

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: P529469

Luminaire Tested: **GALN-SA4C-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529469
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-SA4C-827-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA 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: 12270 lumens
Efficiency: N/A
Efficacy: 57.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

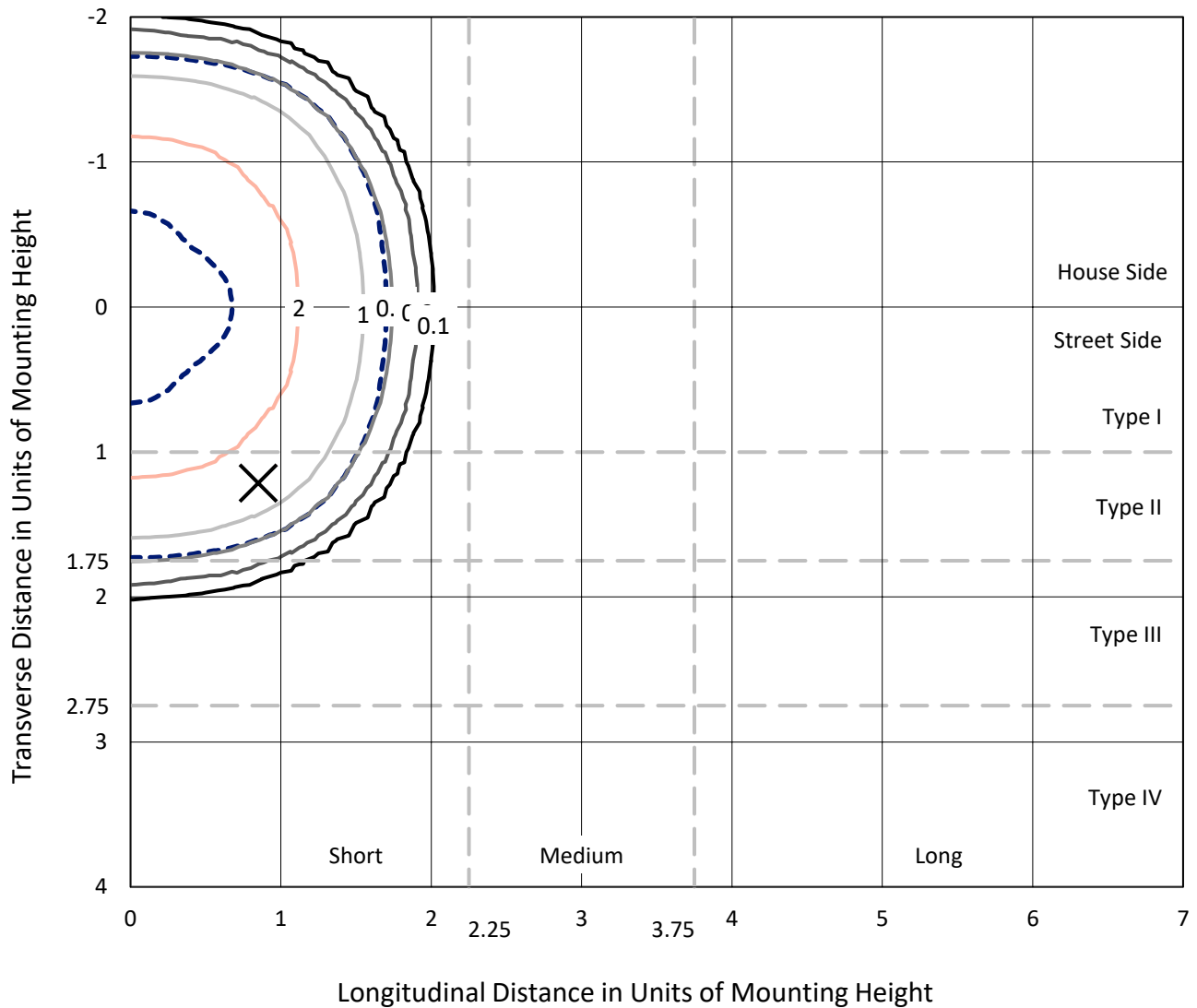
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

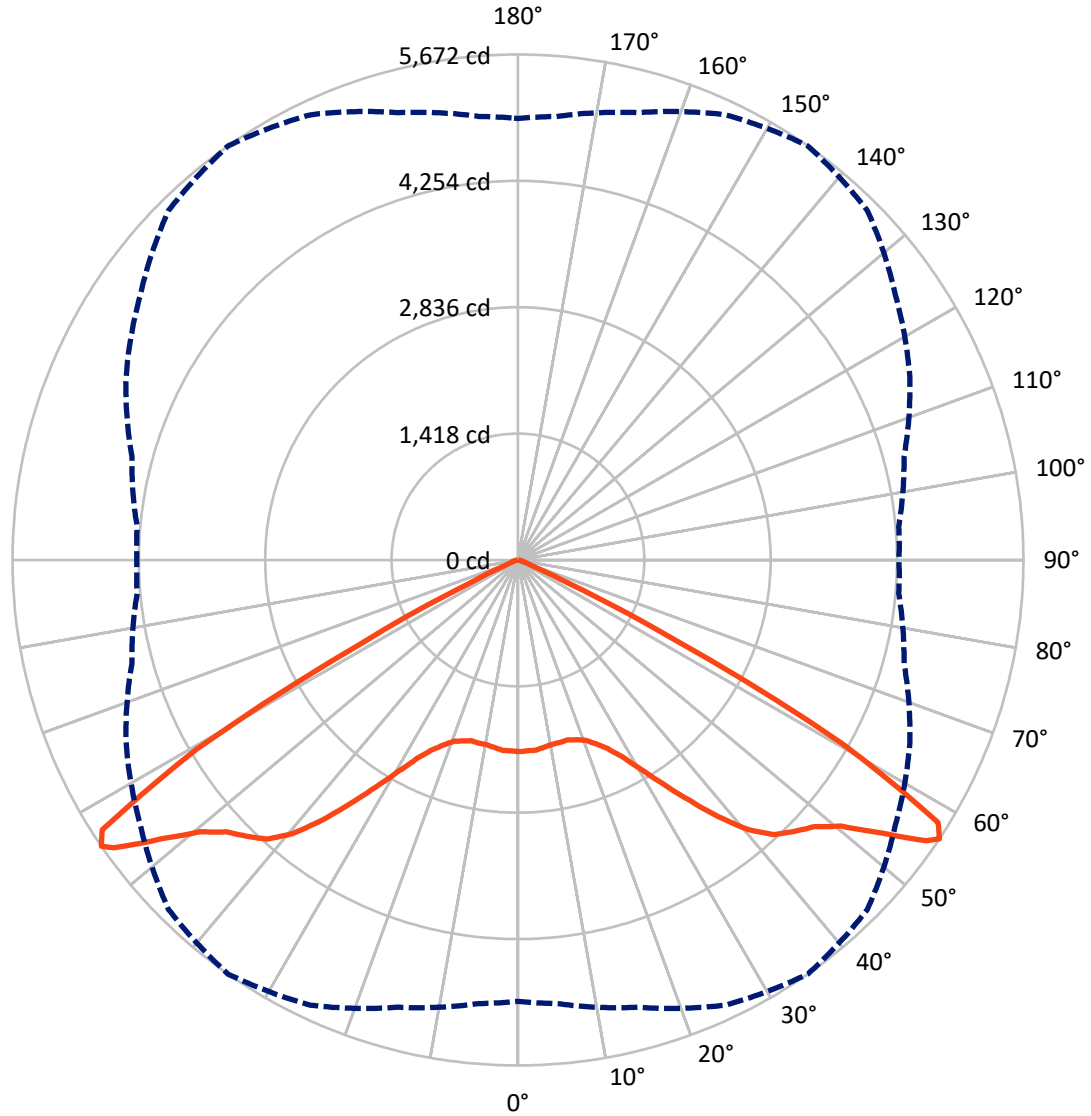
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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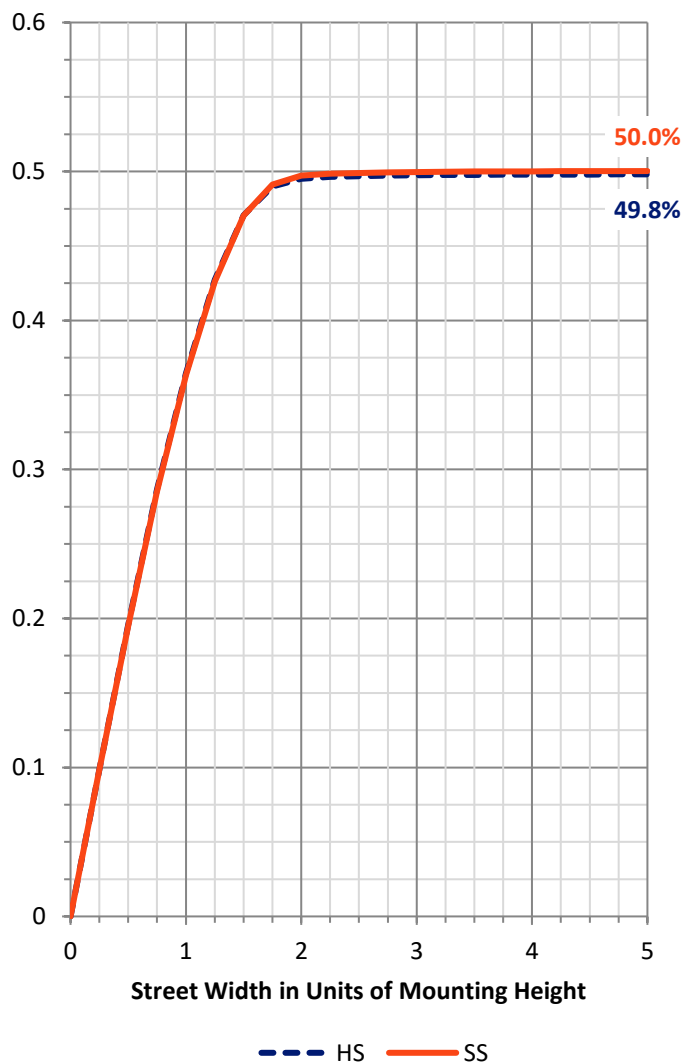
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6135.0	0.0	6135.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6135.0	0.0	6135.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12270.0	0.0	12270.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.1	1.6
10°-20°	589.9	4.8
20°-30°	1068.3	8.7
30°-40°	1981.0	16.1
40°-50°	3251.6	26.5
50°-60°	4189.1	34.1
60°-70°	923.2	7.5
70°-80°	53.6	0.4
80°-90°	11.3	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°	12270.0	100.0
0°-180°	12270.0	100.0

Coefficient of Utilization

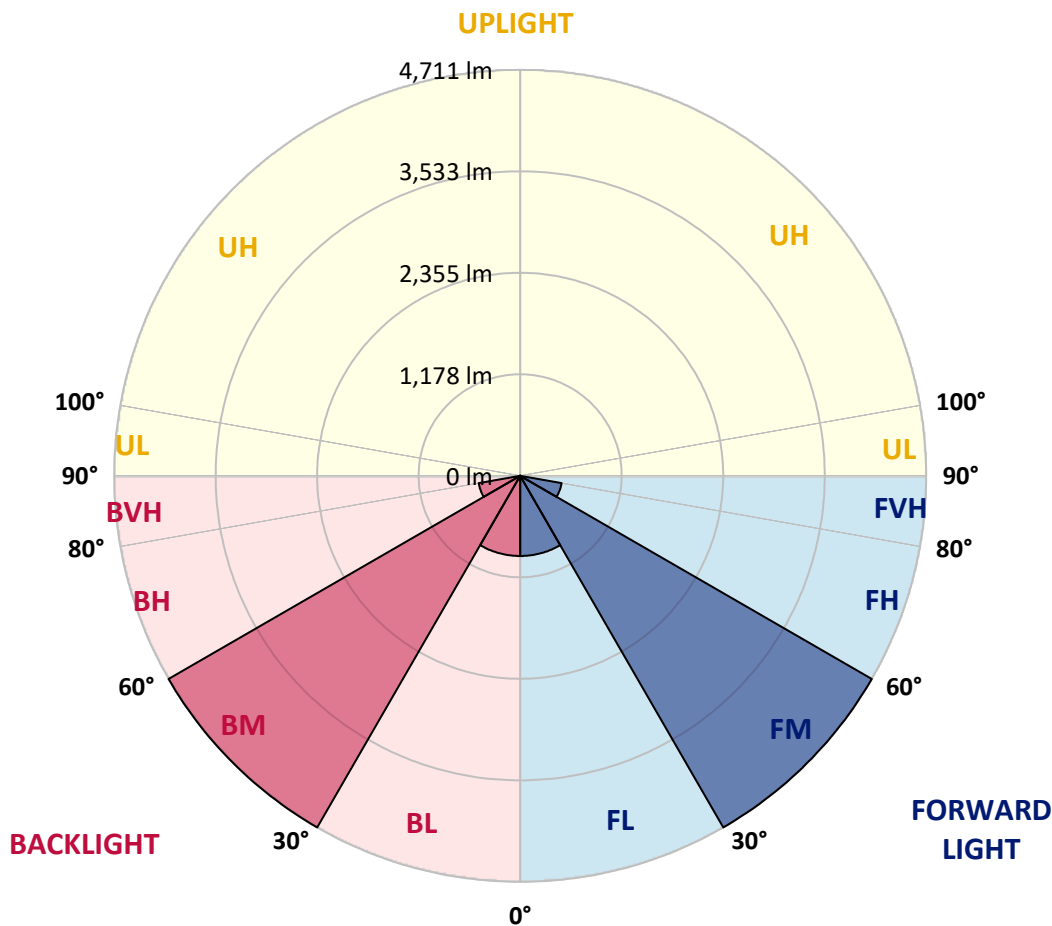


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	930.1	7.6			
FM (30°-60°)	4710.8	38.4			
FH (60°-80°)	488.4	4.0			G0/660
FVH (80°-90°)	5.6	0.0			G0/10
BL (0°-30°)	930.1	7.6	B2/1000		
BM (30°-60°)	4710.8	38.4	B3/5000		
BH (60°-80°)	488.4	4.0	B1/500		G0/660
BVH (80°-90°)	5.6	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°	2150.0	2150.0	2150.0	2150.0	2150.0	2150.0	2150.0	2150.0	2150.0	2150.0	2150.0
2.5°	2154.4	2154.4	2156.6	2158.9	2143.3	2136.6	2138.9	2134.4	2132.2	2138.9	2138.9
5°	2147.7	2147.7	2141.1	2143.3	2143.3	2123.3	2123.3	2127.7	2127.7	2114.4	2109.9
7.5°	2130.0	2125.5	2116.6	2127.7	2121.1	2121.1	2105.5	2094.4	2089.9	2098.8	2089.9
10°	2092.2	2094.4	2103.3	2107.7	2103.3	2116.6	2089.9	2074.4	2058.8	2052.1	2052.1
12.5°	2074.4	2087.7	2074.4	2085.5	2101.1	2089.9	2074.4	2063.3	2041.0	2032.1	2032.1
15°	2072.2	2081.0	2085.5	2101.1	2094.4	2098.8	2067.7	2054.4	2021.0	2005.5	1998.8
17.5°	2069.9	2081.0	2087.7	2116.6	2121.1	2123.3	2098.8	2058.8	2029.9	2014.3	1998.8
20°	2094.4	2098.8	2112.2	2141.1	2158.9	2190.0	2145.5	2103.3	2041.0	2023.2	2016.6
22.5°	2125.5	2147.7	2161.1	2192.2	2238.9	2265.6	2207.8	2154.4	2089.9	2067.7	2041.0
25°	2225.6	2221.1	2243.3	2307.8	2345.6	2365.6	2318.9	2241.1	2156.6	2130.0	2134.4
27.5°	2350.1	2354.5	2374.5	2445.7	2501.3	2532.4	2476.8	2374.5	2292.3	2247.8	2243.3
30°	2512.4	2507.9	2530.2	2625.8	2725.8	2772.5	2674.7	2554.6	2474.6	2416.8	2430.1
32.5°	2683.6	2685.8	2748.0	2834.8	2997.1	3088.2	2930.4	2783.6	2663.6	2623.5	2603.5
35°	2937.0	2948.1	2997.1	3130.5	3310.6	3428.4	3255.0	3079.3	2941.5	2868.1	2877.0
37.5°	3250.5	3239.4	3321.7	3466.2	3655.2	3741.9	3595.1	3395.0	3255.0	3206.1	3237.2
40°	3584.0	3595.1	3637.4	3768.6	3979.8	4037.6	3819.7	3710.8	3588.5	3564.0	3601.8
42.5°	3917.5	3910.9	3942.0	4059.8	4213.2	4173.2	4044.3	3979.8	3893.1	3844.2	3895.3
45°	4162.1	4151.0	4208.8	4288.8	4344.4	4268.8	4211.0	4188.8	4144.3	4090.9	4137.6
47.5°	4400.0	4391.1	4446.7	4468.9	4473.4	4373.3	4384.4	4424.4	4313.3	4202.1	4255.5
50°	4602.3	4586.7	4655.7	4704.6	4693.5	4533.4	4573.4	4533.4	4360.0	4228.8	4208.8
52.5°	4940.3	4946.9	5020.3	5109.2	5082.6	4949.2	4891.3	4709.0	4486.7	4368.9	4299.9
55°	5153.7	5120.3	5247.1	5529.4	5560.6	5422.7	5167.0	4898.0	4564.5	4420.0	4402.2
56°	4953.6	4995.8	5195.9	5511.7	5671.7	5545.0	5173.7	4851.3	4484.5	4288.8	4275.5
57.5°	4444.5	4422.2	4693.5	5124.8	5560.6	5507.2	4991.4	4517.8	4090.9	3870.8	3844.2
60°	2765.8	2830.3	3068.2	3601.8	4184.3	4211.0	3699.6	3292.8	2794.7	2599.1	2645.8
62.5°	1082.8	1027.2	1176.1	1574.1	1974.3	2063.3	1869.8	1554.1	1276.2	1082.8	1069.4
65°	251.2	244.6	275.7	380.2	531.4	615.9	584.7	420.2	309.0	293.5	271.2
67.5°	142.3	142.3	135.6	135.6	149.0	157.9	151.2	149.0	155.6	162.3	160.1
70°	100.1	97.8	93.4	95.6	91.2	91.2	97.8	108.9	117.8	117.8	120.1
72.5°	60.0	60.0	60.0	66.7	66.7	66.7	73.4	82.3	84.5	82.3	80.0
75°	26.7	26.7	31.1	37.8	42.2	44.5	51.1	55.6	60.0	55.6	51.1
77.5°	6.7	6.7	11.1	15.6	20.0	24.5	33.4	40.0	42.2	40.0	33.4
80°	2.2	2.2	4.4	11.1	20.0	24.5	33.4	35.6	37.8	33.4	26.7
82.5°	2.2	2.2	4.4	11.1	15.6	20.0	26.7	31.1	33.4	28.9	26.7
85°	0.0	2.2	4.4	8.9	13.3	17.8	17.8	13.3	11.1	6.7	8.9
87.5°	0.0	0.0	2.2	2.2	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)