

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: P530200

Luminaire Tested: **GALN-SA5B-830-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530200
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-SA5B-830-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA 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: 20396 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 204
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

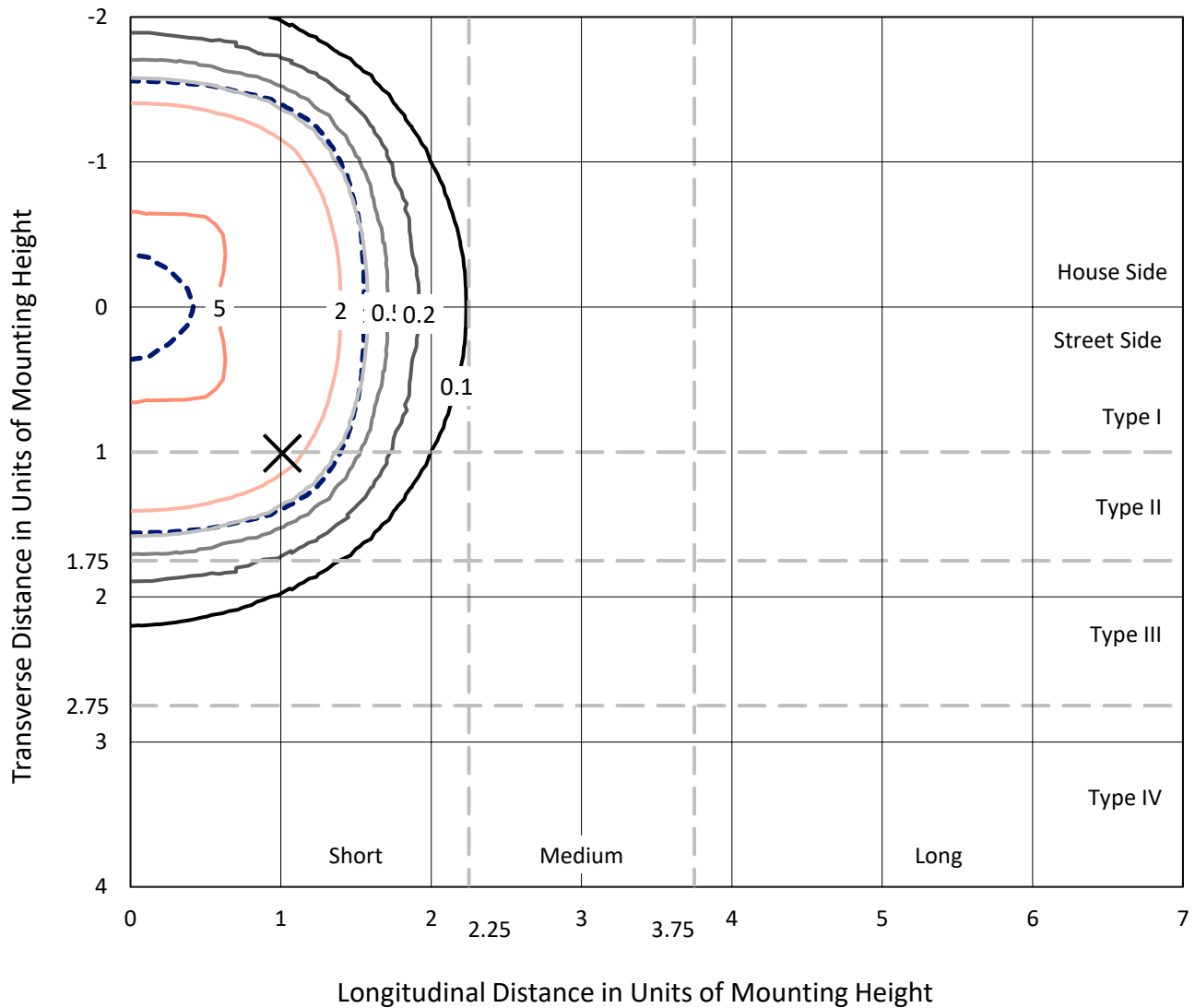


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Iso-Footcandle Lines of Horizontal Illumination

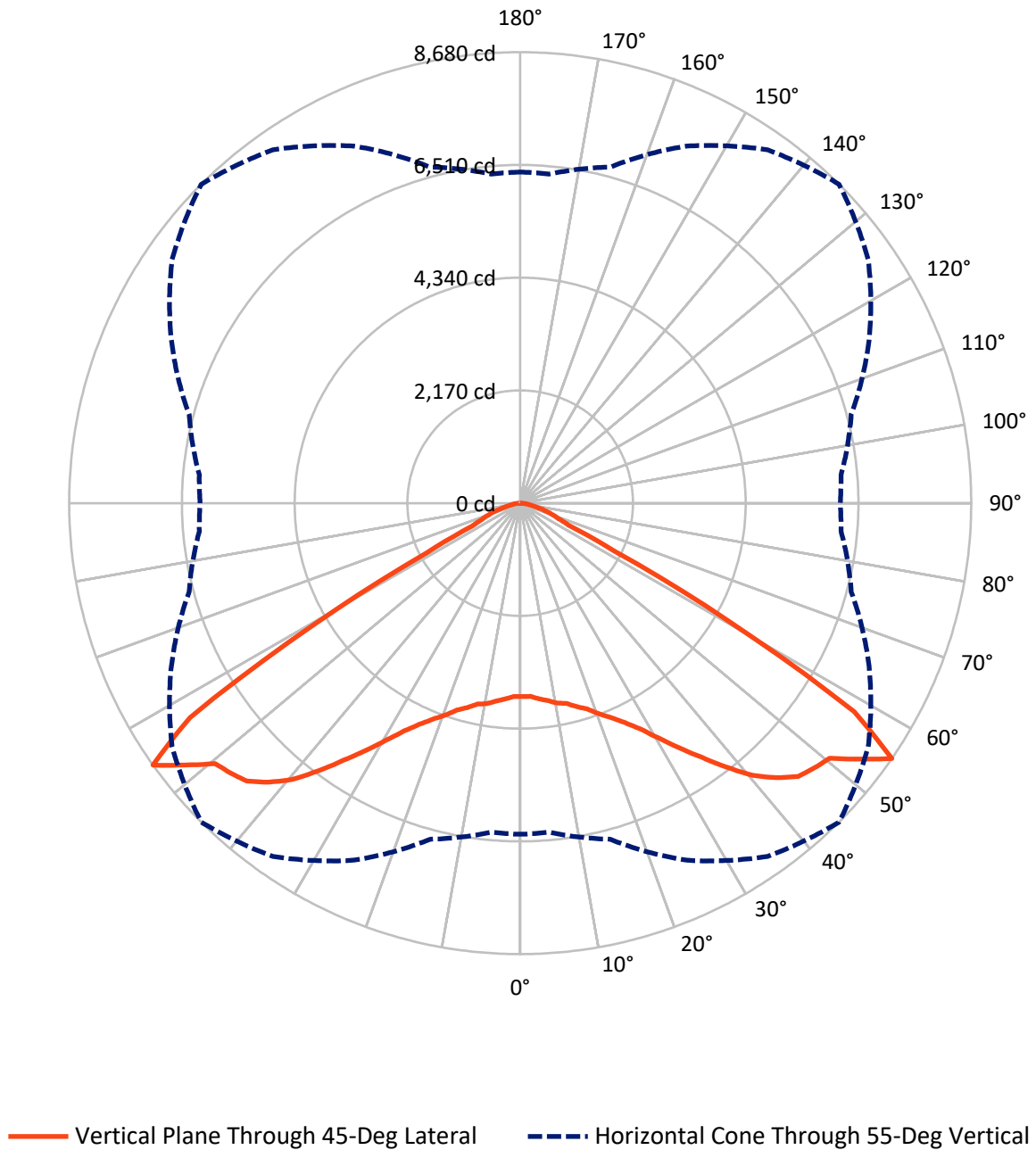
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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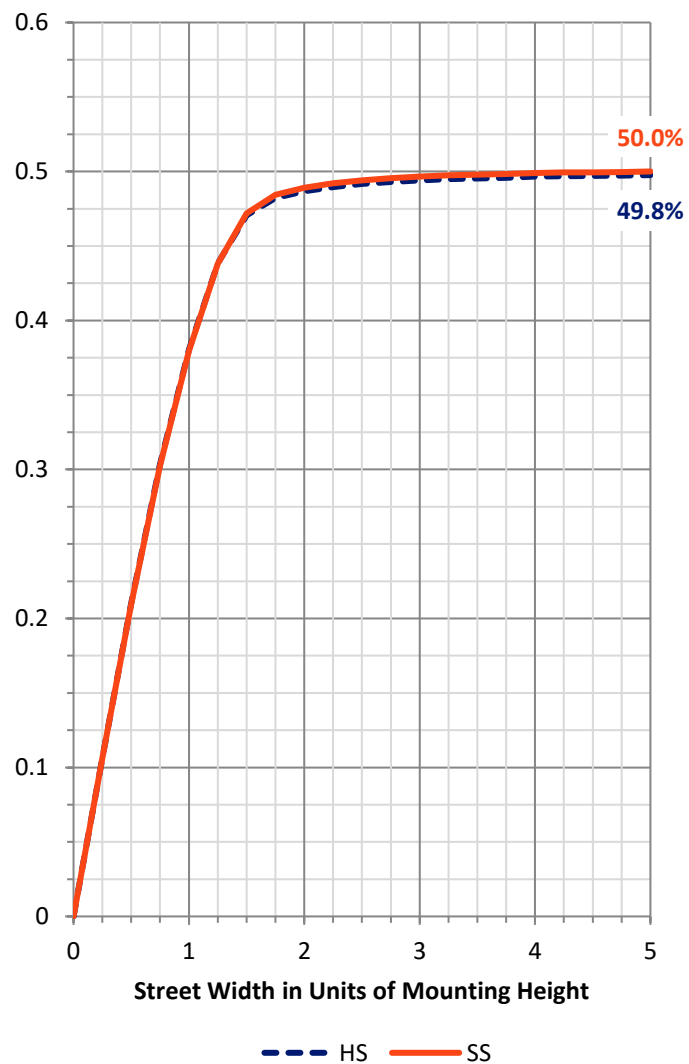
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10198.0	0.0	10198.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10198.0	0.0	10198.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20396.0	0.0	20396.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.8	1.8
10°-20°	1152.7	5.7
20°-30°	2149.4	10.5
30°-40°	3598.8	17.6
40°-50°	5600.1	27.5
50°-60°	5814.6	28.5
60°-70°	1233.1	6.0
70°-80°	406.1	2.0
80°-90°	77.3	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°	20396.0	100.0
0°-180°	20396.0	100.0

Coefficient of Utilization



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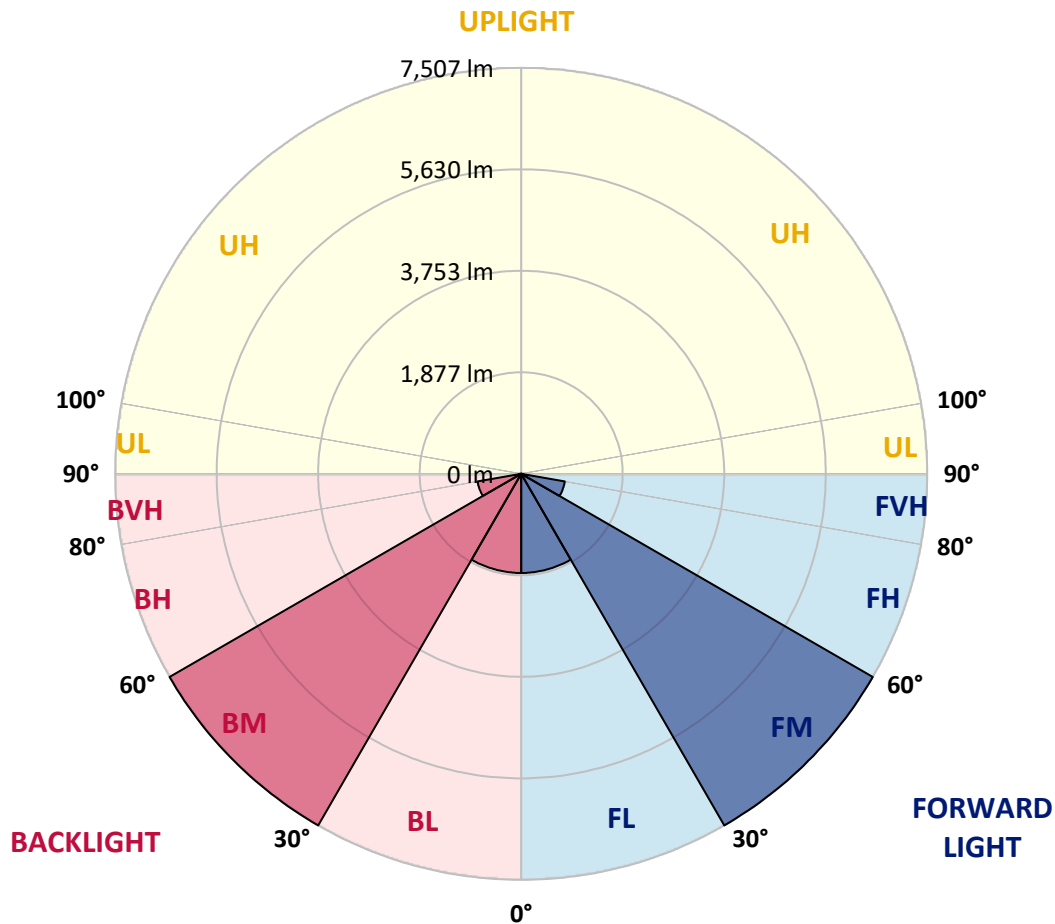
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1833.0	9.0			
FM	(30°-60°)	7506.8	36.8			
FH	(60°-80°)	819.6	4.0			G1/1800
FVH	(80°-90°)	38.7	0.2			G1/100
BL	(0°-30°)	1833.0	9.0	B3/2500		
BM	(30°-60°)	7506.8	36.8	B4/8500		
BH	(60°-80°)	819.6	4.0	B2/1000		G1/1800
BVH	(80°-90°)	38.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3724.0	3724.0	3724.0	3724.0	3724.0	3724.0	3724.0	3724.0	3724.0	3724.0	3724.0
2.5°	3768.4	3751.1	3721.5	3743.7	3761.0	3724.0	3738.8	3746.2	3741.3	3721.5	3728.9
5°	3822.6	3812.7	3788.1	3805.3	3783.2	3783.2	3768.4	3748.7	3778.2	3773.3	3785.6
7.5°	3822.6	3810.3	3859.6	3827.5	3837.4	3837.4	3812.7	3793.0	3807.8	3785.6	3773.3
10°	3899.0	3916.2	3894.1	3901.5	3896.5	3913.8	3876.8	3864.5	3852.2	3844.8	3830.0
12.5°	3990.2	3977.9	3985.3	3980.3	3997.6	3953.2	3931.0	3903.9	3926.1	3894.1	3916.2
15°	4064.1	4056.7	4064.1	4083.8	4066.6	4064.1	4024.7	3997.6	3963.1	3970.5	3936.0
17.5°	4165.2	4157.8	4160.2	4177.5	4175.0	4162.7	4133.1	4081.4	4069.0	4049.3	4027.2
20°	4315.5	4303.2	4298.3	4305.7	4318.0	4327.8	4268.7	4249.0	4207.1	4175.0	4138.1
22.5°	4443.7	4438.7	4458.5	4426.4	4453.5	4483.1	4426.4	4416.6	4313.0	4295.8	4256.4
25°	4621.1	4613.7	4601.4	4648.2	4680.3	4677.8	4623.6	4569.4	4490.5	4470.8	4470.8
27.5°	4808.4	4766.5	4830.6	4842.9	4899.6	4916.9	4870.0	4791.2	4717.2	4675.3	4685.2
30°	5042.6	5003.1	5017.9	5106.6	5180.6	5244.7	5126.4	5010.5	4907.0	4833.1	4820.8
32.5°	5276.7	5237.3	5281.6	5367.9	5515.8	5611.9	5496.1	5294.0	5173.2	5064.7	5086.9
35°	5466.5	5496.1	5567.5	5698.1	5851.0	6006.2	5821.4	5666.1	5493.6	5372.8	5390.1
37.5°	5772.1	5863.3	5920.0	6070.3	6287.2	6447.4	6255.1	6053.0	5868.2	5710.5	5656.2
40°	6171.3	6233.0	6297.0	6474.5	6730.8	6891.0	6708.6	6444.9	6262.5	6099.9	6092.5
42.5°	6610.0	6669.2	6735.7	6952.6	7105.4	7226.2	7058.6	6918.1	6716.0	6587.9	6580.5
45°	7120.2	7078.3	7152.3	7295.2	7423.4	7502.2	7393.8	7324.8	7179.4	7061.1	7048.7
47.5°	7460.3	7423.4	7556.5	7684.6	7704.3	7618.1	7640.2	7704.3	7551.5	7356.8	7418.4
50°	7657.5	7657.5	7746.2	7864.5	7827.6	7716.7	7891.6	7896.6	7743.8	7571.2	7571.2
52.5°	7314.9	7391.3	7642.7	8029.7	8152.9	8184.9	8145.5	7977.9	7578.6	7226.2	7208.9
55°	6373.4	6356.2	6696.3	7583.6	8300.8	8680.3	8177.5	7406.1	6595.3	6198.5	6159.0
57.5°	4145.5	4165.2	4672.9	5577.4	6871.3	7578.6	6730.8	5646.4	4672.9	4125.7	4177.5
60°	1865.7	1932.2	2240.3	2915.6	4027.2	4603.9	4037.0	3063.5	2351.2	2040.7	2067.8
62.5°	1072.1	1084.4	1096.7	1301.3	1715.4	2028.4	1781.9	1375.2	1212.6	1158.4	1158.4
65°	904.5	897.1	899.6	916.8	961.2	1025.3	998.2	961.2	966.1	961.2	953.8
67.5°	769.0	778.8	771.4	783.7	786.2	796.1	813.3	828.1	830.6	835.5	830.6
70°	630.9	633.4	638.3	648.2	650.7	658.0	682.7	695.0	702.4	702.4	712.3
72.5°	483.1	480.6	485.5	495.4	507.7	510.2	532.4	549.6	559.5	547.1	549.6
75°	317.9	320.4	327.8	335.2	352.4	369.7	377.1	394.3	396.8	401.7	389.4
77.5°	189.8	194.7	202.1	216.9	231.7	246.5	263.7	276.0	281.0	276.0	261.2
80°	123.2	123.2	133.1	145.4	162.7	175.0	184.8	194.7	202.1	194.7	189.8
82.5°	76.4	76.4	88.7	103.5	115.8	123.2	138.0	150.3	157.7	152.8	145.4
85°	39.4	41.9	51.8	64.1	73.9	78.9	76.4	69.0	61.6	59.2	54.2
87.5°	12.3	12.3	14.8	14.8	12.3	12.3	14.8	12.3	14.8	14.8	14.8
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)