

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: P823348

Luminaire Tested: **TTN-D1-830-U-MQ**

Issue Date: 4/16/2024

Test Information

Test Method: LM-79-08
Report Number: P823348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-254-8)
Test Lab: INNOVATION CENTER
Issue Date: 4/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TTN-D1-830-U-MQ
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE
3000K, 80 CRI LEDS AND MEDIUM DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3158 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

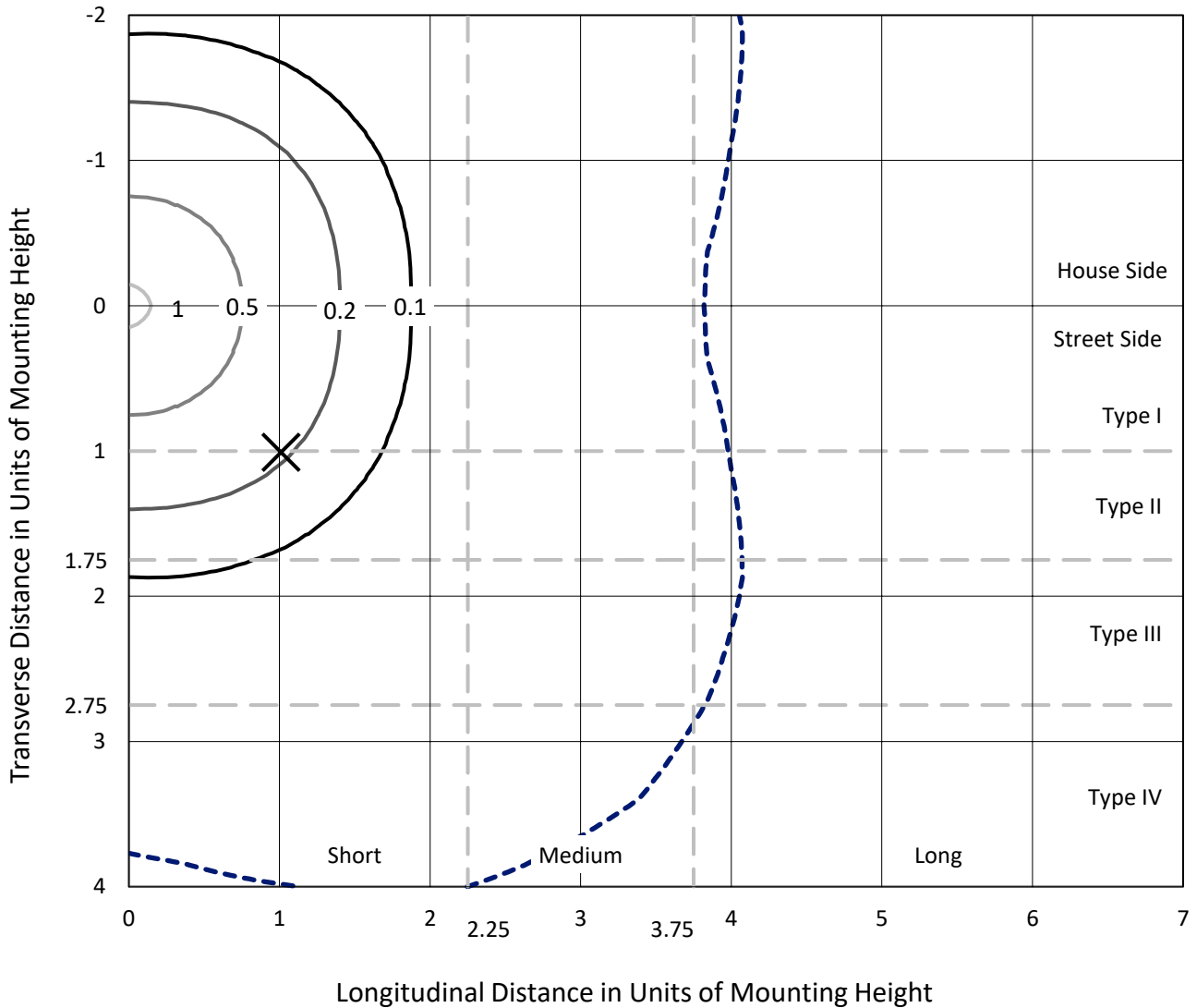
Input Watts (W): 26.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: TTN-D1-830-U-MQ

Iso-Footcandle Lines of Horizontal Illumination

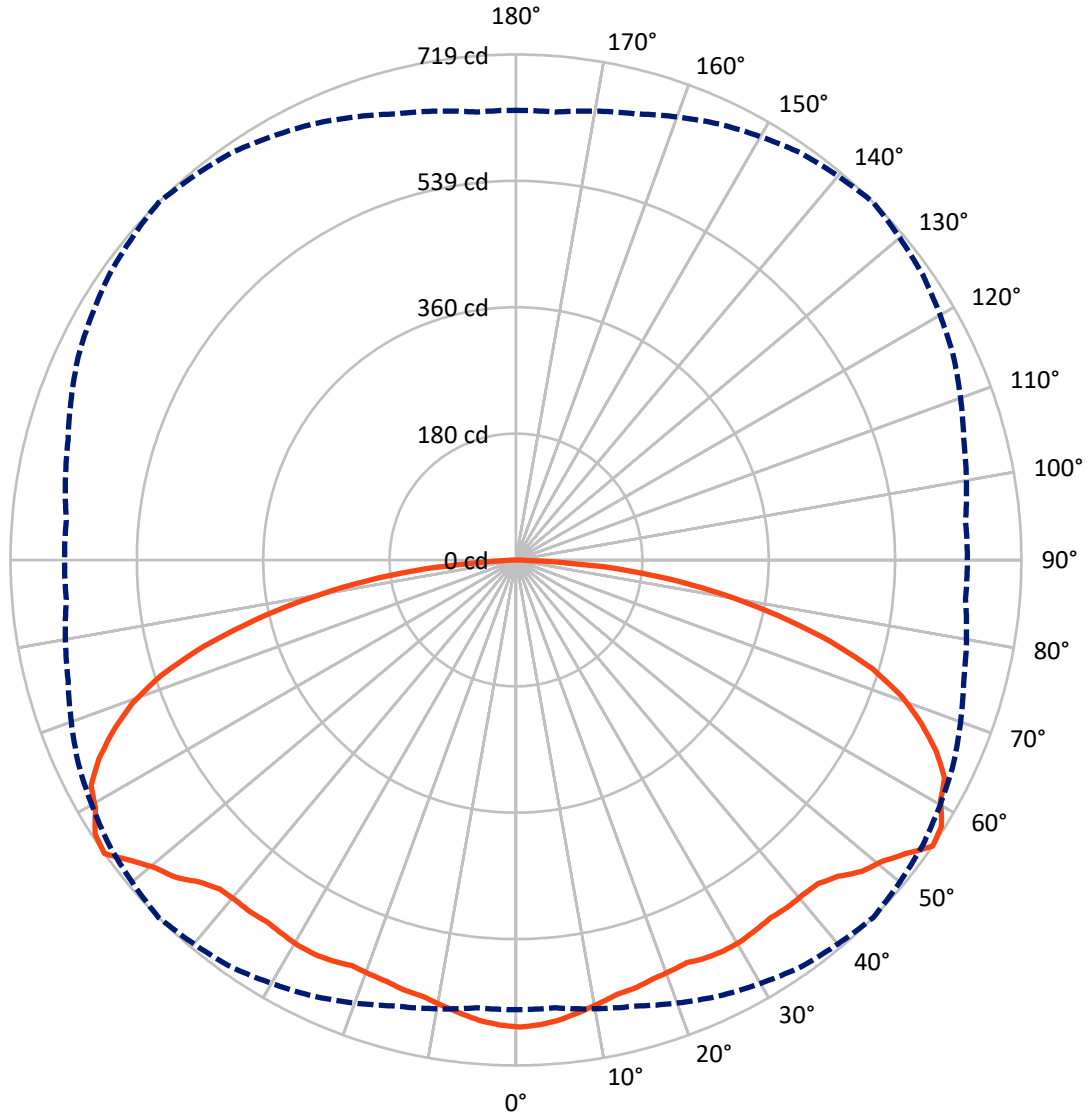
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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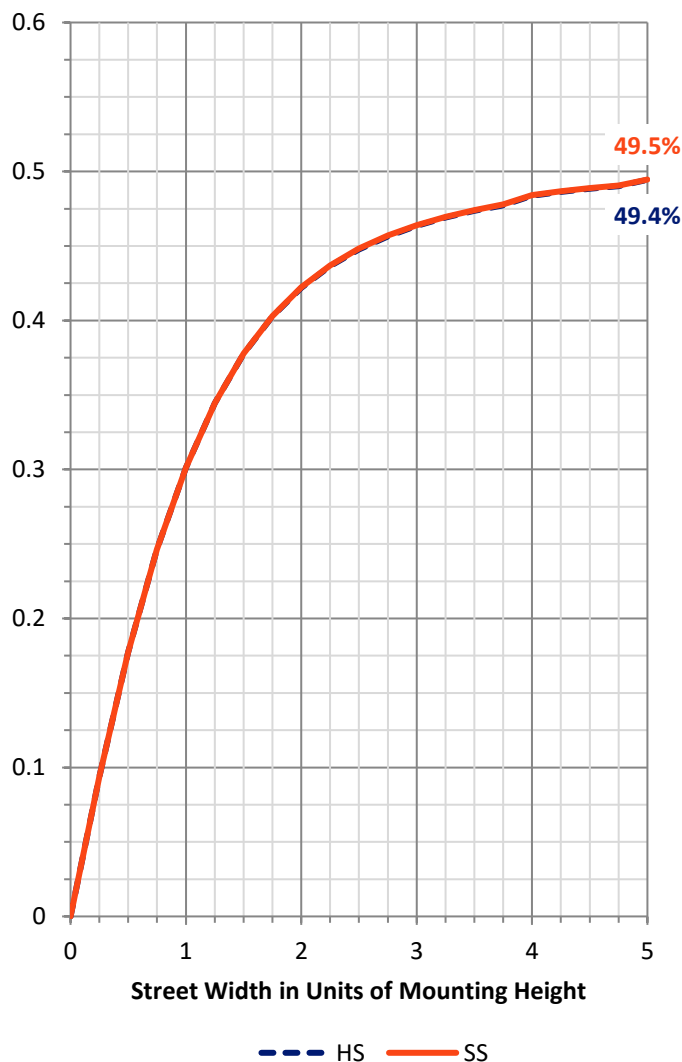
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1579.0	0.0	1579.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1579.0	0.0	1579.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3158.0	0.0	3158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.2	2.0
10°-20°	178.5	5.7
20°-30°	288.6	9.1
30°-40°	390.5	12.4
40°-50°	489.1	15.5
50°-60°	599.3	19.0
60°-70°	600.8	19.0
70°-80°	433.5	13.7
80°-90°	115.6	3.7
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°	3158.0	100.0
0°-180°	3158.0	100.0

Coefficient of Utilization

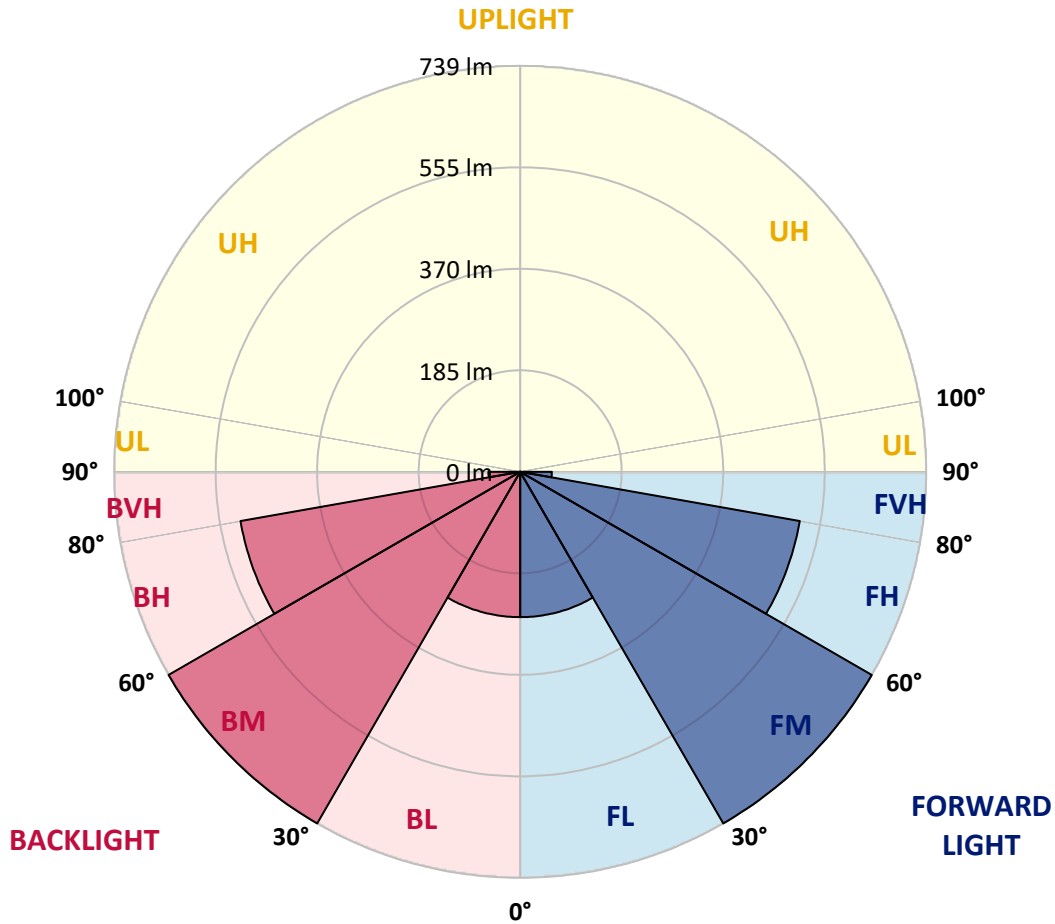


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	264.6	8.4			
FM (30°-60°)	739.4	23.4			
FH (60°-80°)	517.2	16.4			G0/660
FVH (80°-90°)	57.8	1.8			G1/100
BL (0°-30°)	264.6	8.4	B1/500		
BM (30°-60°)	739.4	23.4	B1/1000		
BH (60°-80°)	517.2	16.4	B2/1000		G0/660
BVH (80°-90°)	57.8	1.8			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°	664.4	664.4	664.4	664.4	664.4	664.4	664.4	664.4	664.4	664.4	664.4
2.5°	661.9	661.9	661.9	659.5	661.9	661.9	661.9	661.9	661.9	661.9	661.9
5°	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0
7.5°	649.5	649.5	649.5	649.5	649.5	649.5	649.5	649.5	649.5	649.5	649.5
10°	639.6	639.6	639.6	639.6	642.1	642.1	642.1	642.1	639.6	639.6	639.6
12.5°	632.2	632.2	632.2	634.7	634.7	634.7	634.7	634.7	634.7	634.7	632.2
15°	629.7	629.7	629.7	629.7	632.2	632.2	632.2	632.2	629.7	629.7	629.7
17.5°	624.8	624.8	624.8	627.2	627.2	627.2	627.2	627.2	624.8	624.8	624.8
20°	619.8	619.8	622.3	622.3	624.8	624.8	624.8	622.3	622.3	619.8	622.3
22.5°	619.8	619.8	619.8	622.3	622.3	622.3	622.3	619.8	619.8	619.8	619.8
25°	619.8	619.8	622.3	624.8	624.8	627.2	624.8	622.3	619.8	619.8	619.8
27.5°	622.3	622.3	624.8	627.2	627.2	629.7	627.2	624.8	622.3	622.3	622.3
30°	622.3	622.3	624.8	627.2	627.2	629.7	627.2	624.8	622.3	622.3	622.3
32.5°	617.3	619.8	622.3	624.8	627.2	627.2	627.2	624.8	622.3	619.8	619.8
35°	614.8	617.3	619.8	622.3	624.8	624.8	624.8	622.3	619.8	617.3	617.3
37.5°	612.4	612.4	617.3	619.8	622.3	627.2	624.8	619.8	617.3	614.8	614.8
40°	609.9	612.4	614.8	619.8	622.3	627.2	624.8	619.8	614.8	612.4	612.4
42.5°	609.9	609.9	614.8	619.8	624.8	629.7	627.2	622.3	614.8	612.4	609.9
45°	612.4	614.8	622.3	632.2	637.1	642.1	639.6	632.2	619.8	614.8	612.4
47.5°	622.3	624.8	632.2	642.1	654.5	661.9	654.5	642.1	632.2	624.8	622.3
50°	627.2	629.7	642.1	654.5	671.9	674.3	671.9	654.5	642.1	629.7	629.7
52.5°	637.1	637.1	652.0	674.3	689.2	694.2	689.2	676.8	652.0	639.6	637.1
55°	639.6	639.6	657.0	684.3	706.6	719.0	706.6	686.7	659.5	642.1	642.1
57.5°	624.8	629.7	652.0	679.3	706.6	714.0	706.6	681.8	654.5	632.2	629.7
60°	607.4	614.8	634.7	666.9	686.7	694.2	689.2	666.9	637.1	614.8	612.4
62.5°	590.0	600.0	622.3	647.1	676.8	684.3	676.8	647.1	622.3	600.0	590.0
65°	552.9	562.8	595.0	624.8	652.0	657.0	654.5	624.8	595.0	562.8	557.8
67.5°	515.7	523.1	545.4	592.5	614.8	622.3	617.3	590.0	547.9	523.1	520.6
70°	476.0	483.4	503.3	547.9	570.2	582.6	572.7	547.9	503.3	483.4	481.0
72.5°	423.9	433.9	456.2	495.8	518.1	530.5	520.6	495.8	456.2	431.4	426.4
75°	362.0	369.4	396.7	428.9	451.2	461.1	453.7	431.4	396.7	369.4	366.9
77.5°	295.0	302.5	327.3	359.5	371.9	381.8	374.4	357.0	327.3	302.5	300.0
80°	223.1	230.6	252.9	277.7	290.1	300.0	292.5	275.2	252.9	230.6	228.1
82.5°	146.3	153.7	173.5	193.4	205.8	215.7	208.3	190.9	176.0	153.7	151.2
85°	62.0	69.4	86.8	106.6	116.5	126.4	119.0	104.1	86.8	71.9	69.4
87.5°	5.0	7.4	7.4	9.9	7.4	12.4	7.4	7.4	7.4	7.4	7.4
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)