

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: P452539

Luminaire Tested: **GALN-SA3C-730-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-730-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20047 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

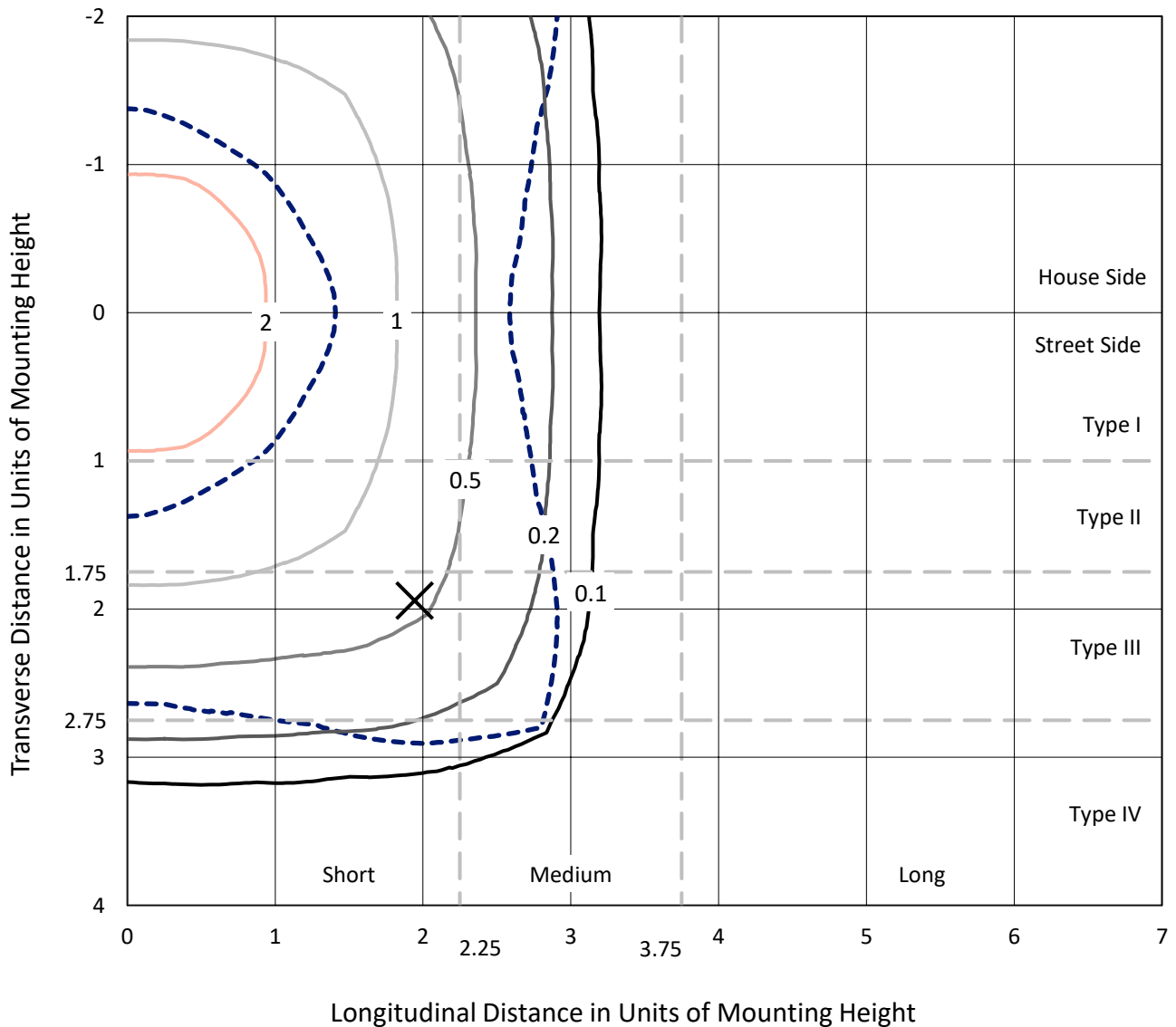
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

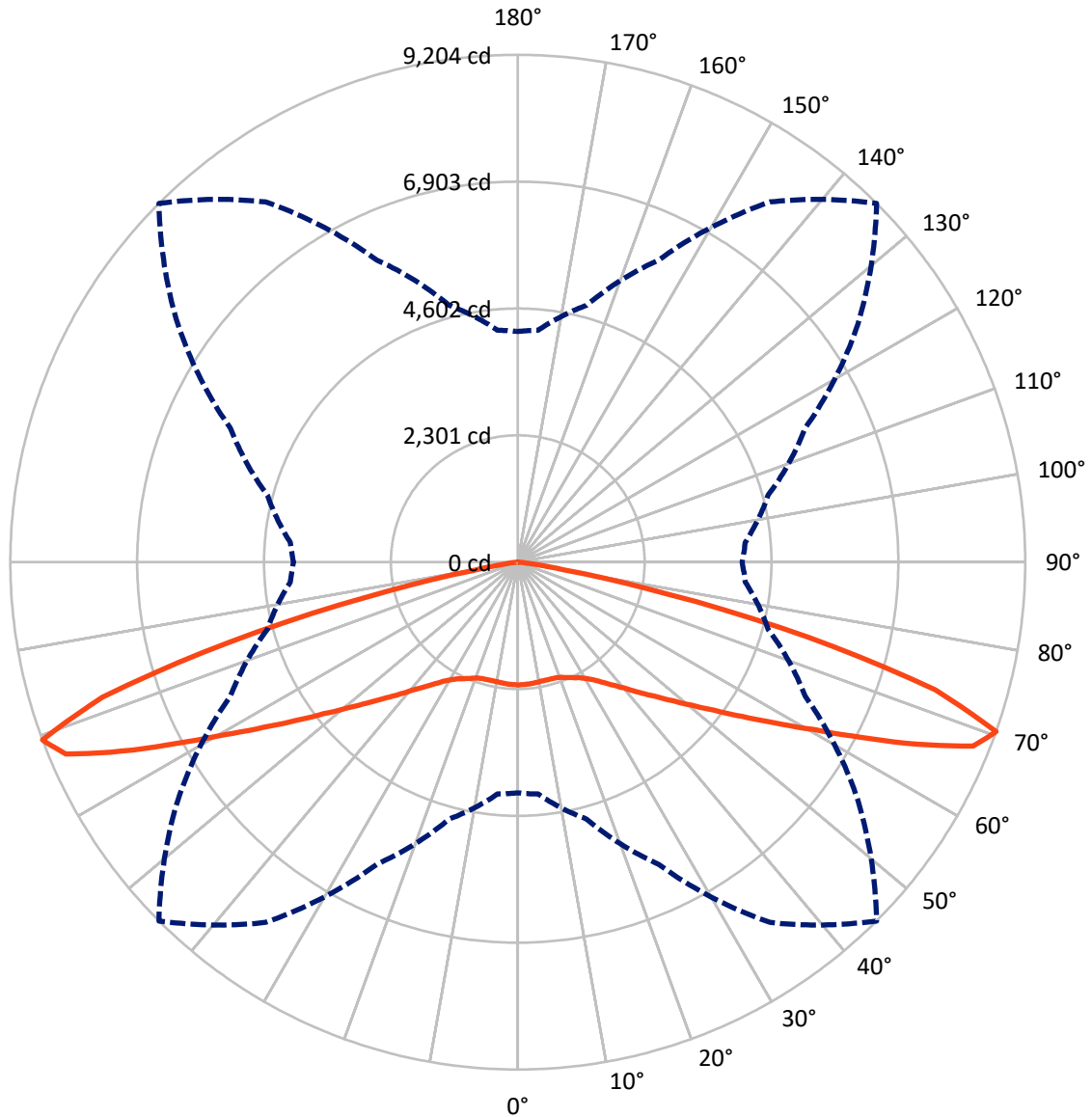
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10023.5	0.0	10023.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10023.5	0.0	10023.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20047.0	0.0	20047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	1.1
10°-20°	619.5	3.1
20°-30°	1059.5	5.3
30°-40°	1681.6	8.4
40°-50°	2712.9	13.5
50°-60°	4413.9	22.0
60°-70°	6398.5	31.9
70°-80°	2838.2	14.2
80°-90°	111.9	0.6
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°	20047.0	100.0
0°-180°	20047.0	100.0

Coefficient of Utilization



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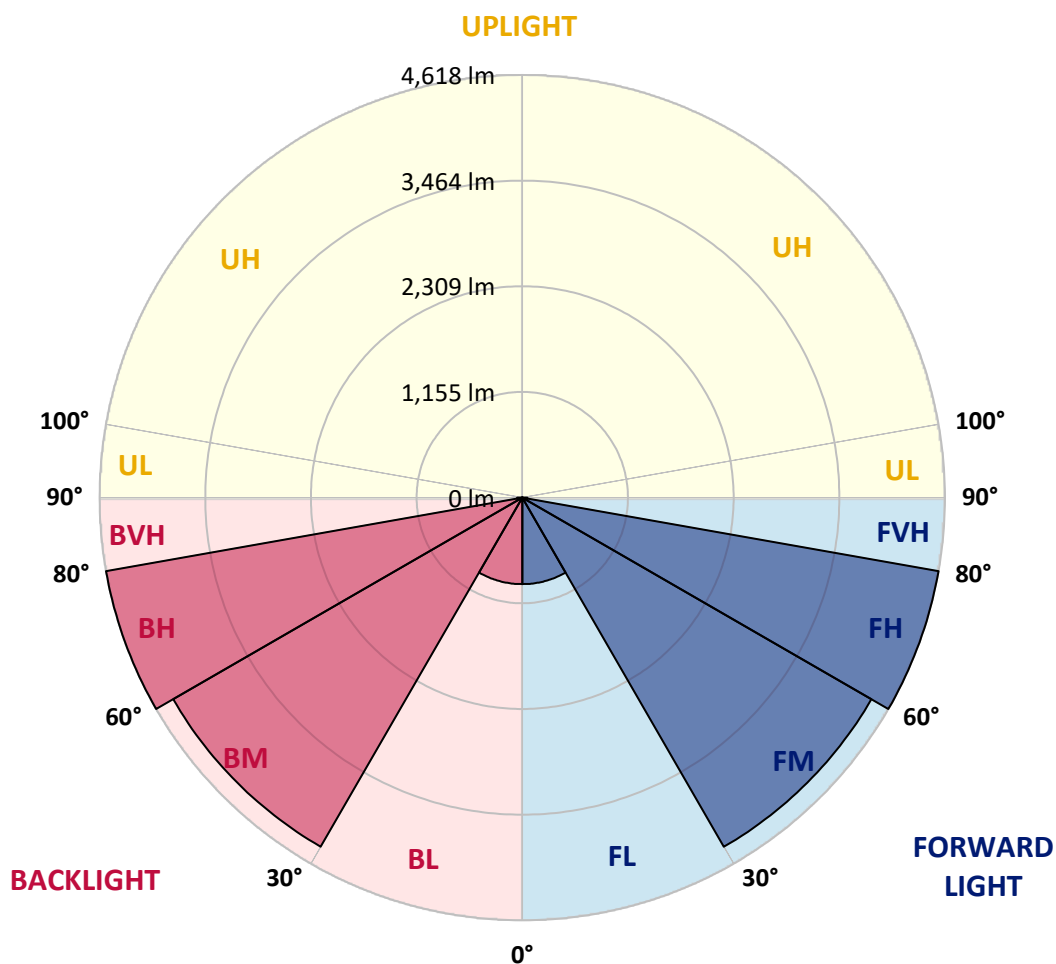
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	945.0	4.7			
FM (30°-60°)	4404.2	22.0			
FH (60°-80°)	4618.4	23.0			G2/5000
FVH (80°-90°)	56.0	0.3			G1/100
BL (0°-30°)	945.0	4.7	B2/1000		
BM (30°-60°)	4404.2	22.0	B3/5000		
BH (60°-80°)	4618.4	23.0	B4/5000		G2/5000
BVH (80°-90°)	56.0	0.3			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°	2226.1	2226.1	2226.1	2226.1	2226.1	2226.1	2226.1	2226.1	2226.1	2226.1	2226.1
2.5°	2226.1	2228.2	2225.1	2223.0	2221.9	2221.9	2220.8	2221.9	2228.2	2229.3	2226.1
5°	2219.8	2221.9	2220.8	2218.7	2217.7	2217.7	2216.6	2215.6	2220.8	2223.0	2221.9
7.5°	2211.3	2212.4	2211.3	2210.3	2211.3	2210.3	2207.1	2205.0	2209.2	2209.2	2208.2
10°	2196.5	2198.7	2197.6	2198.7	2200.8	2200.8	2196.5	2192.3	2193.4	2191.3	2191.3
12.5°	2178.6	2181.8	2182.8	2187.0	2192.3	2198.7	2189.1	2179.6	2177.5	2176.5	2175.4
15°	2167.0	2170.1	2174.4	2178.6	2188.1	2201.8	2188.1	2173.3	2169.1	2164.8	2162.7
17.5°	2163.8	2168.0	2174.4	2180.7	2193.4	2207.1	2195.5	2180.7	2170.1	2163.8	2161.7
20°	2172.2	2175.4	2184.9	2196.5	2214.5	2228.2	2216.6	2200.8	2184.9	2175.4	2172.2
22.5°	2189.1	2194.4	2206.1	2227.2	2252.5	2272.6	2256.8	2230.4	2205.0	2192.3	2188.1
25°	2226.1	2230.4	2244.1	2272.6	2302.2	2321.2	2304.3	2273.7	2238.8	2221.9	2216.6
27.5°	2282.1	2288.5	2303.3	2337.1	2361.4	2371.9	2360.3	2339.2	2313.8	2295.9	2291.6
30°	2361.4	2368.8	2390.9	2426.9	2442.7	2449.1	2443.8	2430.0	2412.1	2393.1	2388.8
32.5°	2468.1	2472.3	2497.7	2531.5	2546.3	2548.4	2542.0	2535.7	2506.1	2474.4	2472.3
35°	2587.5	2594.9	2625.5	2665.6	2679.4	2680.4	2667.8	2658.2	2623.4	2598.0	2598.0
37.5°	2745.9	2749.1	2778.7	2824.1	2838.9	2834.7	2828.4	2819.9	2782.9	2750.2	2751.2
40°	2931.9	2938.2	2963.6	3016.4	3016.4	3011.1	3015.4	3009.0	2972.0	2940.3	2941.4
42.5°	3152.7	3155.9	3186.5	3242.5	3238.3	3227.7	3231.9	3223.5	3200.3	3164.3	3151.7
45°	3388.3	3401.0	3453.8	3507.7	3499.3	3465.4	3482.3	3480.2	3459.1	3405.2	3408.4
47.5°	3672.5	3693.7	3744.4	3808.8	3799.3	3746.5	3765.5	3778.2	3748.6	3689.4	3678.9
50°	3992.7	4006.4	4081.4	4141.6	4133.2	4077.2	4120.5	4122.6	4048.7	3965.2	3965.2
52.5°	4333.9	4347.7	4449.1	4543.1	4548.4	4467.0	4501.9	4499.8	4379.3	4269.5	4248.3
55°	4716.4	4722.7	4853.7	4992.1	5021.7	4942.5	4946.7	4904.4	4748.1	4620.2	4608.6
57.5°	5111.5	5134.8	5279.5	5459.1	5546.8	5498.2	5476.0	5363.0	5211.9	5065.0	5057.6
60°	5548.9	5550.0	5738.1	5950.4	6127.9	6160.7	6069.8	5918.7	5723.3	5528.9	5520.4
62.5°	5852.2	5897.6	6135.3	6494.5	6812.6	6996.4	6756.6	6439.6	6055.0	5741.2	5709.5
65°	5914.5	5945.1	6307.5	6916.1	7565.9	7962.1	7407.4	6733.3	6077.2	5658.8	5637.7
67.5°	5410.5	5443.3	5931.4	6865.4	8094.1	8906.6	7830.0	6591.7	5701.1	5183.4	5142.2
70°	4184.9	4221.9	4825.2	6043.4	7976.9	9203.5	7528.9	5749.7	4701.6	4142.7	4067.7
72.5°	2225.1	2361.4	2877.0	4148.0	6474.5	7924.0	6173.3	4195.5	3032.3	2478.6	2379.3
75°	812.5	829.4	1116.8	1839.4	3766.6	5433.8	3911.3	2001.1	1150.6	888.5	843.1
77.5°	336.0	334.9	367.7	555.7	1368.2	2782.9	1526.7	587.4	366.6	339.1	334.9
80°	198.6	198.6	218.7	231.4	360.3	839.9	402.5	262.0	219.8	200.7	203.9
82.5°	88.7	94.0	138.4	145.8	174.3	230.3	194.4	166.9	143.7	99.3	89.8
85°	48.6	42.3	72.9	76.1	83.5	85.6	91.9	90.9	83.5	48.6	49.7
87.5°	9.5	11.6	21.1	15.8	18.0	15.8	21.1	29.6	30.6	16.9	13.7
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)