

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: P823386

Luminaire Tested: **TTN-D2-740-U-CQ**

Issue Date: 4/16/2024

Test Information

Test Method: LM-79-08
Report Number: P823386
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-D2-740-U-CQ
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE
4000K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5316 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

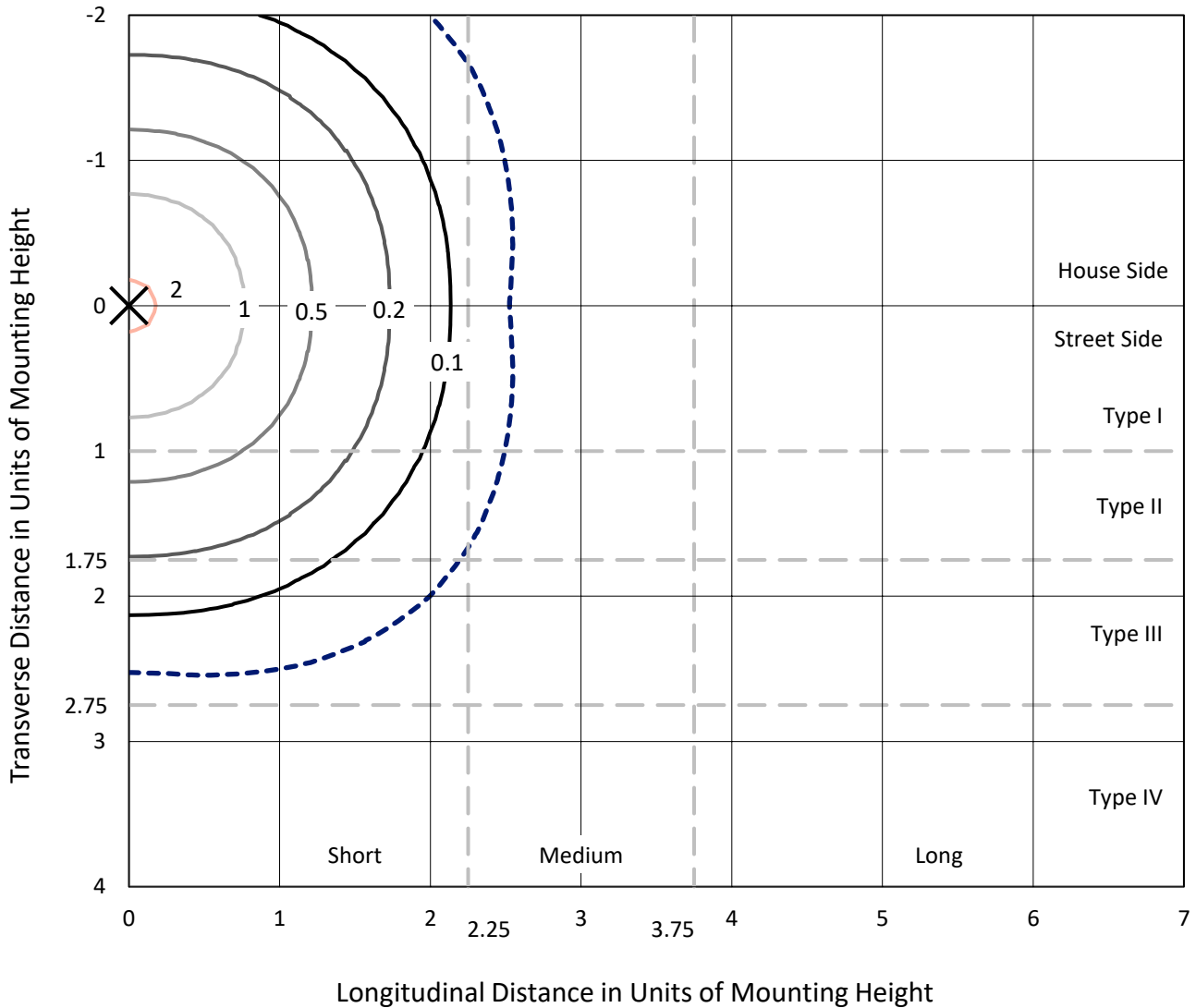
Input Watts (W): 42.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P823386
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Iso-Footcandle Lines of Horizontal Illumination

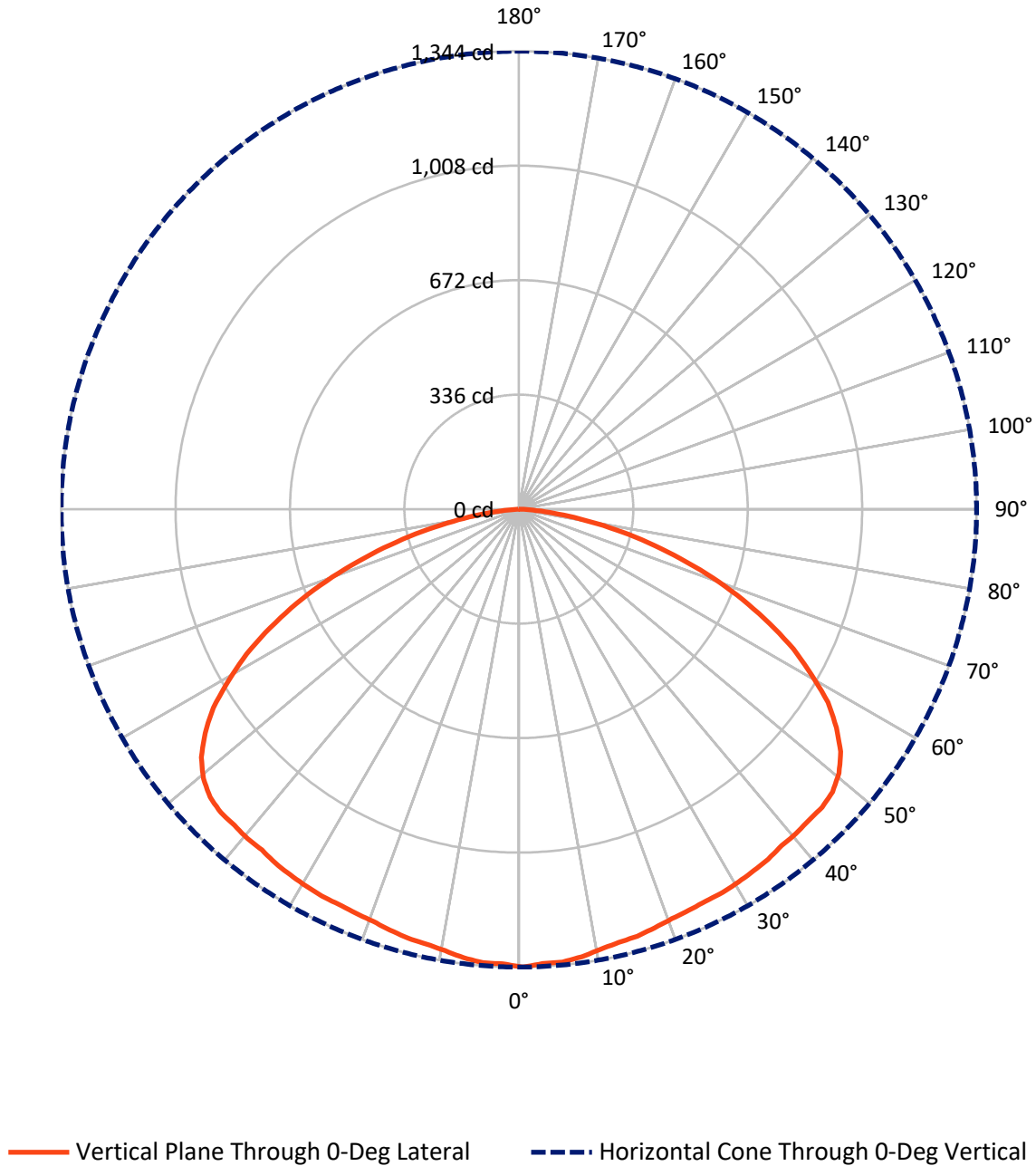
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - N/A

REPORT NUMBER: P823386
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Luminous Intensity Polar Plot



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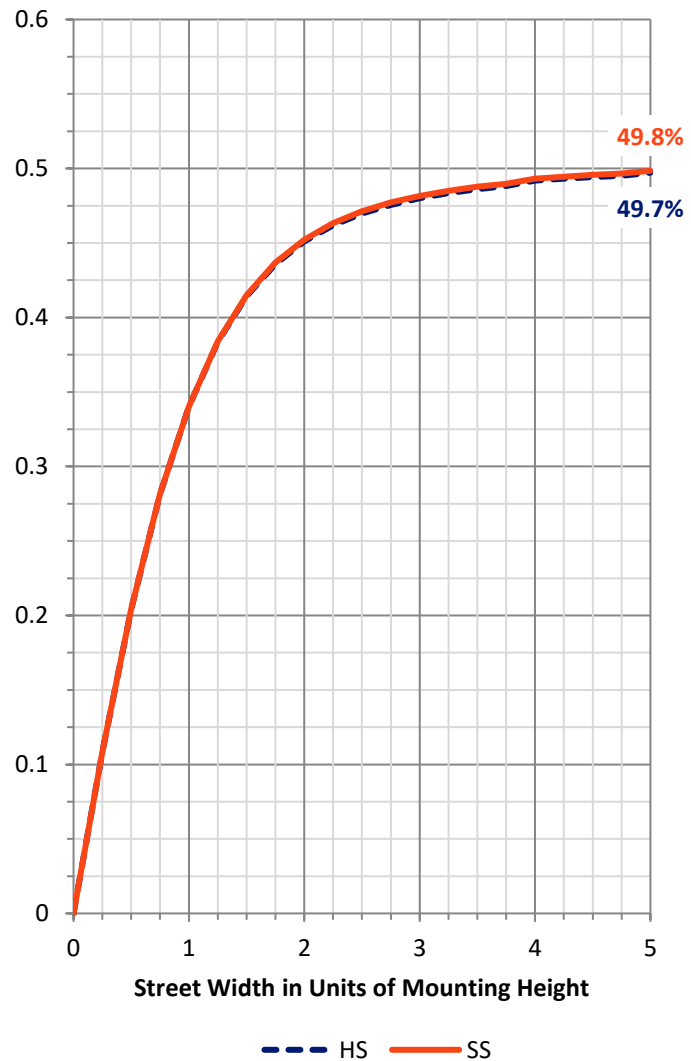
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2658.0	0.0	2658.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2658.0	0.0	2658.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5316.0	0.0	5316.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	2.4
10°-20°	368.0	6.9
20°-30°	592.6	11.1
30°-40°	797.1	15.0
40°-50°	983.4	18.5
50°-60°	1055.1	19.8
60°-70°	855.6	16.1
70°-80°	453.5	8.5
80°-90°	83.9	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°	5316.0	100.0
0°-180°	5316.0	100.0



REPORT NUMBER: P823386

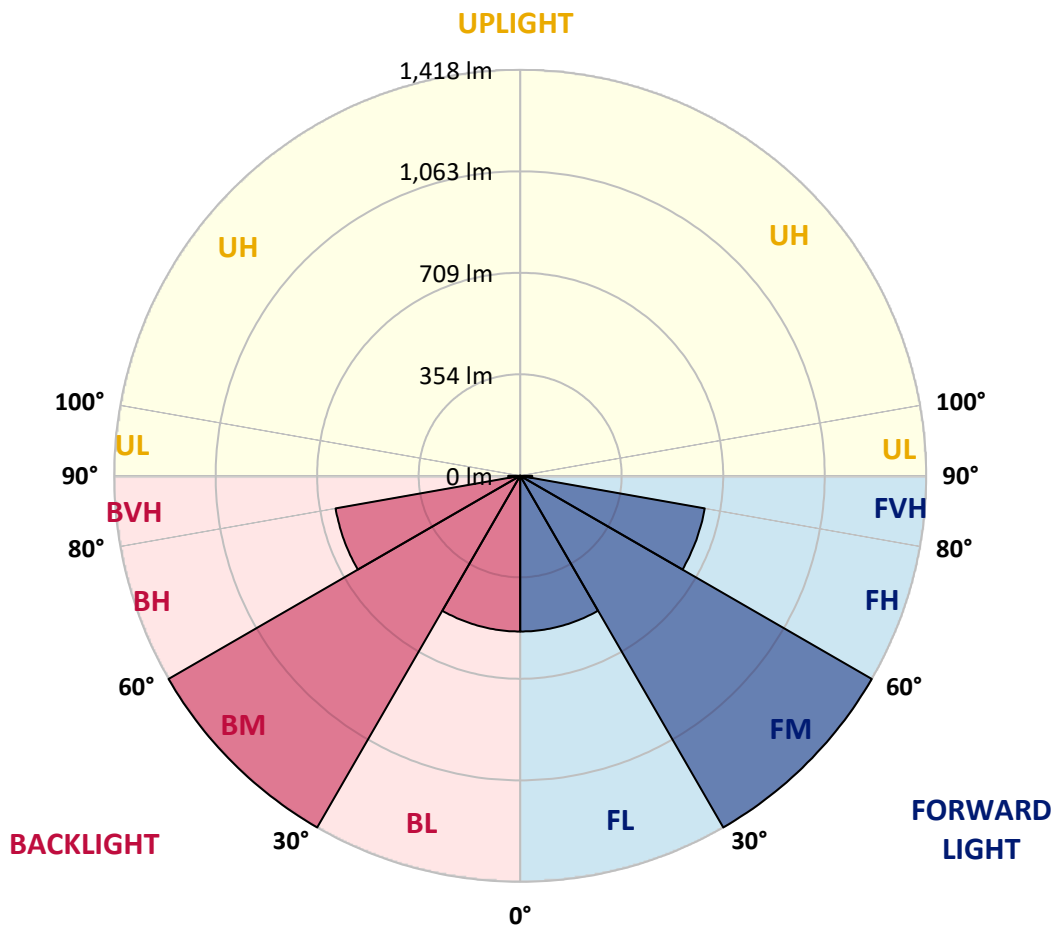
CATALOG NUMBER: TTN-D2-740-U-CQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	543.7	10.2			
FM (30°-60°)	1417.8	26.7			
FH (60°-80°)	654.6	12.3			G0/660
FVH (80°-90°)	41.9	0.8			G1/100
BL (0°-30°)	543.7	10.2	B2/1000		
BM (30°-60°)	1417.8	26.7	B2/2500		
BH (60°-80°)	654.6	12.3	B2/1000		G0/660
BVH (80°-90°)	41.9	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





REPORT NUMBER: P823386

CATALOG NUMBER: TTN-D2-740-U-CQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2
2.5°	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1339.9
5°	1335.5	1335.5	1335.5	1335.5	1331.2	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5
7.5°	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8
10°	1313.8	1313.8	1313.8	1313.8	1313.8	1313.8	1313.8	1313.8	1313.8	1313.8	1313.8
12.5°	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1
15°	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1296.4	1296.4
17.5°	1292.0	1292.0	1292.0	1292.0	1296.4	1296.4	1296.4	1292.0	1292.0	1292.0	1292.0
20°	1283.3	1283.3	1283.3	1287.7	1287.7	1287.7	1287.7	1287.7	1283.3	1283.3	1283.3
22.5°	1279.0	1279.0	1279.0	1279.0	1283.3	1283.3	1283.3	1283.3	1279.0	1279.0	1279.0
25°	1274.6	1274.6	1279.0	1279.0	1283.3	1283.3	1283.3	1279.0	1279.0	1274.6	1274.6
27.5°	1274.6	1274.6	1279.0	1279.0	1283.3	1283.3	1283.3	1283.3	1279.0	1274.6	1274.6
30°	1270.3	1274.6	1274.6	1279.0	1283.3	1283.3	1283.3	1279.0	1274.6	1270.3	1270.3
32.5°	1265.9	1265.9	1270.3	1274.6	1279.0	1279.0	1279.0	1274.6	1270.3	1265.9	1261.6
35°	1261.6	1261.6	1261.6	1270.3	1274.6	1274.6	1274.6	1270.3	1261.6	1257.2	1257.2
37.5°	1252.9	1257.2	1261.6	1265.9	1274.6	1274.6	1274.6	1265.9	1257.2	1252.9	1248.5
40°	1252.9	1252.9	1261.6	1265.9	1279.0	1279.0	1274.6	1265.9	1257.2	1248.5	1244.2
42.5°	1248.5	1252.9	1261.6	1274.6	1287.7	1287.7	1283.3	1270.3	1257.2	1248.5	1244.2
45°	1248.5	1248.5	1261.6	1279.0	1296.4	1300.7	1292.0	1279.0	1261.6	1244.2	1244.2
47.5°	1239.8	1239.8	1257.2	1279.0	1300.7	1305.1	1300.7	1279.0	1257.2	1244.2	1239.8
50°	1218.1	1218.1	1239.8	1265.9	1292.0	1300.7	1292.0	1274.6	1244.2	1226.8	1222.4
52.5°	1183.3	1183.3	1205.0	1239.8	1265.9	1279.0	1270.3	1248.5	1218.1	1192.0	1187.6
55°	1131.1	1135.4	1157.2	1196.3	1226.8	1239.8	1231.1	1205.0	1170.2	1144.1	1135.4
57.5°	1070.2	1070.2	1100.6	1139.8	1170.2	1183.3	1174.6	1148.5	1109.3	1083.2	1074.5
60°	987.5	991.9	1018.0	1070.2	1100.6	1113.7	1105.0	1074.5	1031.0	1000.6	991.9
62.5°	904.9	909.2	935.3	978.8	1013.6	1022.3	1013.6	983.2	944.0	913.6	904.9
65°	809.1	813.5	843.9	883.1	909.2	922.3	909.2	883.1	848.3	817.8	813.5
67.5°	709.1	713.4	743.9	778.7	804.8	813.5	800.4	778.7	743.9	717.8	709.1
70°	604.7	609.0	635.1	665.6	687.3	696.0	687.3	661.2	635.1	609.0	604.7
72.5°	495.9	500.3	526.4	552.5	569.9	578.6	565.5	548.1	522.0	500.3	495.9
75°	391.5	391.5	413.3	435.0	452.4	456.8	448.1	435.0	413.3	395.9	387.2
77.5°	291.5	291.5	313.2	326.3	335.0	343.7	335.0	321.9	308.9	291.5	291.5
80°	195.8	195.8	213.2	221.9	230.6	234.9	230.6	221.9	213.2	200.1	195.8
82.5°	117.5	117.5	126.2	134.9	134.9	139.2	139.2	134.9	126.2	117.5	117.5
85°	52.2	47.9	56.6	60.9	60.9	65.3	65.3	60.9	56.6	52.2	52.2
87.5°	4.4	8.7	8.7	13.1	13.1	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)