

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: P529807

Luminaire Tested: **GALN-SA5A-730-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529807
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-SA5A-730-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA 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: 12517 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

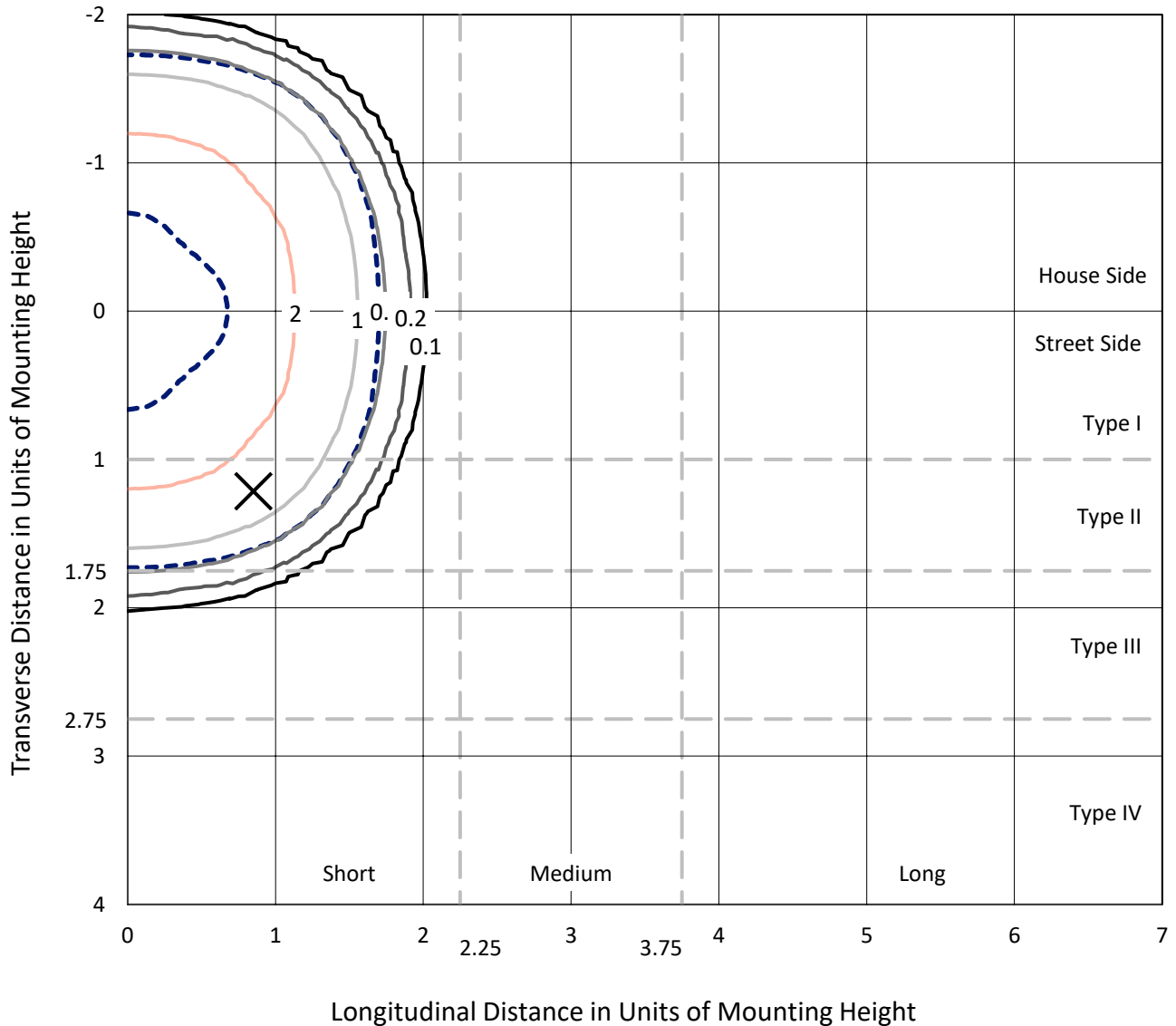
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

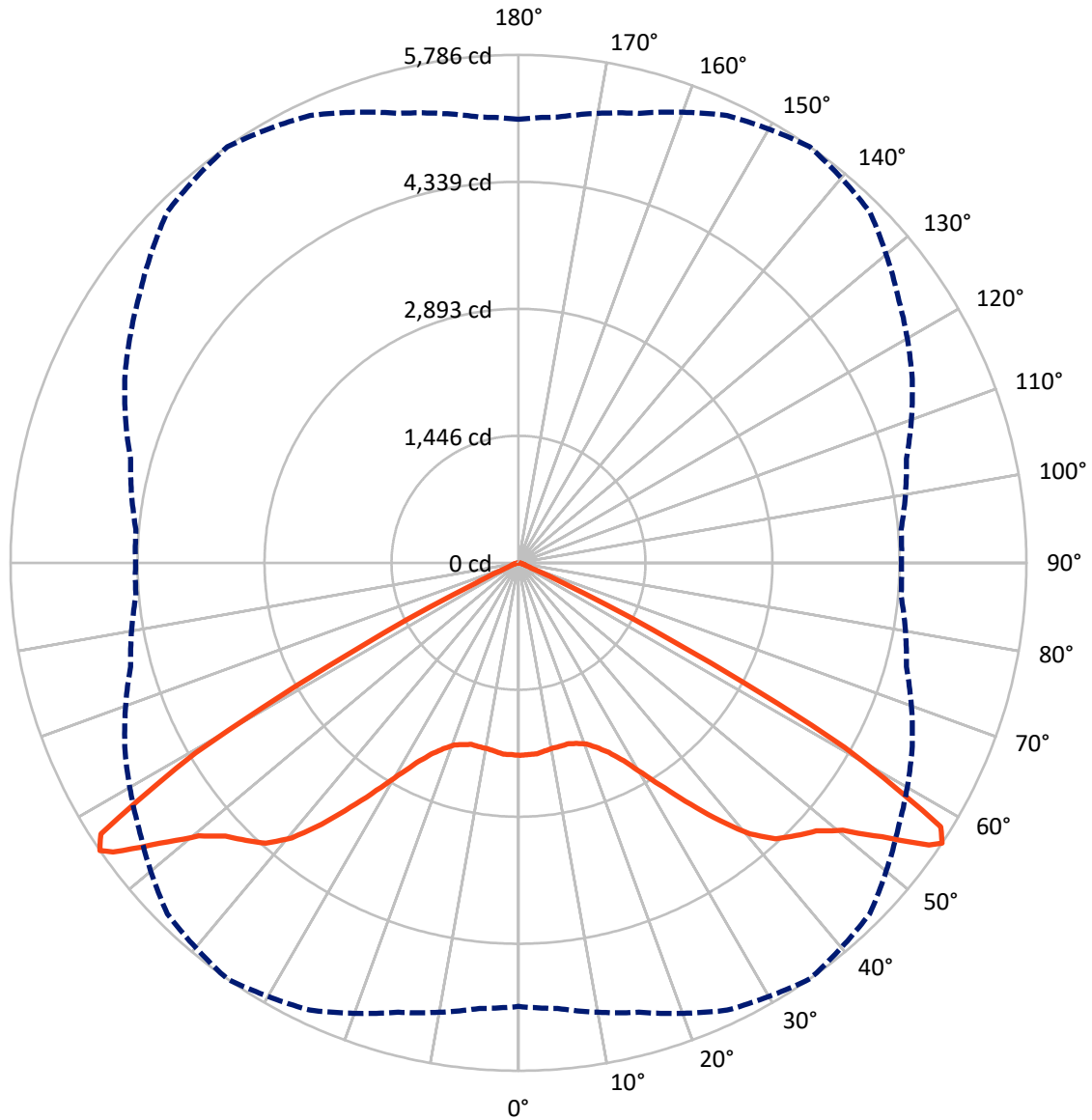
× Max cd
 - - - 1/2 Max cd



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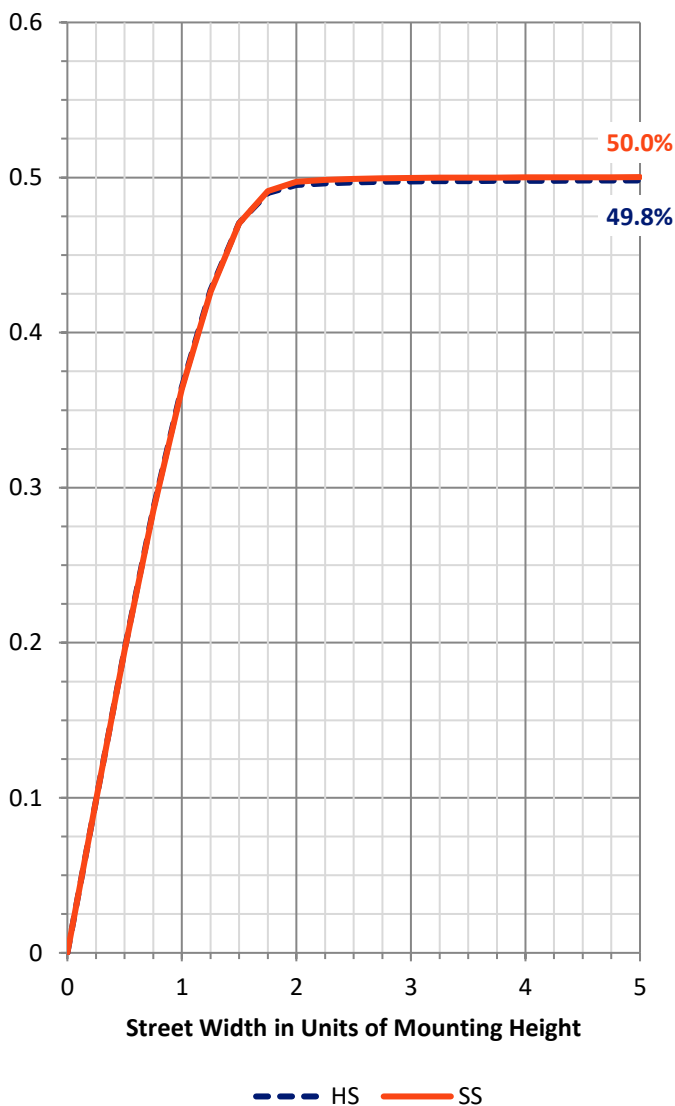
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6258.5	0.0	6258.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6258.5	0.0	6258.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12517.0	0.0	12517.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.1	1.6
10°-20°	601.8	4.8
20°-30°	1089.8	8.7
30°-40°	2020.9	16.1
40°-50°	3317.1	26.5
50°-60°	4273.4	34.1
60°-70°	941.8	7.5
70°-80°	54.6	0.4
80°-90°	11.5	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°	12517.0	100.0
0°-180°	12517.0	100.0

Coefficient of Utilization

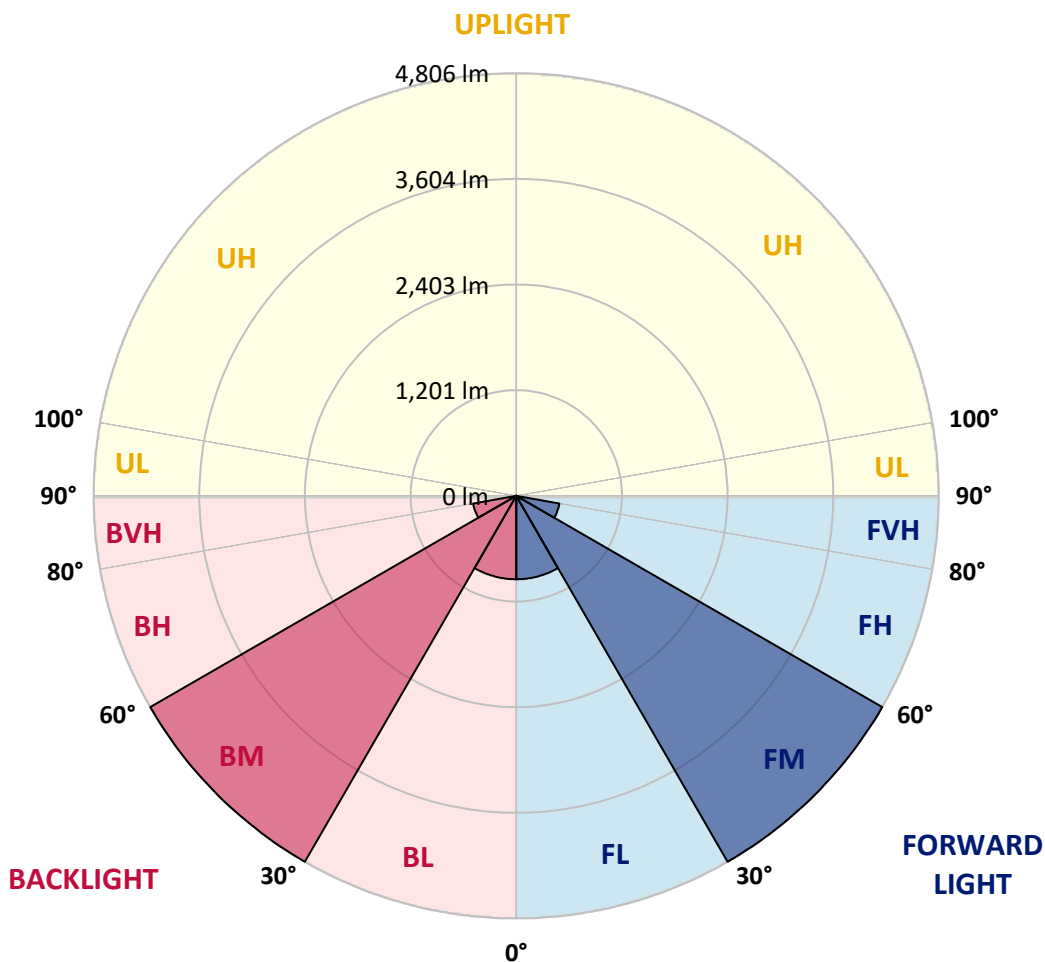


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	948.9	7.6			
FM (30°-60°)	4805.7	38.4			
FH (60°-80°)	498.2	4.0			G0/660
FVH (80°-90°)	5.7	0.0			G0/10
BL (0°-30°)	948.9	7.6	B2/1000		
BM (30°-60°)	4805.7	38.4	B3/5000		
BH (60°-80°)	498.2	4.0	B1/500		G0/660
BVH (80°-90°)	5.7	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°	2193.2	2193.2	2193.2	2193.2	2193.2	2193.2	2193.2	2193.2	2193.2	2193.2	2193.2
2.5°	2197.8	2197.8	2200.1	2202.3	2186.4	2179.6	2181.9	2177.4	2175.1	2181.9	2181.9
5°	2191.0	2191.0	2184.2	2186.4	2186.4	2166.0	2166.0	2170.6	2170.6	2157.0	2152.4
7.5°	2172.8	2168.3	2159.2	2170.6	2163.8	2163.8	2147.9	2136.5	2132.0	2141.1	2132.0
10°	2134.3	2136.5	2145.6	2150.2	2145.6	2159.2	2132.0	2116.1	2100.3	2093.5	2093.5
12.5°	2116.1	2129.7	2116.1	2127.5	2143.3	2132.0	2116.1	2104.8	2082.1	2073.0	2073.0
15°	2113.9	2122.9	2127.5	2143.3	2136.5	2141.1	2109.3	2095.7	2061.7	2045.8	2039.0
17.5°	2111.6	2122.9	2129.7	2159.2	2163.8	2166.0	2141.1	2100.3	2070.8	2054.9	2039.0
20°	2136.5	2141.1	2154.7	2184.2	2202.3	2234.1	2188.7	2145.6	2082.1	2064.0	2057.2
22.5°	2168.3	2191.0	2204.6	2236.3	2284.0	2311.2	2252.2	2197.8	2132.0	2109.3	2082.1
25°	2270.4	2265.8	2288.5	2354.3	2392.8	2413.3	2365.6	2286.2	2200.1	2172.8	2177.4
27.5°	2397.4	2401.9	2422.3	2494.9	2551.6	2583.4	2526.7	2422.3	2338.4	2293.0	2288.5
30°	2562.9	2558.4	2581.1	2678.6	2780.7	2828.3	2728.5	2606.0	2524.4	2465.4	2479.0
32.5°	2737.6	2739.9	2803.4	2891.8	3057.4	3150.4	2989.3	2839.7	2717.2	2676.4	2655.9
35°	2996.2	3007.5	3057.4	3193.5	3377.2	3497.4	3320.5	3141.3	3000.7	2925.8	2934.9
37.5°	3316.0	3304.6	3388.5	3536.0	3728.7	3817.2	3667.5	3463.4	3320.5	3270.6	3302.3
40°	3656.2	3667.5	3710.6	3844.4	4059.9	4118.9	3896.6	3785.5	3660.7	3635.8	3674.3
42.5°	3996.4	3989.6	4021.3	4141.5	4298.0	4257.2	4125.7	4059.9	3971.4	3921.5	3973.7
45°	4245.9	4234.5	4293.5	4375.2	4431.9	4354.7	4295.8	4273.1	4227.7	4173.3	4220.9
47.5°	4488.6	4479.5	4536.2	4558.9	4563.4	4461.3	4472.7	4513.5	4400.1	4286.7	4341.1
50°	4695.0	4679.1	4749.4	4799.3	4787.9	4624.6	4665.5	4624.6	4447.7	4313.9	4293.5
52.5°	5039.7	5046.5	5121.4	5212.1	5184.9	5048.8	4989.8	4803.8	4577.0	4456.8	4386.5
55°	5257.4	5223.4	5352.7	5640.8	5672.5	5531.9	5271.1	4996.6	4656.4	4509.0	4490.8
56°	5053.3	5096.4	5300.5	5622.6	5785.9	5656.6	5277.9	4949.0	4574.7	4375.2	4361.5
57.5°	4533.9	4511.2	4787.9	5228.0	5672.5	5618.1	5091.9	4608.8	4173.3	3948.8	3921.5
60°	2821.5	2887.3	3130.0	3674.3	4268.6	4295.8	3774.1	3359.0	2851.0	2651.4	2699.0
62.5°	1104.6	1047.9	1199.8	1605.8	2014.1	2104.8	1907.5	1585.4	1301.9	1104.6	1091.0
65°	256.3	249.5	281.2	387.8	542.1	628.3	596.5	428.7	315.3	299.4	276.7
67.5°	145.2	145.2	138.4	138.4	152.0	161.0	154.2	152.0	158.8	165.6	163.3
70°	102.1	99.8	95.3	97.5	93.0	93.0	99.8	111.1	120.2	120.2	122.5
72.5°	61.2	61.2	61.2	68.0	68.0	68.0	74.8	83.9	86.2	83.9	81.7
75°	27.2	27.2	31.8	38.6	43.1	45.4	52.2	56.7	61.2	56.7	52.2
77.5°	6.8	6.8	11.3	15.9	20.4	24.9	34.0	40.8	43.1	40.8	34.0
80°	2.3	2.3	4.5	11.3	20.4	24.9	34.0	36.3	38.6	34.0	27.2
82.5°	2.3	2.3	4.5	11.3	15.9	20.4	27.2	31.8	34.0	29.5	27.2
85°	0.0	2.3	4.5	9.1	13.6	18.1	18.1	13.6	11.3	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)