

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: P832589

Luminaire Tested: **TTN-D1-830-U-WQ-CG**

Issue Date: 5/14/2024

Test Information

Test Method: LM-79-08
Report Number: P832589
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-D1-830-U-WQ-CG
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE
3000K, 80 CRI LEDS AND WIDE DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2860 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

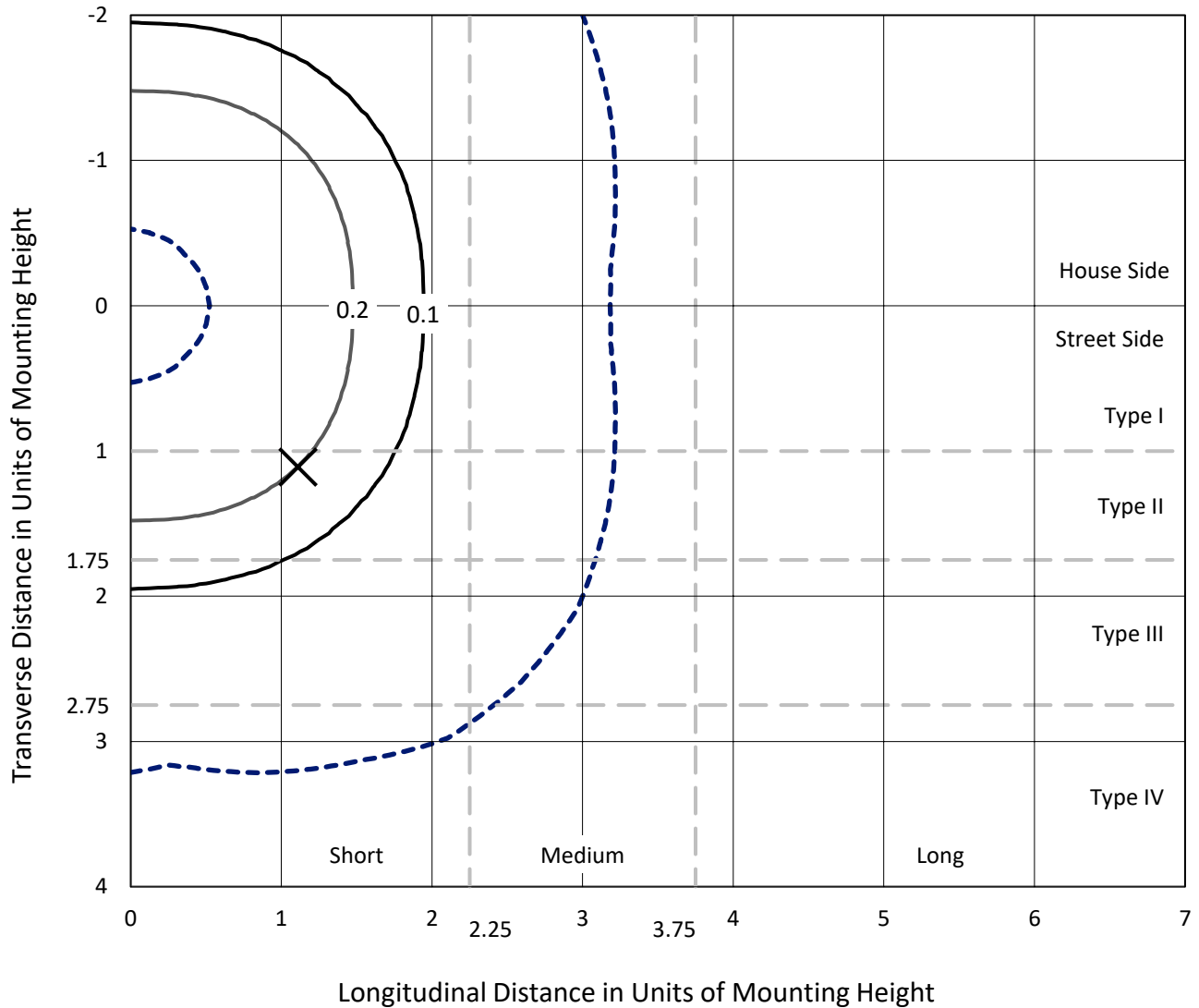
Input Watts (W): 26.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

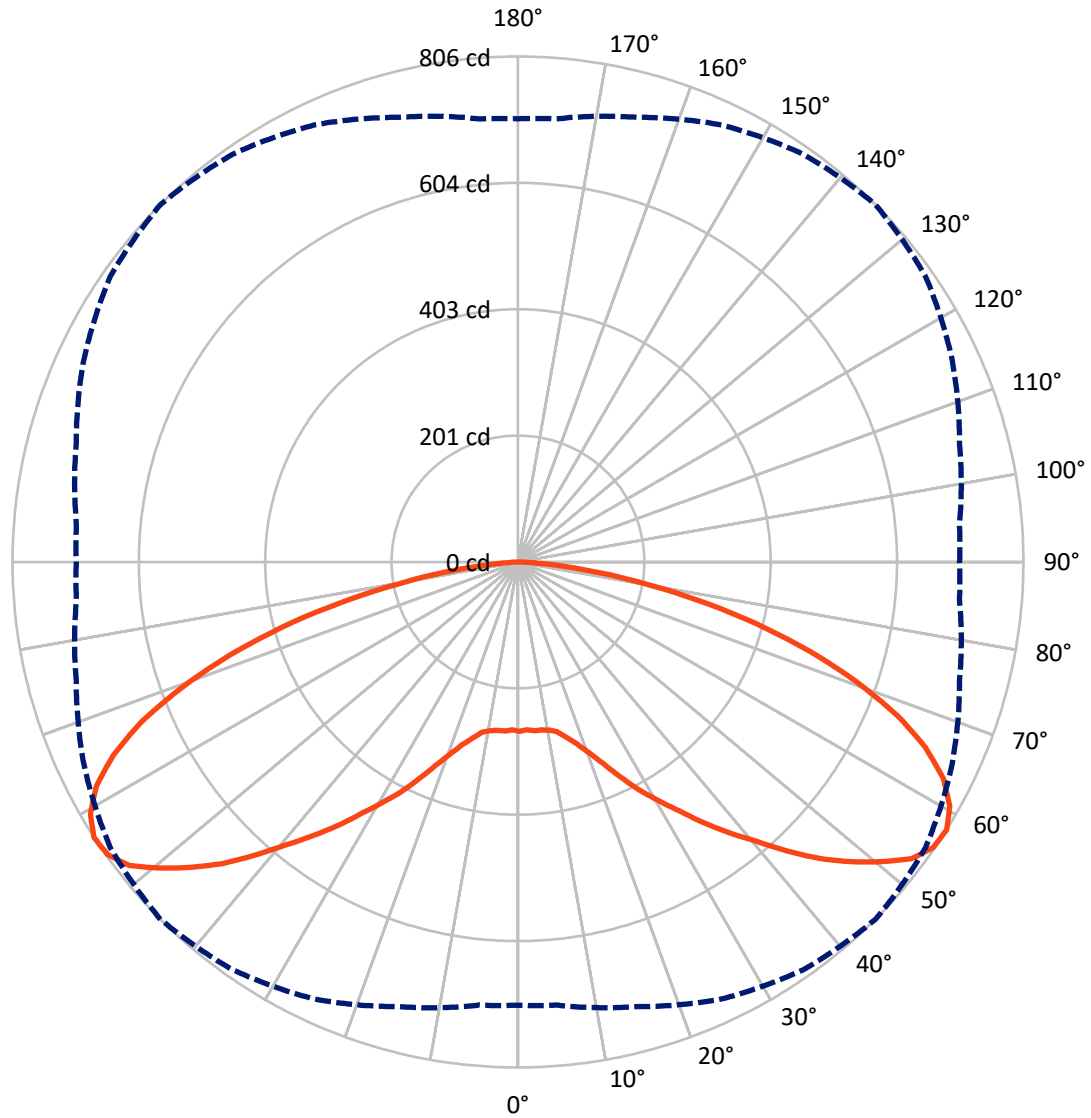
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 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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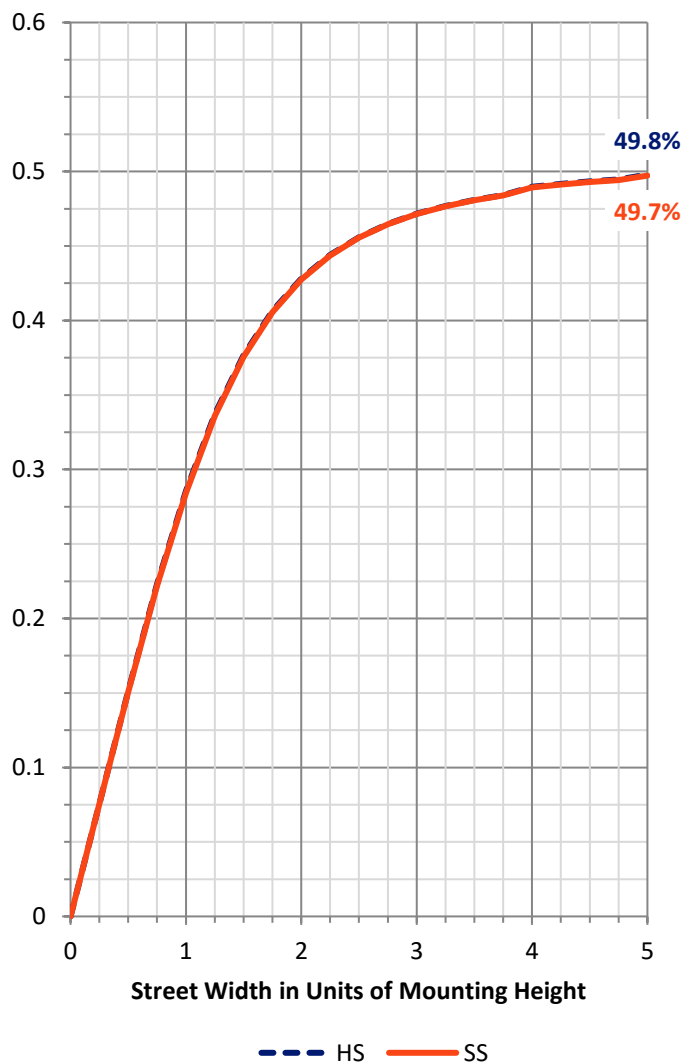
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1430.0	0.0	1430.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1430.0	0.0	1430.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	2860.0	0.0	2860.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.8	0.9
10°-20°	83.3	2.9
20°-30°	175.3	6.1
30°-40°	316.0	11.0
40°-50°	502.3	17.6
50°-60°	670.1	23.4
60°-70°	647.5	22.6
70°-80°	375.2	13.1
80°-90°	64.7	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°	2860.0	100.0
0°-180°	2860.0	100.0

Coefficient of Utilization



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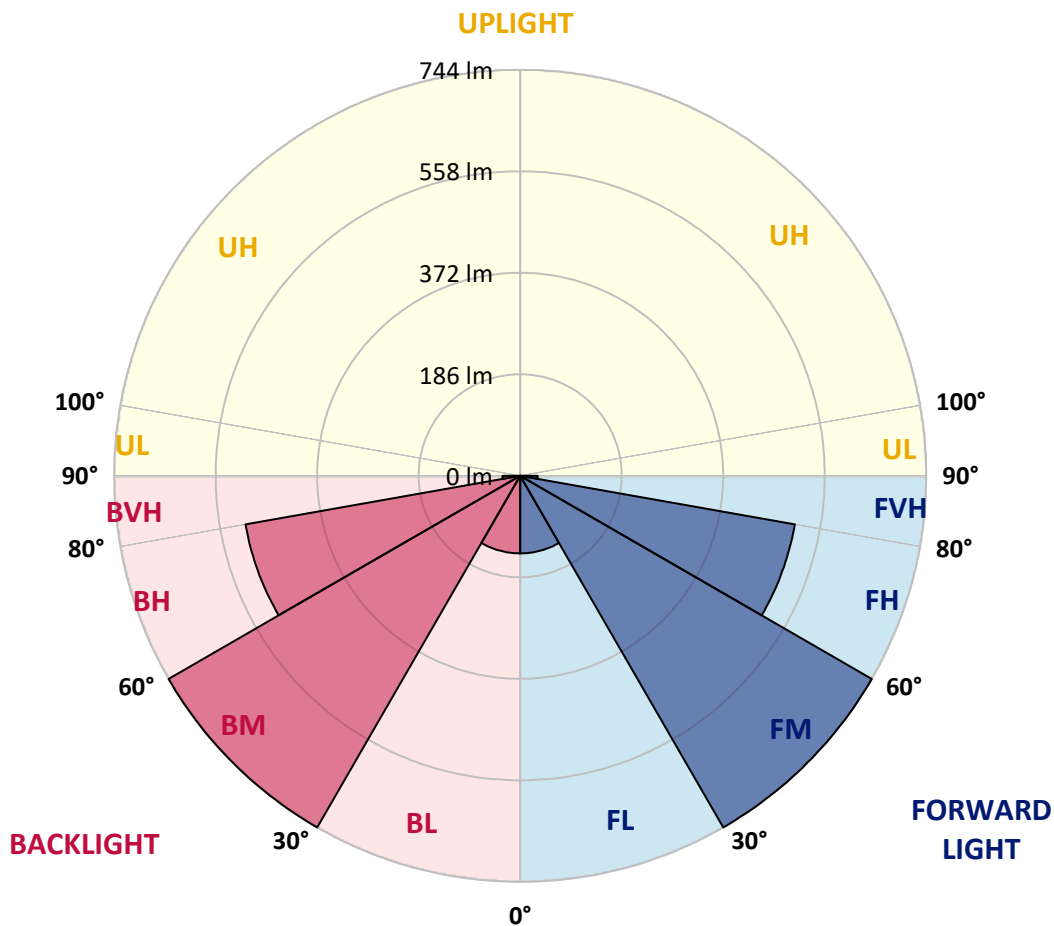
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	142.2	5.0			
FM (30°-60°)	744.2	26.0			
FH (60°-80°)	511.3	17.9			G0/660
FVH (80°-90°)	32.3	1.1			G1/100
BL (0°-30°)	142.2	5.0	B1/500		
BM (30°-60°)	744.2	26.0	B1/1000		
BH (60°-80°)	511.3	17.9	B2/1000		G0/660
BVH (80°-90°)	32.3	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°	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2
2.5°	267.7	267.7	267.7	267.7	267.7	267.7	267.7	267.7	267.7	267.7	267.7
5°	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2
7.5°	267.7	267.7	270.2	270.2	270.2	270.2	270.2	270.2	270.2	267.7	267.7
10°	270.2	270.2	270.2	272.7	272.7	272.7	272.7	272.7	270.2	270.2	270.2
12.5°	275.1	275.1	277.6	277.6	277.6	277.6	277.6	277.6	277.6	275.1	275.1
15°	287.5	287.5	287.5	290.0	290.0	290.0	290.0	290.0	287.5	287.5	287.5
17.5°	299.9	299.9	302.4	302.4	304.9	304.9	304.9	302.4	302.4	302.4	302.4
20°	317.3	317.3	319.8	319.8	322.2	324.7	324.7	322.2	319.8	319.8	319.8
22.5°	339.6	342.1	342.1	342.1	344.5	349.5	347.0	344.5	342.1	342.1	342.1
25°	366.8	369.3	371.8	371.8	374.3	379.2	379.2	371.8	371.8	371.8	371.8
27.5°	399.1	401.5	404.0	404.0	406.5	411.5	409.0	404.0	404.0	401.5	401.5
30°	428.8	431.3	433.8	436.2	438.7	441.2	441.2	436.2	433.8	431.3	428.8
32.5°	458.6	458.6	463.5	468.5	473.4	473.4	475.9	468.5	463.5	458.6	456.1
35°	488.3	490.8	493.3	500.7	508.1	510.6	508.1	500.7	493.3	488.3	488.3
37.5°	520.5	523.0	525.5	535.4	542.8	547.8	542.8	535.4	525.5	520.5	518.0
40°	555.2	557.7	560.2	572.6	580.0	585.0	577.5	570.1	560.2	555.2	552.7
42.5°	587.4	592.4	597.4	612.2	624.6	629.6	622.1	609.8	599.8	587.4	585.0
45°	627.1	632.1	639.5	654.4	666.8	674.2	664.3	651.9	637.0	627.1	624.6
47.5°	659.3	664.3	671.7	691.6	708.9	713.9	703.9	689.1	669.2	656.9	654.4
50°	684.1	689.1	703.9	726.3	746.1	751.0	741.1	721.3	699.0	681.6	679.2
52.5°	703.9	708.9	726.3	756.0	778.3	785.7	773.3	751.0	721.3	701.5	699.0
55°	713.9	716.3	738.6	770.9	793.2	803.1	790.7	765.9	733.7	711.4	708.9
57.5°	706.4	708.9	733.7	768.4	793.2	805.6	793.2	763.4	728.7	706.4	703.9
60°	691.6	691.6	713.9	753.5	783.3	790.7	778.3	748.6	711.4	689.1	686.6
62.5°	664.3	661.8	689.1	723.8	753.5	761.0	751.0	721.3	684.1	661.8	659.3
65°	612.2	607.3	646.9	679.2	706.4	713.9	706.4	679.2	644.5	609.8	604.8
67.5°	550.3	542.8	580.0	617.2	642.0	651.9	642.0	619.7	580.0	545.3	542.8
70°	485.8	478.4	508.1	540.4	567.6	572.6	562.7	540.4	503.2	480.9	480.9
72.5°	409.0	401.5	428.8	453.6	480.9	485.8	475.9	456.1	428.8	406.5	404.0
75°	324.7	317.3	342.1	361.9	389.2	391.6	386.7	364.4	342.1	319.8	319.8
77.5°	240.4	233.0	252.8	270.2	292.5	292.5	290.0	272.7	252.8	238.0	238.0
80°	158.6	153.7	171.0	178.5	198.3	198.3	195.8	183.4	168.6	158.6	156.2
82.5°	89.2	84.3	99.1	101.6	116.5	116.5	114.0	104.1	94.2	86.8	86.8
85°	34.7	29.7	39.7	42.1	49.6	49.6	47.1	44.6	37.2	32.2	32.2
87.5°	2.5	2.5	5.0	5.0	7.4	7.4	7.4	5.0	5.0	2.5	2.5
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)