

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: P452515

Luminaire Tested: **GALN-SA3C-727-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452515
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-SA3C-727-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18109 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

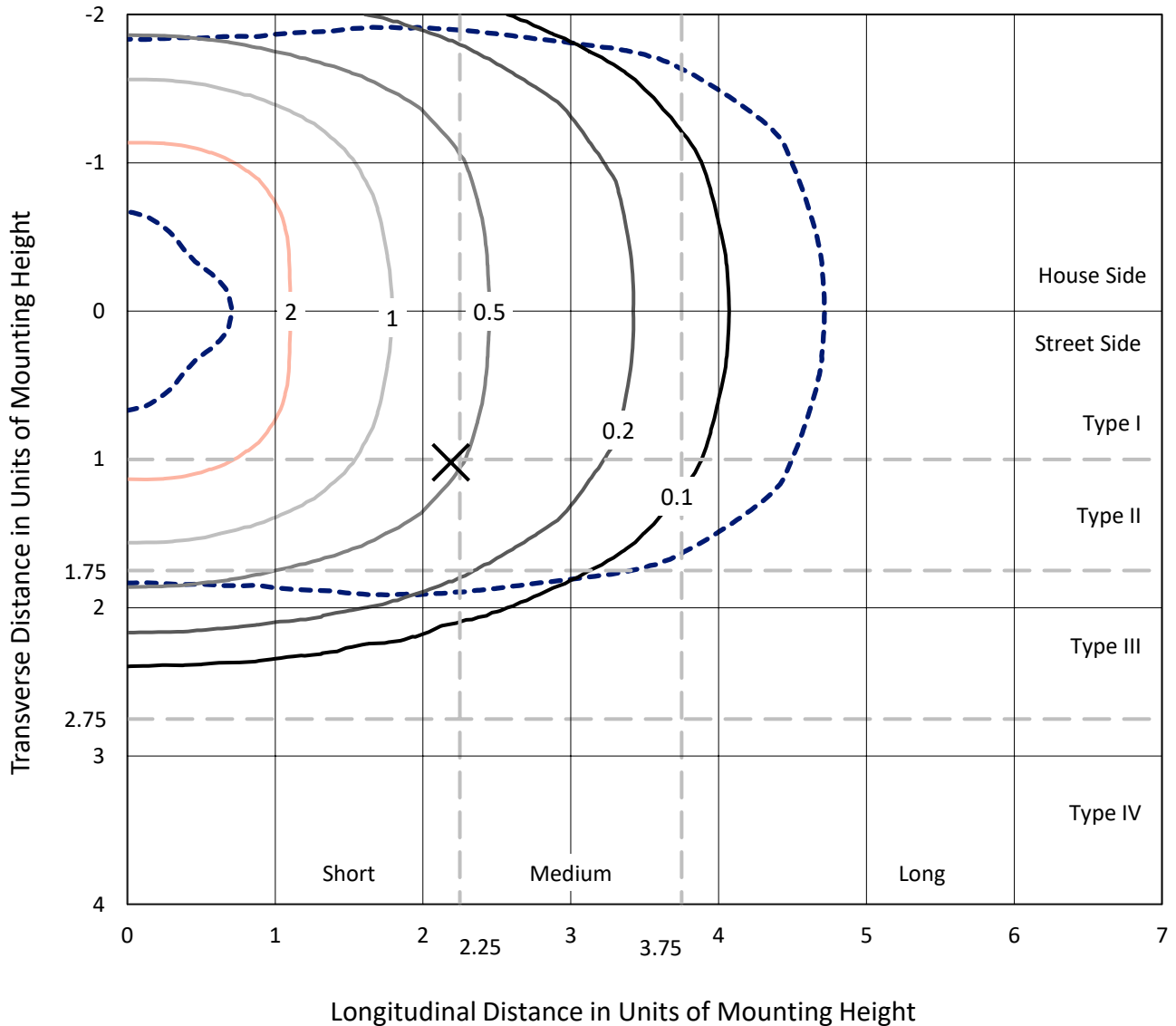
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

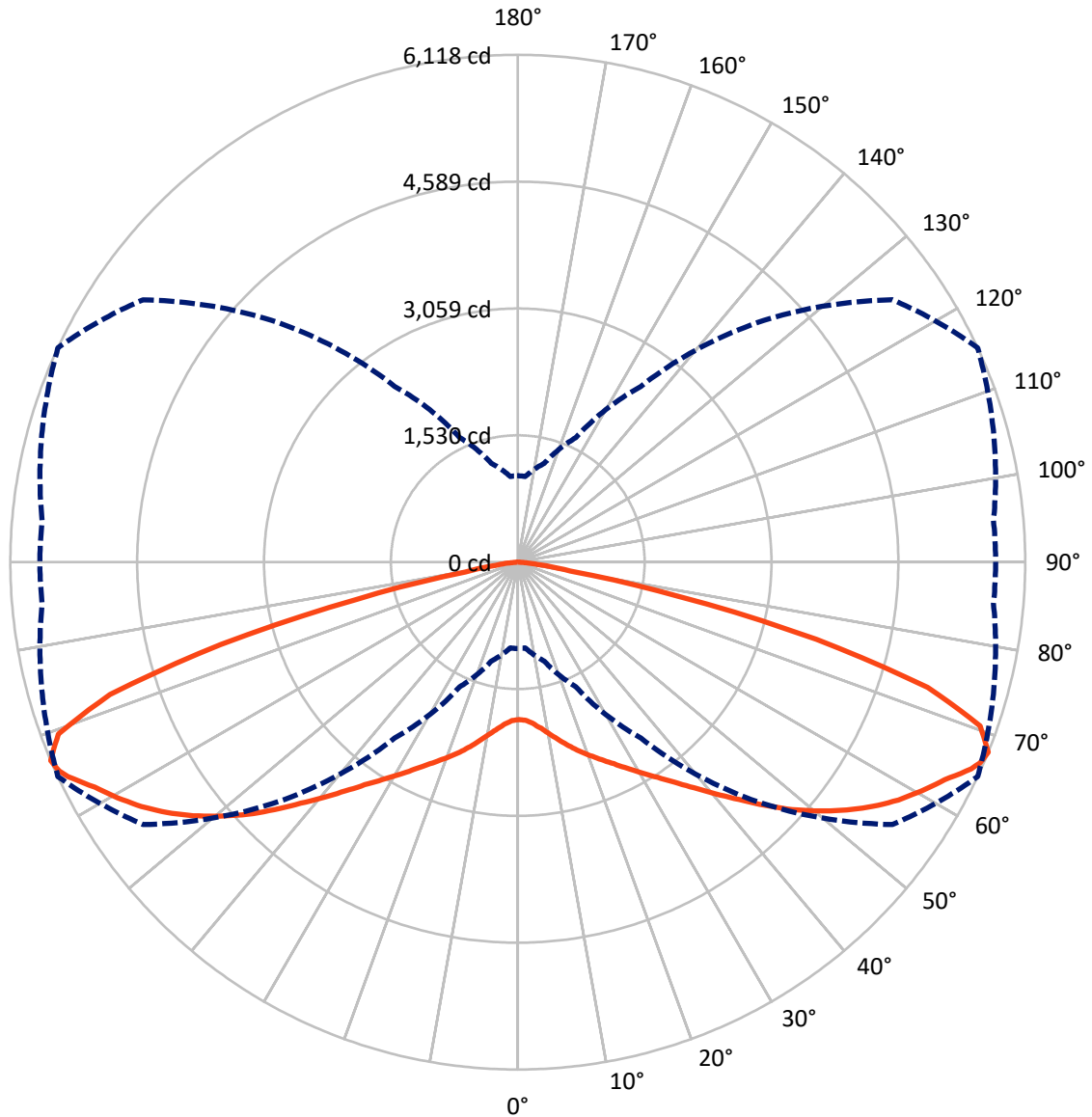
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type 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	9054.5	0.0	9054.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9054.5	0.0	9054.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18109.0	0.0	18109.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	1.0
10°-20°	626.1	3.5
20°-30°	1224.7	6.8
30°-40°	2083.1	11.5
40°-50°	3296.9	18.2
50°-60°	4371.6	24.1
60°-70°	4123.8	22.8
70°-80°	2038.6	11.3
80°-90°	157.1	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°	18109.0	100.0
0°-180°	18109.0	100.0

Coefficient of Utilization



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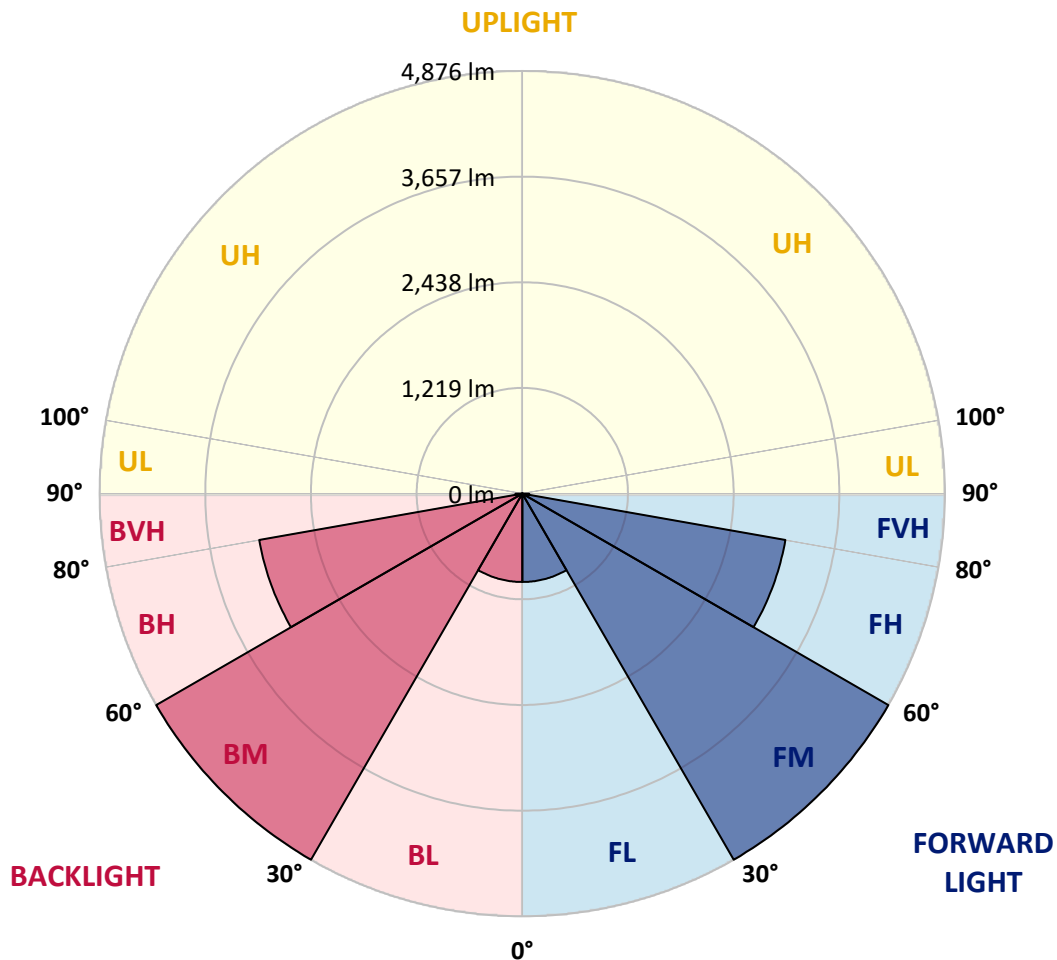
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1019.0	5.6			
FM (30°-60°)	4875.8	26.9			
FH (60°-80°)	3081.2	17.0			G2/5000
FVH (80°-90°)	78.6	0.4			G1/100
BL (0°-30°)	1019.0	5.6	B3/2500		
BM (30°-60°)	4875.8	26.9	B3/5000		
BH (60°-80°)	3081.2	17.0	B4/5000		G4/5000
BVH (80°-90°)	78.6	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°	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8
2.5°	1887.1	1889.0	1890.9	1893.8	1897.7	1903.5	1907.4	1910.3	1918.1	1919.1	1918.1
5°	1880.3	1882.2	1887.1	1895.8	1908.4	1925.9	1939.4	1955.9	1968.6	1977.3	1975.3
7.5°	1879.3	1883.2	1890.9	1909.4	1933.6	1963.7	1994.7	2022.9	2047.1	2066.5	2063.6
10°	1894.8	1899.7	1912.3	1939.4	1977.3	2020.9	2064.6	2106.3	2141.3	2166.5	2175.2
12.5°	1921.0	1924.9	1948.2	1988.9	2043.3	2097.6	2147.1	2198.5	2247.0	2289.7	2289.7
15°	1966.6	1973.4	2002.5	2061.7	2128.6	2191.7	2242.2	2296.5	2348.9	2397.4	2411.9
17.5°	2029.7	2039.4	2083.0	2158.7	2244.1	2302.3	2349.8	2394.5	2440.1	2486.6	2493.4
20°	2116.0	2125.7	2183.9	2275.1	2376.0	2445.9	2477.9	2488.6	2510.9	2555.5	2561.4
22.5°	2233.4	2243.1	2308.1	2411.0	2523.5	2599.2	2612.8	2587.5	2581.7	2616.7	2620.5
25°	2366.3	2375.1	2449.8	2560.4	2676.8	2759.3	2755.4	2693.3	2658.4	2679.7	2685.5
27.5°	2515.8	2528.4	2604.0	2718.5	2844.7	2917.4	2905.8	2815.5	2740.8	2737.0	2738.9
30°	2706.9	2720.5	2792.3	2901.9	3026.1	3093.0	3068.8	2947.5	2832.0	2793.2	2793.2
32.5°	2908.7	2942.6	3015.4	3129.9	3226.9	3275.4	3238.6	3093.0	2939.7	2885.4	2882.5
35°	3171.6	3190.0	3261.8	3373.4	3446.2	3484.0	3413.2	3257.0	3080.4	3016.4	3007.6
37.5°	3428.7	3444.2	3527.7	3634.4	3722.7	3720.8	3624.7	3452.0	3255.1	3183.3	3177.4
40°	3691.6	3708.1	3803.2	3901.2	3989.5	3981.7	3865.3	3672.2	3462.7	3382.1	3397.7
42.5°	3919.6	3938.1	4045.8	4185.5	4265.0	4263.1	4128.2	3910.9	3692.6	3620.8	3634.4
45°	4127.3	4143.8	4268.9	4429.0	4545.4	4560.0	4412.5	4182.6	3958.5	3866.3	3870.2
47.5°	4273.8	4304.8	4435.8	4619.2	4777.3	4828.7	4684.2	4459.1	4201.0	4105.0	4110.8
50°	4385.3	4404.7	4547.4	4756.0	4955.8	5062.5	4946.1	4715.2	4443.6	4341.7	4355.3
52.5°	4398.9	4422.2	4577.4	4818.1	5074.2	5236.2	5179.0	4965.5	4691.0	4586.2	4615.3
55°	4288.3	4301.9	4487.2	4779.2	5120.8	5365.3	5379.8	5198.4	4926.7	4847.2	4866.6
57.5°	3973.0	4007.9	4242.7	4597.8	5056.7	5434.1	5530.2	5409.9	5165.4	5086.8	5117.9
60°	3455.9	3490.8	3726.6	4176.7	4815.1	5402.1	5654.4	5597.1	5381.7	5318.7	5335.2
62.5°	2707.9	2704.9	2997.0	3549.0	4334.9	5244.9	5746.5	5777.6	5595.2	5515.6	5540.9
65°	1755.1	1763.8	2046.2	2640.9	3610.1	4845.2	5766.9	6007.5	5804.8	5684.5	5702.9
66°	1411.7	1437.8	1677.5	2225.7	3240.5	4583.3	5705.8	6075.4	5868.8	5723.3	5732.0
67.5°	1042.0	1037.2	1234.1	1657.1	2587.5	4085.5	5514.7	6118.1	5941.6	5758.2	5762.1
70°	594.7	593.8	663.6	910.1	1521.3	2876.7	4648.3	5913.4	6089.0	5884.3	5873.6
72.5°	434.7	431.7	441.4	502.6	742.2	1452.4	3206.5	5168.3	6013.4	5863.9	5833.9
75°	364.8	362.9	360.9	368.7	416.2	657.8	1701.7	3717.8	5217.8	5504.0	5472.9
77.5°	297.9	297.9	298.8	296.9	298.8	346.4	705.3	1992.8	3177.4	3547.1	3633.4
80°	232.9	231.9	248.4	241.6	226.1	222.2	312.4	641.3	1054.6	1048.8	865.4
82.5°	171.7	160.1	189.2	184.3	166.9	141.7	182.4	273.6	352.2	229.0	169.8
85°	108.7	107.7	133.9	122.2	101.9	66.9	87.3	117.4	145.5	88.3	71.8
87.5°	19.4	18.4	42.7	31.0	31.0	19.4	24.3	32.0	47.5	33.0	24.3
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)