

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: P646818

Luminaire Tested: **GALN-SA3C-835-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-835-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17150 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

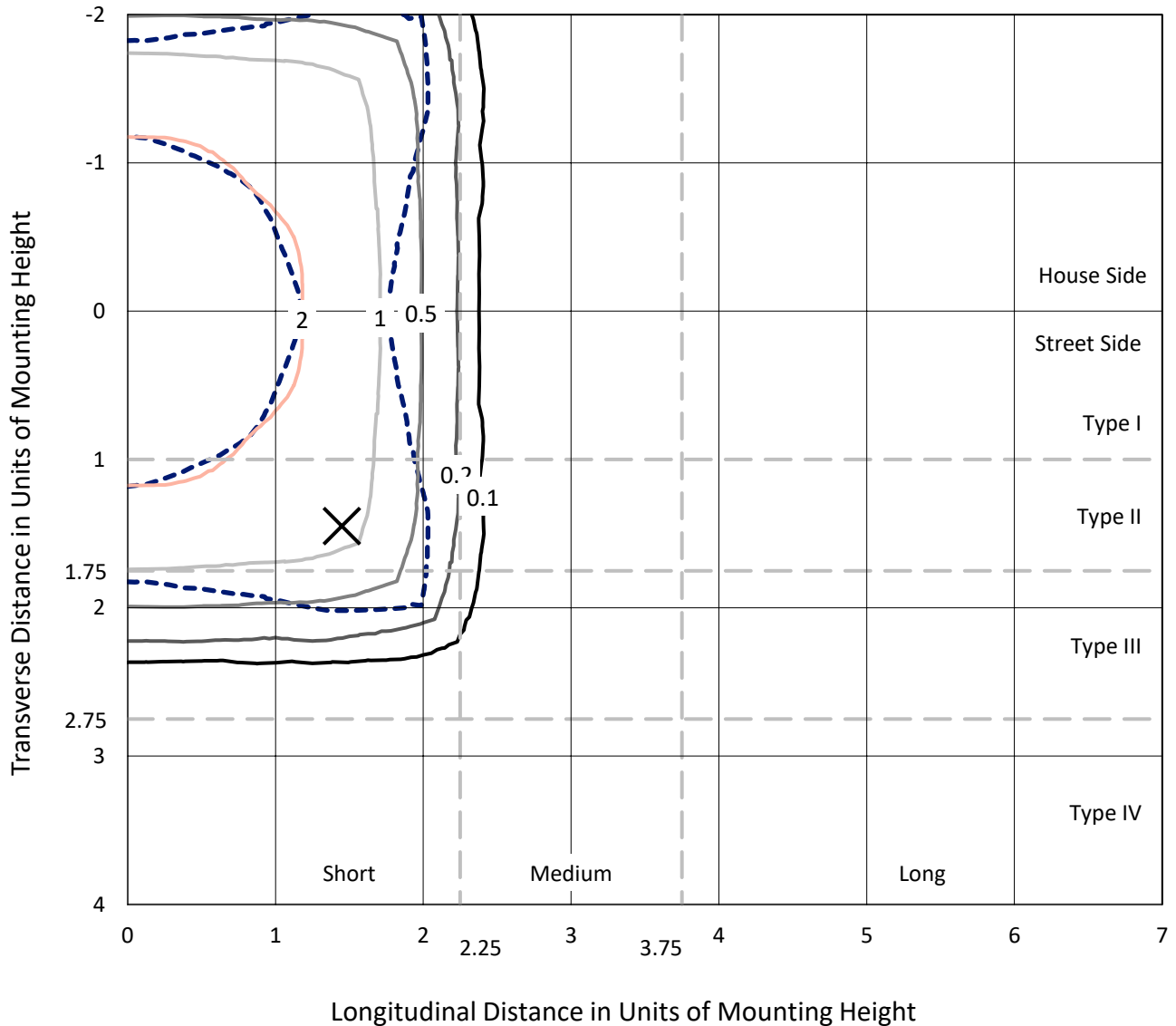
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

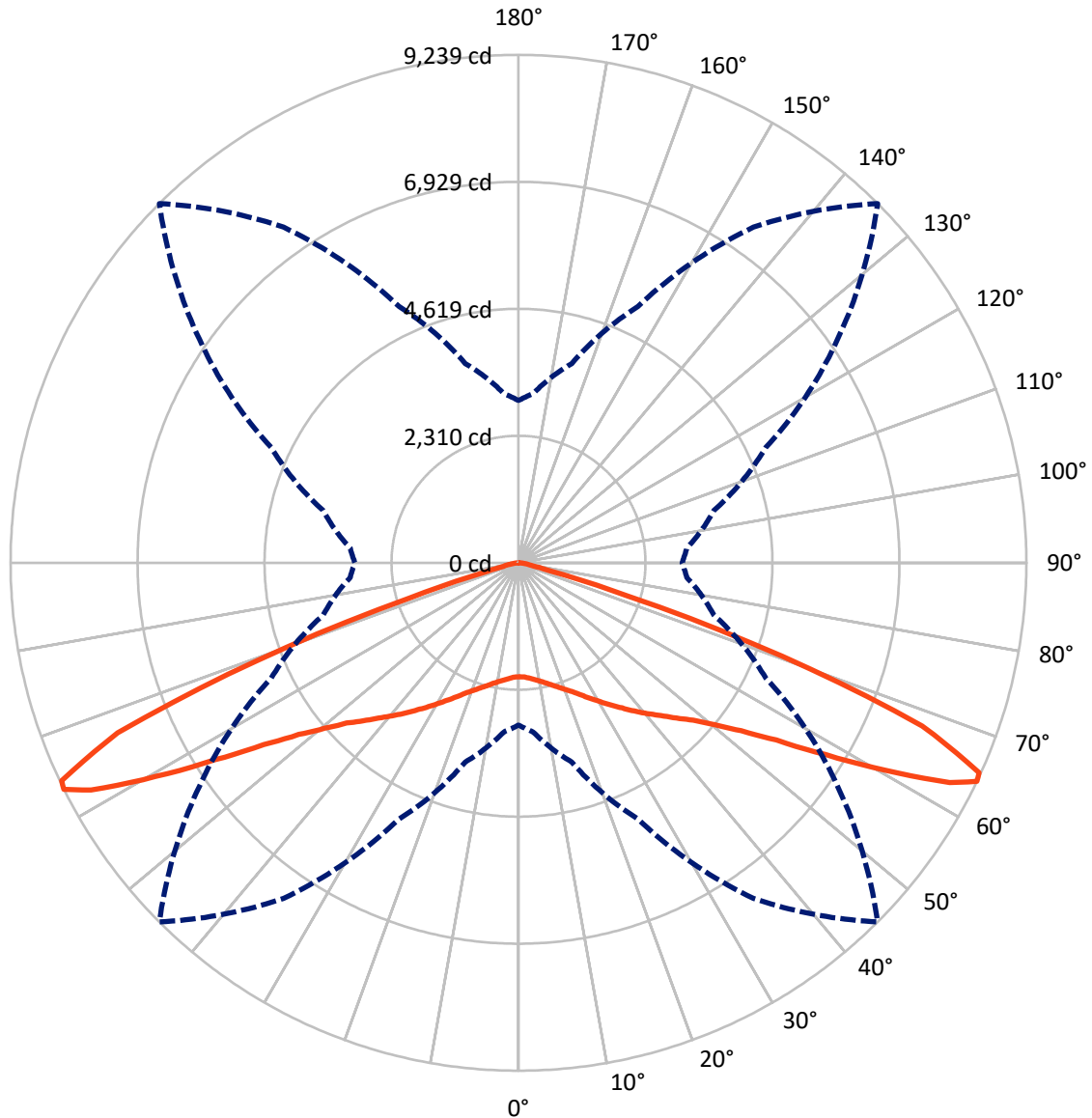
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8575.0	0.0	8575.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8575.0	0.0	8575.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17150.0	0.0	17150.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.6	1.2
10°-20°	656.9	3.8
20°-30°	1241.3	7.2
30°-40°	2055.8	12.0
40°-50°	3209.4	18.7
50°-60°	4961.7	28.9
60°-70°	4278.4	24.9
70°-80°	484.8	2.8
80°-90°	58.1	0.3
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°	17150.0	100.0
0°-180°	17150.0	100.0



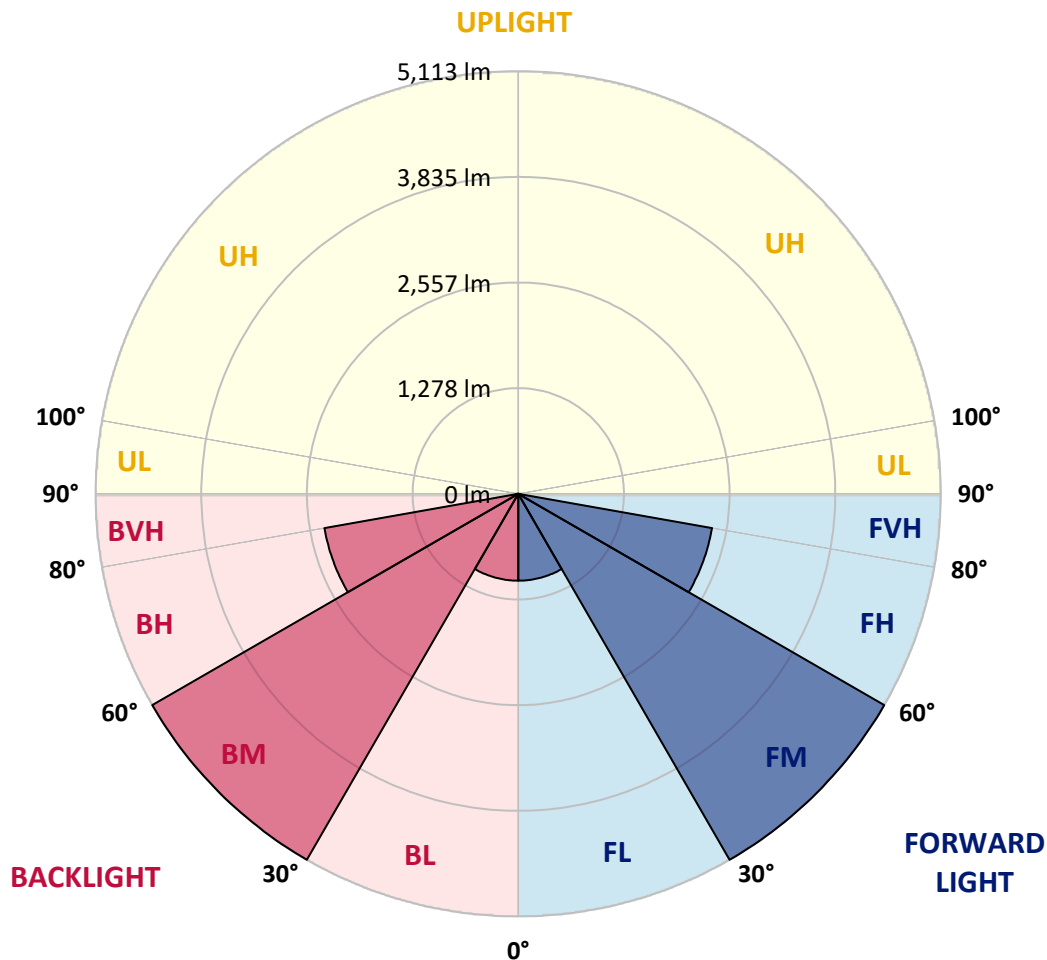
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1050.9	6.1			
FM (30°-60°)	5113.4	29.8			
FH (60°-80°)	2381.6	13.9			G2/5000
FVH (80°-90°)	29.0	0.2			G1/100
BL (0°-30°)	1050.9	6.1	B3/2500		
BM (30°-60°)	5113.4	29.8	B4/8500		
BH (60°-80°)	2381.6	13.9	B3/2500		G2/5000
BVH (80°-90°)	29.0	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2072.8	2072.8	2072.8	2072.8	2072.8	2072.8	2072.8	2072.8	2072.8	2072.8	2072.8
2.5°	2081.1	2085.6	2081.9	2081.1	2080.1	2080.1	2080.1	2081.1	2084.7	2087.4	2085.6
5°	2107.4	2111.0	2109.2	2108.3	2107.4	2108.3	2106.5	2105.6	2108.3	2108.3	2107.4
7.5°	2140.1	2144.6	2142.8	2144.6	2145.6	2146.4	2141.9	2138.3	2137.4	2140.1	2138.3
10°	2184.6	2188.3	2189.1	2190.1	2191.9	2191.0	2185.5	2179.2	2178.2	2177.4	2176.4
12.5°	2234.5	2237.3	2238.2	2241.8	2244.5	2245.5	2239.1	2233.7	2224.6	2226.4	2222.8
15°	2290.9	2296.3	2295.4	2300.8	2308.1	2309.9	2303.6	2294.5	2286.4	2281.8	2279.1
17.5°	2359.9	2363.6	2361.8	2367.2	2376.2	2380.8	2375.4	2363.6	2355.3	2345.4	2339.9
20°	2441.6	2448.0	2449.9	2449.9	2458.0	2462.5	2454.4	2450.7	2438.0	2430.7	2426.2
22.5°	2534.3	2537.1	2542.5	2548.0	2556.1	2554.3	2551.6	2546.2	2534.3	2528.0	2520.7
25°	2638.8	2641.5	2655.2	2667.0	2669.6	2667.8	2664.2	2661.5	2650.6	2636.0	2630.6
27.5°	2760.5	2765.9	2784.1	2795.0	2795.0	2795.9	2788.7	2797.7	2774.1	2756.9	2755.1
30°	2913.1	2916.8	2932.2	2943.1	2937.7	2933.1	2931.2	2940.3	2915.0	2884.0	2876.7
32.5°	3063.9	3076.6	3090.3	3113.8	3094.8	3086.6	3084.8	3091.1	3062.1	3027.5	3017.5
35°	3225.6	3234.7	3260.1	3280.1	3262.8	3243.7	3252.0	3271.9	3237.4	3191.0	3189.2
37.5°	3404.6	3412.7	3445.4	3466.3	3453.6	3420.8	3434.5	3458.1	3423.6	3366.4	3354.5
40°	3590.8	3608.0	3648.9	3670.7	3649.8	3606.2	3631.6	3657.1	3626.2	3559.8	3533.5
42.5°	3799.7	3826.9	3886.0	3896.8	3856.9	3797.9	3842.3	3883.2	3861.4	3785.1	3775.2
45°	4044.0	4060.3	4133.1	4156.6	4101.2	4027.7	4083.0	4157.6	4141.2	4053.1	4034.0
47.5°	4317.5	4332.9	4408.3	4443.7	4373.8	4274.7	4374.6	4471.9	4461.8	4367.4	4358.3
50°	4640.8	4644.4	4748.9	4788.8	4718.9	4633.6	4722.6	4843.3	4803.4	4682.6	4680.8
52.5°	4995.1	4999.6	5131.3	5208.5	5169.4	5073.2	5178.5	5252.1	5150.4	4992.3	4980.5
55°	5302.1	5324.8	5504.6	5709.9	5763.5	5693.6	5725.4	5690.8	5440.1	5218.5	5184.0
57.5°	5427.4	5471.9	5745.3	6128.7	6477.5	6581.0	6335.8	6006.9	5555.5	5242.1	5208.5
60°	5121.3	5169.4	5593.7	6321.2	7211.4	7661.1	6971.7	6060.6	5293.0	4852.4	4799.8
62.5°	4101.2	4114.8	4738.9	5868.0	7639.3	8803.8	7239.6	5603.7	4529.1	3930.4	3909.6
64°	2951.3	3091.1	3752.4	5144.9	7452.2	9238.9	7085.2	4963.3	3678.8	3073.0	2974.9
65°	2207.3	2245.5	3024.8	4393.7	7122.4	9206.2	6785.4	4351.1	3046.7	2351.7	2242.7
67.5°	833.9	838.4	1116.4	2190.1	5070.5	7920.9	5178.5	2367.2	1283.5	928.3	894.7
70°	346.1	352.4	409.7	736.6	2179.2	5085.9	2497.1	853.9	469.6	380.6	375.1
72.5°	253.5	257.1	274.3	327.0	670.4	2088.3	821.1	362.5	275.2	246.2	243.4
75°	199.0	200.8	213.4	240.7	312.5	578.6	341.5	248.9	209.8	188.9	187.1
77.5°	151.7	156.2	165.3	183.5	209.8	274.3	226.2	186.2	161.7	144.5	141.7
80°	104.5	109.9	127.2	134.4	140.8	178.1	154.4	140.8	126.3	105.4	99.0
82.5°	64.5	68.1	85.3	91.8	89.0	99.9	99.0	100.9	89.9	65.4	60.8
85°	33.6	35.4	46.4	48.2	44.5	40.9	50.9	59.0	55.4	37.3	36.3
87.5°	7.3	8.1	10.0	9.1	10.0	10.0	12.7	19.1	20.0	12.7	11.8
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)