

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: P532540

Luminaire Tested: **GALN-SA7D-830-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-830-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38566 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 433
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

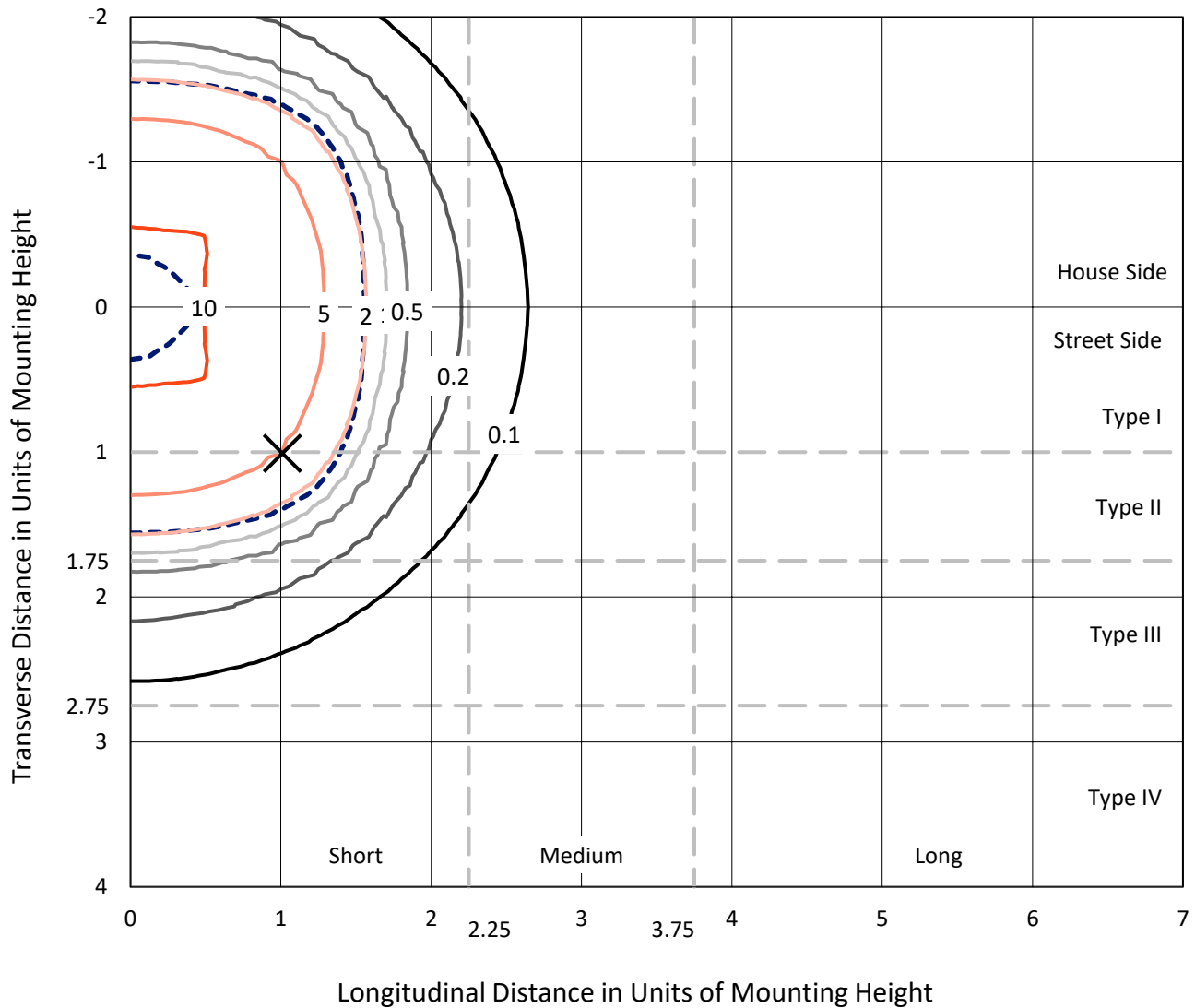


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Iso-Footcandle Lines of Horizontal Illumination

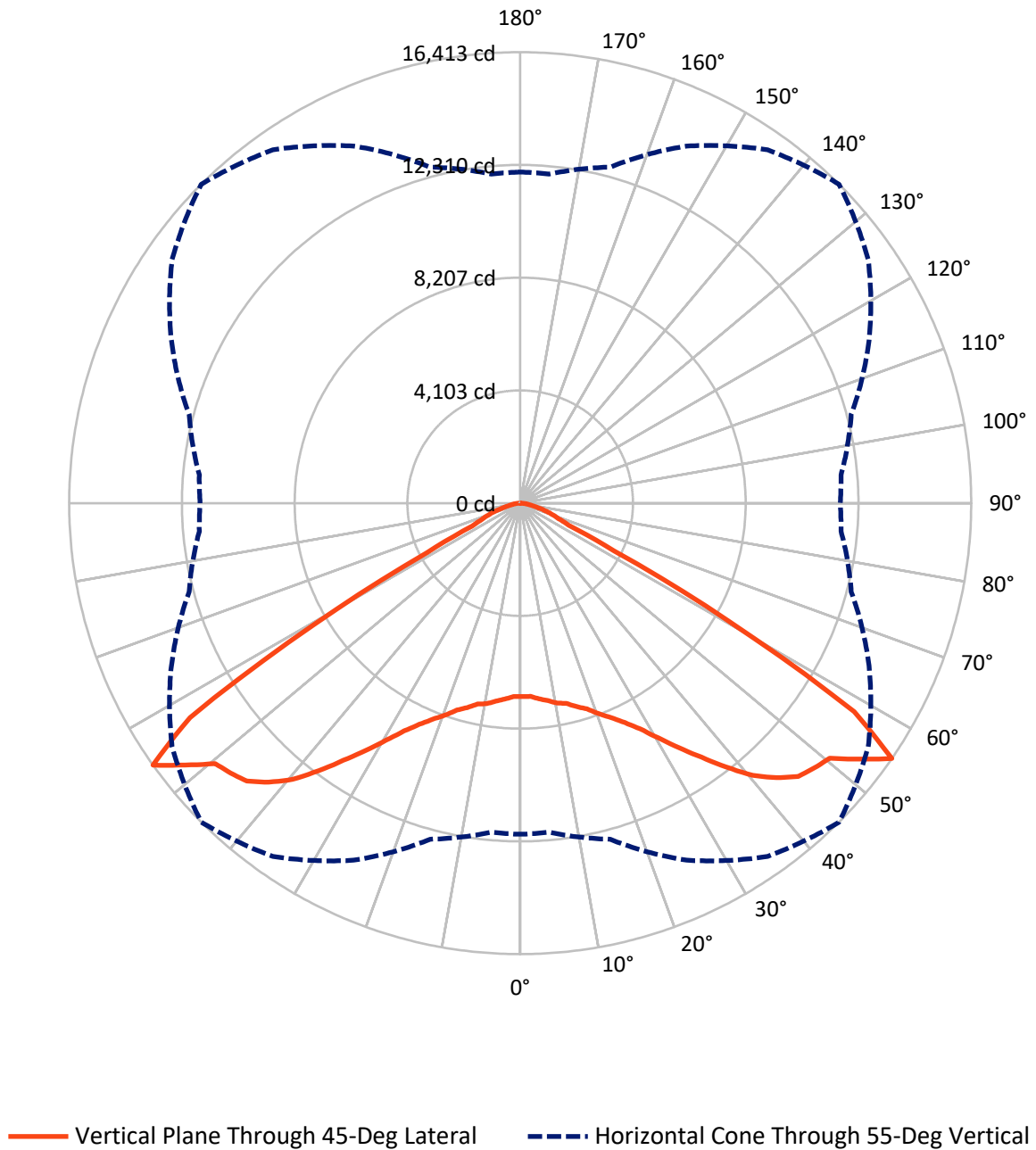
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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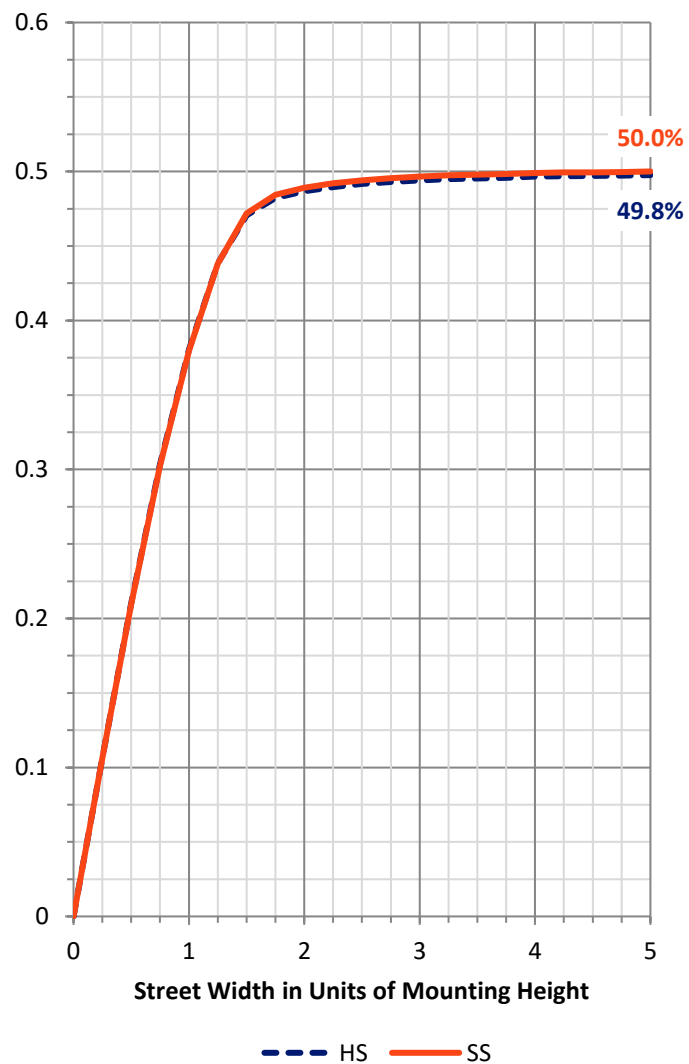
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19283.0	0.0	19283.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19283.0	0.0	19283.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	38566.0	0.0	38566.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.9	1.8
10°-20°	2179.6	5.7
20°-30°	4064.3	10.5
30°-40°	6804.9	17.6
40°-50°	10589.0	27.5
50°-60°	10994.7	28.5
60°-70°	2331.6	6.0
70°-80°	767.9	2.0
80°-90°	146.2	0.4
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°	38566.0	100.0
0°-180°	38566.0	100.0

Coefficient of Utilization



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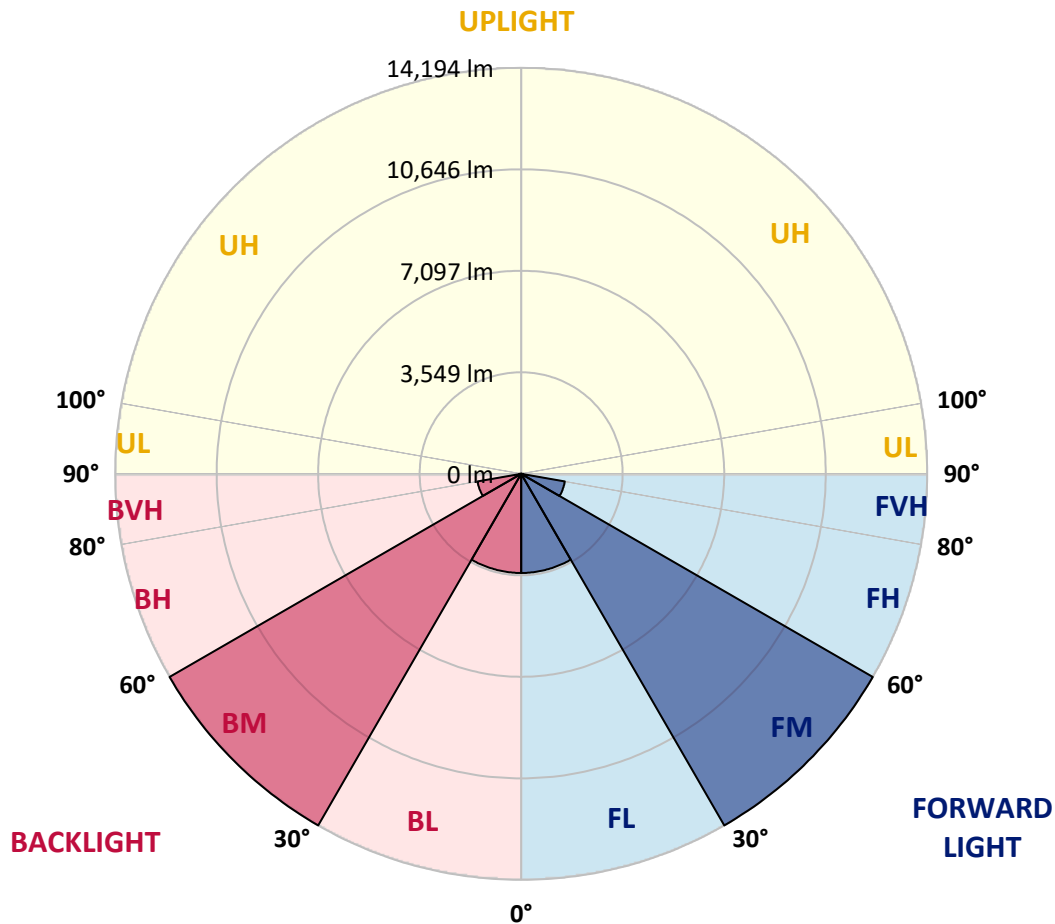
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3465.9	9.0			
FM	(30°-60°)	14194.3	36.8			
FH	(60°-80°)	1549.7	4.0			G1/1800
FVH	(80°-90°)	73.1	0.2			G1/100
BL	(0°-30°)	3465.9	9.0	B4/5000		
BM	(30°-60°)	14194.3	36.8	B5		
BH	(60°-80°)	1549.7	4.0	B3/2500		G1/1800
BVH	(80°-90°)	73.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7041.6	7041.6	7041.6	7041.6	7041.6	7041.6	7041.6	7041.6	7041.6	7041.6	7041.6
2.5°	7125.5	7092.8	7036.9	7078.9	7111.5	7041.6	7069.5	7083.5	7074.2	7036.9	7050.9
5°	7228.0	7209.3	7162.7	7195.4	7153.4	7153.4	7125.5	7088.2	7144.1	7134.8	7158.1
7.5°	7228.0	7204.7	7297.9	7237.3	7255.9	7255.9	7209.3	7172.1	7200.0	7158.1	7134.8
10°	7372.5	7405.1	7363.1	7377.1	7367.8	7400.4	7330.5	7307.2	7283.9	7269.9	7242.0
12.5°	7544.9	7521.6	7535.6	7526.2	7558.9	7475.0	7433.0	7381.8	7423.7	7363.1	7405.1
15°	7684.7	7670.7	7684.7	7722.0	7689.3	7684.7	7610.1	7558.9	7493.6	7507.6	7442.4
17.5°	7875.8	7861.8	7866.4	7899.1	7894.4	7871.1	7815.2	7717.3	7694.0	7656.7	7614.8
20°	8160.0	8136.7	8127.4	8141.4	8164.7	8183.3	8071.5	8034.2	7955.0	7894.4	7824.5
22.5°	8402.4	8393.0	8430.3	8369.7	8421.0	8476.9	8369.7	8351.1	8155.4	8122.7	8048.2
25°	8737.9	8723.9	8700.6	8789.2	8849.7	8845.1	8742.6	8640.0	8490.9	8453.6	8453.6
27.5°	9092.1	9012.8	9134.0	9157.3	9264.5	9297.1	9208.6	9059.4	8919.6	8840.4	8859.1
30°	9534.8	9460.2	9488.2	9656.0	9795.8	9916.9	9693.2	9474.2	9278.5	9138.7	9115.4
32.5°	9977.5	9902.9	9986.8	10149.9	10429.5	10611.3	10392.3	10010.1	9781.8	9576.7	9618.7
35°	10336.3	10392.3	10527.4	10774.4	11063.3	11356.9	11007.4	10713.8	10387.6	10159.3	10191.9
37.5°	10914.2	11086.6	11193.8	11478.1	11888.2	12191.1	11827.6	11445.5	11096.0	10797.7	10695.2
40°	11669.2	11785.7	11906.8	12242.4	12727.0	13029.9	12685.1	12186.4	11841.6	11534.0	11520.0
42.5°	12498.7	12610.5	12736.4	13146.5	13435.4	13663.7	13346.8	13081.2	12699.1	12456.7	12442.8
45°	13463.3	13384.1	13523.9	13794.2	14036.6	14185.7	13980.6	13850.1	13575.2	13351.5	13328.2
47.5°	14106.5	14036.6	14288.2	14530.5	14567.8	14404.7	14446.6	14567.8	14278.9	13910.7	14027.2
50°	14479.3	14479.3	14647.0	14870.7	14800.8	14591.1	14922.0	14931.3	14642.4	14316.2	14316.2
52.5°	13831.5	13976.0	14451.3	15183.0	15416.0	15476.6	15402.0	15085.1	14330.1	13663.7	13631.1
55°	12051.3	12018.7	12661.8	14339.5	15695.6	16413.3	15462.6	14003.9	12470.7	11720.4	11645.9
57.5°	7838.5	7875.8	8835.8	10546.1	12992.7	14330.1	12727.0	10676.5	8835.8	7801.2	7899.1
60°	3527.8	3653.6	4236.1	5513.0	7614.8	8705.3	7633.4	5792.6	4445.8	3858.7	3909.9
62.5°	2027.2	2050.5	2073.8	2460.6	3243.5	3835.4	3369.3	2600.4	2292.8	2190.3	2190.3
65°	1710.3	1696.3	1701.0	1733.6	1817.5	1938.6	1887.4	1817.5	1826.8	1817.5	1803.5
67.5°	1454.0	1472.6	1458.6	1481.9	1486.6	1505.2	1537.9	1565.8	1570.5	1579.8	1570.5
70°	1193.0	1197.7	1207.0	1225.6	1230.3	1244.3	1290.9	1314.2	1328.2	1328.2	1346.8
72.5°	913.4	908.7	918.1	936.7	960.0	964.7	1006.6	1039.2	1057.9	1034.6	1039.2
75°	601.2	605.8	619.8	633.8	666.4	699.0	713.0	745.6	750.3	759.6	736.3
77.5°	358.8	368.2	382.1	410.1	438.1	466.0	498.6	521.9	531.3	521.9	494.0
80°	233.0	233.0	251.7	275.0	307.6	330.9	349.5	368.2	382.1	368.2	358.8
82.5°	144.5	144.5	167.8	195.7	219.0	233.0	261.0	284.3	298.3	288.9	275.0
85°	74.6	79.2	97.9	121.2	139.8	149.1	144.5	130.5	116.5	111.8	102.5
87.5°	23.3	23.3	28.0	28.0	23.3	23.3	28.0	23.3	28.0	28.0	28.0
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)