

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: P529262

Luminaire Tested: **GALN-SA4B-830-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15789 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 164
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

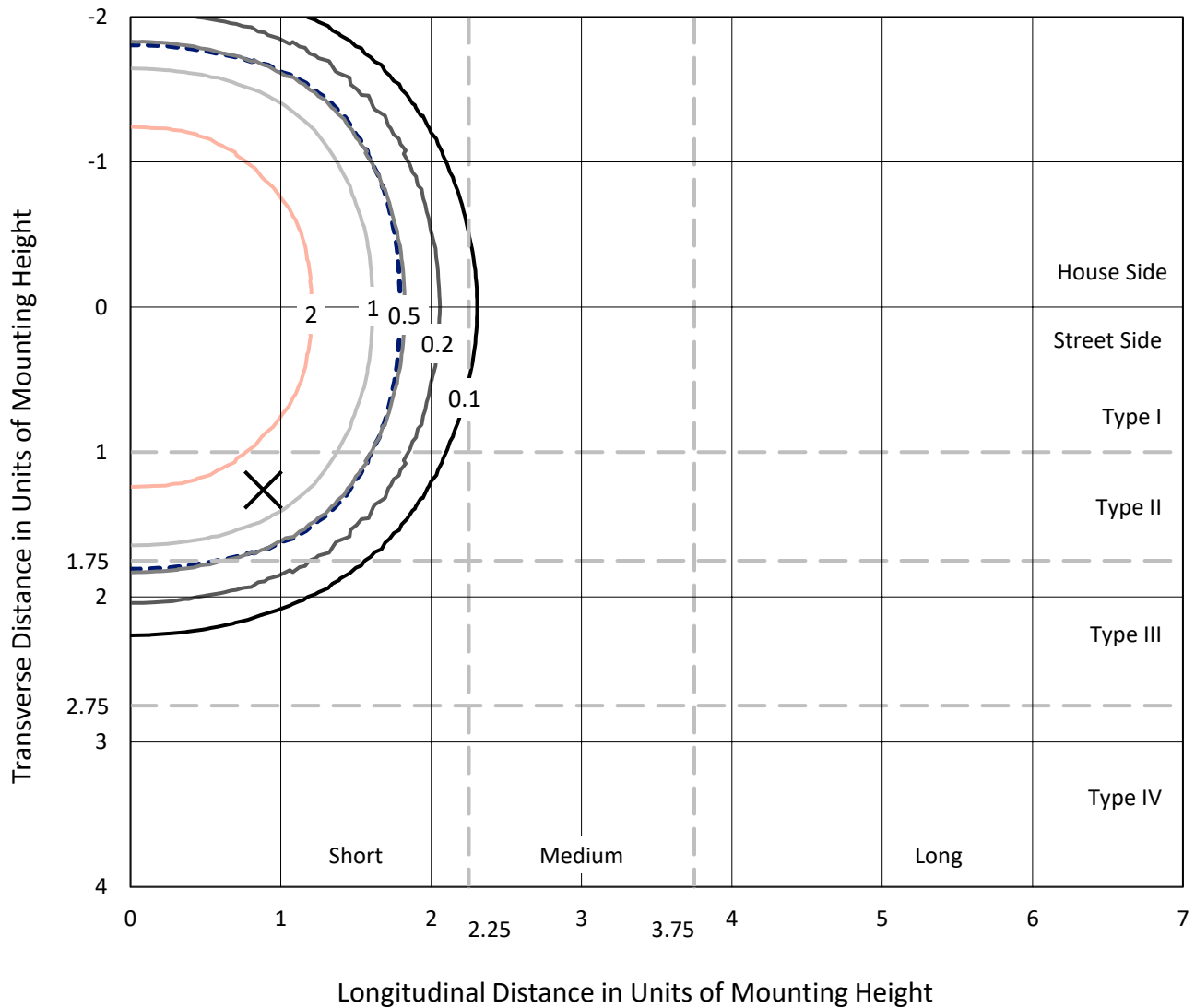


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

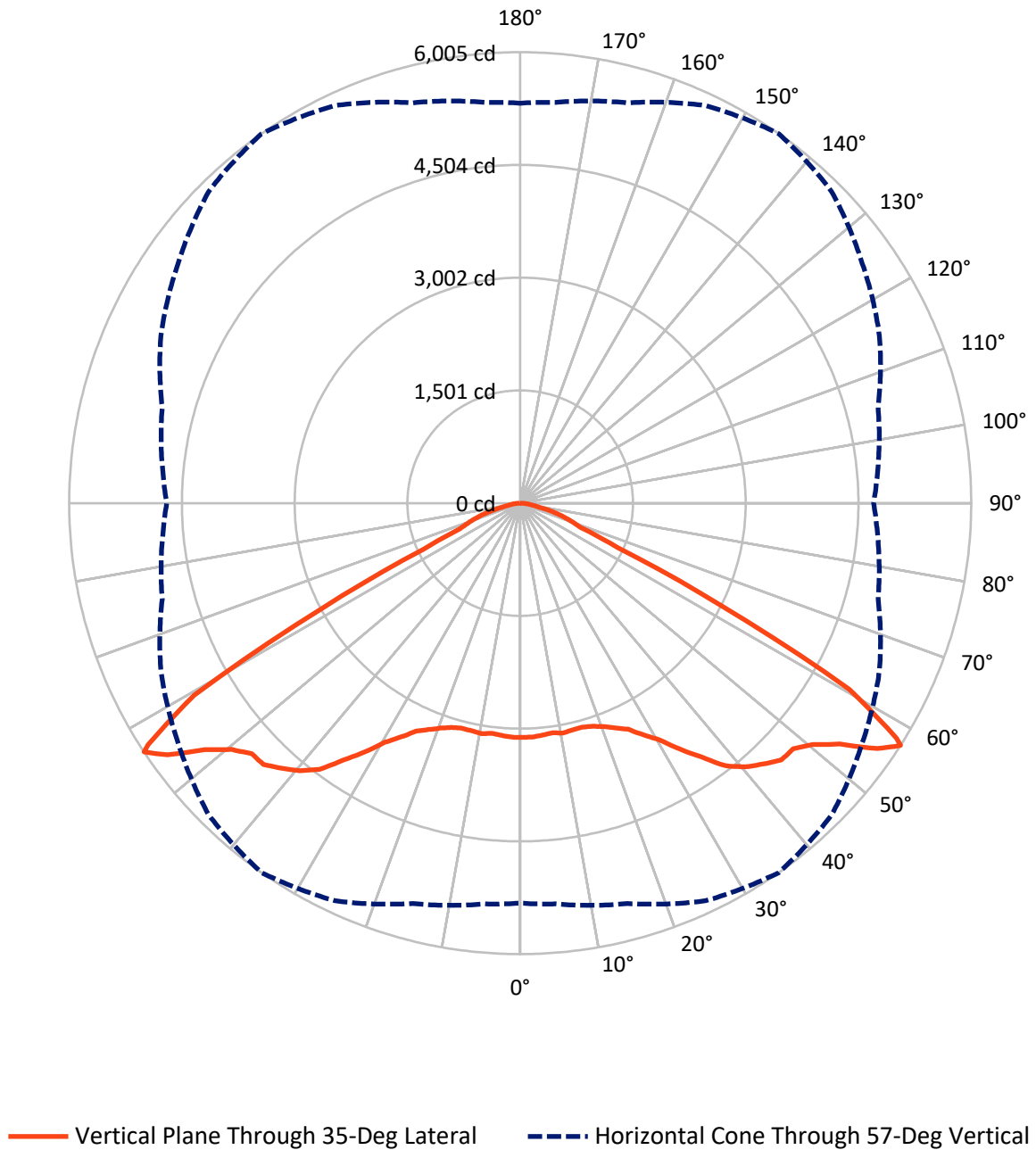


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7894.5	0.0	7894.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7894.5	0.0	7894.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15789.0	0.0	15789.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.6	1.9
10°-20°	875.5	5.5
20°-30°	1529.1	9.7
30°-40°	2505.5	15.9
40°-50°	3673.7	23.3
50°-60°	4627.3	29.3
60°-70°	1740.3	11.0
70°-80°	462.7	2.9
80°-90°	79.3	0.5
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°	15789.0	100.0
0°-180°	15789.0	100.0

Coefficient of Utilization



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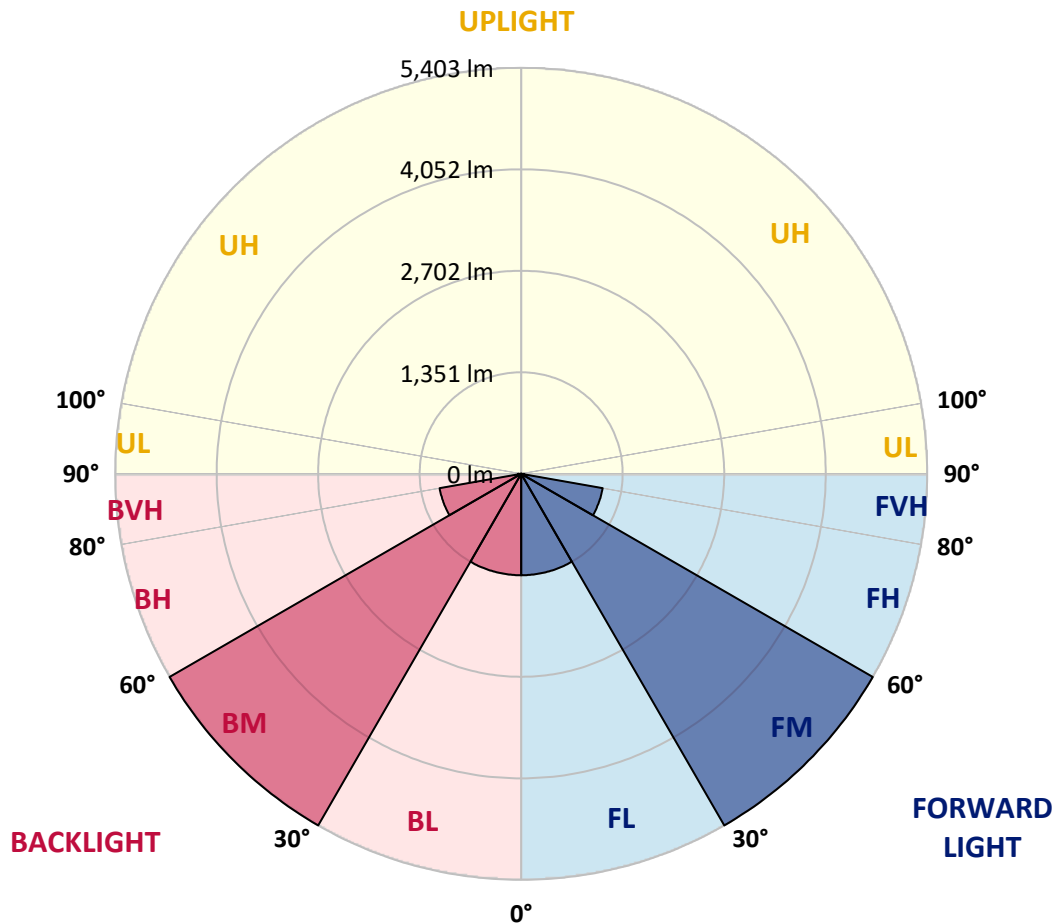
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1350.1	8.6			
FM	(30°-60°)	5403.2	34.2			
FH	(60°-80°)	1101.5	7.0			G1/1800
FVH	(80°-90°)	39.7	0.3			G1/100
BL	(0°-30°)	1350.1	8.6	B3/2500		
BM	(30°-60°)	5403.2	34.2	B4/8500		
BH	(60°-80°)	1101.5	7.0	B3/2500		G1/1800
BVH	(80°-90°)	39.7	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-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3118.2	3118.2	3118.2	3118.2	3118.2	3118.2	3118.2	3118.2	3118.2	3118.2	3118.2
2.5°	3102.6	3133.8	3120.2	3112.4	3118.2	3108.5	3092.9	3110.4	3106.5	3091.0	3085.1
5°	3094.9	3118.2	3102.6	3118.2	3102.6	3129.9	3122.1	3092.9	3127.9	3094.9	3106.5
7.5°	3089.0	3096.8	3100.7	3092.9	3087.1	3120.2	3102.6	3089.0	3069.6	3063.7	3073.5
10°	3075.4	3094.9	3065.7	3104.6	3112.4	3089.0	3089.0	3063.7	3048.2	3038.5	3071.5
12.5°	3110.4	3077.4	3073.5	3092.9	3098.8	3108.5	3081.3	3067.6	3038.5	3042.3	3036.5
15°	3069.6	3083.2	3085.1	3089.0	3094.9	3118.2	3092.9	3063.7	3052.1	3011.2	3015.1
17.5°	3085.1	3071.5	3085.1	3129.9	3122.1	3139.6	3112.4	3067.6	3040.4	3017.1	3048.2
20°	3112.4	3106.5	3112.4	3166.8	3176.6	3192.1	3168.8	3127.9	3075.4	3048.2	3063.7
22.5°	3141.6	3137.7	3141.6	3194.1	3250.5	3269.9	3246.6	3151.3	3124.0	3073.5	3056.0
25°	3194.1	3198.0	3238.8	3297.2	3334.1	3371.1	3328.3	3260.2	3172.7	3141.6	3104.6
27.5°	3310.8	3320.5	3343.9	3429.4	3493.6	3526.7	3466.4	3373.0	3318.6	3254.4	3244.7
30°	3454.7	3454.7	3495.6	3569.5	3657.0	3707.6	3633.7	3522.8	3456.7	3421.7	3400.3
32.5°	3645.4	3624.0	3639.5	3769.9	3906.0	3948.8	3849.6	3713.5	3608.4	3561.7	3546.2
35°	3808.8	3822.4	3857.4	3997.5	4149.2	4248.4	4092.8	3915.8	3808.8	3766.0	3758.2
37.5°	4020.8	4044.1	4061.6	4254.2	4437.1	4474.0	4324.3	4182.3	4051.9	4016.9	3997.5
40°	4320.4	4304.8	4310.6	4452.6	4618.0	4641.3	4493.5	4392.3	4285.4	4264.0	4264.0
42.5°	4567.4	4549.9	4569.4	4621.9	4748.3	4730.8	4649.1	4575.2	4530.5	4507.1	4530.5
45°	4717.2	4713.3	4748.3	4787.2	4876.7	4818.3	4754.2	4765.8	4723.0	4684.1	4682.2
47.5°	4880.6	4855.3	4898.1	4956.5	4888.4	4861.1	4857.3	4882.5	4868.9	4800.8	4779.4
50°	4960.3	4950.6	5018.7	5086.8	5049.8	4987.6	5001.2	5042.0	4867.0	4775.6	4723.0
52.5°	5174.3	5176.3	5306.6	5343.6	5328.0	5236.6	5265.8	5154.9	4948.7	4820.3	4826.1
55°	5510.8	5497.2	5643.1	5752.1	5769.6	5652.9	5512.8	5357.2	5098.5	4968.1	4929.2
57°	5326.1	5357.2	5518.6	5841.5	6004.9	5866.8	5561.4	5277.4	4933.1	4775.6	4705.5
57.5°	5079.0	5129.6	5409.7	5734.6	5905.7	5894.1	5501.1	5129.6	4822.2	4577.1	4583.0
60°	3721.2	3731.0	3983.8	4499.3	5034.3	5045.9	4567.4	4075.3	3732.9	3466.4	3503.4
62.5°	1962.7	2007.5	2108.6	2523.0	2985.9	3098.8	2808.9	2556.0	2260.4	2058.1	2077.5
65°	1038.8	1032.9	1081.6	1198.3	1425.9	1484.2	1445.3	1245.0	1141.9	1108.8	1110.7
67.5°	844.2	854.0	848.1	854.0	869.5	894.8	889.0	896.8	902.6	912.3	910.4
70°	715.8	715.8	719.7	721.7	721.7	733.4	747.0	772.3	774.2	783.9	787.8
72.5°	564.1	560.2	566.1	579.7	581.6	591.4	610.8	626.4	632.2	632.2	620.5
75°	383.2	387.1	394.9	406.6	418.2	435.7	451.3	461.0	464.9	459.1	453.2
77.5°	215.9	219.8	225.6	243.2	256.8	272.3	289.8	299.6	309.3	311.2	299.6
80°	128.4	128.4	138.1	151.7	167.3	182.9	198.4	210.1	214.0	214.0	208.1
82.5°	77.8	79.8	87.5	101.2	114.8	124.5	138.1	147.8	155.6	153.7	149.8
85°	40.8	40.8	48.6	60.3	70.0	79.8	79.8	73.9	70.0	60.3	56.4
87.5°	13.6	11.7	15.6	15.6	13.6	15.6	15.6	17.5	17.5	17.5	17.5
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)