

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: P652328

Luminaire Tested: **GALN-SA4B-840-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-840-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19531.4 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 164
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

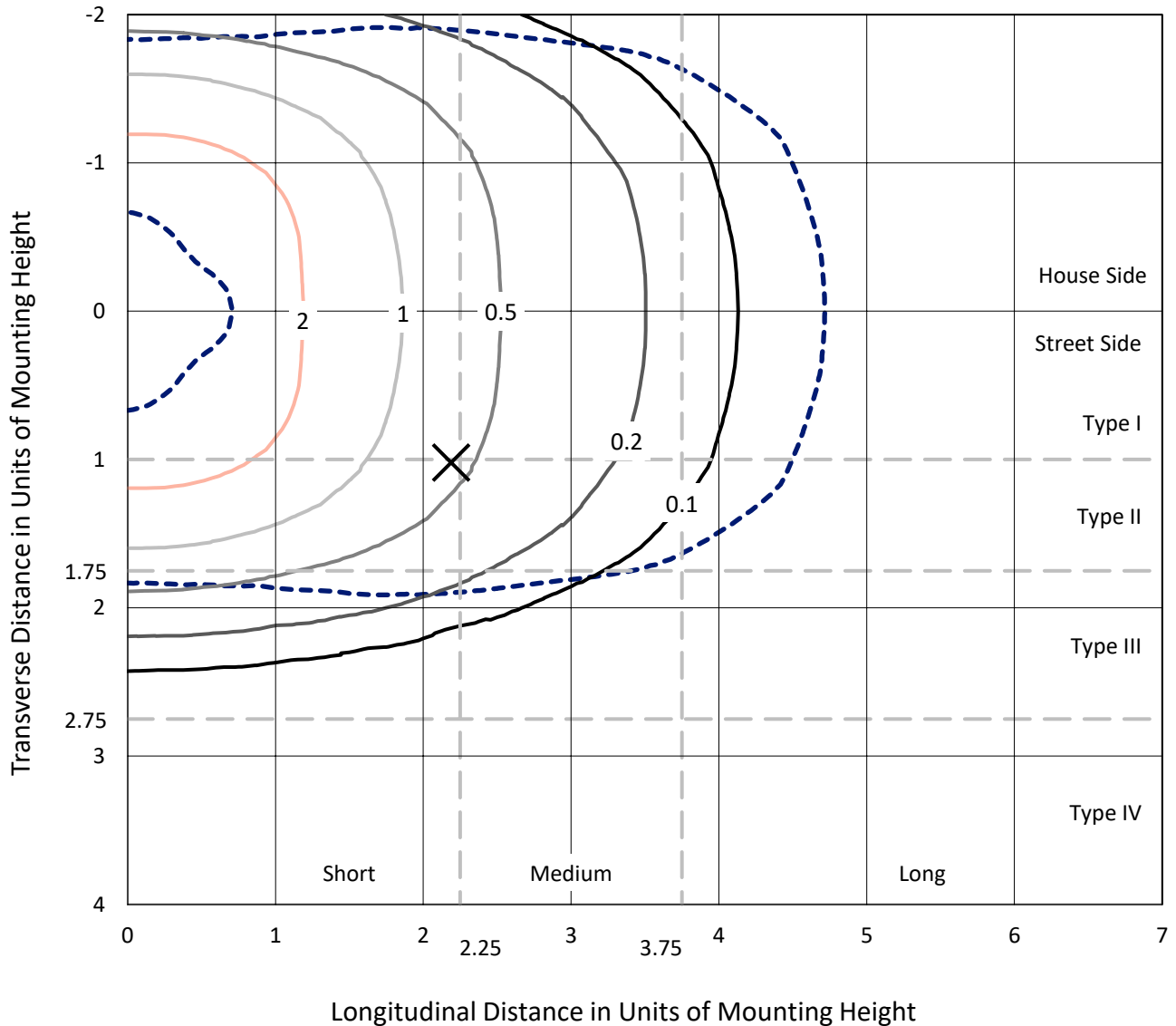




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Iso-Footcandle Lines of Horizontal Illumination

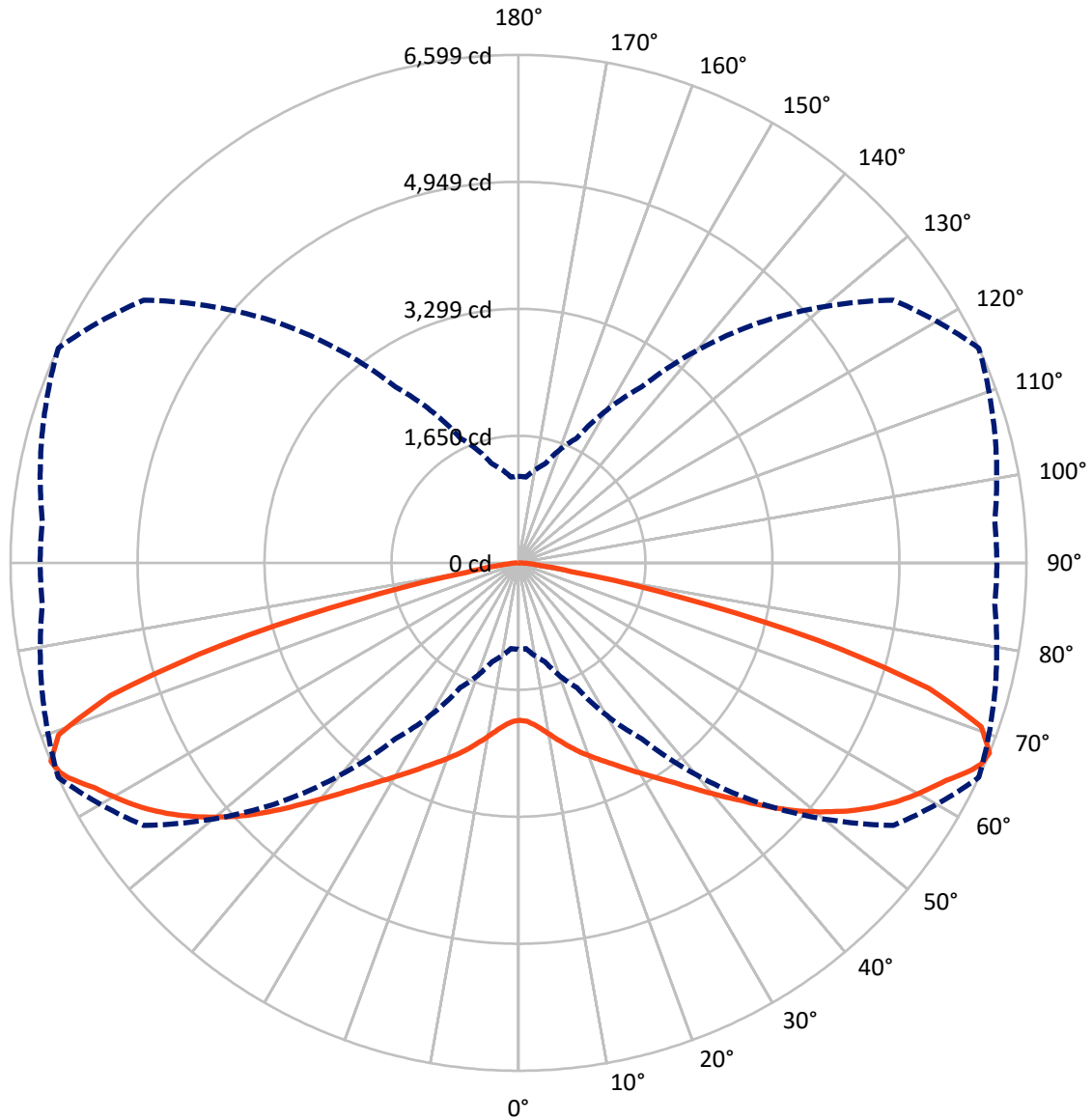
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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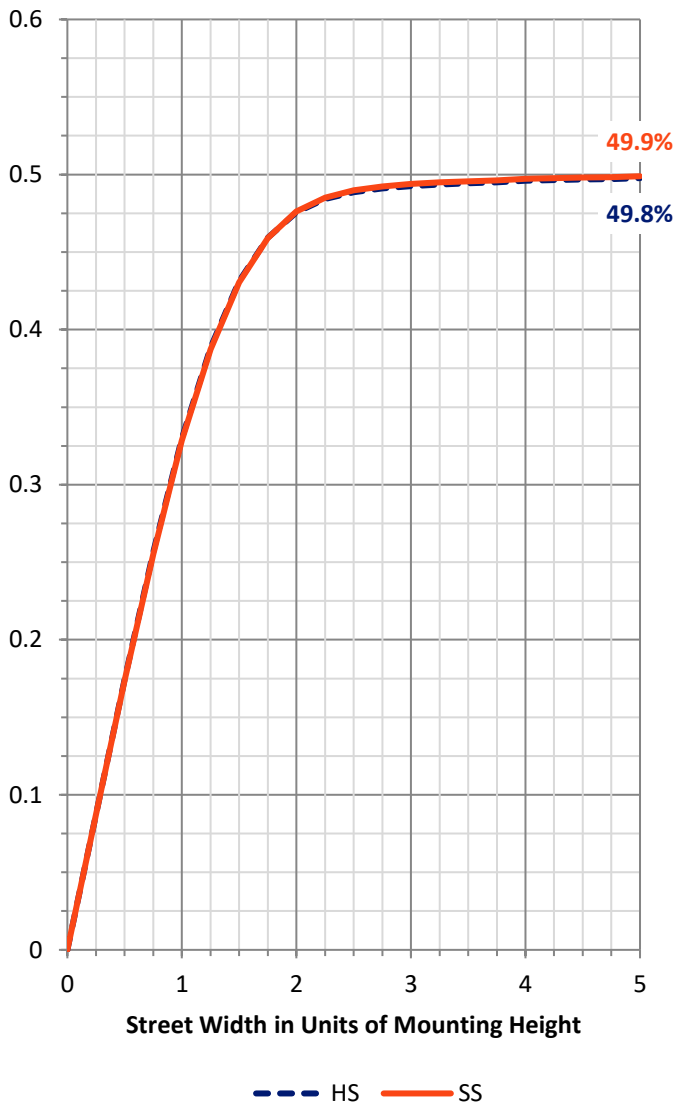
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9765.7	0.0	9765.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9765.7	0.0	9765.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	19531.4	0.0	19531.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.8	1.0
10°-20°	675.3	3.5
20°-30°	1320.9	6.8
30°-40°	2246.7	11.5
40°-50°	3555.9	18.2
50°-60°	4715.0	24.1
60°-70°	4447.7	22.8
70°-80°	2198.7	11.3
80°-90°	169.4	0.9
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°	19531.4	100.0
0°-180°	19531.4	100.0

Coefficient of Utilization



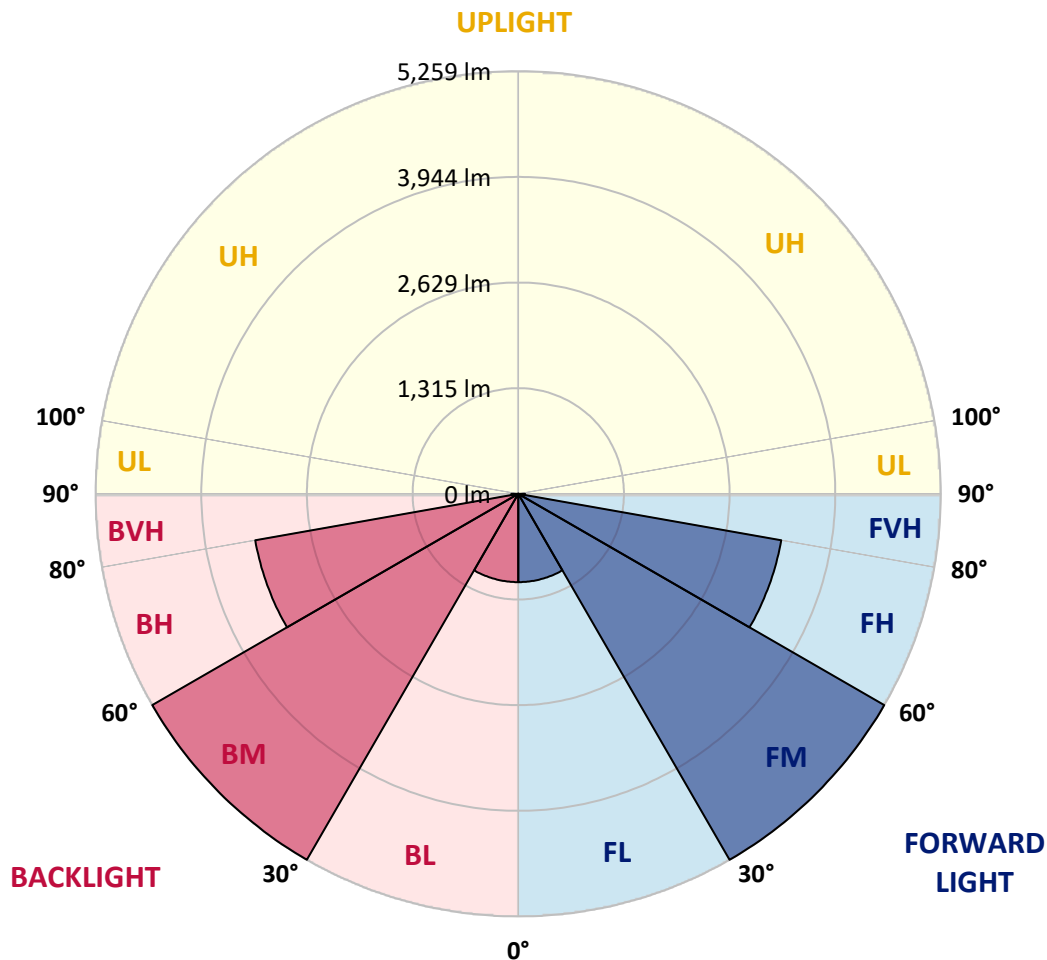
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1099.0	5.6			
FM (30°-60°)	5258.8	26.9			
FH (60°-80°)	3323.2	17.0			G2/5000
FVH (80°-90°)	84.7	0.4			G1/100
BL (0°-30°)	1099.0	5.6	B3/2500		
BM (30°-60°)	5258.8	26.9	B4/8500		
BH (60°-80°)	3323.2	17.0	B4/5000		G4/5000
BVH (80°-90°)	84.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2045.7	2045.7	2045.7	2045.7	2045.7	2045.7	2045.7	2045.7	2045.7	2045.7	2045.7
2.5°	2035.3	2037.4	2039.4	2042.6	2046.8	2053.0	2057.3	2060.4	2068.8	2069.8	2068.8
5°	2028.0	2030.0	2035.3	2044.7	2058.3	2077.1	2091.8	2109.6	2123.2	2132.6	2130.5
7.5°	2026.9	2031.1	2039.4	2059.4	2085.5	2118.0	2151.4	2181.8	2208.0	2228.9	2225.7
10°	2043.6	2048.8	2062.5	2091.8	2132.6	2179.7	2226.8	2271.8	2309.5	2336.6	2346.1
12.5°	2071.9	2076.1	2101.2	2145.1	2203.8	2262.4	2315.7	2371.2	2423.5	2469.5	2469.5
15°	2121.1	2128.4	2159.8	2223.6	2295.8	2363.9	2418.3	2476.8	2533.3	2585.7	2601.4
17.5°	2189.1	2199.6	2246.6	2328.3	2420.4	2483.1	2534.4	2582.5	2631.7	2681.9	2689.3
20°	2282.2	2292.7	2355.5	2453.9	2562.7	2638.0	2672.5	2684.1	2708.1	2756.3	2762.5
22.5°	2408.9	2419.3	2489.4	2600.4	2721.7	2803.3	2818.0	2790.8	2784.5	2822.1	2826.3
25°	2552.2	2561.6	2642.2	2761.5	2887.1	2976.0	2971.8	2904.8	2867.1	2890.2	2896.5
27.5°	2713.3	2726.9	2808.6	2932.1	3068.1	3146.6	3134.0	3036.7	2956.1	2951.9	2954.0
30°	2919.5	2934.2	3011.6	3129.9	3263.8	3336.0	3309.8	3179.0	3054.5	3012.6	3012.6
32.5°	3137.2	3173.8	3252.2	3375.8	3480.4	3532.7	3492.9	3336.0	3170.7	3112.0	3108.9
35°	3420.8	3440.6	3518.1	3638.4	3716.9	3757.7	3681.3	3512.8	3322.4	3253.3	3243.9
37.5°	3698.0	3714.8	3804.8	3919.9	4015.1	4013.0	3909.4	3723.1	3510.8	3433.3	3427.0
40°	3981.6	3999.4	4102.0	4207.6	4302.9	4294.5	4168.9	3960.7	3734.6	3647.8	3664.6
42.5°	4227.5	4247.4	4363.5	4514.2	4600.0	4597.9	4452.5	4218.1	3982.6	3905.2	3919.9
45°	4451.4	4469.2	4604.2	4776.9	4902.4	4918.2	4759.1	4511.1	4269.3	4169.9	4174.1
47.5°	4609.4	4642.9	4784.2	4982.0	5152.6	5208.0	5052.1	4809.3	4531.0	4427.4	4433.7
50°	4729.8	4750.7	4904.5	5129.5	5345.1	5460.2	5334.6	5085.6	4792.6	4682.7	4697.3
52.5°	4744.4	4769.6	4937.0	5196.5	5472.7	5647.5	5585.8	5355.6	5059.4	4946.4	4977.8
55°	4625.2	4639.8	4839.7	5154.7	5523.0	5786.7	5802.4	5606.7	5313.7	5227.9	5248.8
57.5°	4285.1	4322.7	4576.0	4959.0	5453.9	5860.9	5964.5	5834.8	5571.1	5486.3	5519.8
60°	3727.3	3765.0	4019.3	4504.8	5193.3	5826.4	6098.5	6036.8	5804.5	5736.5	5754.2
62.5°	2920.5	2917.4	3232.4	3827.8	4675.4	5656.9	6197.9	6231.4	6034.7	5948.9	5976.1
65°	1892.9	1902.3	2206.9	2848.3	3893.7	5225.8	6219.9	6479.4	6260.7	6131.0	6150.8
66°	1522.5	1550.8	1809.2	2400.5	3495.0	4943.2	6153.9	6552.7	6329.8	6172.8	6182.2
67.5°	1123.8	1118.6	1331.1	1787.3	2790.8	4406.4	5947.8	6598.7	6408.3	6210.4	6214.7
70°	641.4	640.4	715.8	981.5	1640.8	3102.6	5013.4	6377.9	6567.3	6346.5	6335.0
72.5°	468.8	465.7	476.1	542.0	800.5	1566.4	3458.4	5574.2	6485.7	6324.5	6292.1
75°	393.4	391.3	389.3	397.6	448.9	709.5	1835.4	4009.9	5627.6	5936.3	5902.8
77.5°	321.3	321.3	322.3	320.2	322.3	373.6	760.8	2149.3	3427.0	3825.7	3918.8
80°	251.1	250.1	267.9	260.5	243.8	239.6	336.9	691.6	1137.5	1131.1	933.4
82.5°	185.2	172.7	204.0	198.8	180.0	152.8	196.7	295.1	379.9	246.9	183.1
85°	117.2	116.1	144.4	131.9	109.8	72.2	94.2	126.7	156.9	95.2	77.5
87.5°	20.9	19.8	46.0	33.5	33.5	20.9	26.2	34.6	51.3	35.6	26.2
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)