

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: P532775

Luminaire Tested: **GALN-SA8A-830-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532775
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-SA8A-830-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA 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: 15307 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 244
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



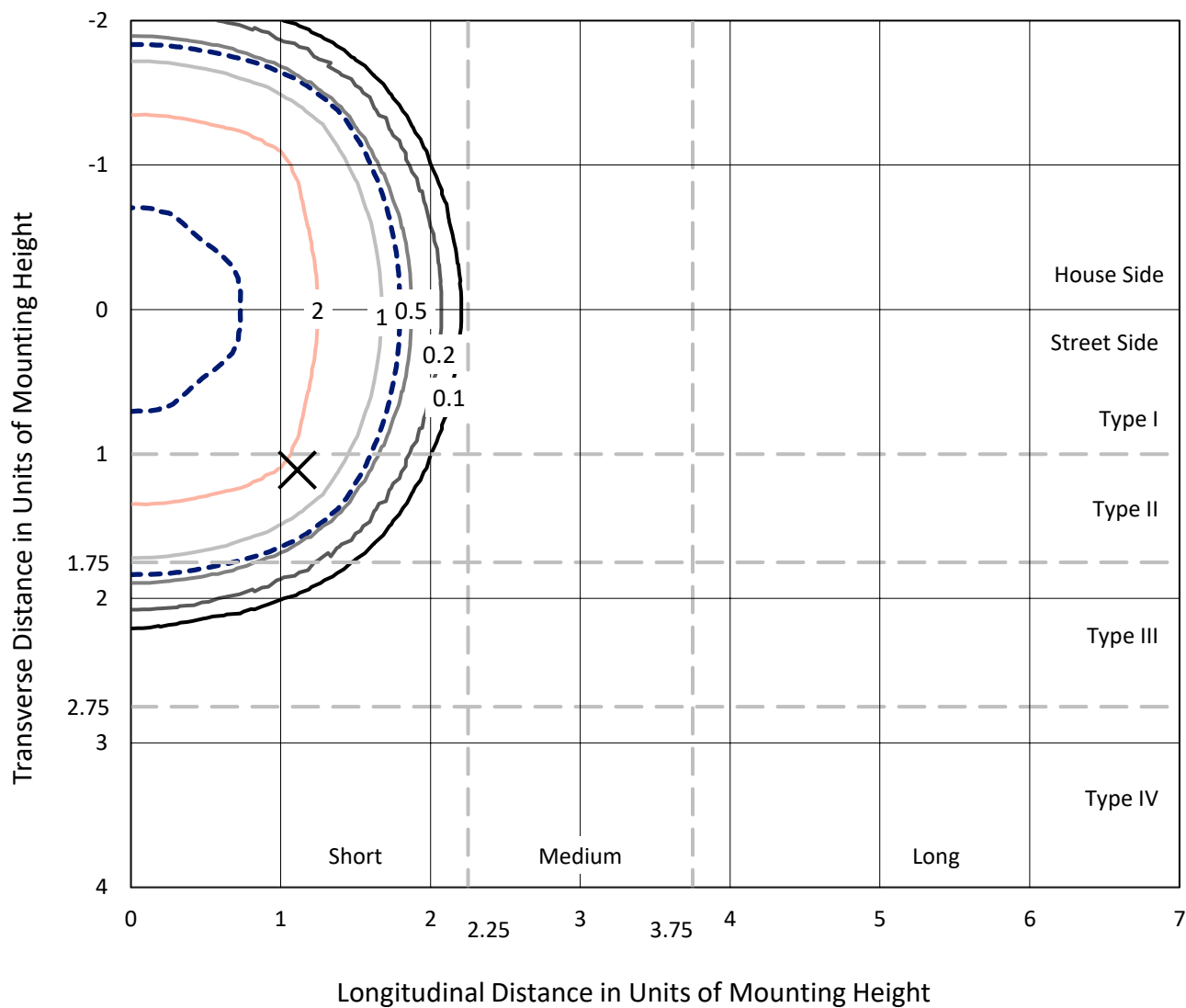
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

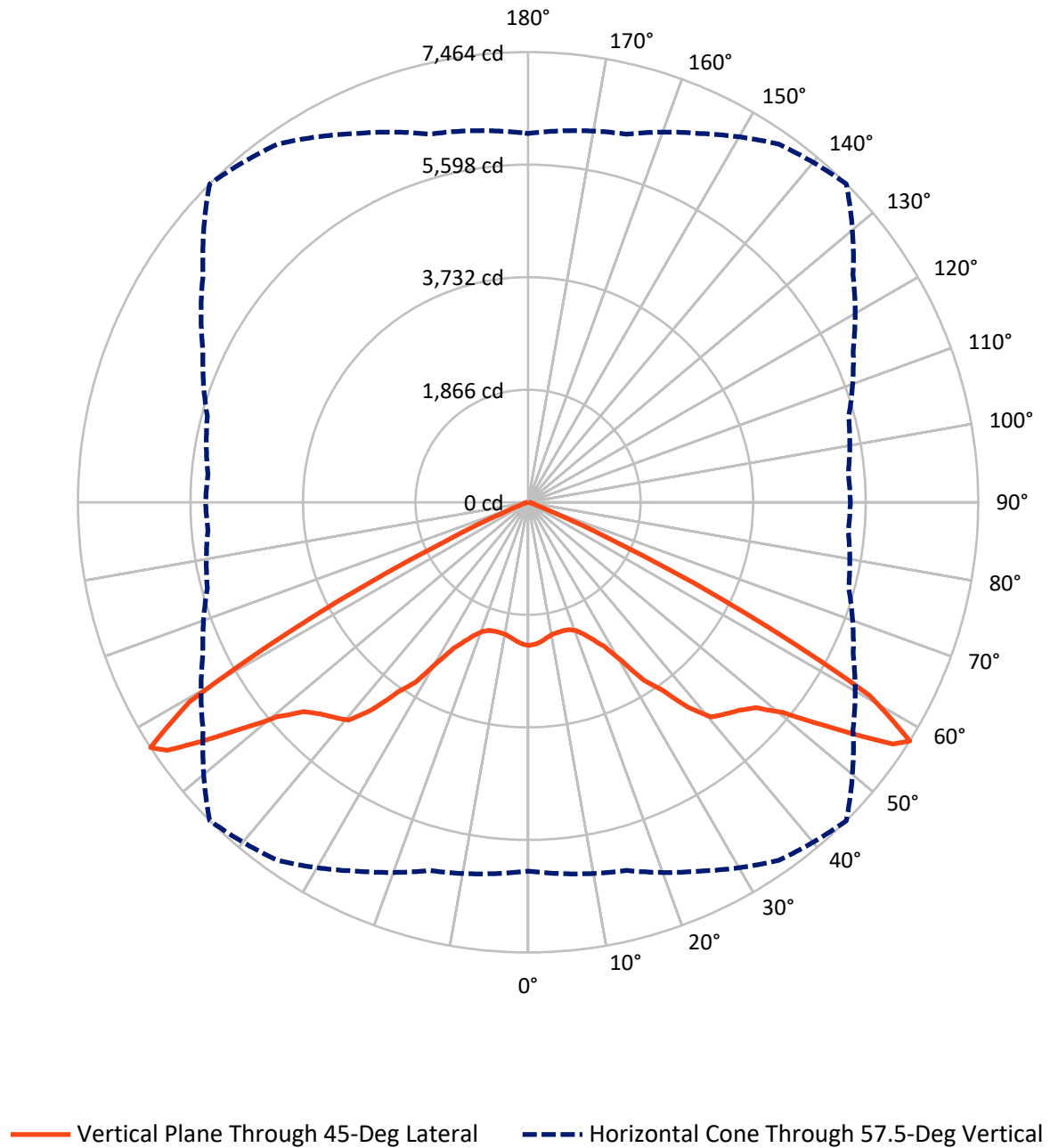


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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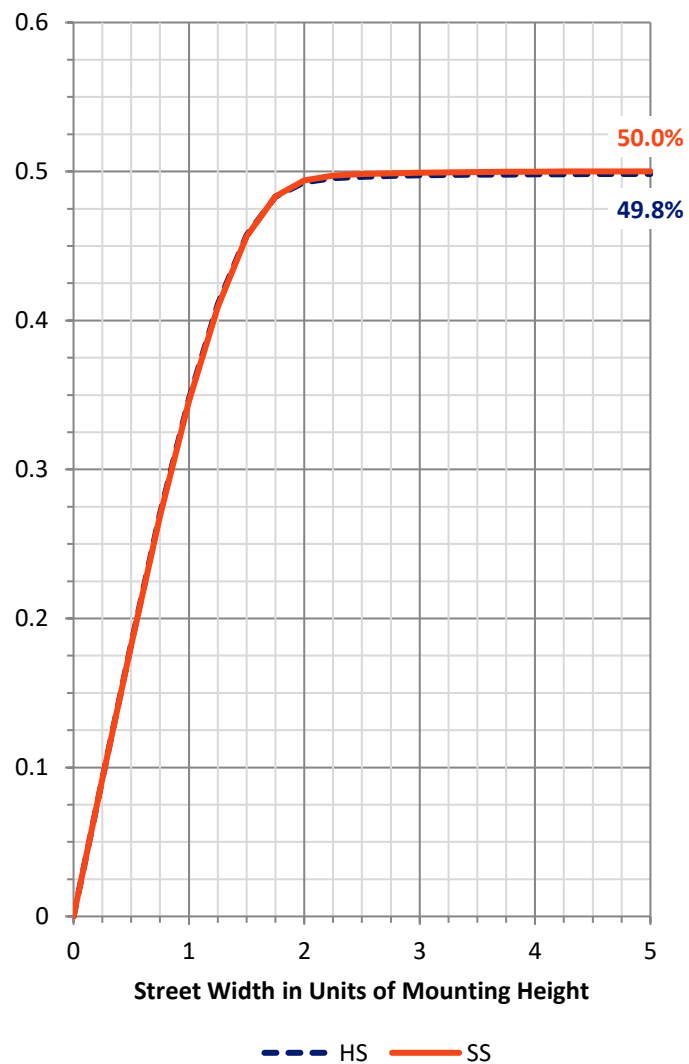
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7653.5	0.0	7653.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7653.5	0.0	7653.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15307.0	0.0	15307.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.2	1.4
10°-20°	630.7	4.1
20°-30°	1164.1	7.6
30°-40°	2289.3	15.0
40°-50°	3728.7	24.4
50°-60°	5317.6	34.7
60°-70°	1841.1	12.0
70°-80°	98.8	0.6
80°-90°	18.6	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°	15307.0	100.0
0°-180°	15307.0	100.0

Coefficient of Utilization



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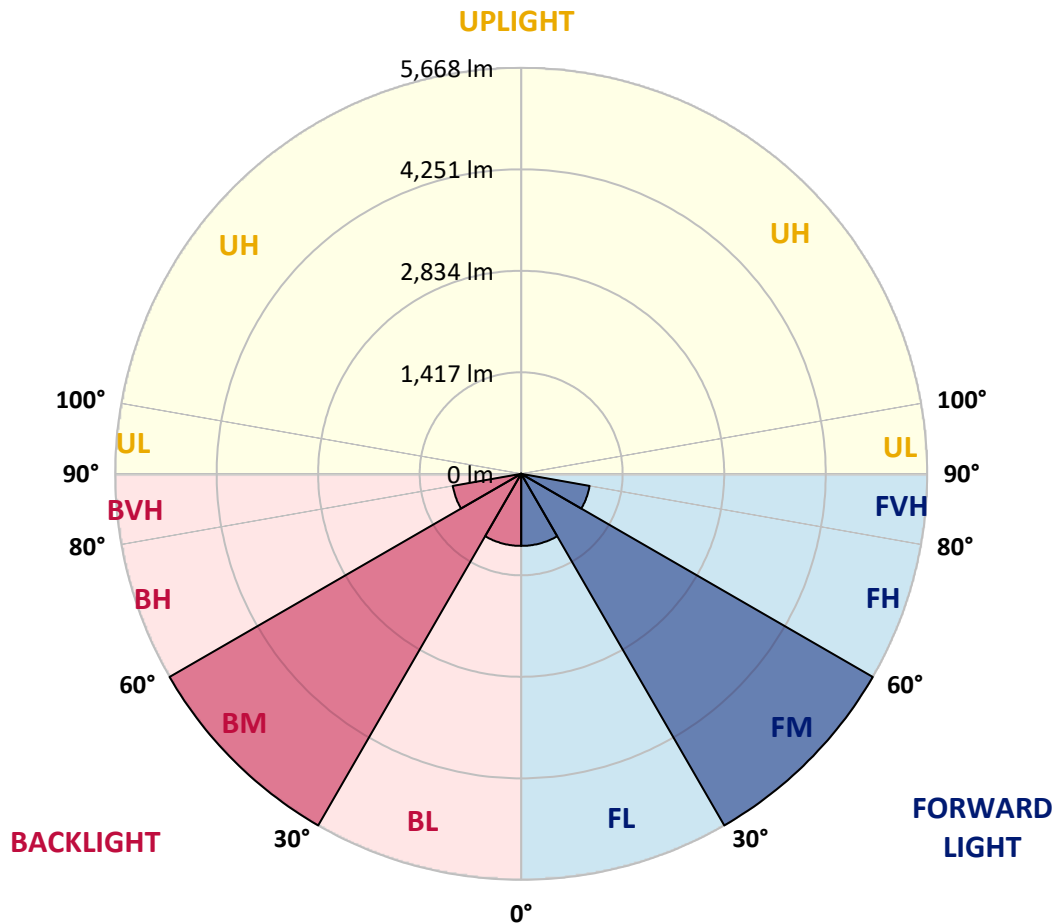
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1006.5	6.6			
FM	(30°-60°)	5667.8	37.0			
FH	(60°-80°)	969.9	6.3			G1/1800
FVH	(80°-90°)	9.3	0.1			G0/10
BL	(0°-30°)	1006.5	6.6	B3/2500		
BM	(30°-60°)	5667.8	37.0	B4/8500		
BH	(60°-80°)	969.9	6.3	B2/1000		G1/1800
BVH	(80°-90°)	9.3	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°	2374.3	2374.3	2374.3	2374.3	2374.3	2374.3	2374.3	2374.3	2374.3	2374.3	2374.3
2.5°	2367.9	2380.7	2364.7	2358.3	2355.1	2355.1	2345.6	2345.6	2342.4	2345.6	2332.8
5°	2329.6	2342.4	2342.4	2339.2	2320.0	2316.8	2307.3	2300.9	2304.1	2291.3	2300.9
7.5°	2291.3	2300.9	2288.1	2284.9	2278.5	2265.8	2262.6	2233.9	2237.1	2237.1	2243.4
10°	2284.9	2281.7	2262.6	2246.6	2227.5	2224.3	2214.7	2208.3	2208.3	2205.1	2214.7
12.5°	2284.9	2269.0	2265.8	2230.7	2198.8	2211.5	2186.0	2170.0	2192.4	2198.8	2211.5
15°	2281.7	2297.7	2243.4	2227.5	2205.1	2208.3	2186.0	2170.0	2182.8	2189.2	2198.8
17.5°	2300.9	2291.3	2275.3	2243.4	2233.9	2221.1	2192.4	2179.6	2179.6	2195.6	2198.8
20°	2351.9	2326.4	2294.5	2278.5	2288.1	2272.2	2237.1	2189.2	2201.9	2214.7	2224.3
22.5°	2399.8	2380.7	2358.3	2348.7	2403.0	2377.5	2316.8	2262.6	2243.4	2265.8	2281.7
25°	2492.4	2492.4	2450.9	2463.6	2524.3	2527.5	2457.2	2361.5	2348.7	2358.3	2364.7
27.5°	2680.6	2690.2	2655.1	2667.9	2693.4	2715.7	2655.1	2575.3	2546.6	2543.4	2553.0
30°	2884.9	2904.0	2900.8	2955.1	3028.5	3041.2	2951.9	2821.0	2734.9	2718.9	2731.7
32.5°	3152.9	3162.5	3156.1	3220.0	3417.8	3510.4	3277.4	3092.3	2977.4	3006.1	2977.4
35°	3657.2	3647.6	3577.4	3590.1	3752.9	3819.9	3596.5	3478.4	3424.2	3481.6	3468.9
37.5°	4091.2	4056.1	3998.6	4081.6	4250.7	4311.4	4078.4	3871.0	3772.0	3867.8	3909.3
40°	4458.1	4368.8	4289.0	4372.0	4598.6	4681.5	4340.1	4170.9	4132.6	4202.9	4292.2
42.5°	4767.7	4710.3	4604.9	4611.3	4761.3	4799.6	4525.2	4426.2	4387.9	4499.6	4544.3
45°	4987.9	4933.6	4834.7	4828.3	4943.2	4917.7	4672.0	4604.9	4627.3	4700.7	4723.0
47.5°	5099.6	5128.3	5070.9	5086.8	5147.5	5086.8	4892.2	4892.2	4841.1	4885.8	4863.4
50°	5421.9	5332.5	5405.9	5405.9	5469.8	5476.2	5281.5	5211.3	5074.1	4997.5	4997.5
52.5°	5798.5	5804.8	5833.6	5938.9	6047.4	6139.9	5862.3	5562.3	5332.5	5233.6	5220.9
55°	6108.0	6171.8	6286.7	6484.6	6797.3	6925.0	6446.3	5910.2	5629.3	5476.2	5444.2
56°	6277.2	6216.5	6414.4	6685.6	7094.1	7260.1	6542.0	5980.4	5670.8	5498.5	5495.3
57.5°	6114.4	6181.4	6318.6	6746.3	7247.3	7464.3	6577.1	5948.5	5504.9	5329.4	5345.3
60°	4828.3	4892.2	5077.2	5555.9	6341.0	6510.1	5565.5	4904.9	4509.2	4257.1	4260.3
62.5°	2731.7	2779.6	2923.2	3366.7	3855.0	4017.8	3468.9	3028.5	2754.0	2613.6	2568.9
65°	1005.2	986.1	1008.4	1235.0	1535.0	1672.2	1442.4	1219.1	1075.4	1024.4	1005.2
67.5°	376.6	347.8	325.5	347.8	437.2	462.7	424.4	354.2	331.9	341.5	347.8
70°	233.0	220.2	175.5	165.9	162.8	159.6	169.1	178.7	204.2	239.3	245.7
72.5°	162.8	153.2	124.5	118.1	111.7	108.5	124.5	137.2	159.6	185.1	188.3
75°	63.8	67.0	63.8	70.2	73.4	76.6	89.4	98.9	108.5	108.5	105.3
77.5°	12.8	12.8	19.1	25.5	31.9	41.5	60.6	70.2	73.4	70.2	60.6
80°	0.0	0.0	6.4	12.8	25.5	35.1	54.3	60.6	67.0	60.6	47.9
82.5°	0.0	0.0	6.4	16.0	25.5	31.9	51.1	63.8	73.4	67.0	51.1
85°	0.0	0.0	6.4	12.8	19.1	22.3	22.3	16.0	16.0	9.6	6.4
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)