

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: P458803

Luminaire Tested: **GALN-SA3C-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458803
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-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 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: 20505 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

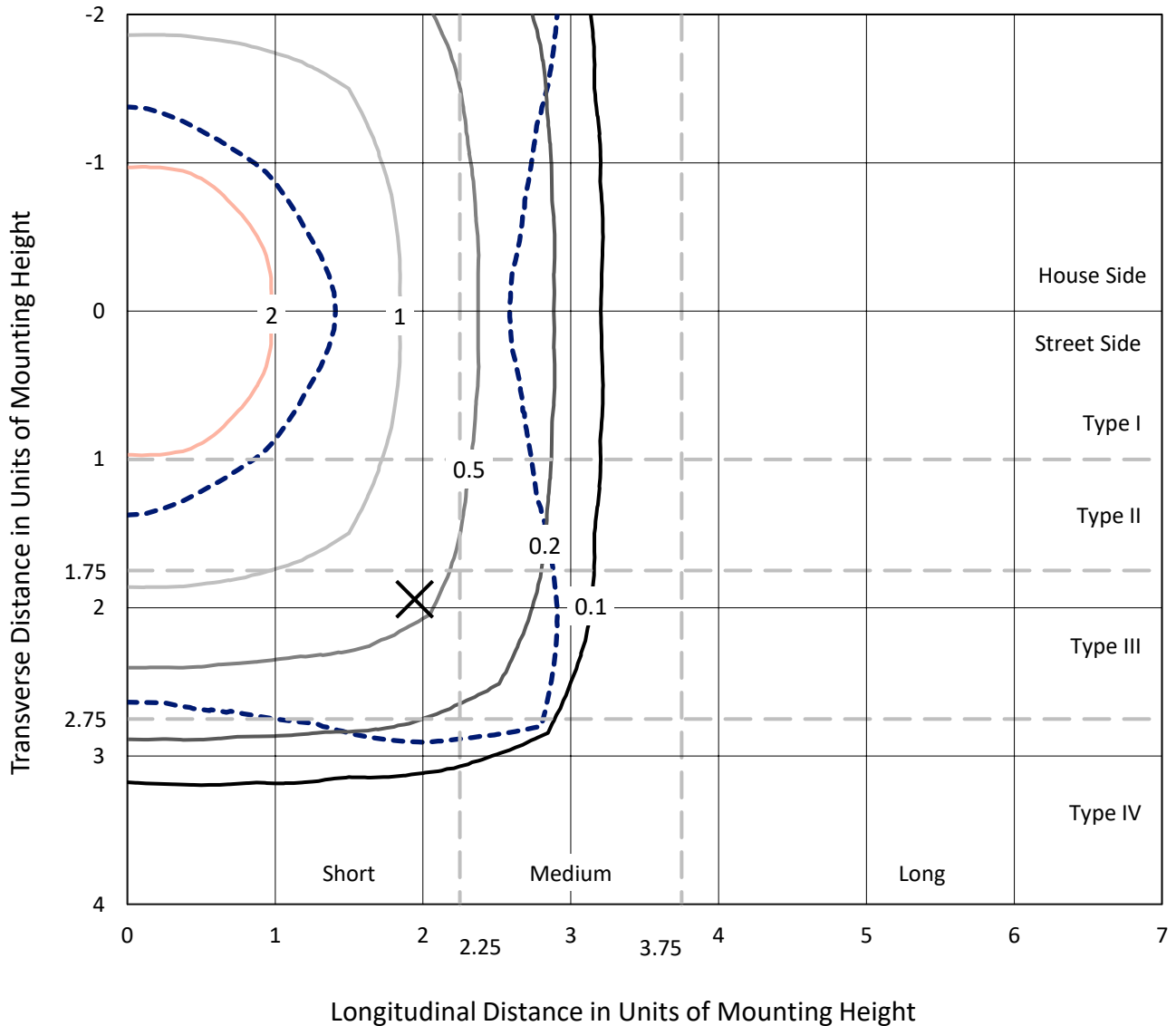
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

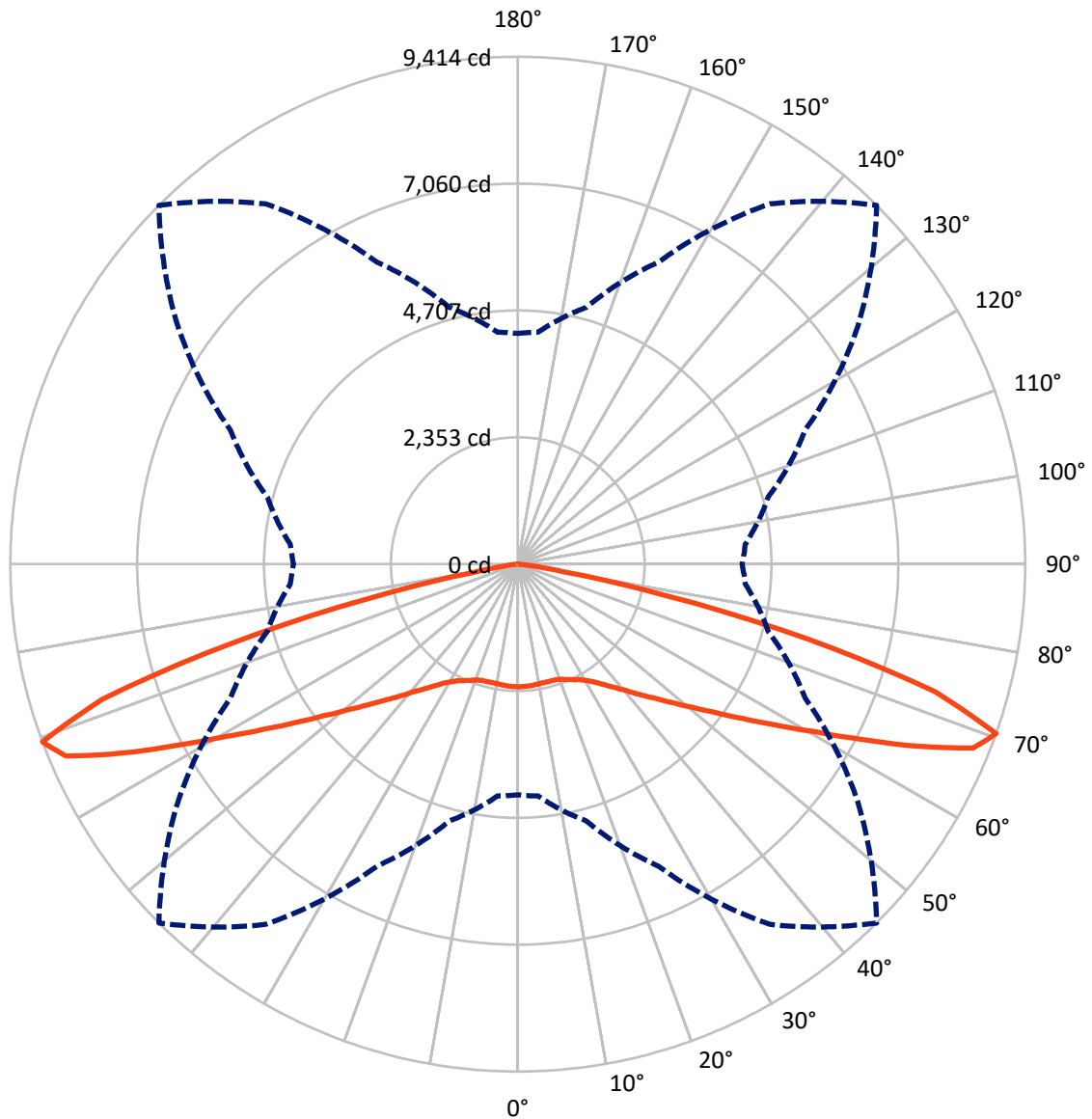
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	10252.5	0.0	10252.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10252.5	0.0	10252.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20505.0	0.0	20505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.9	1.1
10°-20°	633.6	3.1
20°-30°	1083.7	5.3
30°-40°	1720.0	8.4
40°-50°	2774.8	13.5
50°-60°	4514.7	22.0
60°-70°	6544.7	31.9
70°-80°	2903.0	14.2
80°-90°	114.5	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°	20505.0	100.0
0°-180°	20505.0	100.0

Coefficient of Utilization



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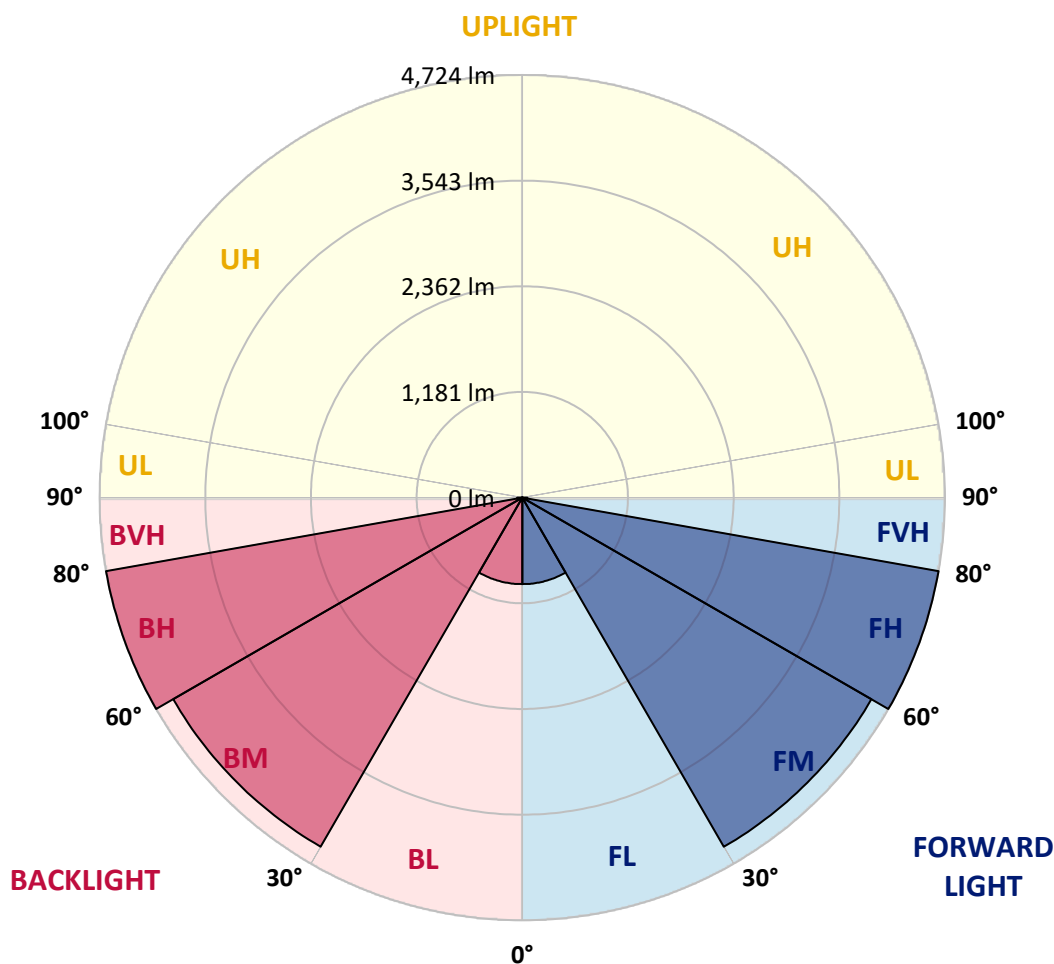
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	966.6	4.7			
FM	(30°-60°)	4504.8	22.0			
FH	(60°-80°)	4723.9	23.0			G2/5000
FVH	(80°-90°)	57.2	0.3			G1/100
BL	(0°-30°)	966.6	4.7	B2/1000		
BM	(30°-60°)	4504.8	22.0	B3/5000		
BH	(60°-80°)	4723.9	23.0	B4/5000		G2/5000
BVH	(80°-90°)	57.2	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°	2277.0	2277.0	2277.0	2277.0	2277.0	2277.0	2277.0	2277.0	2277.0	2277.0	2277.0
2.5°	2277.0	2279.1	2275.9	2273.7	2272.7	2272.7	2271.6	2272.7	2279.1	2280.2	2277.0
5°	2270.5	2272.7	2271.6	2269.4	2268.3	2268.3	2267.3	2266.2	2271.6	2273.7	2272.7
7.5°	2261.9	2262.9	2261.9	2260.8	2261.9	2260.8	2257.5	2255.4	2259.7	2259.7	2258.6
10°	2246.7	2248.9	2247.8	2248.9	2251.0	2251.0	2246.7	2242.4	2243.5	2241.3	2241.3
12.5°	2228.4	2231.6	2232.7	2237.0	2242.4	2248.9	2239.2	2229.4	2227.3	2226.2	2225.1
15°	2216.5	2219.7	2224.0	2228.4	2238.1	2252.1	2238.1	2222.9	2218.6	2214.3	2212.1
17.5°	2213.2	2217.5	2224.0	2230.5	2243.5	2257.5	2245.6	2230.5	2219.7	2213.2	2211.1
20°	2221.9	2225.1	2234.8	2246.7	2265.1	2279.1	2267.3	2251.0	2234.8	2225.1	2221.9
22.5°	2239.2	2244.6	2256.5	2278.1	2304.0	2324.5	2308.3	2281.3	2255.4	2242.4	2238.1
25°	2277.0	2281.3	2295.4	2324.5	2354.8	2374.2	2357.0	2325.6	2290.0	2272.7	2267.3
27.5°	2334.3	2340.7	2355.9	2390.5	2415.3	2426.1	2414.2	2392.6	2366.7	2348.3	2344.0
30°	2415.3	2422.9	2445.6	2482.3	2498.5	2505.0	2499.6	2485.6	2467.2	2447.7	2443.4
32.5°	2524.5	2528.8	2554.7	2589.3	2604.4	2606.6	2600.1	2593.6	2563.4	2530.9	2528.8
35°	2646.6	2654.1	2685.5	2726.5	2740.6	2741.7	2728.7	2719.0	2683.3	2657.4	2657.4
37.5°	2808.7	2811.9	2842.2	2888.6	2903.8	2899.5	2893.0	2884.3	2846.5	2813.0	2814.1
40°	2998.9	3005.4	3031.3	3085.3	3085.3	3079.9	3084.2	3077.8	3039.9	3007.5	3008.6
42.5°	3224.7	3228.0	3259.3	3316.6	3312.3	3301.5	3305.8	3297.1	3273.4	3236.6	3223.7
45°	3465.7	3478.7	3532.7	3587.8	3579.2	3544.6	3561.9	3559.7	3538.1	3483.0	3486.3
47.5°	3756.4	3778.0	3829.9	3895.8	3886.1	3832.1	3851.5	3864.5	3834.2	3773.7	3762.9
50°	4083.9	4097.9	4174.7	4236.2	4227.6	4170.3	4214.6	4216.8	4141.1	4055.8	4055.8
52.5°	4432.9	4447.0	4550.7	4646.9	4652.3	4569.1	4604.8	4602.6	4479.4	4367.0	4345.4
55°	4824.1	4830.6	4964.6	5106.2	5136.5	5055.4	5059.7	5016.5	4856.6	4725.8	4713.9
57.5°	5228.3	5252.1	5400.1	5583.9	5673.5	5623.8	5601.1	5485.5	5331.0	5180.8	5173.2
60°	5675.7	5676.8	5869.1	6086.4	6267.9	6301.4	6208.5	6053.9	5854.0	5655.2	5646.5
62.5°	5985.9	6032.3	6275.5	6642.9	6968.2	7156.2	6910.9	6586.7	6193.4	5872.4	5840.0
65°	6049.6	6081.0	6451.6	7074.1	7738.7	8144.0	7576.6	6887.1	6216.0	5788.1	5766.5
67.5°	5534.1	5567.6	6066.9	7022.2	8279.1	9110.1	8008.9	6742.3	5831.3	5301.8	5259.6
70°	4280.6	4318.4	4935.4	6181.5	8159.1	9413.8	7700.9	5881.0	4809.0	4237.3	4160.6
72.5°	2275.9	2415.3	2942.7	4242.7	6622.4	8105.1	6314.4	4291.4	3101.5	2535.3	2433.7
75°	831.0	848.3	1142.3	1881.5	3852.6	5557.9	4000.7	2046.8	1176.9	908.8	862.4
77.5°	343.7	342.6	376.1	568.4	1399.5	2846.5	1561.6	600.9	375.0	346.9	342.6
80°	203.2	203.2	223.7	236.7	368.5	859.1	411.7	268.0	224.8	205.3	208.6
82.5°	90.8	96.2	141.6	149.1	178.3	235.6	198.8	170.7	147.0	101.6	91.9
85°	49.7	43.2	74.6	77.8	85.4	87.5	94.0	92.9	85.4	49.7	50.8
87.5°	9.7	11.9	21.6	16.2	18.4	16.2	21.6	30.3	31.3	17.3	14.0
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)