

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: P823289

Luminaire Tested: **TTN-D0-830-U-RW**

Issue Date: 4/16/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P823289  
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-D0-830-U-RW  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE  
3000K, 80 CRI LEDS AND RECTANGULAR DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

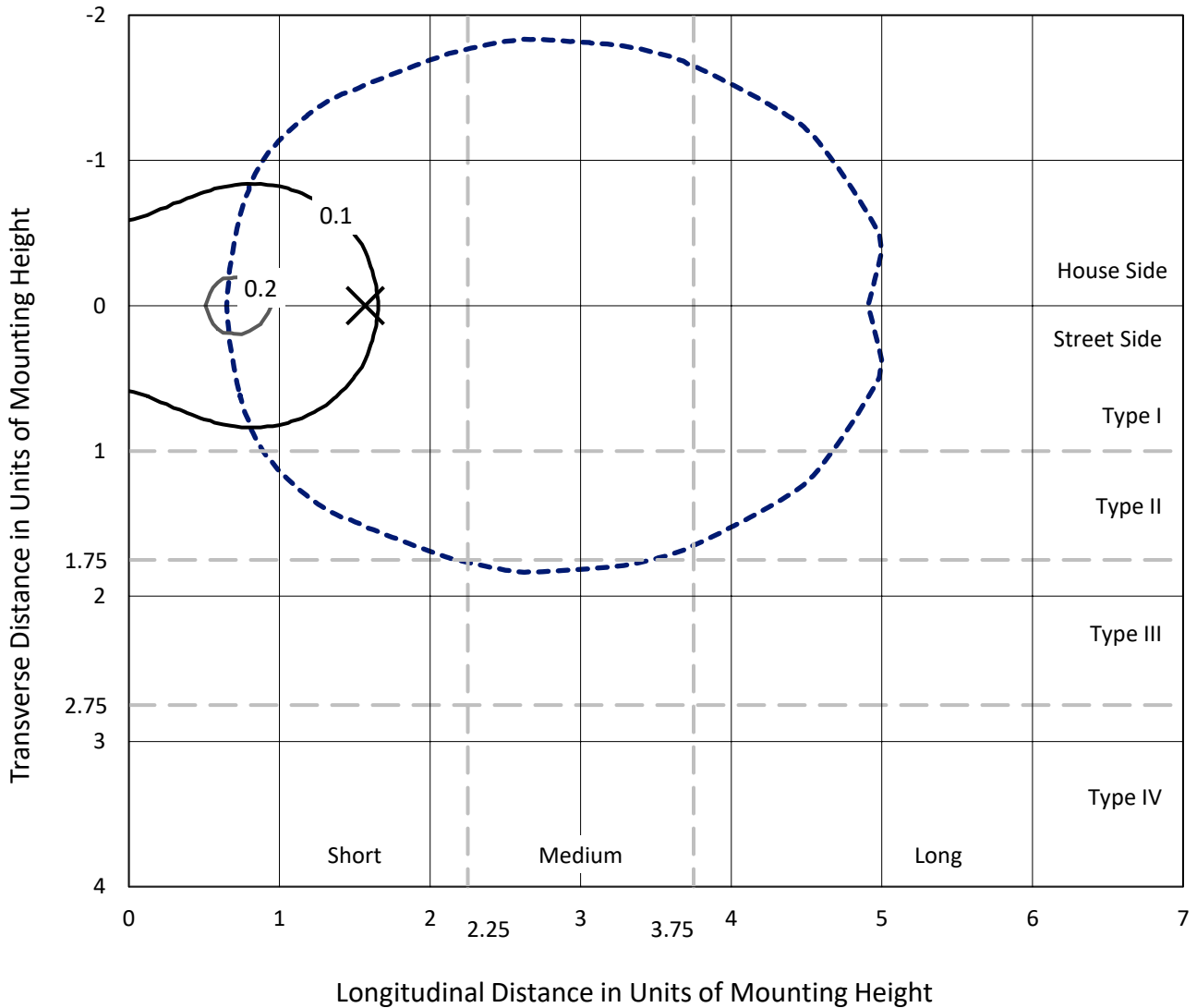
Lumens per Lamp: N/A  
Luminaire Lumens: 1062 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Luminous Opening: Circular (Dia: 0.71' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 10.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

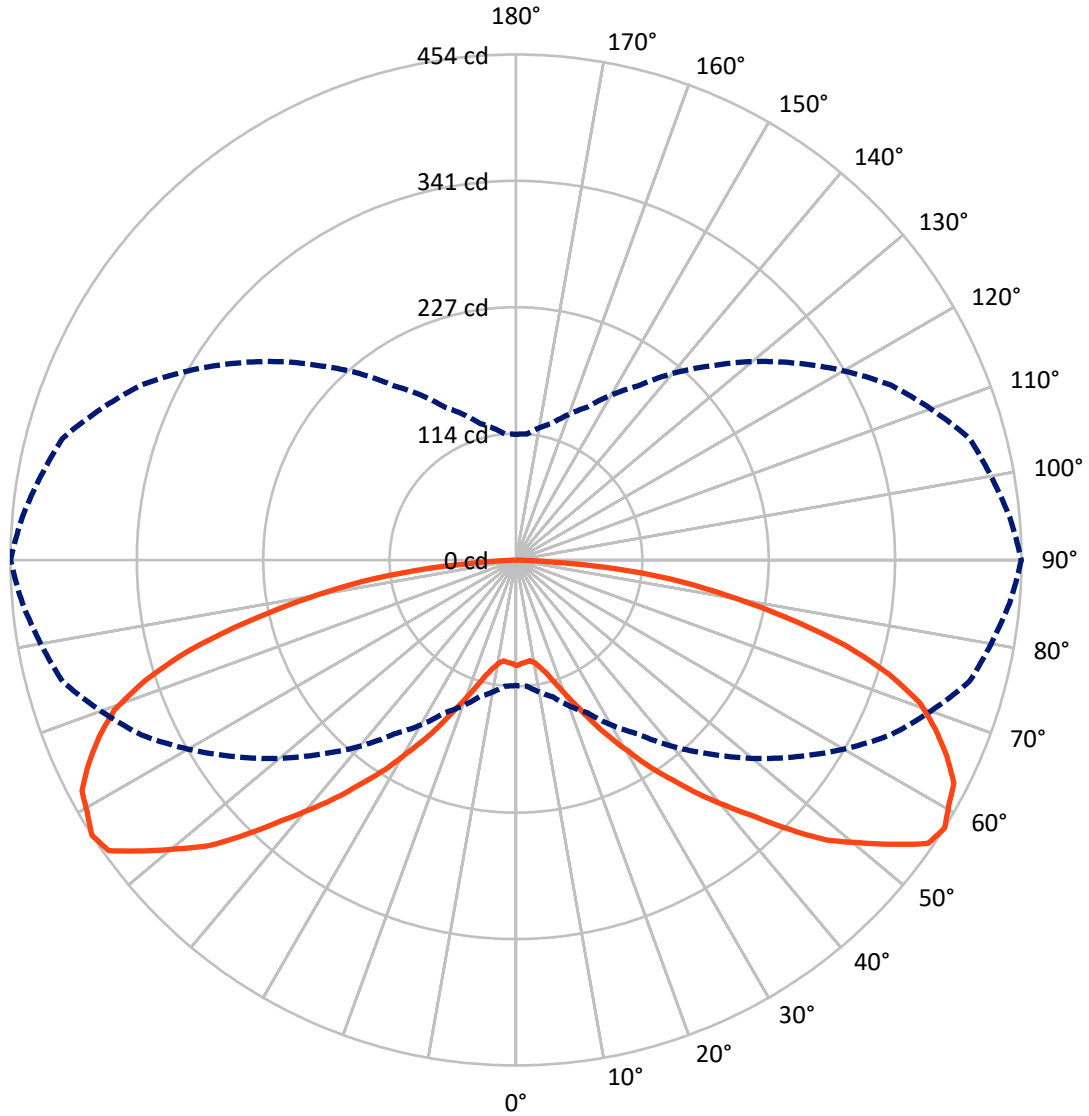
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.2 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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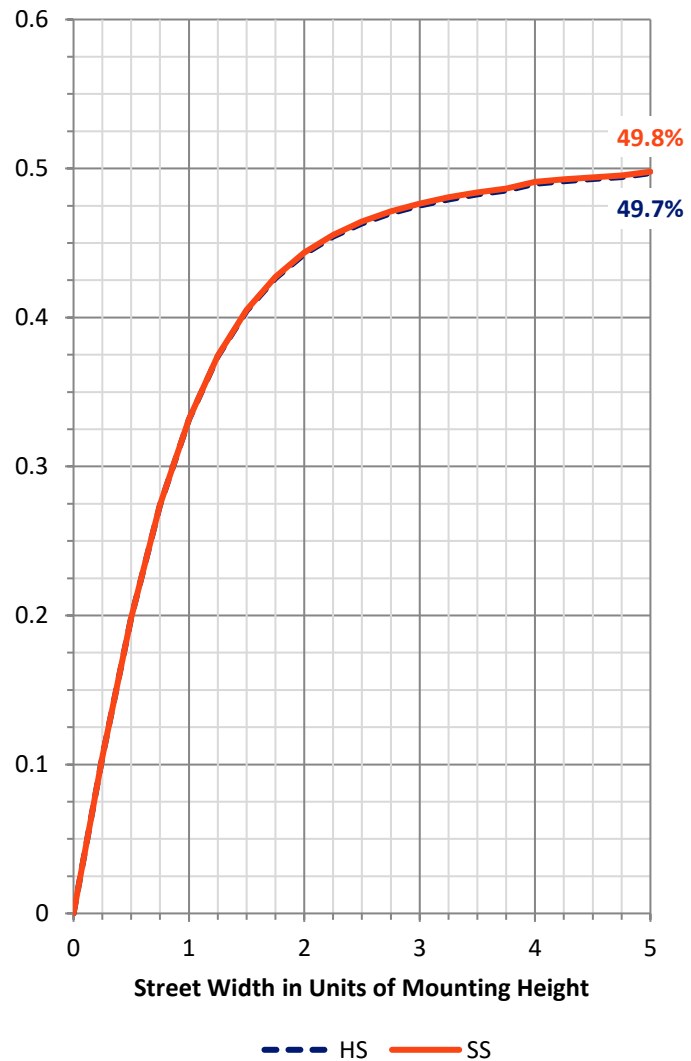
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	531.0	0.0	531.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	531.0	0.0	531.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	1062.0	0.0	1062.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.9	0.8
10°-20°	28.5	2.7
20°-30°	59.4	5.6
30°-40°	106.6	10.0
40°-50°	170.3	16.0
50°-60°	233.1	22.0
60°-70°	240.5	22.6
70°-80°	171.0	16.1
80°-90°	43.8	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°	1062.0	100.0
0°-180°	1062.0	100.0



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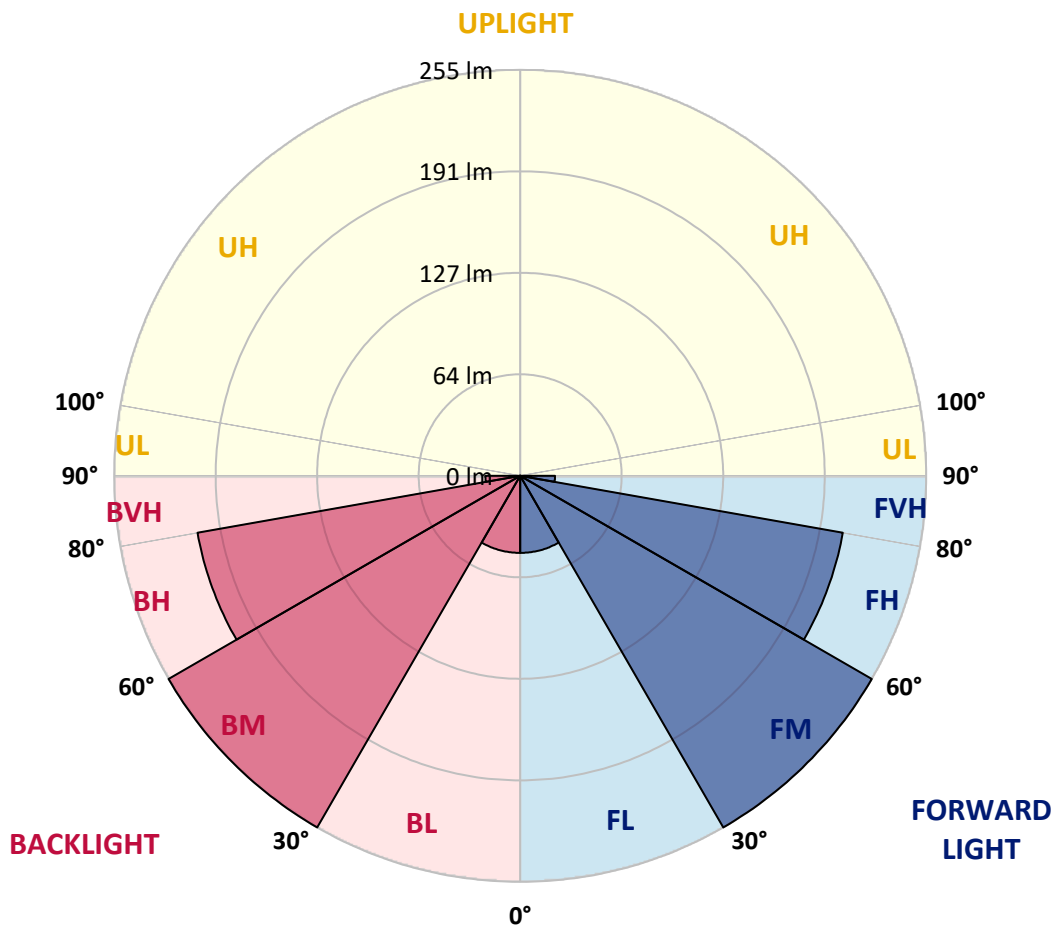
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	48.4	4.6			
FM (30°-60°)	255.0	24.0			
FH (60°-80°)	205.7	19.4			G0/660
FVH (80°-90°)	21.9	2.1			G1/100
BL (0°-30°)	48.4	4.6	B0/110		
BM (30°-60°)	255.0	24.0	B1/1000		
BH (60°-80°)	205.7	19.4	B1/500		G1/500
BVH (80°-90°)	21.9	2.1			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
2.5°	95.0	95.0	94.1	94.1	94.1	93.2	93.2	93.2	93.2	92.3	93.2
5°	95.0	95.0	95.0	95.0	94.1	93.2	93.2	93.2	92.3	92.3	92.3
7.5°	94.1	94.1	94.1	94.1	93.2	92.3	92.3	92.3	91.4	91.4	91.4
10°	93.2	94.1	93.2	93.2	92.3	92.3	93.2	93.2	94.1	94.1	94.1
12.5°	92.3	92.3	92.3	93.2	93.2	94.1	95.9	97.7	98.6	99.5	99.5
15°	92.3	92.3	93.2	94.1	95.9	97.7	100.4	103.1	104.9	106.7	106.7
17.5°	92.3	92.3	93.2	95.9	98.6	102.2	106.7	110.2	113.8	116.5	117.4
20°	92.3	92.3	94.1	97.7	103.1	108.4	114.7	120.1	125.5	130.0	130.0
22.5°	93.2	94.1	95.9	100.4	108.4	116.5	124.6	132.6	138.9	144.3	144.3
25°	95.0	95.0	97.7	104.9	114.7	125.5	137.1	147.0	155.0	162.2	162.2
27.5°	95.9	96.8	100.4	109.3	121.9	135.3	151.5	163.1	173.9	180.1	181.0
30°	97.7	98.6	104.0	112.9	128.2	145.2	164.0	180.1	191.8	198.1	199.9
32.5°	98.6	99.5	106.7	117.4	134.4	154.2	175.7	196.3	212.4	219.6	222.3
35°	101.3	102.2	109.3	121.9	141.6	164.0	189.1	213.3	232.1	241.1	242.9
37.5°	104.0	104.9	112.0	126.4	148.8	174.8	203.4	231.2	252.7	263.5	267.1
40°	105.8	106.7	114.7	131.7	156.8	186.4	219.6	250.0	274.2	287.7	290.4
42.5°	108.4	109.3	118.3	136.2	164.0	198.1	236.6	270.7	296.7	311.9	315.5
45°	111.1	112.0	121.9	141.6	172.1	210.6	253.6	294.9	324.4	342.4	345.9
47.5°	113.8	114.7	125.5	147.0	180.1	223.2	271.6	316.4	352.2	369.2	376.4
50°	114.7	116.5	127.3	150.6	185.5	233.9	286.8	337.9	375.5	397.9	399.7
52.5°	115.6	117.4	129.1	153.3	190.0	242.0	299.3	355.8	399.7	426.6	424.8
55°	116.5	116.5	129.1	153.3	191.8	247.4	308.3	367.5	415.8	437.4	449.9
57.5°	112.9	113.8	127.3	151.5	190.9	246.5	308.3	371.9	422.1	445.4	454.4
60°	108.4	110.2	122.8	147.0	187.3	243.8	306.5	370.1	424.8	449.9	447.2
62.5°	102.2	105.8	116.5	140.7	181.9	237.5	303.8	365.7	418.5	444.5	441.8
65°	95.0	98.6	108.4	134.4	170.3	222.3	289.5	356.7	401.5	431.1	425.7
67.5°	87.8	90.5	100.4	123.7	156.8	206.1	270.7	337.0	377.3	409.6	406.9
70°	79.8	80.7	90.5	111.1	143.4	190.0	252.7	309.2	355.8	380.0	385.4
72.5°	69.9	69.9	79.8	97.7	127.3	168.5	228.5	277.8	321.7	342.4	350.4
75°	57.4	58.3	66.3	82.5	106.7	144.3	194.5	244.7	281.4	302.9	305.6
77.5°	44.8	45.7	52.0	65.4	86.0	116.5	160.4	199.9	234.8	253.6	248.3
80°	32.3	33.2	37.6	47.5	63.6	86.9	123.7	158.6	183.7	199.0	191.8
82.5°	19.7	20.6	23.3	29.6	40.3	56.5	84.2	110.2	130.0	142.5	139.8
85°	9.9	9.9	11.7	13.4	17.0	25.1	40.3	55.6	70.8	79.8	77.1
87.5°	1.8	2.7	2.7	2.7	2.7	1.8	2.7	2.7	2.7	4.5	1.8
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)