	1130.3
52.5°	1171.6	1179.9	1208.7	1258.2	1295.4	1307.7	1287.1	1250.0	1200.5	1167.5	1163.4
55°	1188.1	1192.2	1229.4	1283.0	1320.1	1336.6	1316.0	1274.7	1221.1	1184.0	1179.9
57.5°	1175.7	1179.9	1221.1	1278.9	1320.1	1340.7	1320.1	1270.6	1212.9	1175.7	1171.6
60°	1151.0	1151.0	1188.1	1254.1	1303.6	1316.0	1295.4	1245.9	1184.0	1146.9	1142.7
62.5°	1105.6	1101.5	1146.9	1204.6	1254.1	1266.5	1250.0	1200.5	1138.6	1101.5	1097.3
65°	1019.0	1010.7	1076.7	1130.3	1175.7	1188.1	1175.7	1130.3	1072.6	1014.8	1006.6
67.5°	915.8	903.5	965.3	1027.2	1068.5	1085.0	1068.5	1031.3	965.3	907.6	903.5
70°	808.6	796.2	845.7	899.3	944.7	953.0	936.5	899.3	837.4	800.3	800.3
72.5°	680.7	668.3	713.7	754.9	800.3	808.6	792.1	759.1	713.7	676.6	672.4
75°	540.4	528.0	569.3	602.3	647.7	651.8	643.6	606.4	569.3	532.2	532.2
77.5°	400.2	387.8	420.8	449.7	486.8	486.8	482.7	453.8	420.8	396.0	396.0
80°	264.0	255.8	284.6	297.0	330.0	330.0	325.9	305.3	280.5	264.0	259.9
82.5°	148.5	140.3	165.0	169.1	193.9	193.9	189.8	173.3	156.8	144.4	144.4
85°	57.8	49.5	66.0	70.1	82.5	82.5	78.4	74.3	61.9	53.6	53.6
87.5°	4.1	4.1	8.3	8.3	12.4	12.4	12.4	8.3	8.3	4.1	4.1
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)