

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: P530435

Luminaire Tested: **GALN-SA5C-830-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
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-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14593 lumens
Efficiency: N/A
Efficacy: 54.2 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): 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



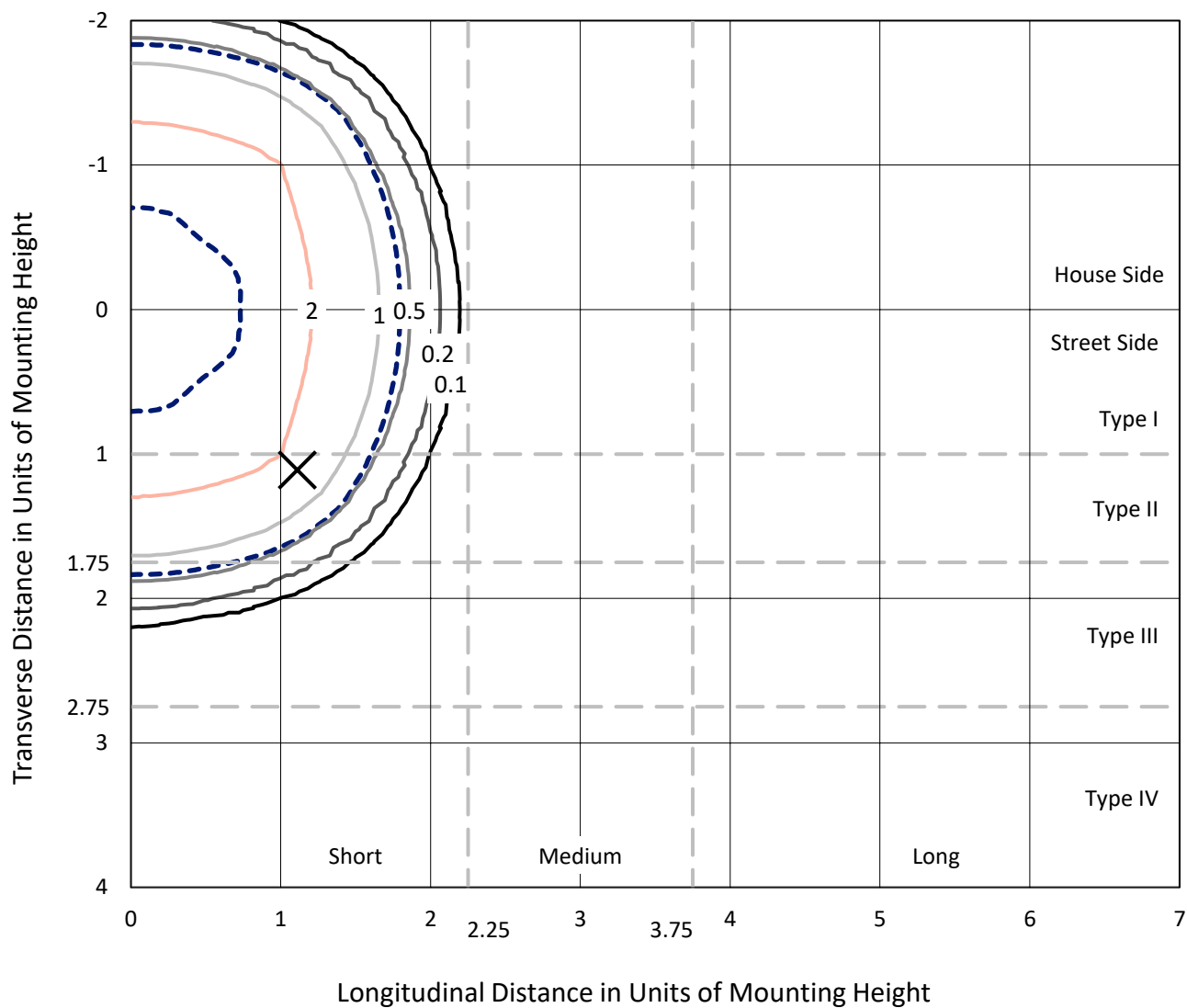
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

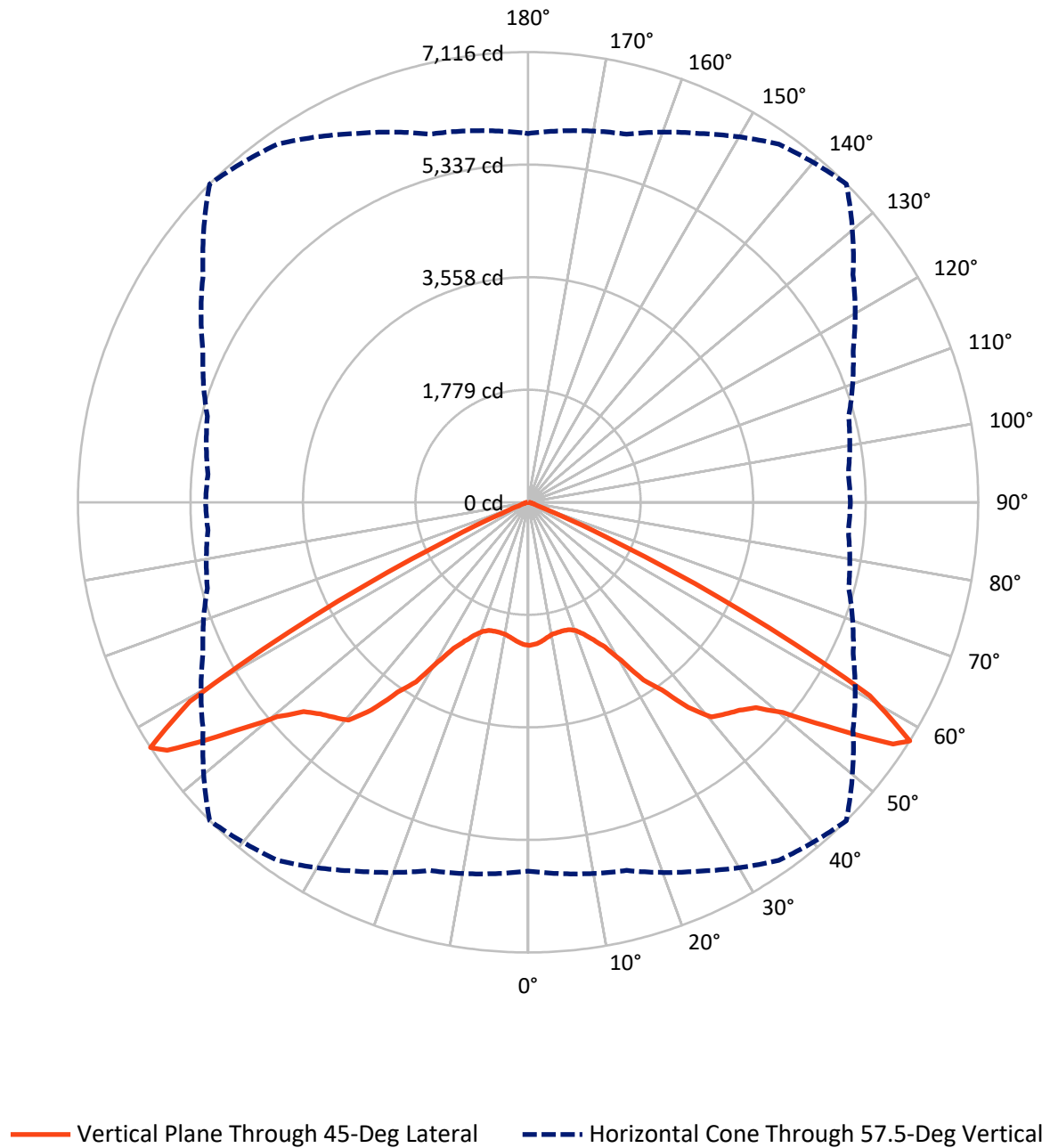


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc

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	7296.5	0.0	7296.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7296.5	0.0	7296.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14593.0	0.0	14593.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.0	1.4
10°-20°	601.2	4.1
20°-30°	1109.8	7.6
30°-40°	2182.6	15.0
40°-50°	3554.8	24.4
50°-60°	5069.6	34.7
60°-70°	1755.2	12.0
70°-80°	94.2	0.6
80°-90°	17.7	0.1
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°	14593.0	100.0
0°-180°	14593.0	100.0

Coefficient of Utilization



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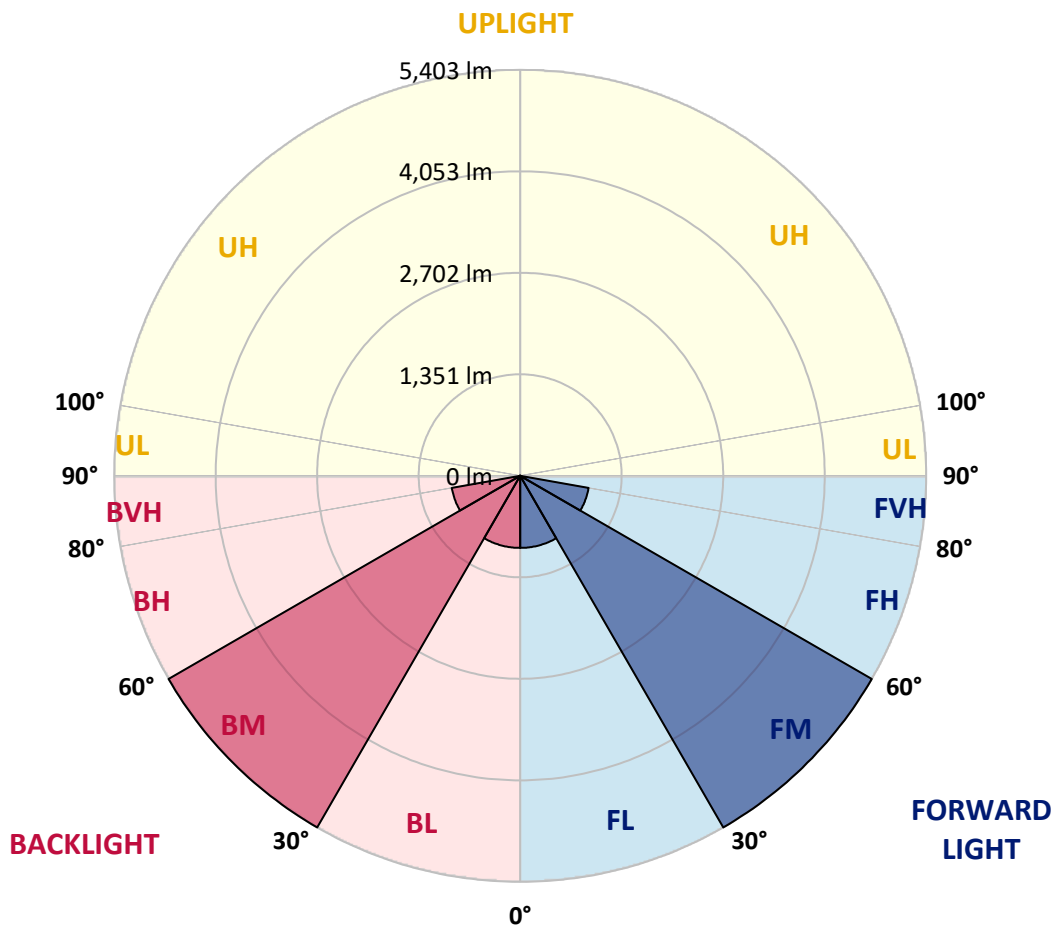
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	959.5	6.6			
FM	(30°-60°)	5403.5	37.0			
FH	(60°-80°)	924.7	6.3			G1/1800
FVH	(80°-90°)	8.8	0.1			G0/10
BL	(0°-30°)	959.5	6.6	B2/1000		
BM	(30°-60°)	5403.5	37.0	B4/8500		
BH	(60°-80°)	924.7	6.3	B2/1000		G1/1800
BVH	(80°-90°)	8.8	0.1			G0/10
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°	2263.5	2263.5	2263.5	2263.5	2263.5	2263.5	2263.5	2263.5	2263.5	2263.5	2263.5
2.5°	2257.4	2269.6	2254.4	2248.3	2245.3	2245.3	2236.1	2236.1	2233.1	2236.1	2224.0
5°	2220.9	2233.1	2233.1	2230.1	2211.8	2208.8	2199.6	2193.6	2196.6	2184.4	2193.6
7.5°	2184.4	2193.6	2181.4	2178.3	2172.3	2160.1	2157.0	2129.7	2132.7	2132.7	2138.8
10°	2178.3	2175.3	2157.0	2141.8	2123.6	2120.5	2111.4	2105.3	2105.3	2102.3	2111.4
12.5°	2178.3	2163.1	2160.1	2126.6	2096.2	2108.4	2084.0	2068.8	2090.1	2096.2	2108.4
15°	2175.3	2190.5	2138.8	2123.6	2102.3	2105.3	2084.0	2068.8	2081.0	2087.1	2096.2
17.5°	2193.6	2184.4	2169.2	2138.8	2129.7	2117.5	2090.1	2077.9	2077.9	2093.2	2096.2
20°	2242.2	2217.9	2187.5	2172.3	2181.4	2166.2	2132.7	2087.1	2099.2	2111.4	2120.5
22.5°	2287.9	2269.6	2248.3	2239.2	2290.9	2266.6	2208.8	2157.0	2138.8	2160.1	2175.3
25°	2376.1	2376.1	2336.5	2348.7	2406.5	2409.6	2342.6	2251.4	2239.2	2248.3	2254.4
27.5°	2555.6	2564.7	2531.3	2543.4	2567.8	2589.1	2531.3	2455.2	2427.8	2424.8	2433.9
30°	2750.3	2768.6	2765.5	2817.2	2887.2	2899.4	2814.2	2689.5	2607.3	2592.1	2604.3
32.5°	3005.9	3015.0	3008.9	3069.8	3258.4	3346.6	3124.5	2948.1	2838.5	2865.9	2838.5
35°	3486.6	3477.4	3410.5	3422.7	3577.8	3641.7	3428.8	3316.2	3264.5	3319.2	3307.1
37.5°	3900.3	3866.9	3812.1	3891.2	4052.4	4110.2	3888.2	3690.4	3596.1	3687.4	3726.9
40°	4250.2	4165.0	4089.0	4168.1	4384.1	4463.2	4137.6	3976.4	3939.9	4006.8	4092.0
42.5°	4545.3	4490.5	4390.1	4396.2	4539.2	4575.7	4314.1	4219.8	4183.3	4289.7	4332.3
45°	4755.2	4703.5	4609.2	4603.1	4712.6	4688.3	4454.0	4390.1	4411.4	4481.4	4502.7
47.5°	4861.7	4889.1	4834.3	4849.5	4907.4	4849.5	4664.0	4664.0	4615.3	4657.9	4636.6
50°	5169.0	5083.8	5153.8	5153.8	5214.6	5220.7	5035.1	4968.2	4837.4	4764.4	4764.4
52.5°	5528.0	5534.1	5561.5	5661.9	5765.3	5853.5	5588.8	5302.9	5083.8	4989.5	4977.3
55°	5823.1	5884.0	5993.5	6182.1	6480.3	6602.0	6145.6	5634.5	5366.7	5220.7	5190.3
56°	5984.4	5926.5	6115.2	6373.8	6763.2	6921.4	6236.9	5701.4	5406.3	5242.0	5239.0
57.5°	5829.2	5893.1	6023.9	6431.6	6909.2	7116.1	6270.3	5671.0	5248.1	5080.8	5096.0
60°	4603.1	4664.0	4840.4	5296.8	6045.2	6206.4	5305.9	4676.1	4298.9	4058.5	4061.6
62.5°	2604.3	2649.9	2786.8	3209.7	3675.2	3830.4	3307.1	2887.2	2625.6	2491.7	2449.1
65°	958.3	940.1	961.4	1177.4	1463.4	1594.2	1375.2	1162.2	1025.3	976.6	958.3
67.5°	359.0	331.6	310.3	331.6	416.8	441.1	404.6	337.7	316.4	325.5	331.6
70°	222.1	209.9	167.3	158.2	155.2	152.1	161.2	170.4	194.7	228.2	234.3
72.5°	155.2	146.0	118.7	112.6	106.5	103.4	118.7	130.8	152.1	176.5	179.5
75°	60.8	63.9	60.8	66.9	70.0	73.0	85.2	94.3	103.4	103.4	100.4
77.5°	12.2	12.2	18.3	24.3	30.4	39.6	57.8	66.9	70.0	66.9	57.8
80°	0.0	0.0	6.1	12.2	24.3	33.5	51.7	57.8	63.9	57.8	45.6
82.5°	0.0	0.0	6.1	15.2	24.3	30.4	48.7	60.8	70.0	63.9	48.7
85°	0.0	0.0	6.1	12.2	18.3	21.3	21.3	15.2	15.2	9.1	6.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)