

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: P651887

Luminaire Tested: **GALN-SA5A-840-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-840-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16876.3 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

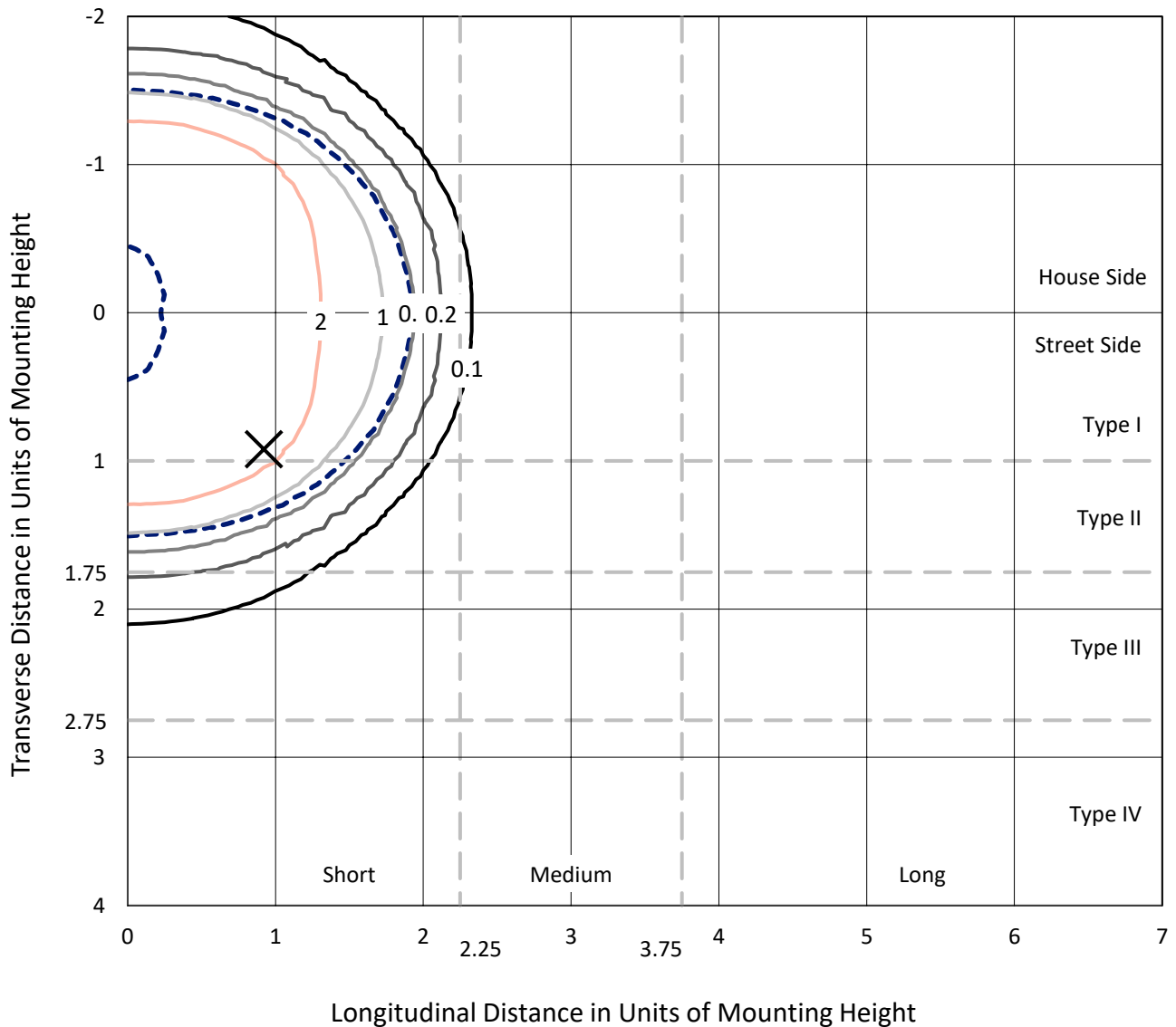
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

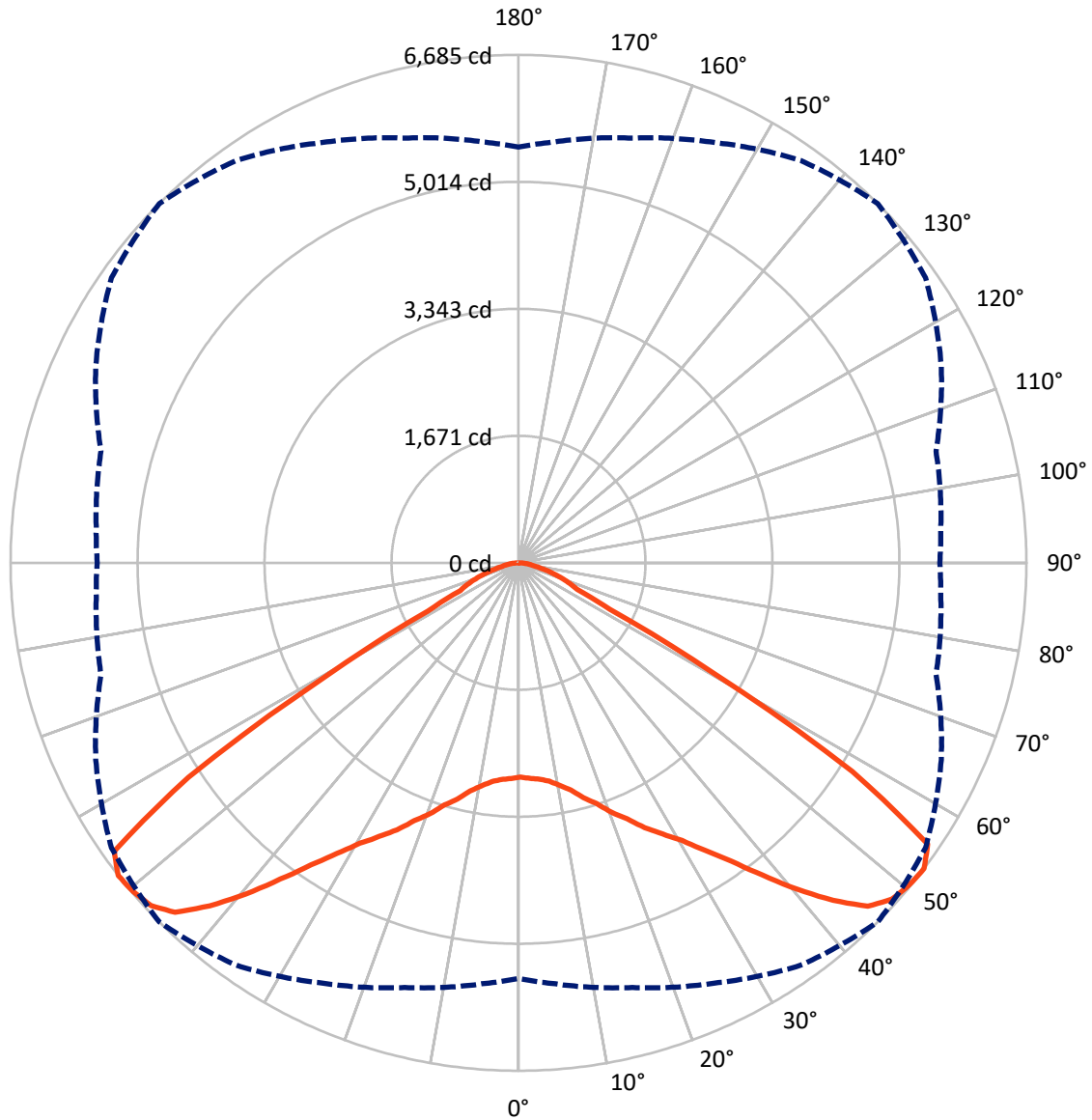
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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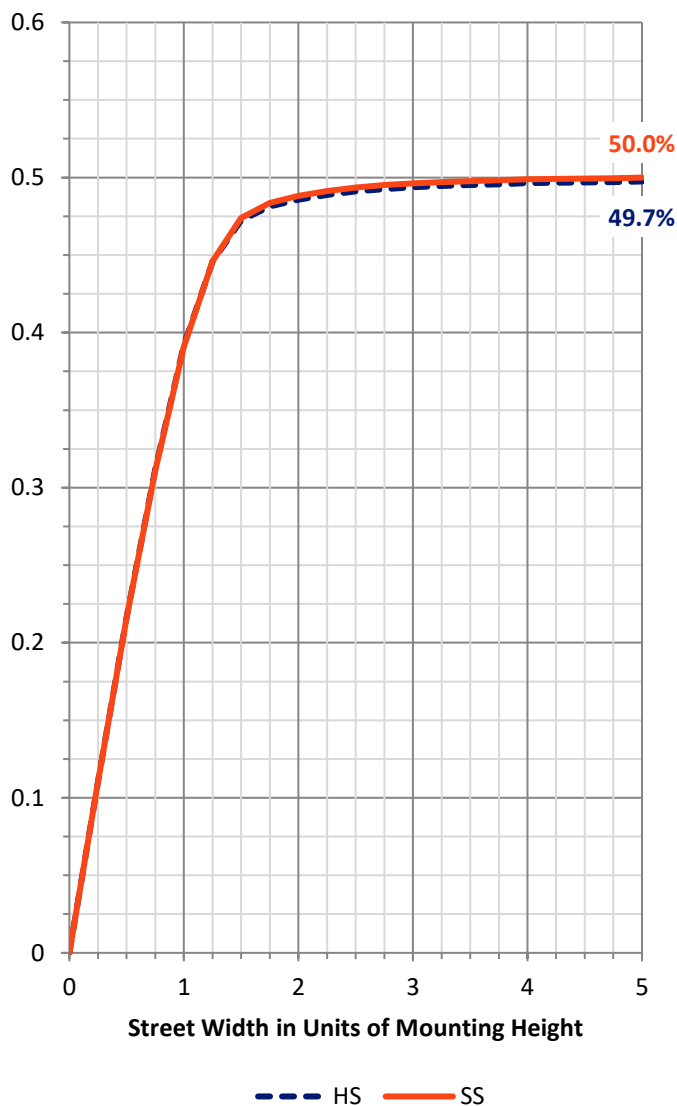
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8438.2	0.0	8438.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8438.2	0.0	8438.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	16876.3	0.0	16876.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.2	1.6
10°-20°	910.7	5.4
20°-30°	1733.9	10.3
30°-40°	2977.3	17.6
40°-50°	4576.2	27.1
50°-60°	4647.0	27.5
60°-70°	1295.1	7.7
70°-80°	382.0	2.3
80°-90°	76.9	0.5
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°	16876.3	100.0
0°-180°	16876.3	100.0

Coefficient of Utilization



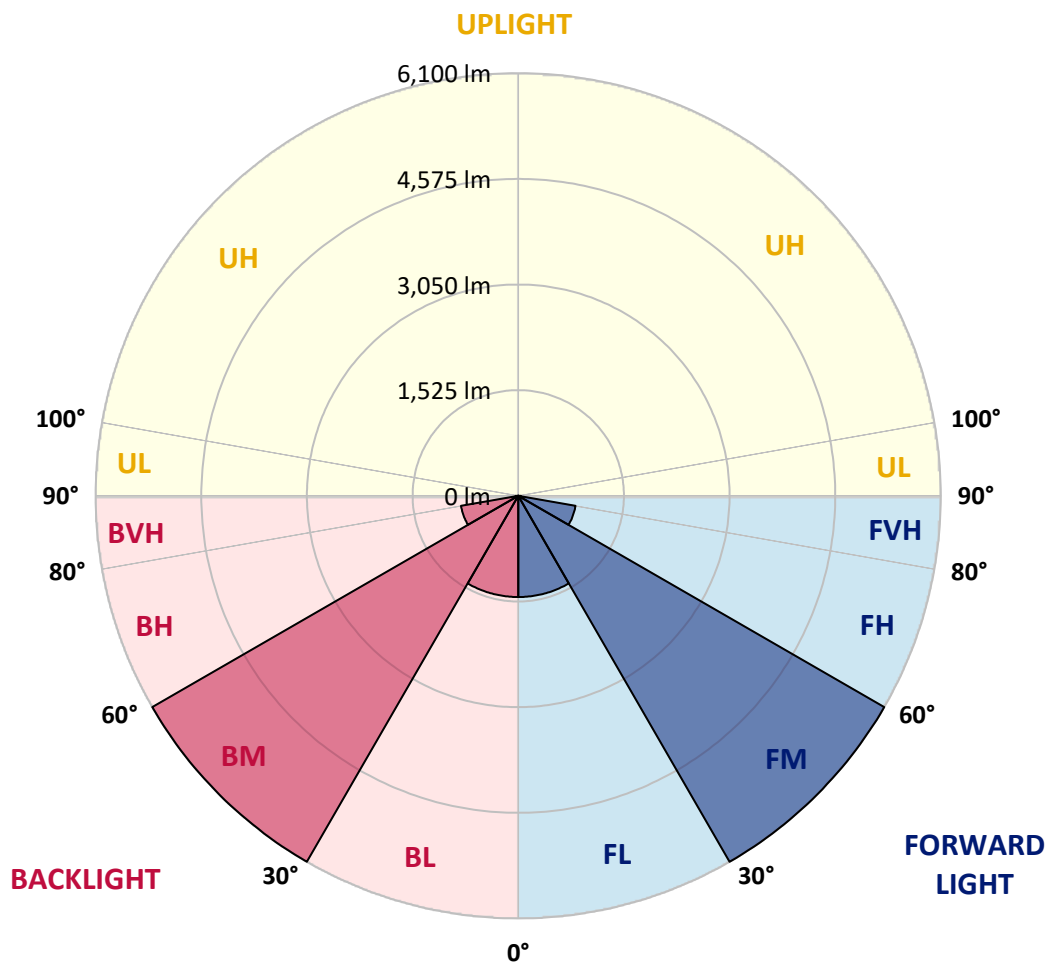
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1460.9	8.7			
FM (30°-60°)	6100.2	36.1			
FH (60°-80°)	838.5	5.0			G1/1800
FVH (80°-90°)	38.5	0.2			G1/100
BL (0°-30°)	1460.9	8.7	B3/2500		
BM (30°-60°)	6100.2	36.1	B4/8500		
BH (60°-80°)	838.5	5.0	B2/1000		G1/1800
BVH (80°-90°)	38.5	0.2			G1/100
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°	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1
2.5°	2827.4	2798.1	2808.5	2814.8	2842.1	2840.0	2833.7	2842.1	2850.4	2852.5	2848.3
5°	2825.3	2804.3	2812.7	2819.0	2846.2	2860.9	2856.7	2892.3	2917.4	2911.1	2942.6
7.5°	2808.5	2821.1	2810.6	2842.1	2865.1	2900.7	2938.4	2971.9	3003.3	3039.0	3045.2
10°	2846.2	2846.2	2865.1	2890.2	2951.0	2978.1	3032.6	3080.8	3141.6	3183.4	3166.7
12.5°	2886.1	2892.3	2892.3	2957.2	3007.5	3068.2	3118.5	3183.4	3269.3	3319.6	3344.7
15°	2925.8	2930.0	2951.0	3039.0	3114.3	3210.7	3256.8	3315.4	3363.6	3457.8	3459.9
17.5°	2961.4	2984.5	3047.3	3145.8	3240.0	3332.1	3405.5	3466.2	3508.1	3545.7	3537.4
20°	3095.5	3112.2	3177.1	3275.6	3415.9	3506.0	3531.1	3541.5	3568.8	3644.2	3621.2
22.5°	3225.3	3231.6	3292.3	3443.1	3541.5	3661.0	3688.2	3681.9	3692.3	3711.2	3744.7
25°	3359.4	3369.8	3453.6	3581.4	3719.6	3862.0	3885.0	3836.9	3822.2	3843.1	3845.2
27.5°	3531.1	3533.2	3640.0	3751.0	3908.0	4042.1	4077.8	4040.0	3970.9	3987.7	4014.8
30°	3748.9	3734.2	3841.1	4000.2	4165.7	4241.1	4301.8	4283.0	4207.6	4192.9	4169.8
32.5°	4000.2	4004.4	4100.8	4274.6	4383.5	4509.2	4574.1	4542.7	4494.5	4469.3	4484.0
35°	4354.2	4373.0	4438.0	4582.4	4758.4	4821.2	4923.8	4856.9	4731.1	4762.6	4789.8
37.5°	4645.3	4699.8	4821.2	4992.9	5097.6	5212.9	5250.5	5160.5	5068.4	5030.7	5120.7
40°	5091.4	5074.6	5208.6	5380.4	5535.4	5650.6	5602.4	5512.3	5284.1	5286.2	5311.3
42.5°	5474.7	5483.1	5585.7	5790.9	6002.5	6073.6	5920.7	5700.9	5447.4	5420.2	5474.7
45°	5797.2	5830.7	5889.4	6163.7	6371.1	6448.5	6165.8	5906.1	5566.8	5453.7	5543.8
47.5°	5912.4	5966.8	6094.6	6345.9	6551.1	6614.0	6387.8	6015.0	5677.8	5493.5	5541.7
50°	5929.1	5910.3	6119.7	6350.1	6530.2	6666.4	6467.4	6094.6	5650.6	5554.2	5539.6
52.5°	5470.5	5562.6	5786.8	6103.0	6467.4	6685.2	6538.6	6138.5	5688.3	5579.4	5543.8
55°	4427.4	4318.5	4727.0	5258.9	5929.1	6534.4	6513.5	6161.6	5711.3	5621.2	5573.1
57.5°	2471.4	2502.7	2733.2	3311.2	4176.2	5181.5	5790.9	5918.6	5700.9	5648.5	5673.6
60°	1143.5	1154.0	1252.4	1522.6	2058.8	2938.4	3740.5	4555.2	4930.1	5005.5	5005.5
62.5°	852.4	848.2	873.4	921.5	1034.6	1350.9	1803.3	2450.4	2965.6	3325.8	3420.1
65°	770.7	768.6	781.2	797.9	806.4	850.3	950.8	1149.8	1317.3	1413.7	1396.9
67.5°	674.4	672.3	676.5	686.9	701.6	724.7	749.8	791.6	850.3	846.1	835.6
70°	544.5	544.5	550.9	559.2	575.9	603.2	632.5	661.8	712.1	722.6	720.5
72.5°	402.1	395.9	408.4	425.1	441.9	475.4	506.9	534.0	569.7	580.1	575.9
75°	255.5	259.7	268.1	286.9	316.2	339.3	372.8	395.9	418.9	427.2	429.3
77.5°	142.4	146.6	161.3	184.3	213.6	238.8	268.1	286.9	301.6	303.7	305.8
80°	85.9	88.0	102.6	123.5	148.7	175.9	199.0	217.8	230.3	224.1	222.0
82.5°	52.4	54.4	67.0	85.9	106.8	127.7	152.9	169.6	182.2	173.8	165.4
85°	27.2	29.4	39.8	52.4	69.1	79.6	79.6	71.2	69.1	64.9	62.8
87.5°	8.4	8.4	10.5	12.5	10.5	12.5	14.6	16.7	16.7	18.8	16.7
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)