

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: P823381

Luminaire Tested: **TTN-D2-735-U-CQ**

Issue Date: 4/16/2024

Test Information

Test Method: LM-79-08
Report Number: P823381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-254-9)
Test Lab: INNOVATION CENTER
Issue Date: 4/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TTN-D2-735-U-CQ
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE
3500K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5040 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

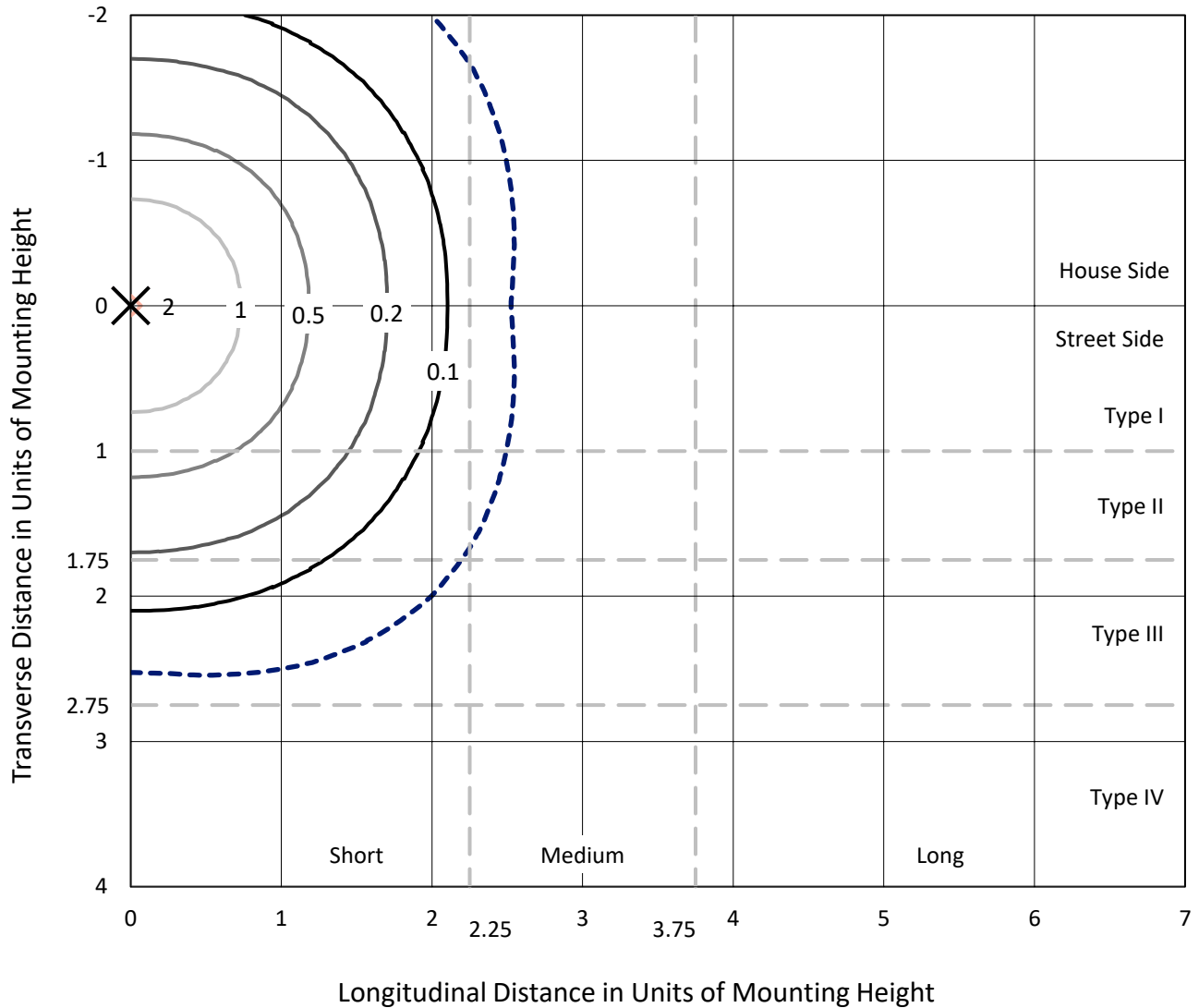
Input Watts (W): 42.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

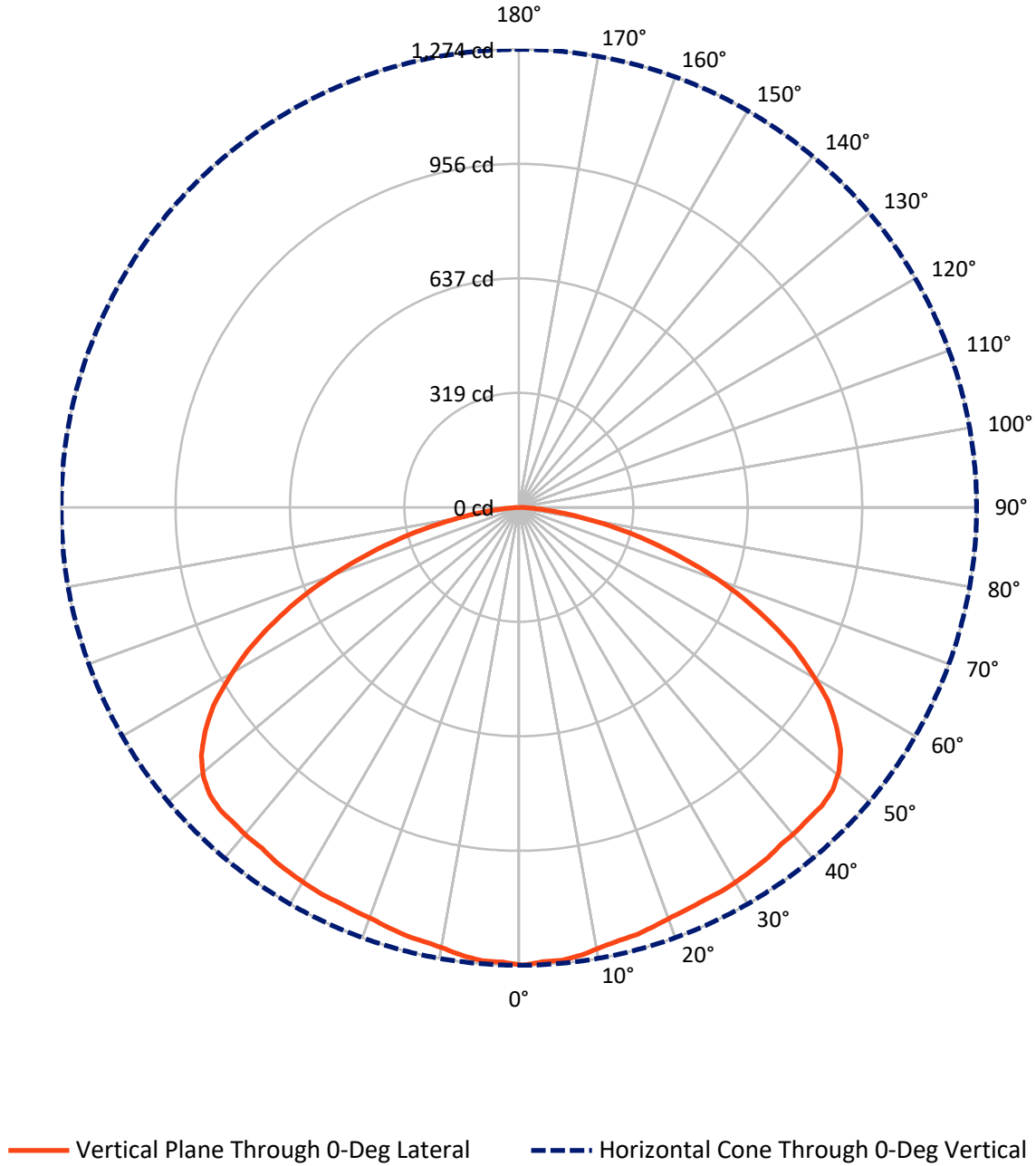
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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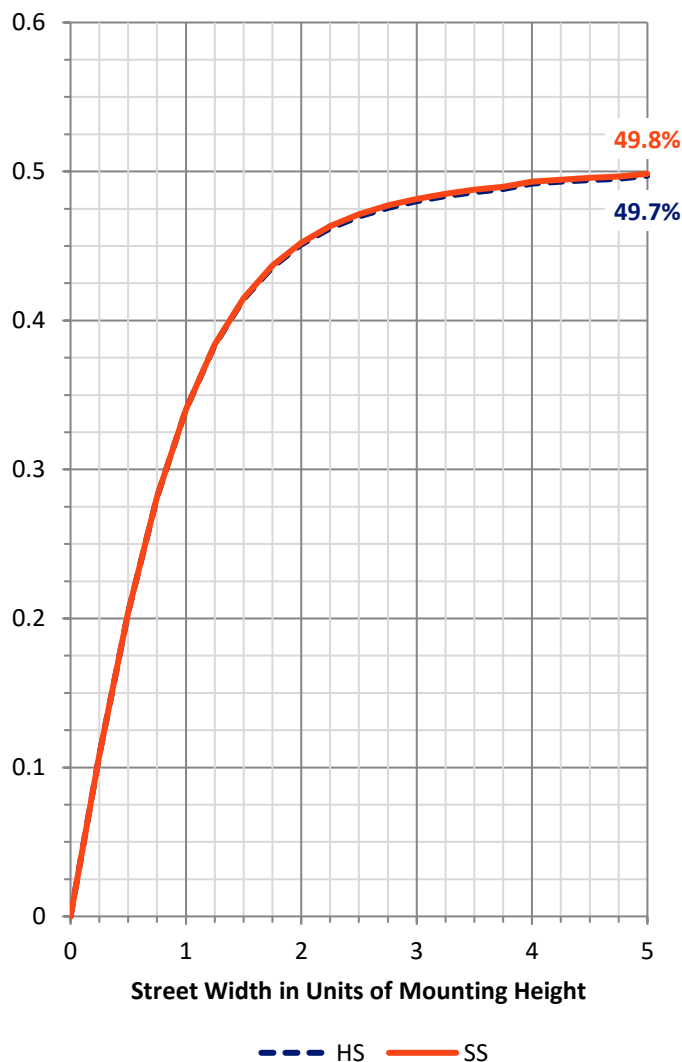
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2520.0	0.0	2520.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2520.0	0.0	2520.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5040.0	0.0	5040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	2.4
10°-20°	348.9	6.9
20°-30°	561.9	11.1
30°-40°	755.7	15.0
40°-50°	932.4	18.5
50°-60°	1000.3	19.8
60°-70°	811.2	16.1
70°-80°	429.9	8.5
80°-90°	79.5	1.6
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°	5040.0	100.0
0°-180°	5040.0	100.0

Coefficient of Utilization



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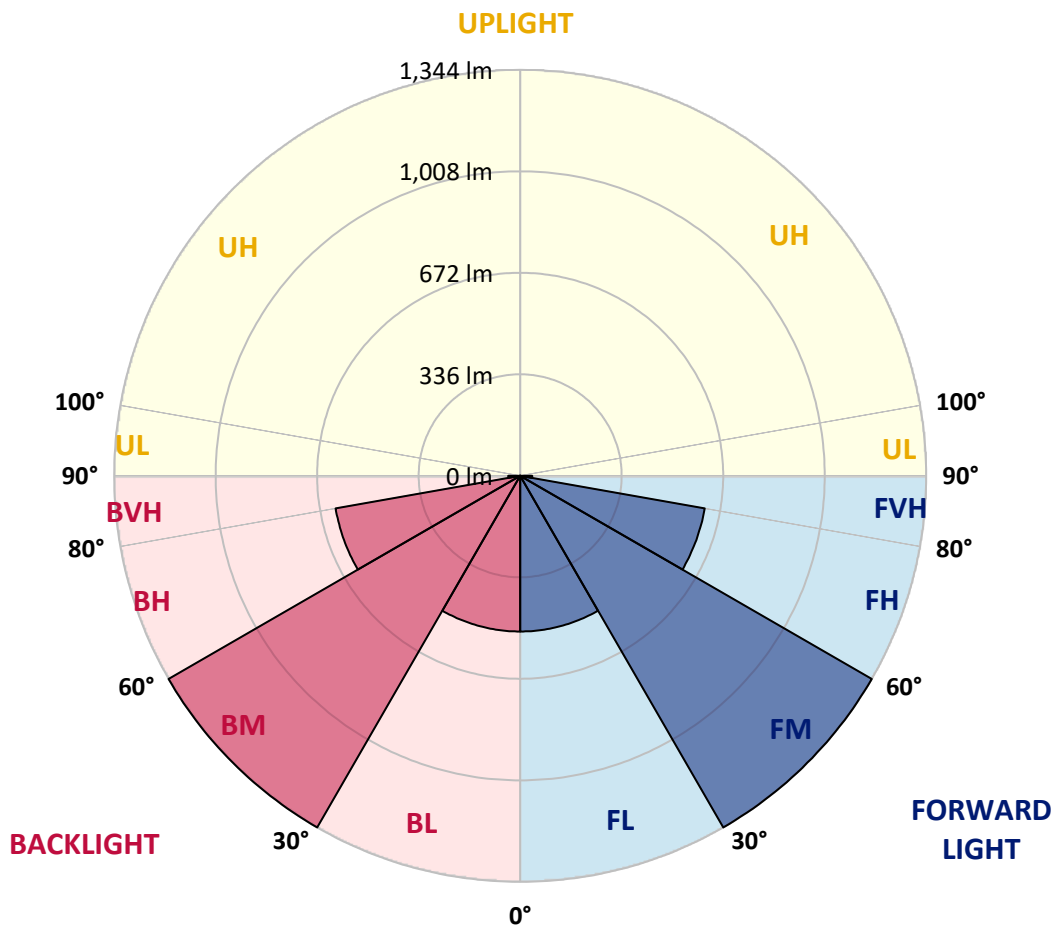
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	515.5	10.2			
FM (30°-60°)	1344.2	26.7			
FH (60°-80°)	620.6	12.3			G0/660
FVH (80°-90°)	39.8	0.8			G1/100
BL (0°-30°)	515.5	10.2	B2/1000		
BM (30°-60°)	1344.2	26.7	B2/2500		
BH (60°-80°)	620.6	12.3	B2/1000		G0/660
BVH (80°-90°)	39.8	0.8			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°	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4
2.5°	1266.2	1266.2	1266.2	1266.2	1266.2	1266.2	1266.2	1266.2	1266.2	1266.2	1270.3
5°	1266.2	1266.2	1266.2	1266.2	1262.1	1266.2	1266.2	1266.2	1266.2	1266.2	1266.2
7.5°	1257.9	1257.9	1257.9	1257.9	1257.9	1257.9	1257.9	1257.9	1257.9	1257.9	1257.9
10°	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6
12.5°	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3
15°	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1229.1	1229.1
17.5°	1224.9	1224.9	1224.9	1224.9	1229.1	1229.1	1229.1	1224.9	1224.9	1224.9	1224.9
20°	1216.7	1216.7	1216.7	1220.8	1220.8	1220.8	1220.8	1220.8	1216.7	1216.7	1216.7
22.5°	1212.6	1212.6	1212.6	1212.6	1216.7	1216.7	1216.7	1216.7	1212.6	1212.6	1212.6
25°	1208.4	1208.4	1212.6	1212.6	1216.7	1216.7	1216.7	1212.6	1212.6	1208.4	1208.4
27.5°	1208.4	1208.4	1212.6	1212.6	1216.7	1216.7	1216.7	1216.7	1212.6	1208.4	1208.4
30°	1204.3	1208.4	1208.4	1212.6	1216.7	1216.7	1216.7	1212.6	1208.4	1204.3	1204.3
32.5°	1200.2	1200.2	1204.3	1208.4	1212.6	1212.6	1212.6	1208.4	1204.3	1200.2	1196.1
35°	1196.1	1196.1	1196.1	1204.3	1208.4	1208.4	1208.4	1204.3	1196.1	1191.9	1191.9
37.5°	1187.8	1191.9	1196.1	1200.2	1208.4	1208.4	1208.4	1200.2	1191.9	1187.8	1183.7
40°	1187.8	1187.8	1196.1	1200.2	1212.6	1212.6	1208.4	1200.2	1191.9	1183.7	1179.6
42.5°	1183.7	1187.8	1196.1	1208.4	1220.8	1220.8	1216.7	1204.3	1191.9	1183.7	1179.6
45°	1183.7	1183.7	1196.1	1212.6	1229.1	1233.2	1224.9	1212.6	1196.1	1179.6	1179.6
47.5°	1175.5	1175.5	1191.9	1212.6	1233.2	1237.3	1233.2	1212.6	1191.9	1179.6	1175.5
50°	1154.8	1154.8	1175.5	1200.2	1224.9	1233.2	1224.9	1208.4	1179.6	1163.1	1159.0
52.5°	1121.8	1121.8	1142.5	1175.5	1200.2	1212.6	1204.3	1183.7	1154.8	1130.1	1126.0
55°	1072.3	1076.5	1097.1	1134.2	1163.1	1175.5	1167.2	1142.5	1109.5	1084.7	1076.5
57.5°	1014.6	1014.6	1043.5	1080.6	1109.5	1121.8	1113.6	1088.8	1051.7	1027.0	1018.7
60°	936.2	940.4	965.1	1014.6	1043.5	1055.8	1047.6	1018.7	977.5	948.6	940.4
62.5°	857.9	862.0	886.7	928.0	961.0	969.2	961.0	932.1	895.0	866.1	857.9
65°	767.1	771.3	800.1	837.3	862.0	874.4	862.0	837.3	804.3	775.4	771.3
67.5°	672.3	676.4	705.3	738.3	763.0	771.3	758.9	738.3	705.3	680.5	672.3
70°	573.3	577.4	602.2	631.0	651.7	659.9	651.7	626.9	602.2	577.4	573.3
72.5°	470.2	474.3	499.1	523.8	540.3	548.5	536.2	519.7	494.9	474.3	470.2
75°	371.2	371.2	391.8	412.4	428.9	433.1	424.8	412.4	391.8	375.3	367.1
77.5°	276.3	276.3	297.0	309.3	317.6	325.8	317.6	305.2	292.8	276.3	276.3
80°	185.6	185.6	202.1	210.3	218.6	222.7	218.6	210.3	202.1	189.7	185.6
82.5°	111.4	111.4	119.6	127.9	127.9	132.0	132.0	127.9	119.6	111.4	111.4
85°	49.5	45.4	53.6	57.7	57.7	61.9	61.9	57.7	53.6	49.5	49.5
87.5°	4.1	8.2	8.2	12.4	12.4	12.4	12.4	12.4	8.2	8.2	8.2
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)