

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: P454540

Luminaire Tested: **GALN-SA5C-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454540
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-SA5C-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 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: 29343 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 269
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



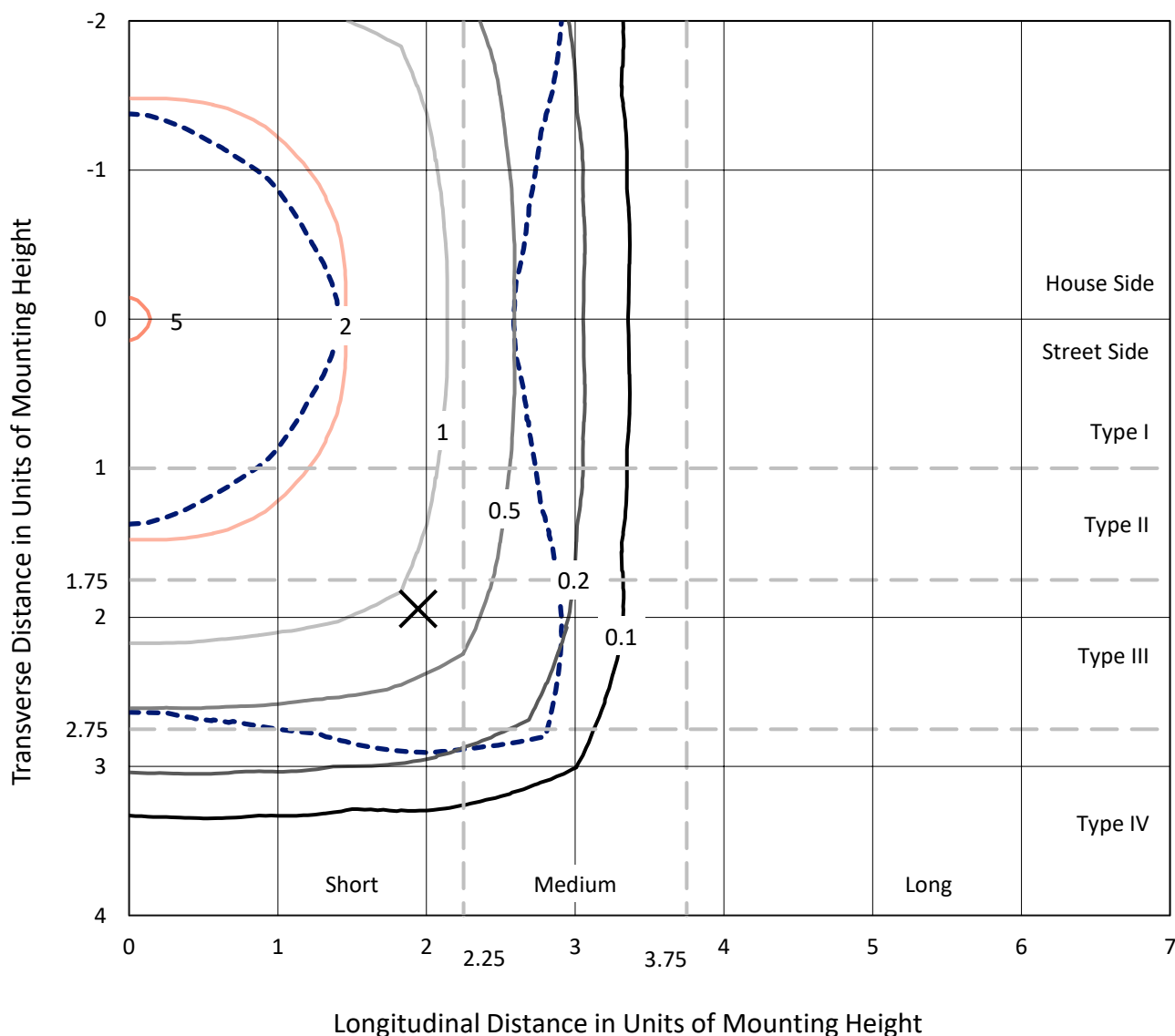
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

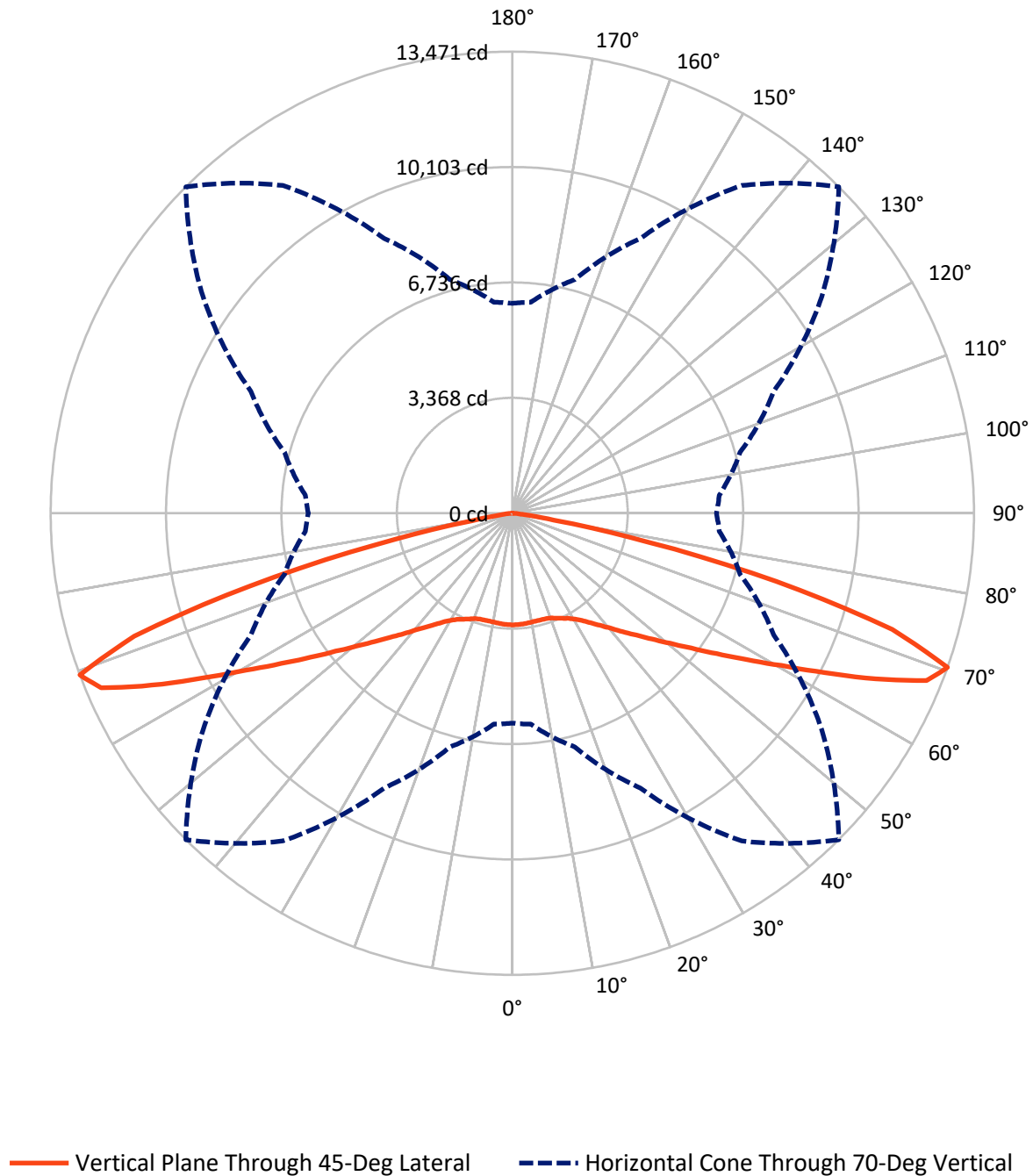


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14671.5	0.0	14671.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14671.5	0.0	14671.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29343.0	0.0	29343.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.0	1.1
10°-20°	906.7	3.1
20°-30°	1550.7	5.3
30°-40°	2461.4	8.4
40°-50°	3970.8	13.5
50°-60°	6460.6	22.0
60°-70°	9365.6	31.9
70°-80°	4154.2	14.2
80°-90°	163.8	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°	29343.0	100.0
0°-180°	29343.0	100.0

Coefficient of Utilization



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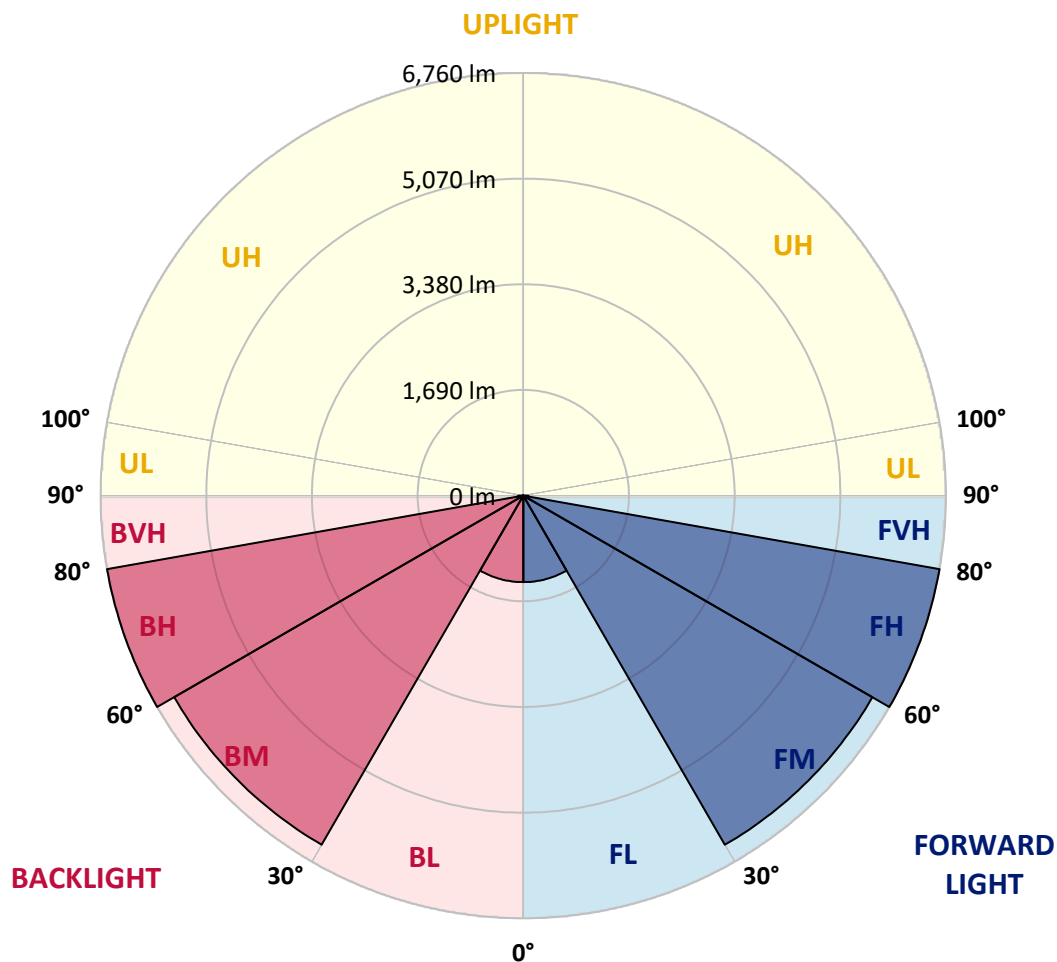
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1383.2	4.7			
FM	(30°-60°)	6446.4	22.0			
FH	(60°-80°)	6759.9	23.0			G3/7500
FVH	(80°-90°)	81.9	0.3			G1/100
BL	(0°-30°)	1383.2	4.7	B3/2500		
BM	(30°-60°)	6446.4	22.0	B4/8500		
BH	(60°-80°)	6759.9	23.0	B5		G3/7500
BVH	(80°-90°)	81.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3258.4	3258.4	3258.4	3258.4	3258.4	3258.4	3258.4	3258.4	3258.4	3258.4	3258.4
2.5°	3258.4	3261.5	3256.9	3253.8	3252.2	3252.2	3250.7	3252.2	3261.5	3263.0	3258.4
5°	3249.1	3252.2	3250.7	3247.6	3246.0	3246.0	3244.5	3242.9	3250.7	3253.8	3252.2
7.5°	3236.8	3238.3	3236.8	3235.2	3236.8	3235.2	3230.6	3227.5	3233.7	3233.7	3232.1
10°	3215.1	3218.2	3216.6	3218.2	3221.3	3221.3	3215.1	3208.9	3210.5	3207.4	3207.4
12.5°	3188.8	3193.5	3195.0	3201.2	3208.9	3218.2	3204.3	3190.4	3187.3	3185.7	3184.2
15°	3171.8	3176.4	3182.6	3188.8	3202.7	3222.8	3202.7	3181.1	3174.9	3168.7	3165.6
17.5°	3167.2	3173.3	3182.6	3191.9	3210.5	3230.6	3213.6	3191.9	3176.4	3167.2	3164.1
20°	3179.5	3184.2	3198.1	3215.1	3241.4	3261.5	3244.5	3221.3	3198.1	3184.2	3179.5
22.5°	3204.3	3212.0	3229.0	3259.9	3297.1	3326.4	3303.2	3264.6	3227.5	3208.9	3202.7
25°	3258.4	3264.6	3284.7	3326.4	3369.7	3397.6	3372.8	3328.0	3277.0	3252.2	3244.5
27.5°	3340.4	3349.6	3371.3	3420.8	3456.3	3471.8	3454.8	3423.9	3386.8	3360.5	3354.3
30°	3456.3	3467.2	3499.7	3552.2	3575.4	3584.7	3577.0	3556.9	3530.6	3502.7	3496.6
32.5°	3612.5	3618.7	3655.8	3705.3	3727.0	3730.1	3720.8	3711.5	3668.2	3621.8	3618.7
35°	3787.3	3798.1	3843.0	3901.7	3921.8	3923.4	3904.8	3890.9	3839.9	3802.8	3802.8
37.5°	4019.3	4023.9	4067.2	4133.7	4155.4	4149.2	4139.9	4127.5	4073.4	4025.4	4027.0
40°	4291.4	4300.7	4337.8	4415.2	4415.2	4407.4	4413.6	4404.3	4350.2	4303.8	4305.4
42.5°	4614.7	4619.3	4664.1	4746.1	4739.9	4724.5	4730.6	4718.3	4684.2	4631.7	4613.1
45°	4959.5	4978.1	5055.4	5134.3	5121.9	5072.4	5097.1	5094.1	5063.1	4984.3	4988.9
47.5°	5375.5	5406.4	5480.7	5575.0	5561.1	5483.8	5511.6	5530.2	5486.9	5400.3	5384.8
50°	5844.1	5864.2	5974.0	6062.1	6049.8	5967.8	6031.2	6034.3	5926.1	5803.9	5803.9
52.5°	6343.6	6363.7	6512.2	6649.8	6657.5	6538.5	6589.5	6586.4	6410.1	6249.3	6218.3
55°	6903.4	6912.7	7104.5	7307.0	7350.3	7234.4	7240.5	7178.7	6949.8	6762.7	6745.7
57.5°	7481.8	7515.8	7727.7	7990.6	8118.9	8047.8	8015.3	7849.9	7628.7	7413.8	7402.9
60°	8122.0	8123.6	8398.9	8709.7	8969.5	9017.4	8884.4	8663.3	8377.2	8092.7	8080.3
62.5°	8565.9	8632.4	8980.3	9506.1	9971.6	10240.7	9889.6	9425.7	8862.8	8403.5	8357.1
65°	8657.1	8702.0	9232.4	10123.2	11074.2	11654.2	10842.3	9855.6	8895.3	8282.9	8251.9
67.5°	7919.4	7967.4	8681.9	10048.9	11847.5	13036.7	11460.9	9648.4	8344.7	7587.0	7526.6
70°	6125.5	6179.7	7062.7	8845.8	11675.8	13471.3	11020.1	8415.9	6881.8	6063.7	5953.9
72.5°	3256.9	3456.3	4211.0	6071.4	9476.7	11598.5	9036.0	6141.0	4438.4	3628.0	3482.6
75°	1189.2	1214.0	1634.6	2692.4	5513.1	7953.5	5725.0	2929.0	1684.1	1300.6	1234.1
77.5°	491.8	490.2	538.2	813.4	2002.7	4073.4	2234.6	859.8	536.6	496.4	490.2
80°	290.7	290.7	320.1	338.7	527.3	1229.4	589.2	383.5	321.7	293.8	298.5
82.5°	129.9	137.6	202.6	213.4	255.2	337.1	284.5	244.3	210.3	145.4	131.4
85°	71.1	61.9	106.7	111.3	122.2	125.3	134.5	133.0	122.2	71.1	72.7
87.5°	13.9	17.0	30.9	23.2	26.3	23.2	30.9	43.3	44.8	24.7	20.1
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)