

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: P530171

Luminaire Tested: **GALN-SA5B-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-827-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12572 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

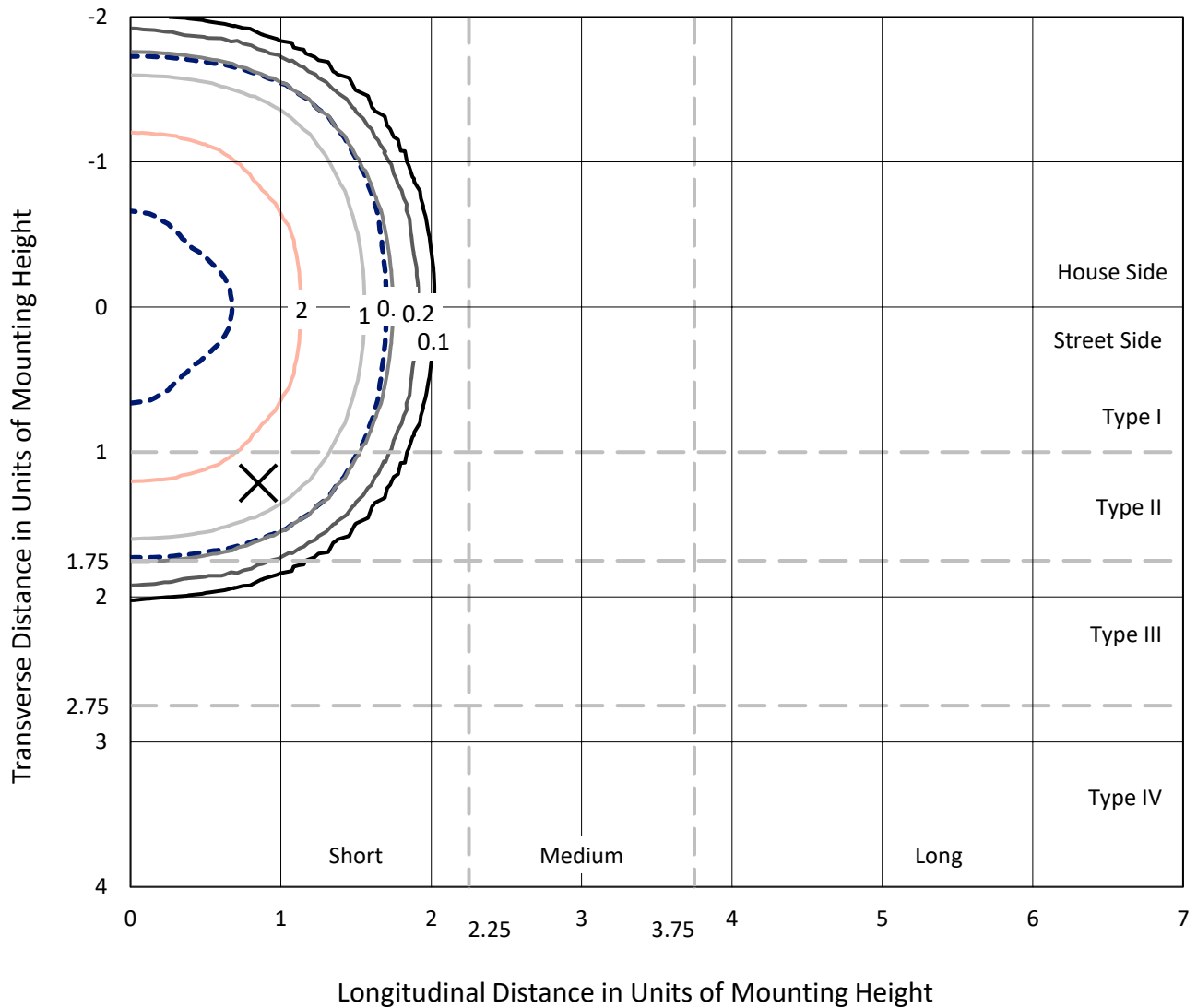
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

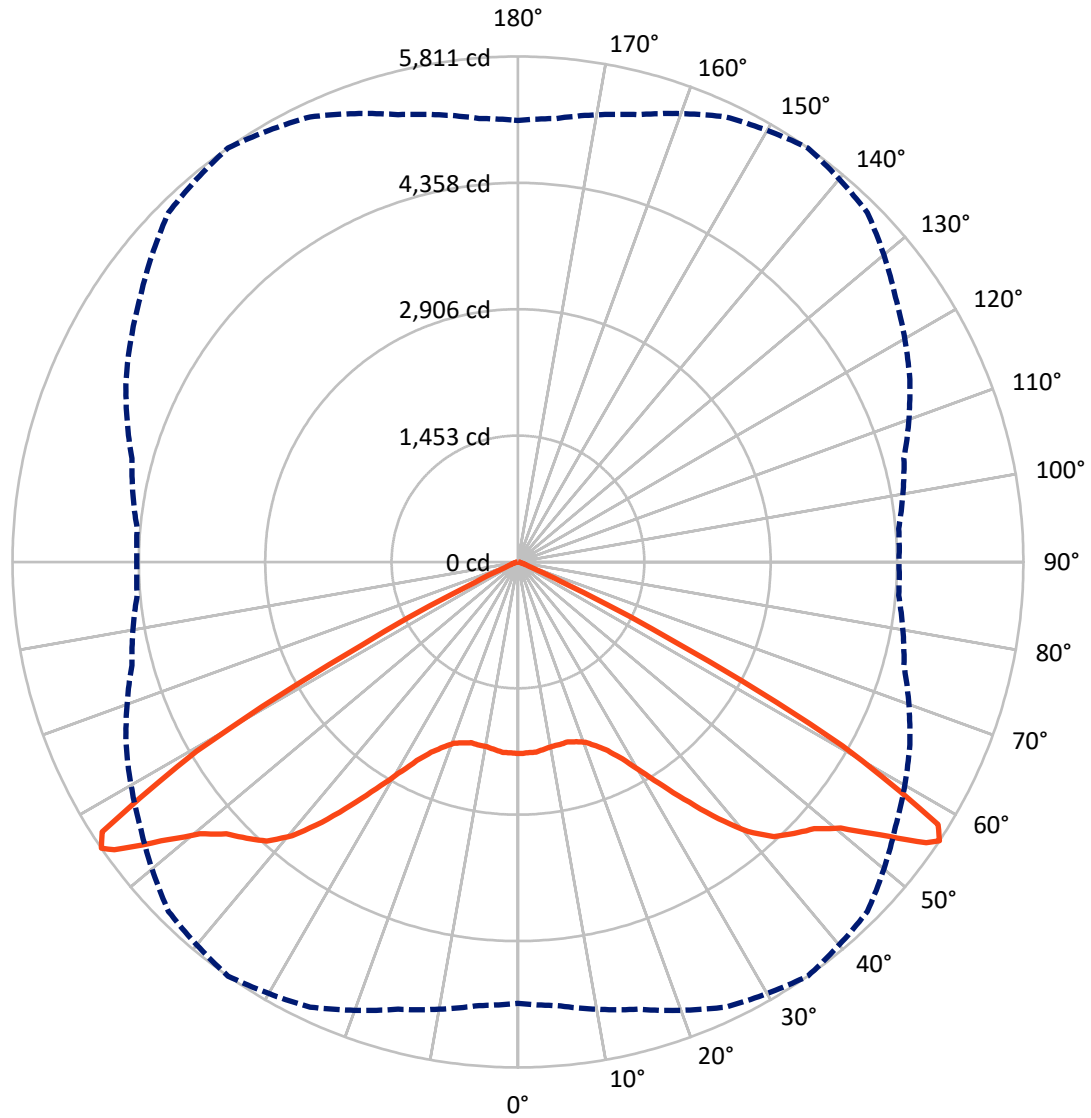
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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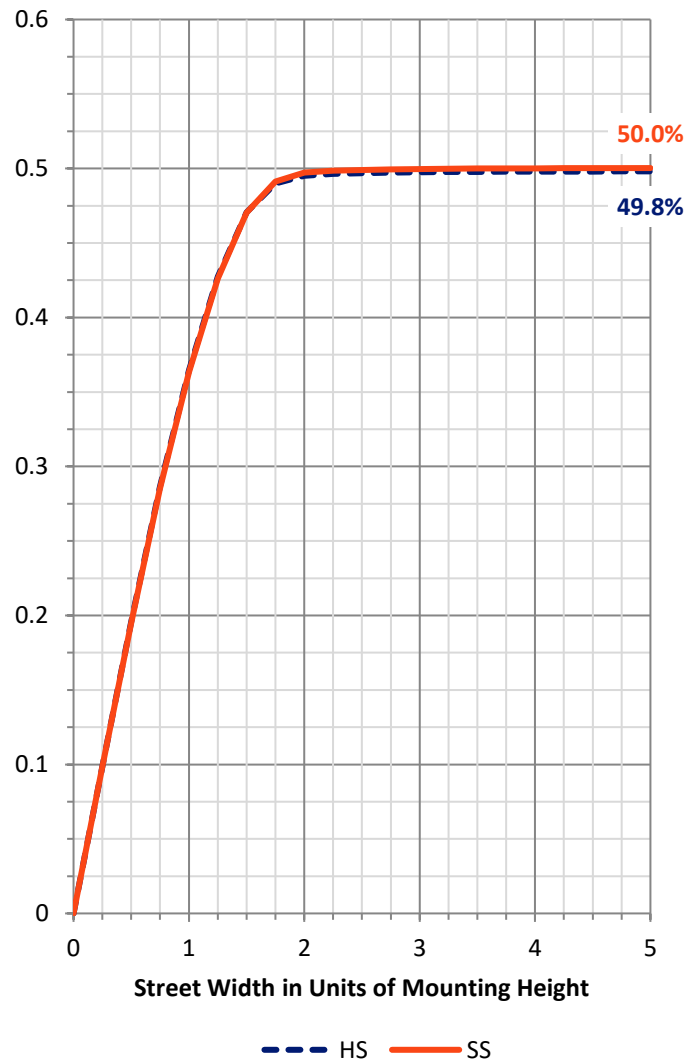
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6286.0	0.0	6286.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6286.0	0.0	6286.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12572.0	0.0	12572.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.0	1.6
10°-20°	604.4	4.8
20°-30°	1094.6	8.7
30°-40°	2029.7	16.1
40°-50°	3331.7	26.5
50°-60°	4292.2	34.1
60°-70°	945.9	7.5
70°-80°	54.9	0.4
80°-90°	11.6	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°	12572.0	100.0
0°-180°	12572.0	100.0



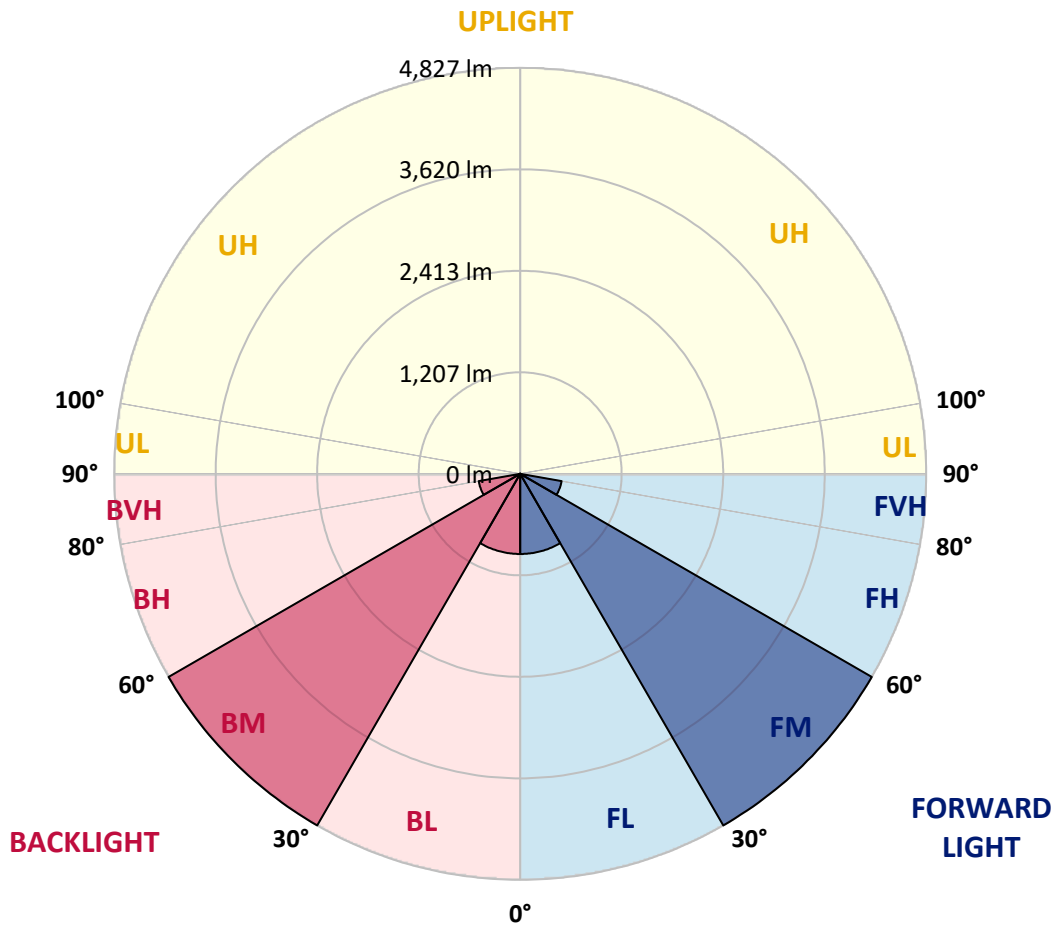
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	953.0	7.6			
FM (30°-60°)	4826.8	38.4			
FH (60°-80°)	500.4	4.0			G0/660
FVH (80°-90°)	5.8	0.0			G0/10
BL (0°-30°)	953.0	7.6	B2/1000		
BM (30°-60°)	4826.8	38.4	B3/5000		
BH (60°-80°)	500.4	4.0	B2/1000		G0/660
BVH (80°-90°)	5.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2202.9	2202.9	2202.9	2202.9	2202.9	2202.9	2202.9	2202.9	2202.9	2202.9	2202.9
2.5°	2207.4	2207.4	2209.7	2212.0	2196.1	2189.2	2191.5	2186.9	2184.7	2191.5	2191.5
5°	2200.6	2200.6	2193.8	2196.1	2196.1	2175.5	2175.5	2180.1	2180.1	2166.4	2161.9
7.5°	2182.4	2177.8	2168.7	2180.1	2173.3	2173.3	2157.3	2145.9	2141.4	2150.5	2141.4
10°	2143.7	2145.9	2155.0	2159.6	2155.0	2168.7	2141.4	2125.4	2109.5	2102.7	2102.7
12.5°	2125.4	2139.1	2125.4	2136.8	2152.8	2141.4	2125.4	2114.0	2091.3	2082.1	2082.1
15°	2123.2	2132.3	2136.8	2152.8	2145.9	2150.5	2118.6	2104.9	2070.8	2054.8	2048.0
17.5°	2120.9	2132.3	2139.1	2168.7	2173.3	2175.5	2150.5	2109.5	2079.9	2063.9	2048.0
20°	2145.9	2150.5	2164.2	2193.8	2212.0	2243.9	2198.3	2155.0	2091.3	2073.0	2066.2
22.5°	2177.8	2200.6	2214.3	2246.2	2294.0	2321.3	2262.1	2207.4	2141.4	2118.6	2091.3
25°	2280.3	2275.8	2298.6	2364.6	2403.4	2423.9	2376.0	2296.3	2209.7	2182.4	2186.9
27.5°	2407.9	2412.5	2433.0	2505.9	2562.8	2594.7	2537.8	2433.0	2348.7	2303.1	2298.6
30°	2574.2	2569.7	2592.4	2690.4	2792.9	2840.7	2740.5	2617.5	2535.5	2476.3	2489.9
32.5°	2749.6	2751.9	2815.7	2904.5	3070.8	3164.2	3002.5	2852.1	2729.1	2688.1	2667.6
35°	3009.3	3020.7	3070.8	3207.5	3392.0	3512.8	3335.1	3155.1	3013.9	2938.7	2947.8
37.5°	3330.5	3319.1	3403.4	3551.5	3745.1	3834.0	3683.6	3478.6	3335.1	3285.0	3316.9
40°	3672.2	3683.6	3726.9	3861.3	4077.7	4137.0	3913.7	3802.1	3676.8	3651.7	3690.5
42.5°	4013.9	4007.1	4039.0	4159.7	4316.9	4275.9	4143.8	4077.7	3988.9	3938.8	3991.2
45°	4264.5	4253.1	4312.4	4394.4	4451.3	4373.9	4314.6	4291.9	4246.3	4191.6	4239.5
47.5°	4508.3	4499.2	4556.1	4578.9	4583.5	4480.9	4492.3	4533.3	4419.4	4305.5	4360.2
50°	4715.6	4699.6	4770.3	4820.4	4809.0	4645.0	4686.0	4645.0	4467.3	4332.9	4312.4
52.5°	5061.9	5068.7	5143.9	5235.0	5207.6	5071.0	5011.7	4824.9	4597.1	4476.4	4405.8
55°	5280.5	5246.4	5376.2	5665.5	5697.4	5556.2	5294.2	5018.6	4676.9	4528.8	4510.6
56°	5075.5	5118.8	5323.8	5647.3	5811.3	5681.5	5301.0	4970.7	4594.8	4394.4	4380.7
57.5°	4553.8	4531.1	4809.0	5250.9	5697.4	5642.8	5114.2	4629.0	4191.6	3966.1	3938.8
60°	2833.9	2900.0	3143.7	3690.5	4287.3	4314.6	3790.7	3373.8	2863.5	2663.1	2710.9
62.5°	1109.4	1052.5	1205.1	1612.9	2022.9	2114.0	1915.8	1592.4	1307.6	1109.4	1095.7
65°	257.4	250.6	282.5	389.5	544.5	631.0	599.1	430.6	316.7	300.7	277.9
67.5°	145.8	145.8	139.0	139.0	152.6	161.7	154.9	152.6	159.5	166.3	164.0
70°	102.5	100.2	95.7	98.0	93.4	93.4	100.2	111.6	120.7	120.7	123.0
72.5°	61.5	61.5	61.5	68.3	68.3	68.3	75.2	84.3	86.6	84.3	82.0
75°	27.3	27.3	31.9	38.7	43.3	45.6	52.4	57.0	61.5	57.0	52.4
77.5°	6.8	6.8	11.4	15.9	20.5	25.1	34.2	41.0	43.3	41.0	34.2
80°	2.3	2.3	4.6	11.4	20.5	25.1	34.2	36.4	38.7	34.2	27.3
82.5°	2.3	2.3	4.6	11.4	15.9	20.5	27.3	31.9	34.2	29.6	27.3
85°	0.0	2.3	4.6	9.1	13.7	18.2	18.2	13.7	11.4	6.8	9.1
87.5°	0.0	0.0	2.3	2.3	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)