

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: P650889

Luminaire Tested: **GALN-SA5C-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650889
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-840-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 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: 15445 lumens
Efficiency: N/A
Efficacy: 57.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

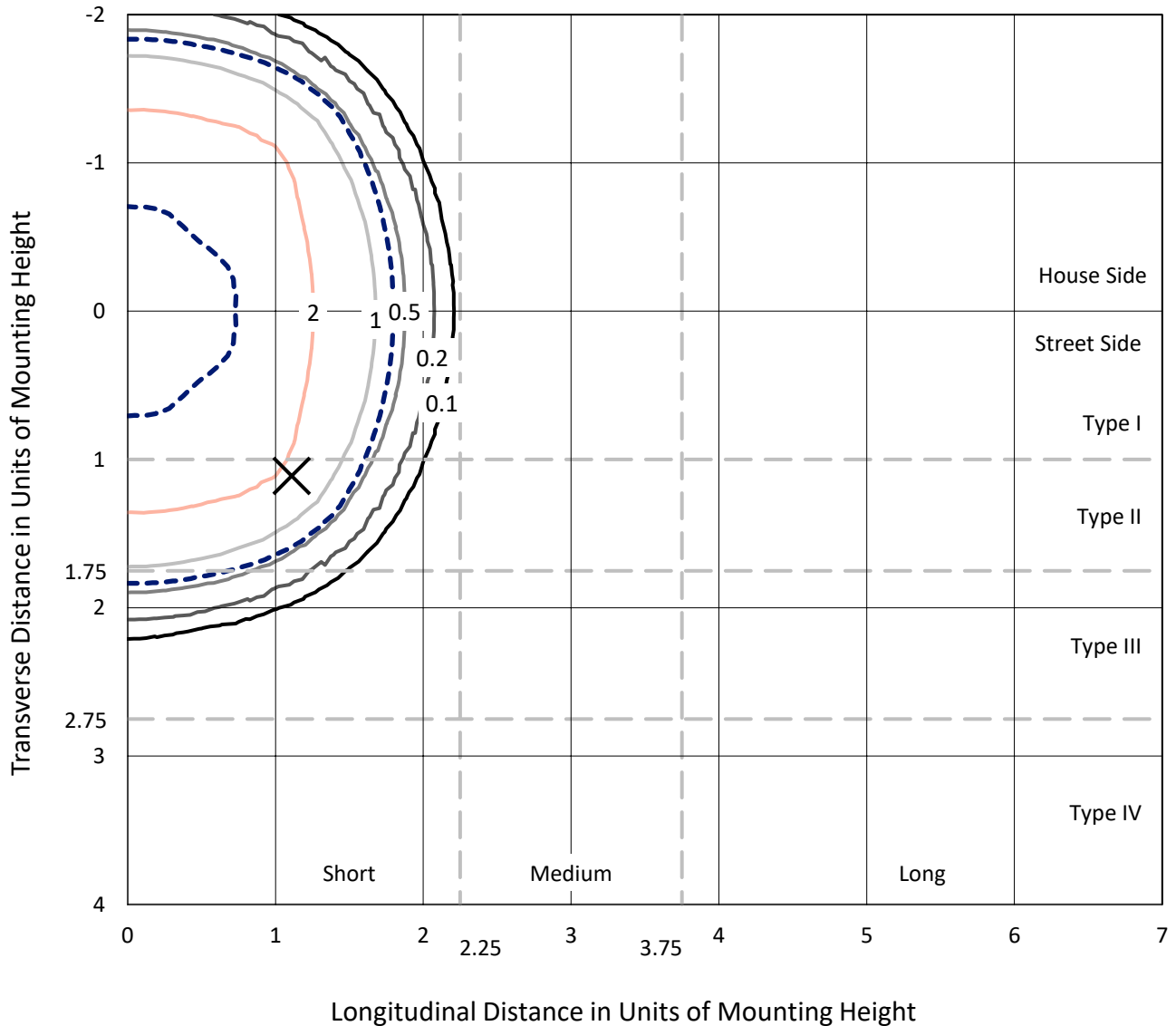
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

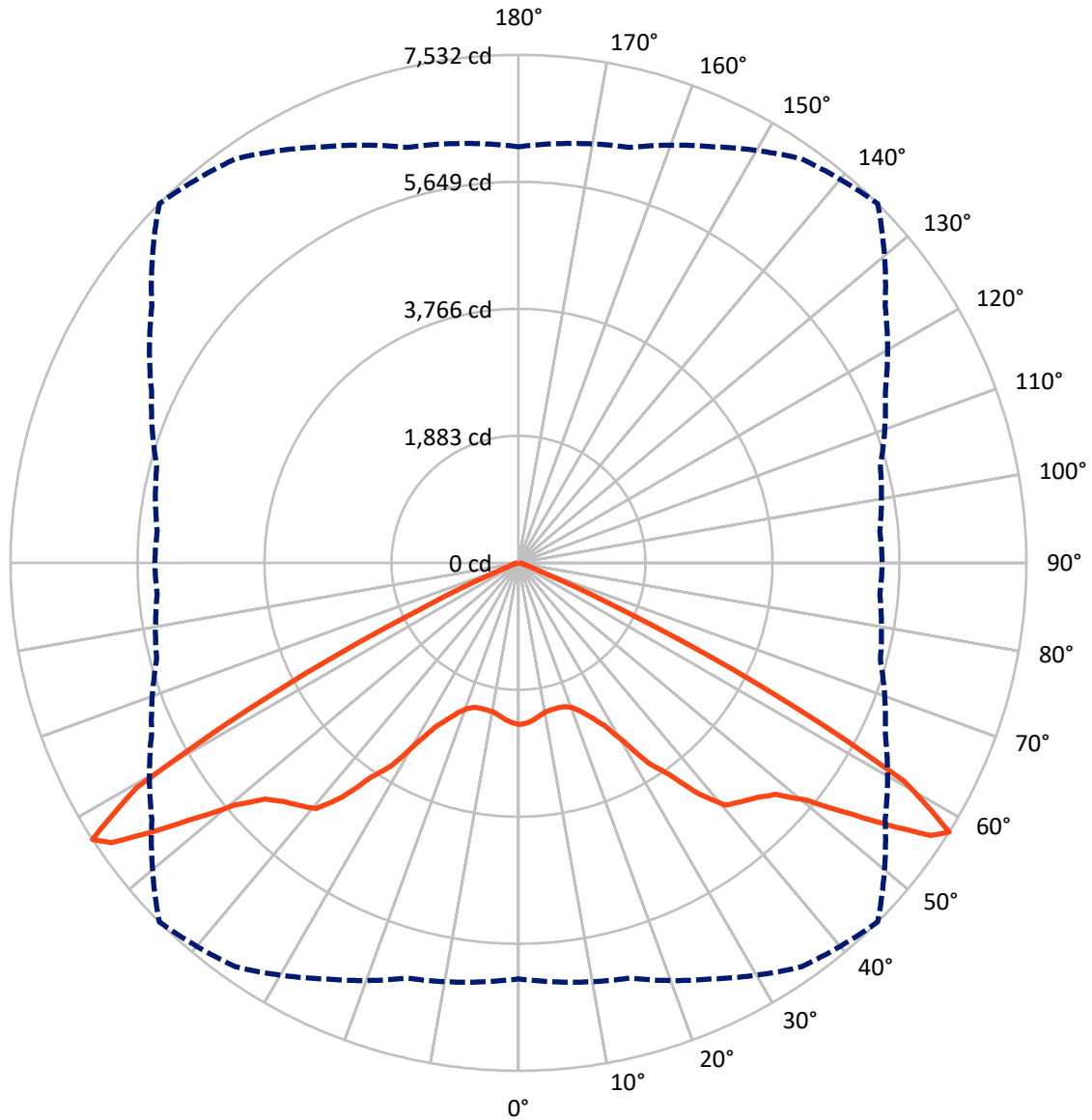
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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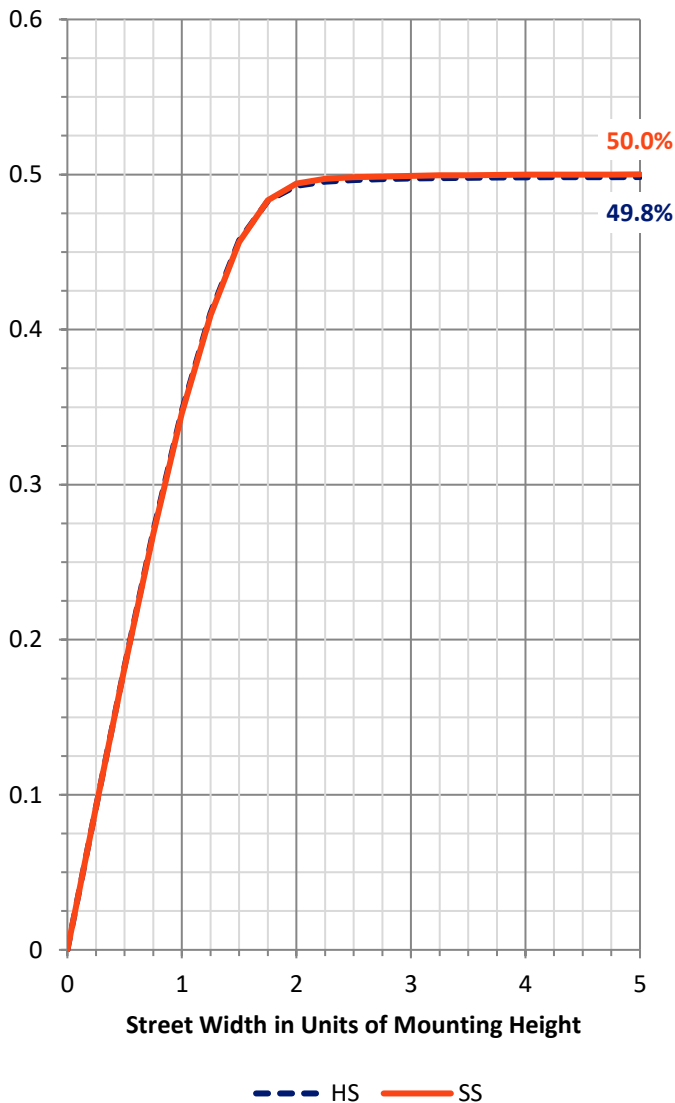
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7722.5	0.0	7722.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7722.5	0.0	7722.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15445.0	0.0	15445.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.1	1.4
10°-20°	636.3	4.1
20°-30°	1174.6	7.6
30°-40°	2310.0	15.0
40°-50°	3762.3	24.4
50°-60°	5365.5	34.7
60°-70°	1857.7	12.0
70°-80°	99.6	0.6
80°-90°	18.7	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°	15445.0	100.0
0°-180°	15445.0	100.0



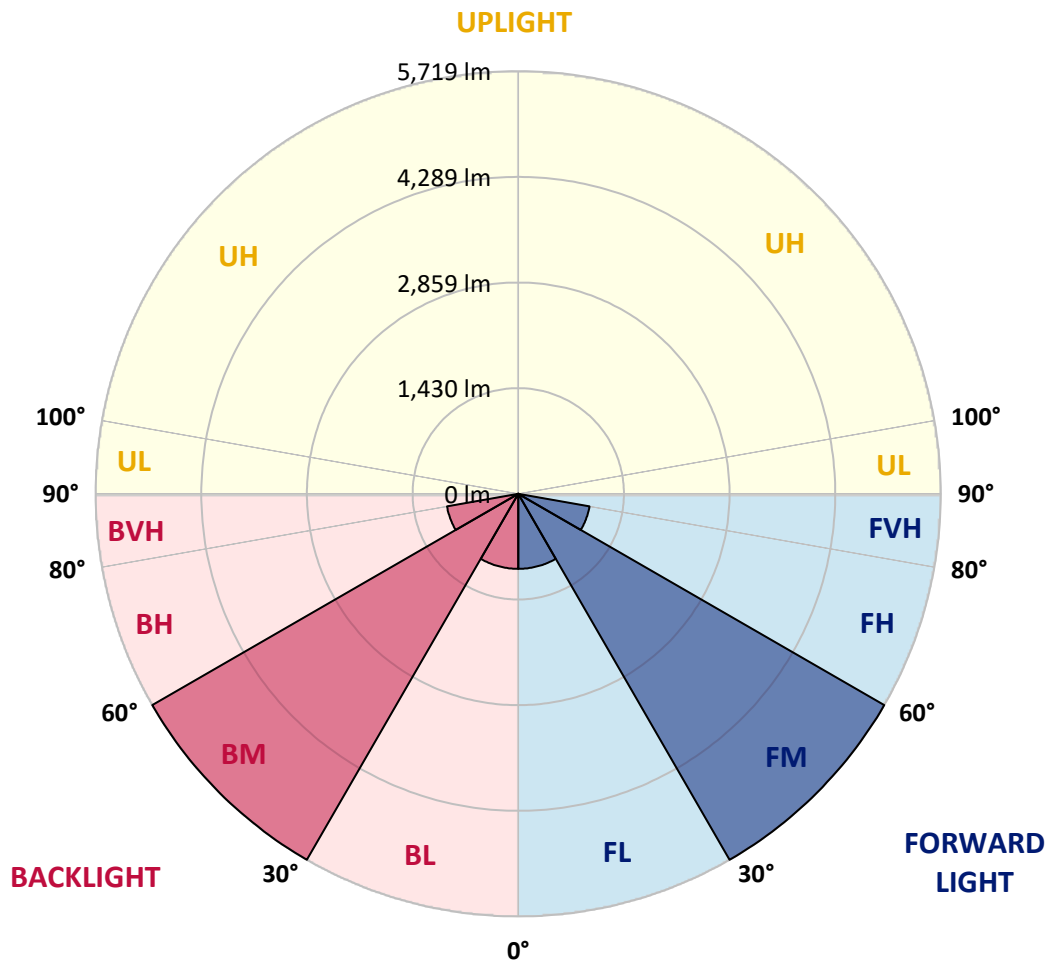
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1015.5	6.6			
FM	(30°-60°)	5718.9	37.0			
FH	(60°-80°)	978.7	6.3			G1/1800
FVH	(80°-90°)	9.4	0.1			G0/10
BL	(0°-30°)	1015.5	6.6	B3/2500		
BM	(30°-60°)	5718.9	37.0	B4/8500		
BH	(60°-80°)	978.7	6.3	B2/1000		G1/1800
BVH	(80°-90°)	9.4	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°	2395.7	2395.7	2395.7	2395.7	2395.7	2395.7	2395.7	2395.7	2395.7	2395.7	2395.7
2.5°	2389.2	2402.1	2386.0	2379.6	2376.3	2376.3	2366.7	2366.7	2363.5	2366.7	2353.8
5°	2350.6	2363.5	2363.5	2360.3	2340.9	2337.7	2328.1	2321.6	2324.9	2312.0	2321.6
7.5°	2312.0	2321.6	2308.7	2305.5	2299.0	2286.2	2283.0	2254.0	2257.2	2257.2	2263.6
10°	2305.5	2302.3	2283.0	2266.9	2247.6	2244.4	2234.7	2228.2	2228.2	2225.0	2234.7
12.5°	2305.5	2289.5	2286.2	2250.8	2218.6	2231.4	2205.7	2189.6	2212.2	2218.6	2231.4
15°	2302.3	2318.4	2263.6	2247.6	2225.0	2228.2	2205.7	2189.6	2202.5	2208.9	2218.6
17.5°	2321.6	2312.0	2295.8	2263.6	2254.0	2241.1	2212.2	2199.2	2199.2	2215.4	2218.6
20°	2373.1	2347.4	2315.2	2299.0	2308.7	2292.7	2257.2	2208.9	2221.8	2234.7	2244.4
22.5°	2421.4	2402.1	2379.6	2369.9	2424.7	2398.9	2337.7	2283.0	2263.6	2286.2	2302.3
25°	2514.8	2514.8	2473.0	2485.8	2547.1	2550.2	2479.4	2382.8	2369.9	2379.6	2386.0
27.5°	2704.8	2714.5	2679.0	2692.0	2717.7	2740.2	2679.0	2598.5	2569.6	2566.3	2576.0
30°	2910.9	2930.2	2927.0	2981.7	3055.8	3068.6	2978.5	2846.4	2759.6	2743.4	2756.3
32.5°	3181.3	3191.0	3184.6	3249.0	3448.6	3542.0	3306.9	3120.2	3004.2	3033.2	3004.2
35°	3690.1	3680.5	3609.6	3622.5	3786.7	3854.3	3628.9	3509.8	3455.1	3513.0	3500.2
37.5°	4128.0	4092.6	4034.6	4118.4	4289.0	4350.2	4115.2	3905.9	3806.0	3902.7	3944.5
40°	4498.3	4408.2	4327.7	4411.4	4640.0	4723.7	4379.2	4208.5	4169.9	4240.7	4330.9
42.5°	4810.7	4752.7	4646.4	4652.9	4804.2	4842.9	4566.0	4466.1	4427.5	4540.2	4585.3
45°	5032.9	4978.1	4878.3	4871.8	4987.8	4962.0	4714.1	4646.4	4669.0	4743.1	4765.6
47.5°	5145.6	5174.5	5116.6	5132.7	5193.8	5132.7	4936.2	4936.2	4884.7	4929.8	4907.2
50°	5470.8	5380.6	5454.6	5454.6	5519.1	5525.5	5329.1	5258.3	5119.8	5042.6	5042.6
52.5°	5850.8	5857.1	5886.2	5992.4	6101.9	6195.3	5915.1	5612.4	5380.6	5280.8	5267.9
55°	6163.1	6227.4	6343.4	6543.1	6858.6	6987.4	6504.4	5963.4	5680.0	5525.5	5493.3
56°	6333.7	6272.5	6472.2	6745.9	7158.1	7325.4	6601.0	6034.3	5721.9	5548.1	5544.8
57.5°	6169.5	6237.1	6375.6	6807.1	7312.6	7531.6	6636.4	6002.0	5554.5	5377.4	5393.5
60°	4871.8	4936.2	5123.0	5606.0	6398.2	6568.8	5615.7	4949.1	4549.9	4295.5	4298.7
62.5°	2756.3	2804.7	2949.6	3397.1	3889.8	4054.0	3500.2	3055.8	2778.8	2637.2	2592.1
65°	1014.3	995.0	1017.5	1246.1	1548.8	1687.3	1455.4	1230.0	1085.1	1033.6	1014.3
67.5°	380.0	350.9	328.4	350.9	441.1	466.9	428.2	357.4	334.9	344.6	350.9
70°	235.1	222.2	177.1	167.4	164.2	161.0	170.6	180.3	206.0	241.5	247.9
72.5°	164.2	154.6	125.6	119.2	112.7	109.5	125.6	138.4	161.0	186.8	190.0
75°	64.4	67.6	64.4	70.8	74.1	77.3	90.2	99.8	109.5	109.5	106.2
77.5°	12.9	12.9	19.3	25.7	32.2	41.9	61.1	70.8	74.1	70.8	61.1
80°	0.0	0.0	6.5	12.9	25.7	35.4	54.7	61.1	67.6	61.1	48.3
82.5°	0.0	0.0	6.5	16.1	25.7	32.2	51.6	64.4	74.1	67.6	51.6
85°	0.0	0.0	6.5	12.9	19.3	22.5	22.5	16.1	16.1	9.7	6.5
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)