

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: P530434

Luminaire Tested: **GALN-SA5C-830-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530434
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-SA5C-830-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA 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: 25200 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 269
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



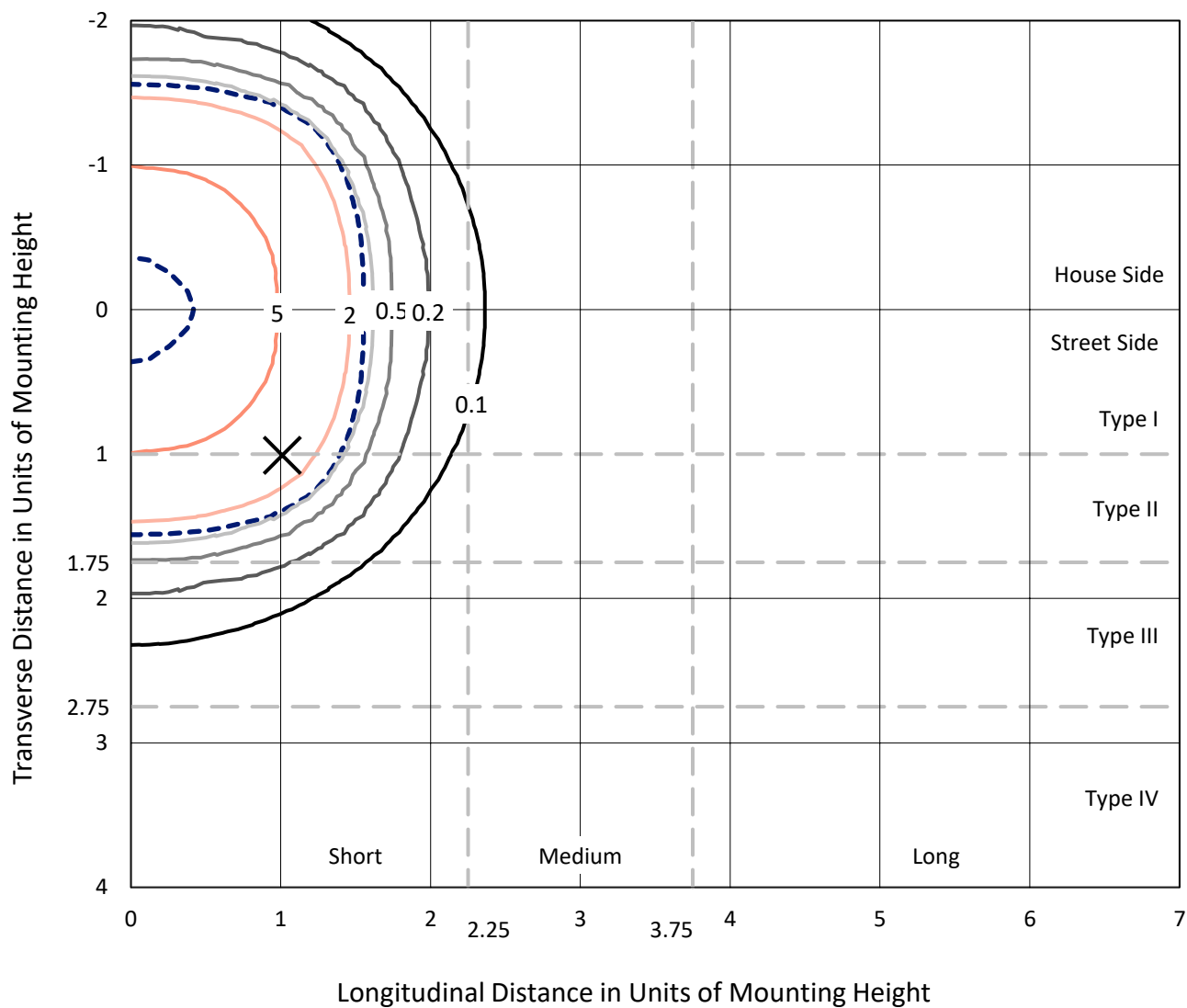
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

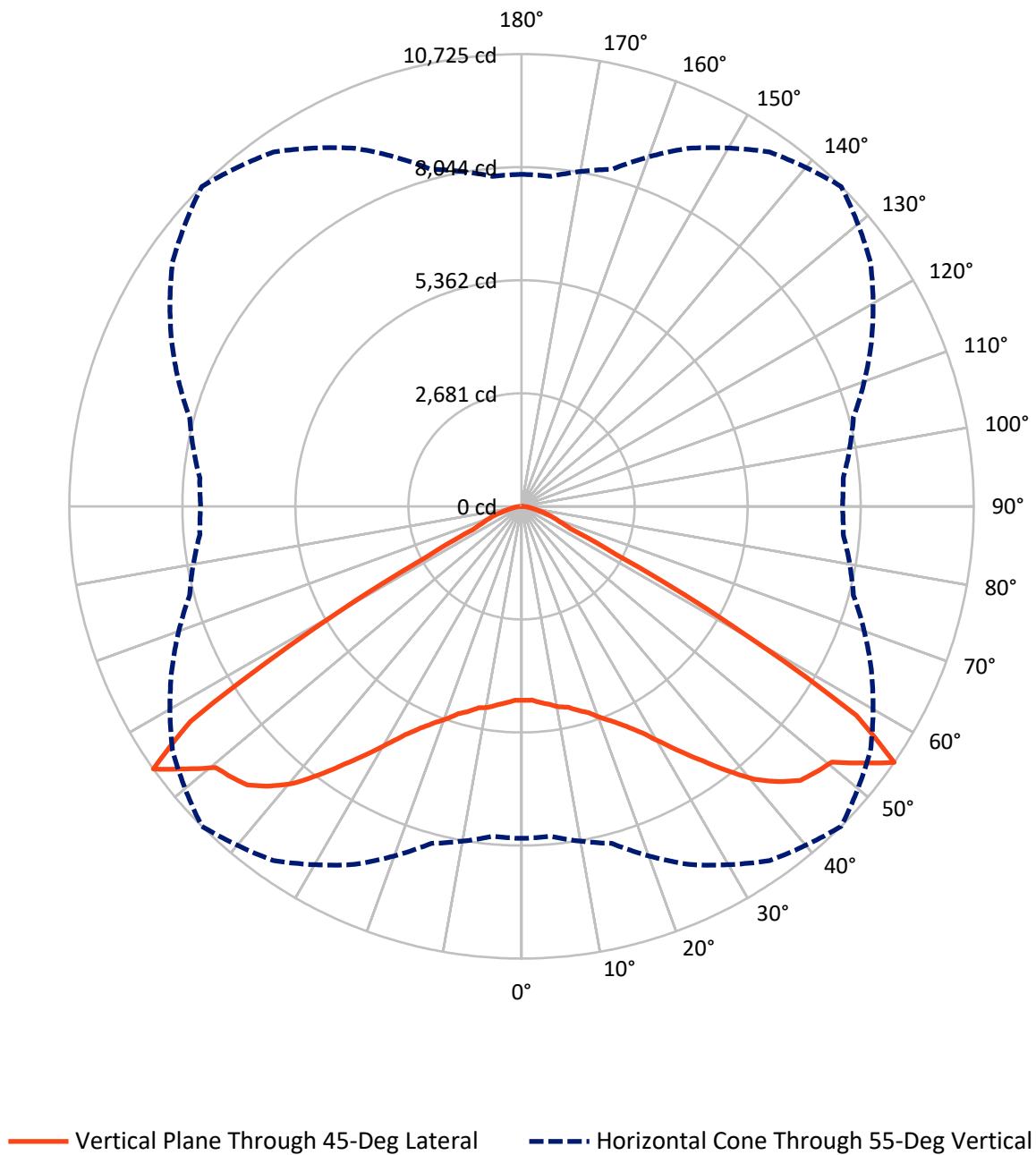


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12600.0	0.0	12600.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12600.0	0.0	12600.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25200.0	0.0	25200.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.5	1.8
10°-20°	1424.2	5.7
20°-30°	2655.7	10.5
30°-40°	4446.5	17.6
40°-50°	6919.1	27.5
50°-60°	7184.2	28.5
60°-70°	1523.5	6.0
70°-80°	501.8	2.0
80°-90°	95.6	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°	25200.0	100.0
0°-180°	25200.0	100.0

Coefficient of Utilization



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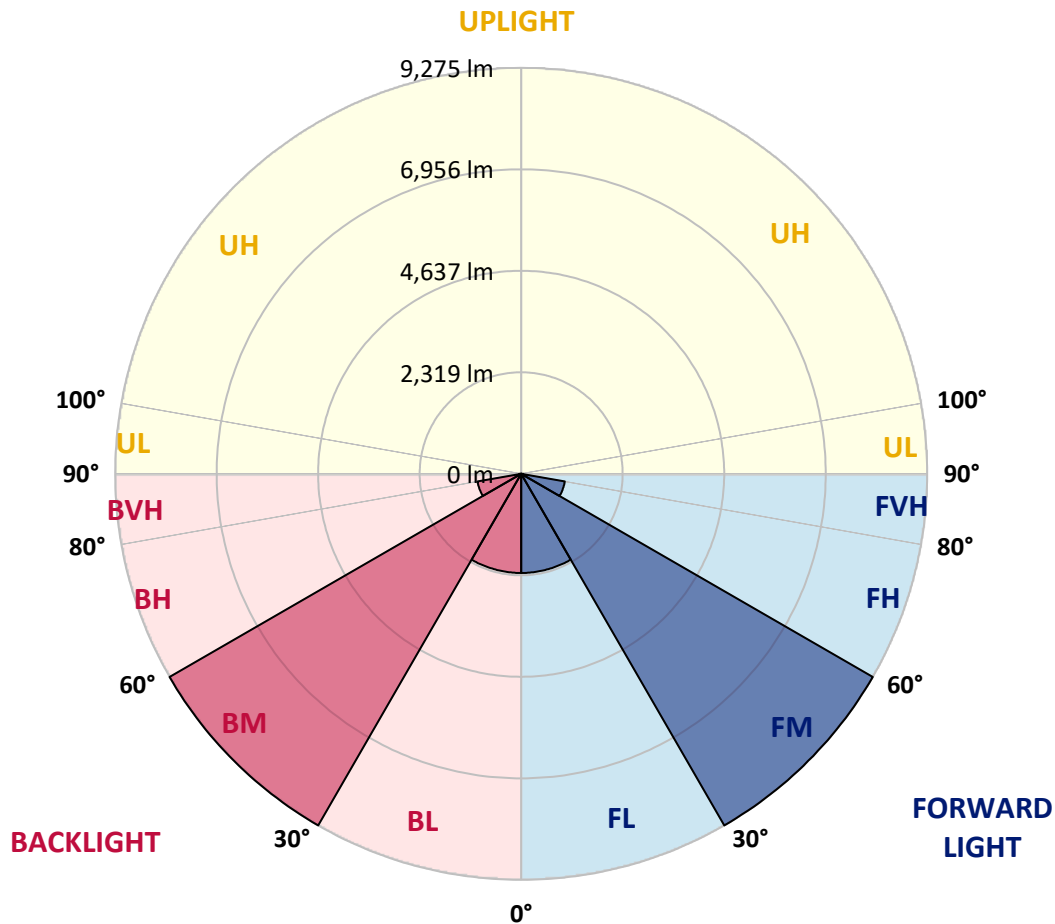
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2264.7	9.0			
FM	(30°-60°)	9274.9	36.8			
FH	(60°-80°)	1012.6	4.0			G1/1800
FVH	(80°-90°)	47.8	0.2			G1/100
BL	(0°-30°)	2264.7	9.0	B3/2500		
BM	(30°-60°)	9274.9	36.8	B5		
BH	(60°-80°)	1012.6	4.0	B3/2500		G1/1800
BVH	(80°-90°)	47.8	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°	4601.1	4601.1	4601.1	4601.1	4601.1	4601.1	4601.1	4601.1	4601.1	4601.1	4601.1
2.5°	4656.0	4634.6	4598.1	4625.5	4646.8	4601.1	4619.4	4628.6	4622.5	4598.1	4607.2
5°	4722.9	4710.8	4680.3	4701.6	4674.2	4674.2	4656.0	4631.6	4668.1	4662.0	4677.3
7.5°	4722.9	4707.7	4768.6	4729.0	4741.2	4741.2	4710.8	4686.4	4704.7	4677.3	4662.0
10°	4817.3	4838.7	4811.3	4820.4	4814.3	4835.6	4789.9	4774.7	4759.5	4750.4	4732.1
12.5°	4930.0	4914.8	4923.9	4917.8	4939.2	4884.3	4856.9	4823.4	4850.8	4811.3	4838.7
15°	5021.4	5012.2	5021.4	5045.7	5024.4	5021.4	4972.6	4939.2	4896.5	4905.7	4863.0
17.5°	5146.2	5137.1	5140.1	5161.4	5158.4	5143.2	5106.6	5042.7	5027.5	5003.1	4975.7
20°	5332.0	5316.7	5310.7	5319.8	5335.0	5347.2	5274.1	5249.8	5198.0	5158.4	5112.7
22.5°	5490.3	5484.2	5508.6	5469.0	5502.5	5539.0	5469.0	5456.8	5328.9	5307.6	5258.9
25°	5709.6	5700.4	5685.2	5743.1	5782.6	5779.6	5712.6	5645.6	5548.2	5523.8	5523.8
27.5°	5941.0	5889.2	5968.4	5983.6	6053.7	6075.0	6017.1	5919.7	5828.3	5776.6	5788.7
30°	6230.3	6181.6	6199.8	6309.4	6400.8	6480.0	6333.8	6190.7	6062.8	5971.4	5956.2
32.5°	6519.6	6470.8	6525.6	6632.2	6814.9	6933.7	6790.6	6540.9	6391.7	6257.7	6285.1
35°	6754.0	6790.6	6878.9	7040.3	7229.1	7420.9	7192.5	7000.7	6787.5	6638.3	6659.6
37.5°	7131.6	7244.3	7314.3	7500.1	7768.0	7966.0	7728.5	7478.8	7250.4	7055.5	6988.5
40°	7624.9	7701.1	7780.2	7999.5	8316.2	8514.1	8288.8	7962.9	7737.6	7536.6	7527.5
42.5°	8167.0	8240.0	8322.3	8590.2	8779.0	8928.2	8721.2	8547.6	8297.9	8139.5	8130.4
45°	8797.3	8745.5	8836.9	9013.5	9171.8	9269.3	9135.3	9050.0	8870.4	8724.2	8709.0
47.5°	9217.5	9171.8	9336.3	9494.6	9519.0	9412.4	9439.8	9519.0	9330.2	9089.6	9165.7
50°	9461.1	9461.1	9570.7	9716.9	9671.2	9534.2	9750.4	9756.5	9567.7	9354.5	9354.5
52.5°	9037.9	9132.3	9442.9	9920.9	10073.2	10112.8	10064.1	9857.0	9363.7	8928.2	8906.9
55°	7874.6	7853.3	8273.5	9369.8	10255.9	10724.8	10103.6	9150.5	8148.7	7658.4	7609.7
57.5°	5121.9	5146.2	5773.5	6891.1	8489.7	9363.7	8316.2	6976.3	5773.5	5097.5	5161.4
60°	2305.1	2387.4	2768.0	3602.4	4975.7	5688.2	4987.9	3785.1	2905.0	2521.3	2554.8
62.5°	1324.6	1339.8	1355.1	1607.8	2119.4	2506.1	2201.6	1699.2	1498.2	1431.2	1431.2
65°	1117.6	1108.4	1111.5	1132.8	1187.6	1266.8	1233.3	1187.6	1193.7	1187.6	1178.5
67.5°	950.1	962.3	953.1	968.3	971.4	983.6	1004.9	1023.2	1026.2	1032.3	1026.2
70°	779.5	782.6	788.7	800.9	803.9	813.0	843.5	858.7	867.9	867.9	880.0
72.5°	596.8	593.8	599.9	612.1	627.3	630.3	657.7	679.1	691.2	676.0	679.1
75°	392.8	395.9	405.0	414.1	435.4	456.8	465.9	487.2	490.3	496.4	481.1
77.5°	234.5	240.6	249.7	268.0	286.2	304.5	325.8	341.1	347.1	341.1	322.8
80°	152.3	152.3	164.4	179.7	201.0	216.2	228.4	240.6	249.7	240.6	234.5
82.5°	94.4	94.4	109.6	127.9	143.1	152.3	170.5	185.8	194.9	188.8	179.7
85°	48.7	51.8	63.9	79.2	91.4	97.4	94.4	85.3	76.1	73.1	67.0
87.5°	15.2	15.2	18.3	18.3	15.2	15.2	18.3	15.2	18.3	18.3	18.3
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)