

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: P455700

Luminaire Tested: **GALN-SA6D-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455700
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-SA6D-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38232 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 368
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

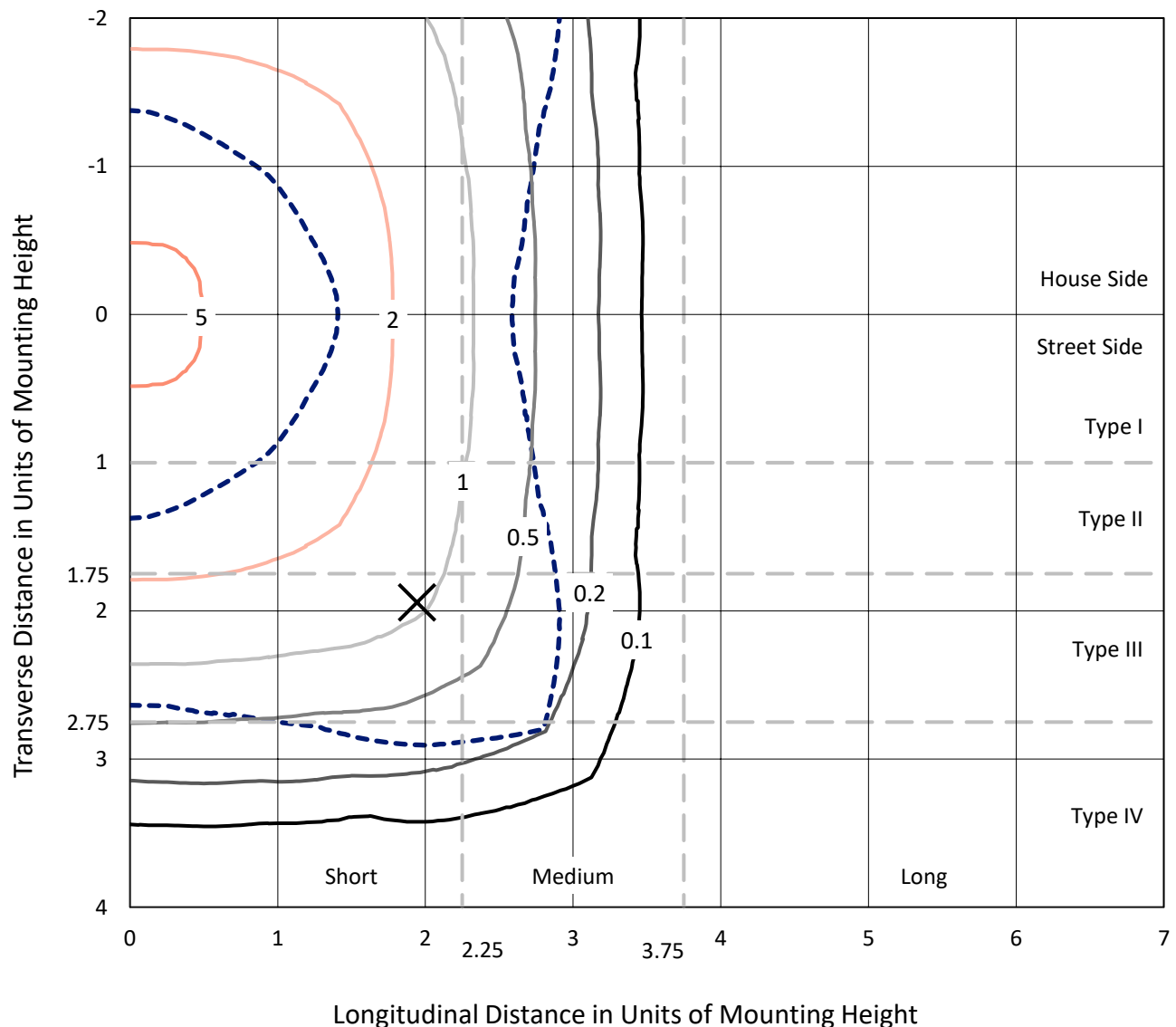


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

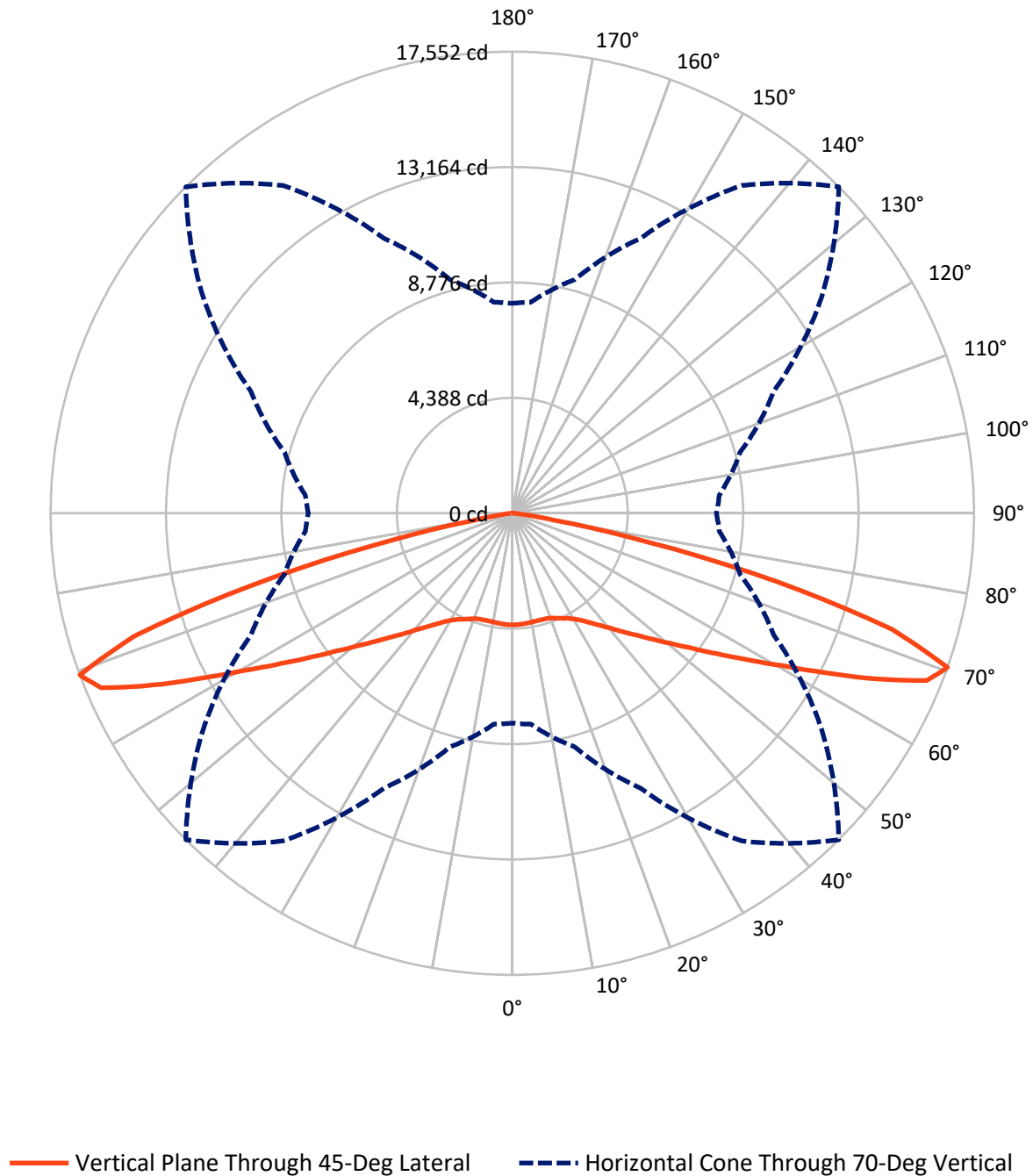


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19116.0	0.0	19116.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19116.0	0.0	19116.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	38232.0	0.0	38232.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.6	1.1
10°-20°	1181.4	3.1
20°-30°	2020.5	5.3
30°-40°	3207.0	8.4
40°-50°	5173.7	13.5
50°-60°	8417.8	22.0
60°-70°	12202.8	31.9
70°-80°	5412.7	14.2
80°-90°	213.5	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°	38232.0	100.0
0°-180°	38232.0	100.0

Coefficient of Utilization



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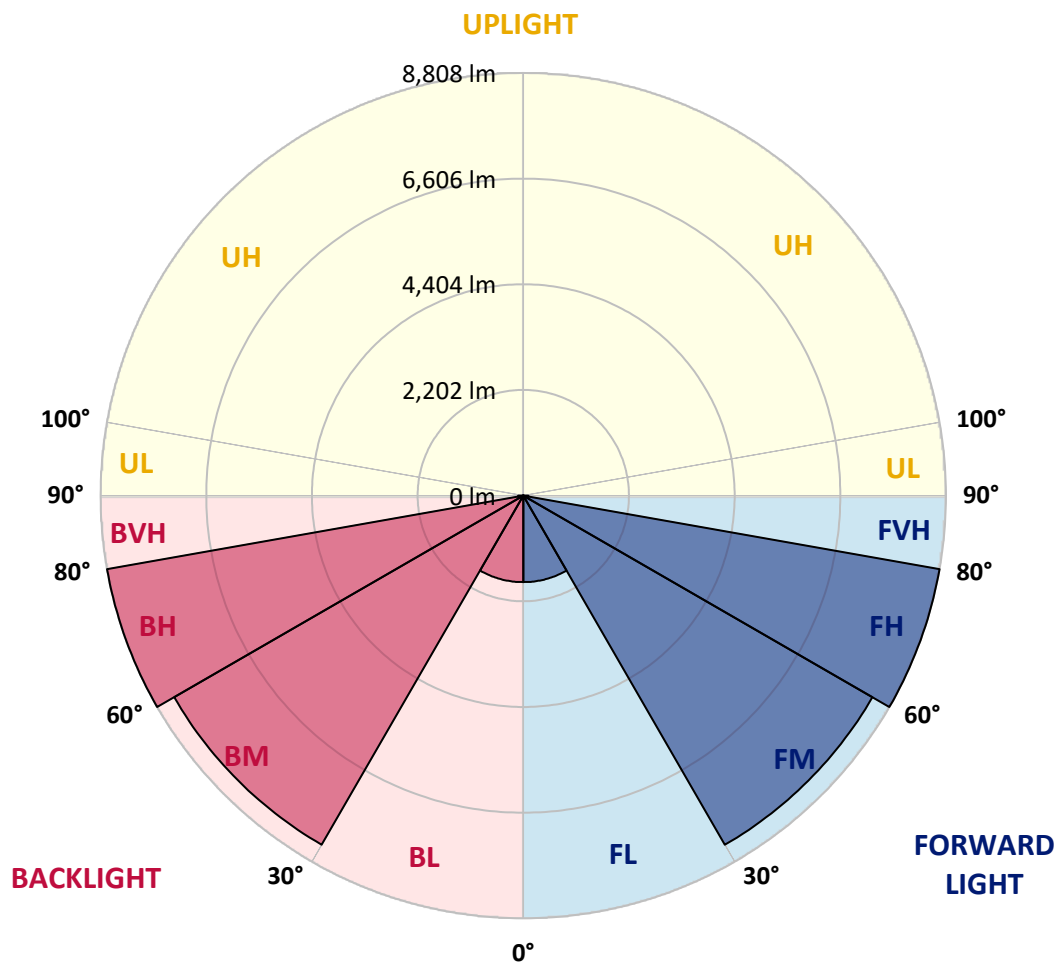
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1802.2	4.7			
FM	(30°-60°)	8399.3	22.0			
FH	(60°-80°)	8807.7	23.0			G4/12000
FVH	(80°-90°)	106.7	0.3			G2/225
BL	(0°-30°)	1802.2	4.7	B3/2500		
BM	(30°-60°)	8399.3	22.0	B4/8500		
BH	(60°-80°)	8807.7	23.0	B5		G4/12000
BVH	(80°-90°)	106.7	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4245.5	4245.5	4245.5	4245.5	4245.5	4245.5	4245.5	4245.5	4245.5	4245.5	4245.5
2.5°	4245.5	4249.5	4243.5	4239.4	4237.4	4237.4	4235.4	4237.4	4249.5	4251.5	4245.5
5°	4233.4	4237.4	4235.4	4231.4	4229.4	4229.4	4227.3	4225.3	4235.4	4239.4	4237.4
7.5°	4217.3	4219.3	4217.3	4215.3	4217.3	4215.3	4209.2	4205.2	4213.2	4213.2	4211.2
10°	4189.1	4193.1	4191.1	4193.1	4197.1	4197.1	4189.1	4181.0	4183.0	4179.0	4179.0
12.5°	4154.8	4160.9	4162.9	4170.9	4181.0	4193.1	4175.0	4156.8	4152.8	4150.8	4148.8
15°	4132.6	4138.7	4146.8	4154.8	4172.9	4199.1	4172.9	4144.7	4136.7	4128.6	4124.6
17.5°	4126.6	4134.7	4146.8	4158.8	4183.0	4209.2	4187.1	4158.8	4138.7	4126.6	4122.6
20°	4142.7	4148.8	4166.9	4189.1	4223.3	4249.5	4227.3	4197.1	4166.9	4148.8	4142.7
22.5°	4175.0	4185.0	4207.2	4247.5	4295.9	4334.1	4303.9	4253.5	4205.2	4181.0	4172.9
25°	4245.5	4253.5	4279.7	4334.1	4390.6	4426.8	4394.6	4336.2	4269.7	4237.4	4227.3
27.5°	4352.3	4364.4	4392.6	4457.1	4503.4	4523.5	4501.4	4461.1	4412.7	4378.5	4370.4
30°	4503.4	4517.5	4559.8	4628.3	4658.5	4670.6	4660.6	4634.4	4600.1	4563.8	4555.8
32.5°	4706.9	4715.0	4763.3	4827.8	4856.0	4860.0	4848.0	4835.9	4779.4	4719.0	4715.0
35°	4934.6	4948.7	5007.1	5083.7	5109.9	5111.9	5087.7	5069.6	5003.1	4954.7	4954.7
37.5°	5236.8	5242.9	5299.3	5385.9	5414.1	5406.1	5394.0	5377.9	5307.4	5244.9	5246.9
40°	5591.5	5603.6	5651.9	5752.7	5752.7	5742.6	5750.6	5738.6	5668.0	5607.6	5609.6
42.5°	6012.6	6018.6	6077.1	6183.9	6175.8	6155.6	6163.7	6147.6	6103.3	6034.8	6010.6
45°	6461.9	6486.1	6586.8	6689.6	6673.5	6609.0	6641.2	6637.2	6596.9	6494.2	6500.2
47.5°	7003.9	7044.2	7141.0	7263.9	7245.7	7145.0	7181.3	7205.4	7149.0	7036.2	7016.0
50°	7614.5	7640.7	7783.7	7898.6	7882.5	7775.7	7858.3	7862.3	7721.3	7562.1	7562.1
52.5°	8265.3	8291.5	8484.9	8664.3	8674.3	8519.2	8585.7	8581.6	8351.9	8142.4	8102.1
55°	8994.7	9006.8	9256.6	9520.6	9577.0	9425.9	9434.0	9353.4	9055.2	8811.3	8789.2
57.5°	9748.3	9792.6	10068.7	10411.2	10578.4	10485.8	10443.4	10227.8	9939.7	9659.6	9645.5
60°	10582.5	10584.5	10943.2	11348.2	11686.7	11749.1	11575.8	11287.7	10914.9	10544.2	10528.1
62.5°	11160.8	11247.4	11700.8	12385.9	12992.3	13342.9	12885.6	12281.1	11547.6	10949.2	10888.7
65°	11279.6	11338.1	12029.2	13189.8	14429.0	15184.6	14126.8	12841.2	11589.9	10792.0	10751.7
67.5°	10318.5	10381.0	11311.9	13093.1	15436.5	16986.0	14932.7	12571.2	10872.6	9885.3	9806.7
70°	7981.2	8051.7	9202.2	11525.5	15212.8	17552.2	14358.5	10965.3	8966.5	7900.6	7757.5
72.5°	4243.5	4503.4	5486.7	7910.7	12347.6	15112.1	11773.3	8001.3	5782.9	4727.1	4537.7
75°	1549.5	1581.7	2129.8	3508.0	7183.3	10362.8	7459.3	3816.3	2194.3	1694.6	1607.9
77.5°	640.8	638.7	701.2	1059.9	2609.4	5307.4	2911.6	1120.3	699.2	646.8	638.7
80°	378.8	378.8	417.1	441.3	687.1	1601.9	767.7	499.7	419.1	382.8	388.9
82.5°	169.3	179.3	264.0	278.1	332.5	439.3	370.7	318.4	274.0	189.4	171.3
85°	92.7	80.6	139.0	145.1	159.2	163.2	175.3	173.3	159.2	92.7	94.7
87.5°	18.1	22.2	40.3	30.2	34.3	30.2	40.3	56.4	58.4	32.2	26.2
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)