

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: P823324

Luminaire Tested: **TTN-D1-735-U-RW**

Issue Date: 4/16/2024

Test Information

Test Method: LM-79-08
Report Number: P823324
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-254-10)
Test Lab: INNOVATION CENTER
Issue Date: 4/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TTN-D1-735-U-RW
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE
3500K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3108 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

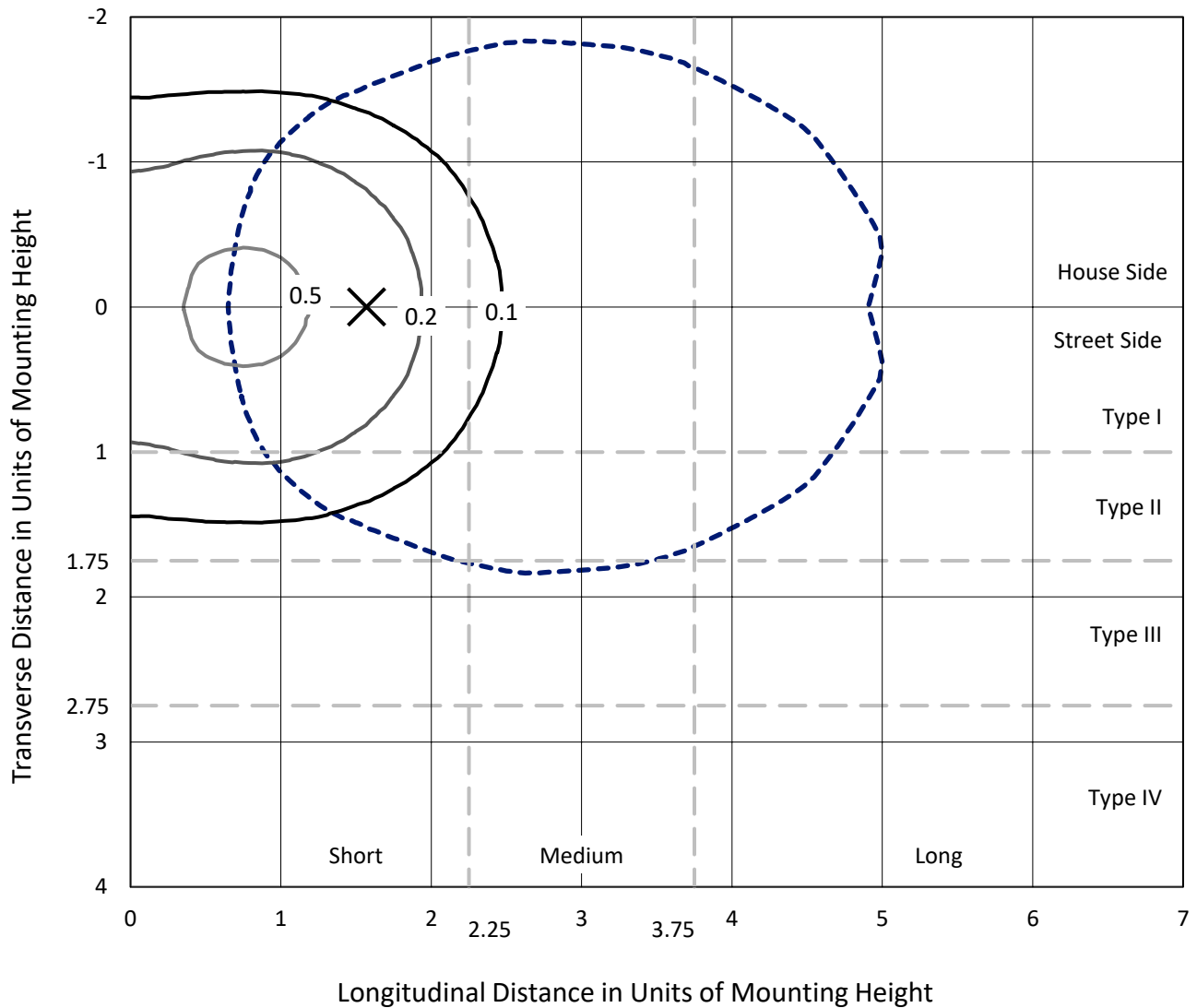
Input Watts (W): 26.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

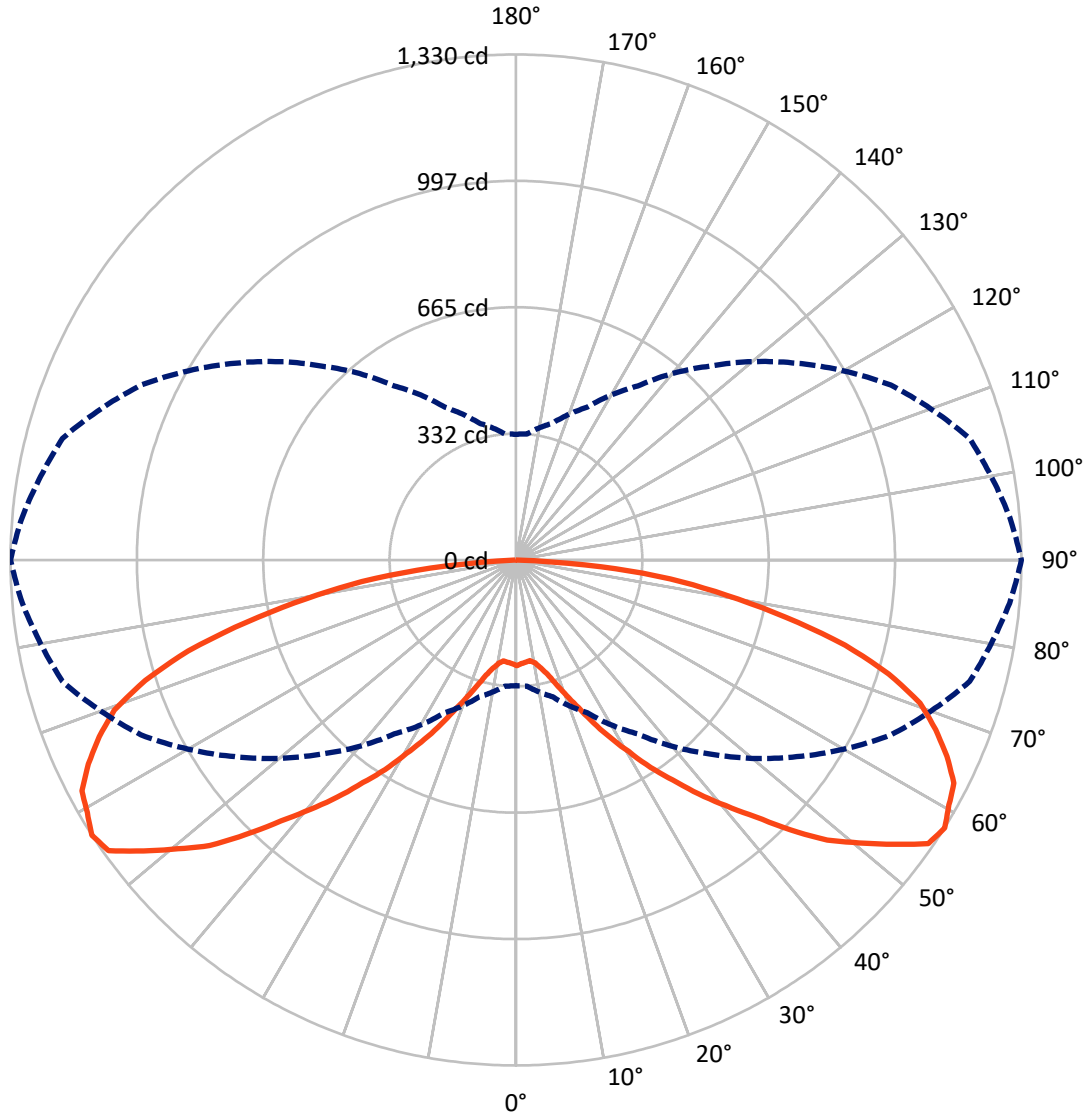
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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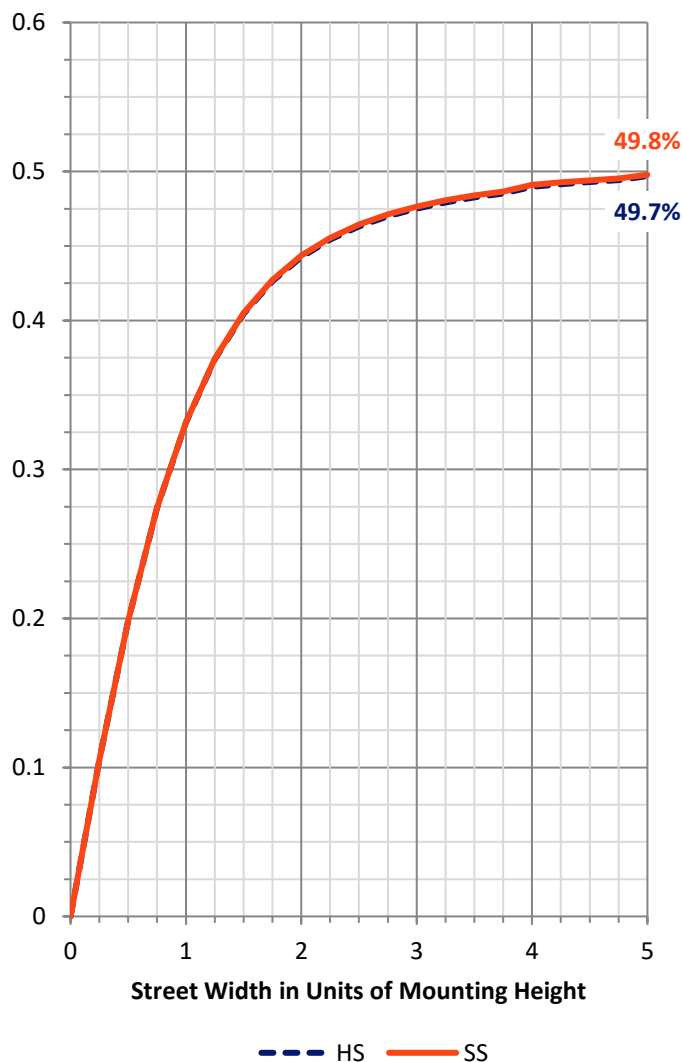
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1554.0	0.0	1554.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1554.0	0.0	1554.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3108.0	0.0	3108.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.1	0.8
10°-20°	83.4	2.7
20°-30°	173.9	5.6
30°-40°	311.9	10.0
40°-50°	498.3	16.0
50°-60°	682.2	22.0
60°-70°	703.7	22.6
70°-80°	500.4	16.1
80°-90°	128.1	4.1
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°	3108.0	100.0
0°-180°	3108.0	100.0

Coefficient of Utilization

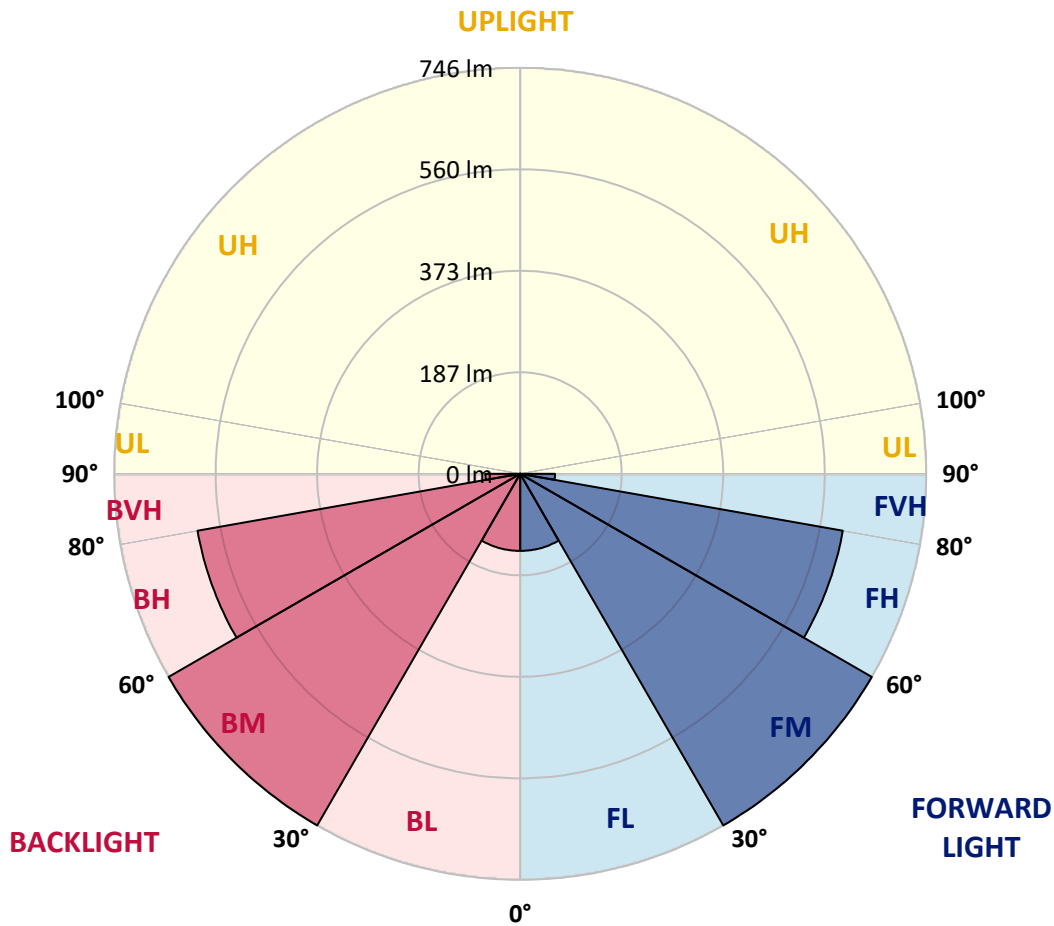


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	141.7	4.6			
FM (30°-60°)	746.2	24.0			
FH (60°-80°)	602.1	19.4			G0/660
FVH (80°-90°)	64.0	2.1			G1/100
BL (0°-30°)	141.7	4.6	B1/500		
BM (30°-60°)	746.2	24.0	B1/1000		
BH (60°-80°)	602.1	19.4	B2/1000		G2/1000
BVH (80°-90°)	64.0	2.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0
2.5°	278.0	278.0	275.4	275.4	275.4	272.8	272.8	272.8	272.8	270.2	272.8
5°	278.0	278.0	278.0	278.0	275.4	272.8	272.8	272.8	270.2	270.2	270.2
7.5°	275.4	275.4	275.4	275.4	272.8	270.2	270.2	270.2	267.5	267.5	267.5
10°	272.8	275.4	272.8	272.8	270.2	270.2	272.8	272.8	275.4	275.4	275.4
12.5°	270.2	270.2	270.2	272.8	272.8	275.4	280.6	285.9	288.5	291.1	291.1
15°	270.2	270.2	272.8	275.4	280.6	285.9	293.8	301.6	306.9	312.1	312.1
17.5°	270.2	270.2	272.8	280.6	288.5	299.0	312.1	322.6	333.1	341.0	343.6
20°	270.2	270.2	275.4	285.9	301.6	317.4	335.7	351.5	367.2	380.3	380.3
22.5°	272.8	275.4	280.6	293.8	317.4	341.0	364.6	388.2	406.5	422.3	422.3
25°	278.0	278.0	285.9	306.9	335.7	367.2	401.3	430.1	453.8	474.7	474.7
27.5°	280.6	283.3	293.8	320.0	356.7	396.1	443.3	477.4	508.8	527.2	529.8
30°	285.9	288.5	304.3	330.5	375.1	424.9	480.0	527.2	561.3	579.7	584.9
32.5°	288.5	291.1	312.1	343.6	393.4	451.1	514.1	574.4	621.6	642.6	650.5
35°	296.4	299.0	320.0	356.7	414.4	480.0	553.4	624.2	679.3	705.5	710.8
37.5°	304.3	306.9	327.9	369.8	435.4	511.5	595.4	676.7	739.6	771.1	781.6
40°	309.5	312.1	335.7	385.6	459.0	545.6	642.6	731.8	802.6	841.9	849.8
42.5°	317.4	320.0	346.2	398.7	480.0	579.7	692.4	792.1	868.2	912.8	923.2
45°	325.2	327.9	356.7	414.4	503.6	616.4	742.3	862.9	949.5	1001.9	1012.4
47.5°	333.1	335.7	367.2	430.1	527.2	653.1	794.7	925.9	1030.8	1080.6	1101.6
50°	335.7	341.0	372.4	440.6	542.9	684.6	839.3	988.8	1099.0	1164.5	1169.8
52.5°	338.3	343.6	377.7	448.5	556.0	708.2	876.0	1041.3	1169.8	1248.5	1243.2
55°	341.0	341.0	377.7	448.5	561.3	723.9	902.3	1075.4	1217.0	1280.0	1316.7
57.5°	330.5	333.1	372.4	443.3	558.7	721.3	902.3	1088.5	1235.4	1303.6	1329.8
60°	317.4	322.6	359.3	430.1	548.2	713.4	897.0	1083.2	1243.2	1316.7	1308.8
62.5°	299.0	309.5	341.0	411.8	532.4	695.1	889.1	1070.1	1224.9	1300.9	1293.1
65°	278.0	288.5	317.4	393.4	498.3	650.5	847.2	1043.9	1175.0	1261.6	1245.9
67.5°	257.0	264.9	293.8	362.0	459.0	603.3	792.1	986.2	1104.2	1198.6	1190.8
70°	233.4	236.1	264.9	325.2	419.7	556.0	739.6	904.9	1041.3	1112.1	1127.8
72.5°	204.6	204.6	233.4	285.9	372.4	493.1	668.8	813.1	941.6	1001.9	1025.5
75°	167.9	170.5	194.1	241.3	312.1	422.3	569.2	716.0	823.6	886.5	894.4
77.5°	131.1	133.8	152.1	191.5	251.8	341.0	469.5	584.9	687.2	742.3	726.5
80°	94.4	97.0	110.2	139.0	186.2	254.4	362.0	464.2	537.7	582.3	561.3
82.5°	57.7	60.3	68.2	86.6	118.0	165.2	246.5	322.6	380.3	417.0	409.2
85°	28.9	28.9	34.1	39.3	49.8	73.4	118.0	162.6	207.2	233.4	225.6
87.5°	5.2	7.9	7.9	7.9	7.9	5.2	7.9	7.9	7.9	13.1	5.2
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)