

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: P832590

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

Issue Date: 5/14/2024

Test Information

Test Method: LM-79-08
Report Number: P832590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-254-16)
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-SG
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE
3000K, 80 CRI LEDS AND WIDE DISTRIBUTION WITH SOLITE GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2803 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type V - Short
BUG Rating: B1 - U0 - G1

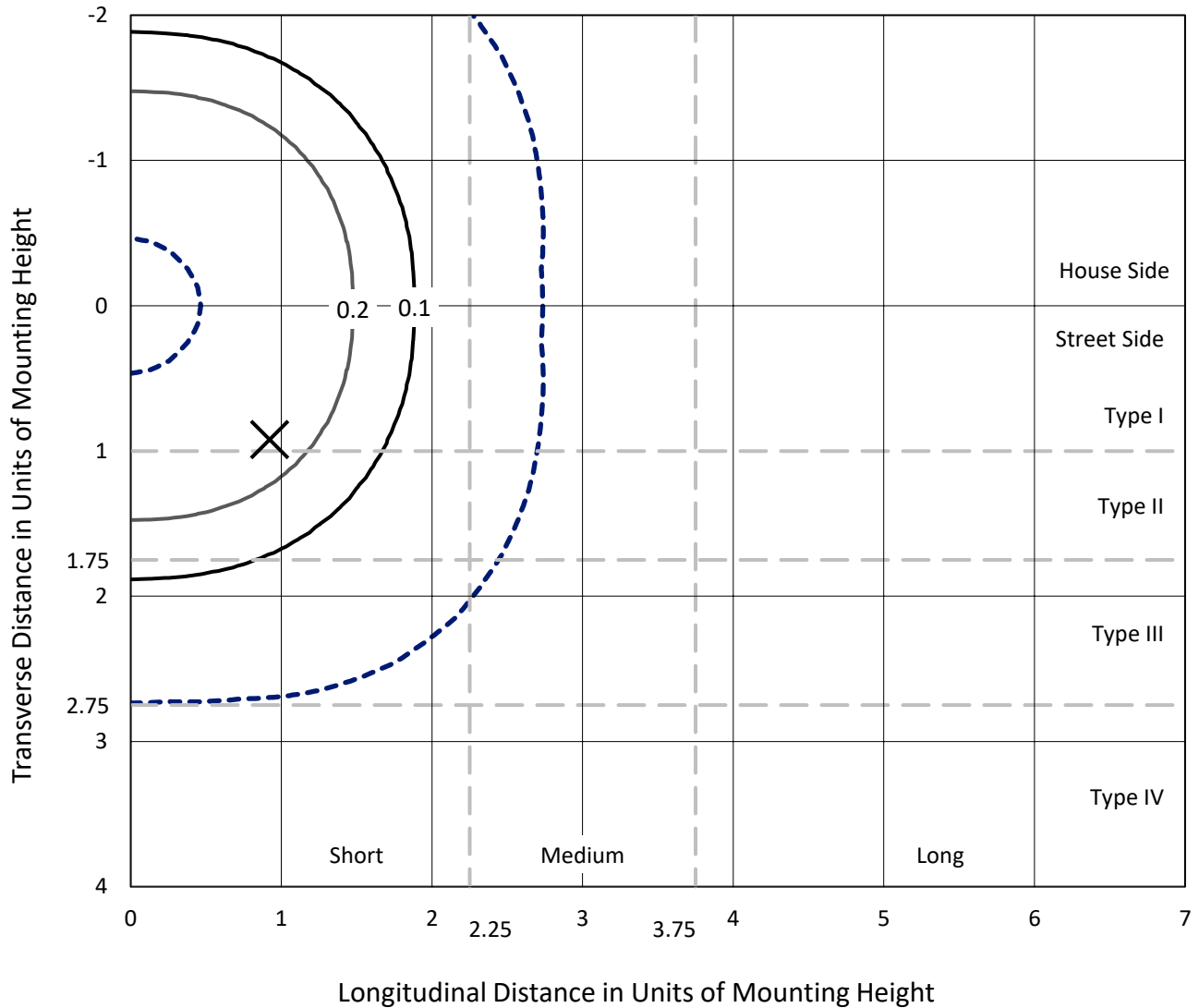
Input Watts (W): 26.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P832590
 CATALOG NUMBER: TTN-D1-830-U-WQ-SG

Iso-Footcandle Lines of Horizontal Illumination

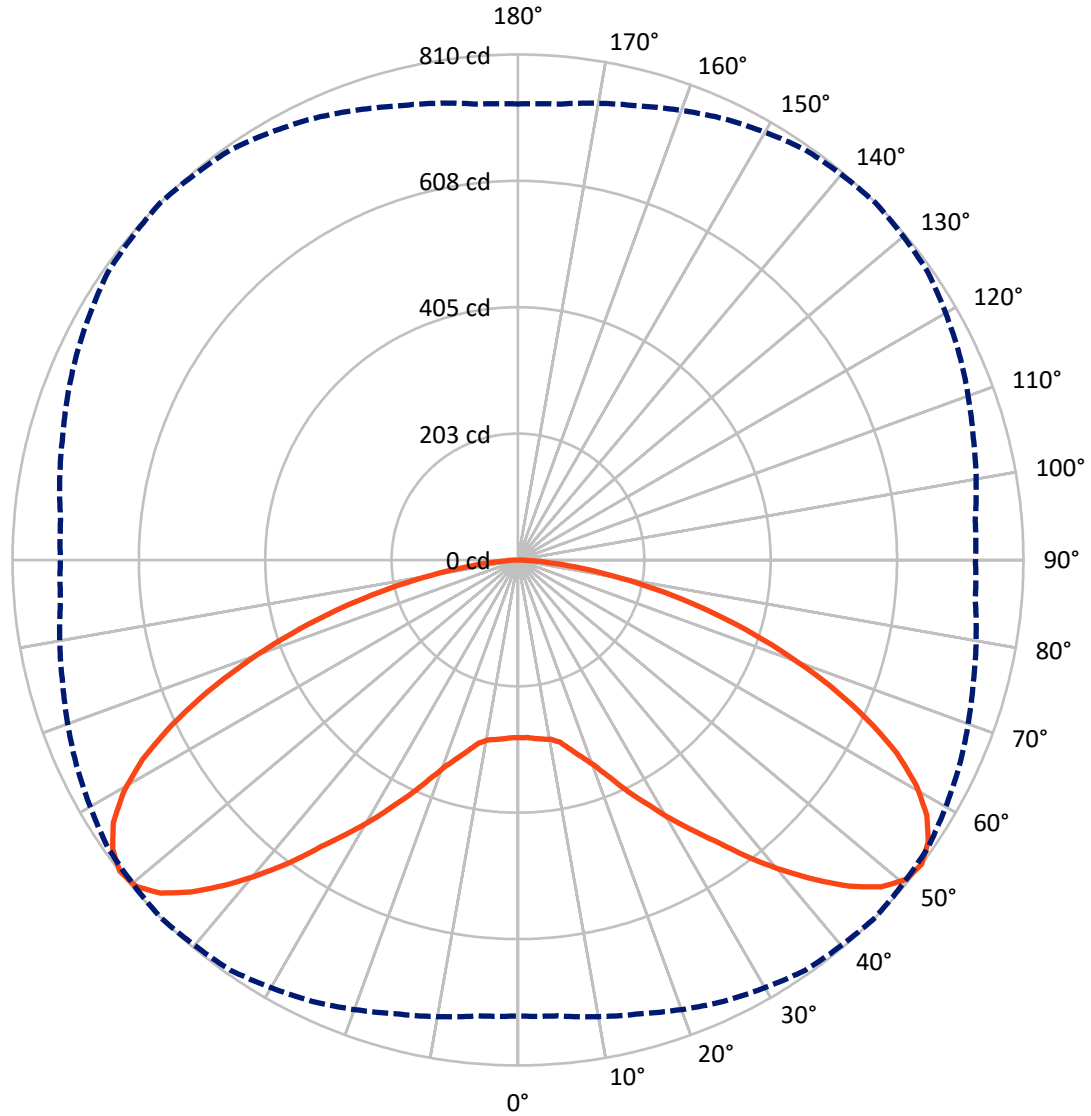
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
 Type V - Short - N/A

REPORT NUMBER: P832590
CATALOG NUMBER: TTN-D1-830-U-WQ-SG

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P832590

CATALOG NUMBER: TTN-D1-830-U-WQ-SG

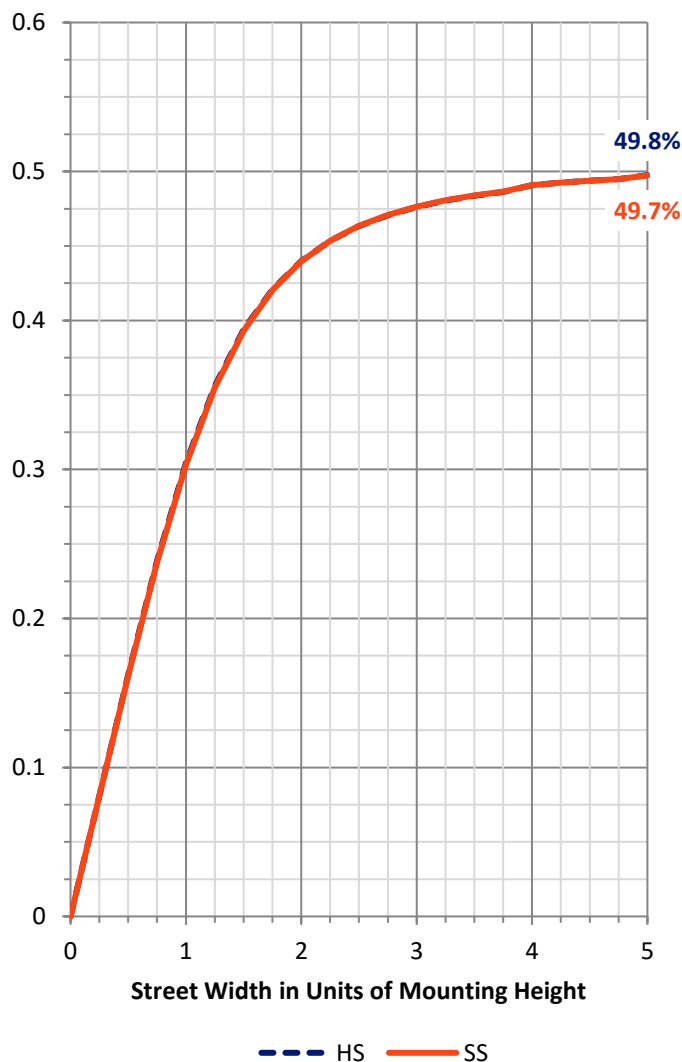
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1401.5	0.0	1401.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1401.5	0.0	1401.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	2803.0	0.0	2803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.5	1.0
10°-20°	90.5	3.2
20°-30°	190.9	6.8
30°-40°	348.7	12.4
40°-50°	555.2	19.8
50°-60°	671.3	23.9
60°-70°	564.4	20.1
70°-80°	299.2	10.7
80°-90°	55.4	2.0
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°	2803.0	100.0
0°-180°	2803.0	100.0

Coefficient of Utilization



REPORT NUMBER: P832590

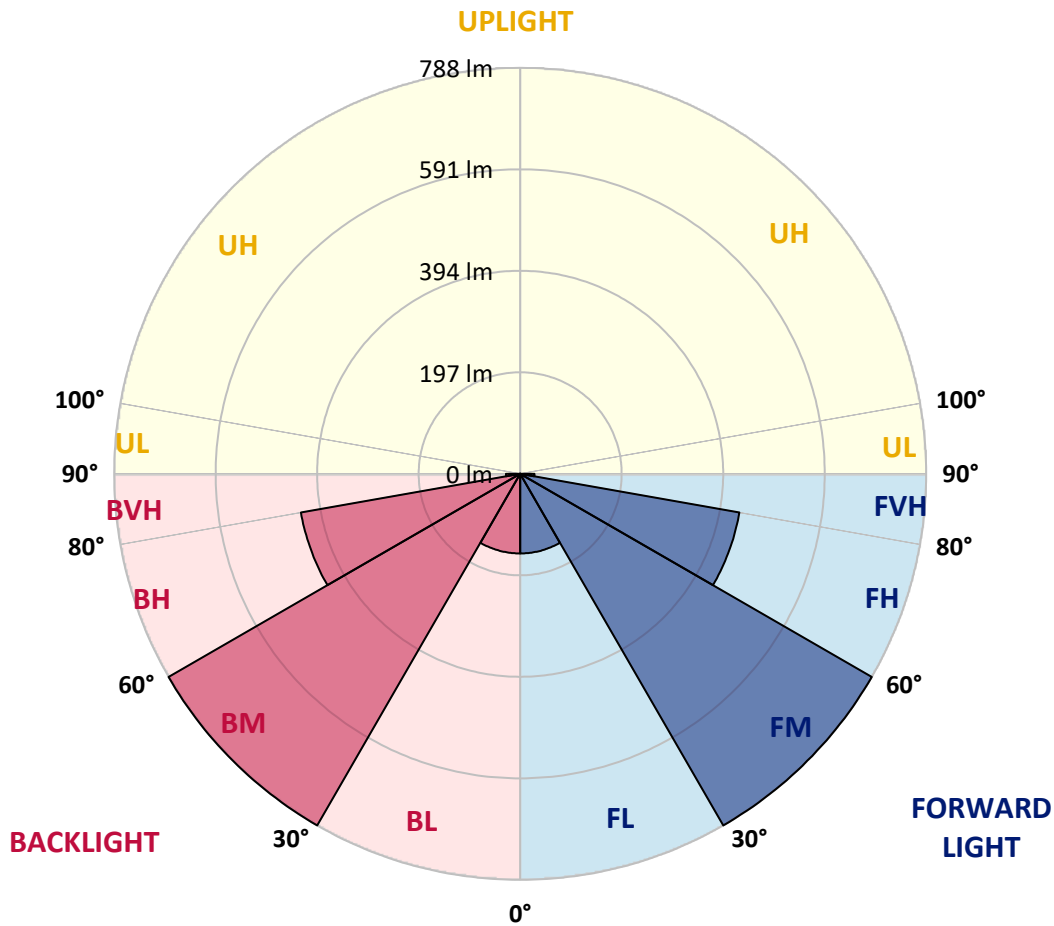
CATALOG NUMBER: TTN-D1-830-U-WQ-SG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	154.4	5.5			
FM (30°-60°)	787.6	28.1			
FH (60°-80°)	431.8	15.4			G0/660
FVH (80°-90°)	27.7	1.0			G1/100
BL (0°-30°)	154.4	5.5	B1/500		
BM (30°-60°)	787.6	28.1	B1/1000		
BH (60°-80°)	431.8	15.4	B1/500		G0/660
BVH (80°-90°)	27.7	1.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type V Short





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 CATALOG NUMBER: TTN-D1-830-U-WQ-SG

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0
2.5°	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0
5°	287.5	287.5	285.0	287.5	287.5	287.5	287.5	287.5	287.5	287.5	287.5
7.5°	287.5	287.5	287.5	289.9	289.9	289.9	289.9	287.5	287.5	287.5	287.5
10°	292.4	292.4	292.4	292.4	292.4	292.4	292.4	292.4	292.4	292.4	292.4
12.5°	299.8	299.8	299.8	299.8	299.8	299.8	299.8	299.8	299.8	299.8	299.8
15°	312.2	312.2	312.2	312.2	314.7	314.7	314.7	312.2	312.2	312.2	312.2
17.5°	327.1	327.1	329.6	329.6	332.1	332.1	332.1	329.6	327.1	329.6	327.1
20°	349.4	349.4	349.4	351.9	354.4	354.4	354.4	349.4	349.4	349.4	349.4
22.5°	374.2	374.2	374.2	376.7	379.1	379.1	379.1	374.2	374.2	374.2	374.2
25°	403.9	403.9	403.9	406.4	408.9	411.4	411.4	406.4	403.9	403.9	401.4
27.5°	433.7	433.7	438.6	441.1	443.6	443.6	443.6	438.6	436.1	436.1	436.1
30°	468.3	468.3	473.3	475.8	480.7	480.7	480.7	473.3	470.8	468.3	468.3
32.5°	500.6	503.0	508.0	513.0	517.9	517.9	520.4	510.5	505.5	503.0	503.0
35°	535.3	537.7	542.7	550.1	555.1	557.6	560.0	550.1	542.7	540.2	540.2
37.5°	574.9	577.4	584.8	592.2	602.2	607.1	609.6	594.7	582.3	577.4	577.4
40°	619.5	622.0	629.4	639.3	649.2	654.2	656.7	641.8	629.4	624.5	622.0
42.5°	656.7	661.6	669.1	683.9	693.8	701.3	701.3	683.9	669.1	661.6	661.6
45°	691.4	696.3	708.7	723.6	738.5	745.9	743.4	726.1	708.7	698.8	696.3
47.5°	718.6	723.6	738.5	755.8	775.6	783.1	780.6	760.8	738.5	726.1	723.6
50°	733.5	736.0	753.3	778.1	797.9	805.4	800.4	780.6	755.8	738.5	736.0
52.5°	731.0	733.5	753.3	780.6	802.9	810.3	802.9	780.6	755.8	736.0	733.5
55°	716.2	718.6	738.5	768.2	790.5	797.9	790.5	768.2	740.9	721.1	718.6
57.5°	688.9	691.4	711.2	740.9	765.7	773.1	763.2	738.5	711.2	691.4	691.4
60°	649.2	651.7	671.5	703.8	726.1	733.5	721.1	701.3	674.0	651.7	649.2
62.5°	597.2	597.2	619.5	651.7	671.5	681.5	669.1	646.8	622.0	597.2	599.7
65°	535.3	532.8	555.1	584.8	607.1	614.6	602.2	582.3	557.6	535.3	535.3
67.5°	470.8	470.8	488.2	513.0	532.8	540.2	527.8	510.5	490.7	470.8	470.8
70°	401.4	401.4	413.8	438.6	456.0	460.9	453.5	436.1	418.8	401.4	401.4
72.5°	332.1	329.6	342.0	361.8	376.7	381.6	374.2	364.3	344.4	332.1	332.1
75°	262.7	260.2	267.6	285.0	297.4	302.3	294.9	287.5	272.6	262.7	262.7
77.5°	195.8	193.3	200.7	215.6	223.0	225.5	220.5	215.6	203.2	195.8	195.8
80°	133.8	131.3	136.3	146.2	153.6	153.6	151.2	148.7	138.8	133.8	136.3
82.5°	79.3	76.8	81.8	89.2	94.2	91.7	91.7	89.2	81.8	79.3	79.3
85°	34.7	32.2	34.7	39.6	44.6	42.1	42.1	42.1	37.2	34.7	34.7
87.5°	5.0	5.0	5.0	7.4	9.9	7.4	7.4	7.4	5.0	5.0	5.0
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)