

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: P455705

Luminaire Tested: **GALN-SA6D-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
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-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37610 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 368
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

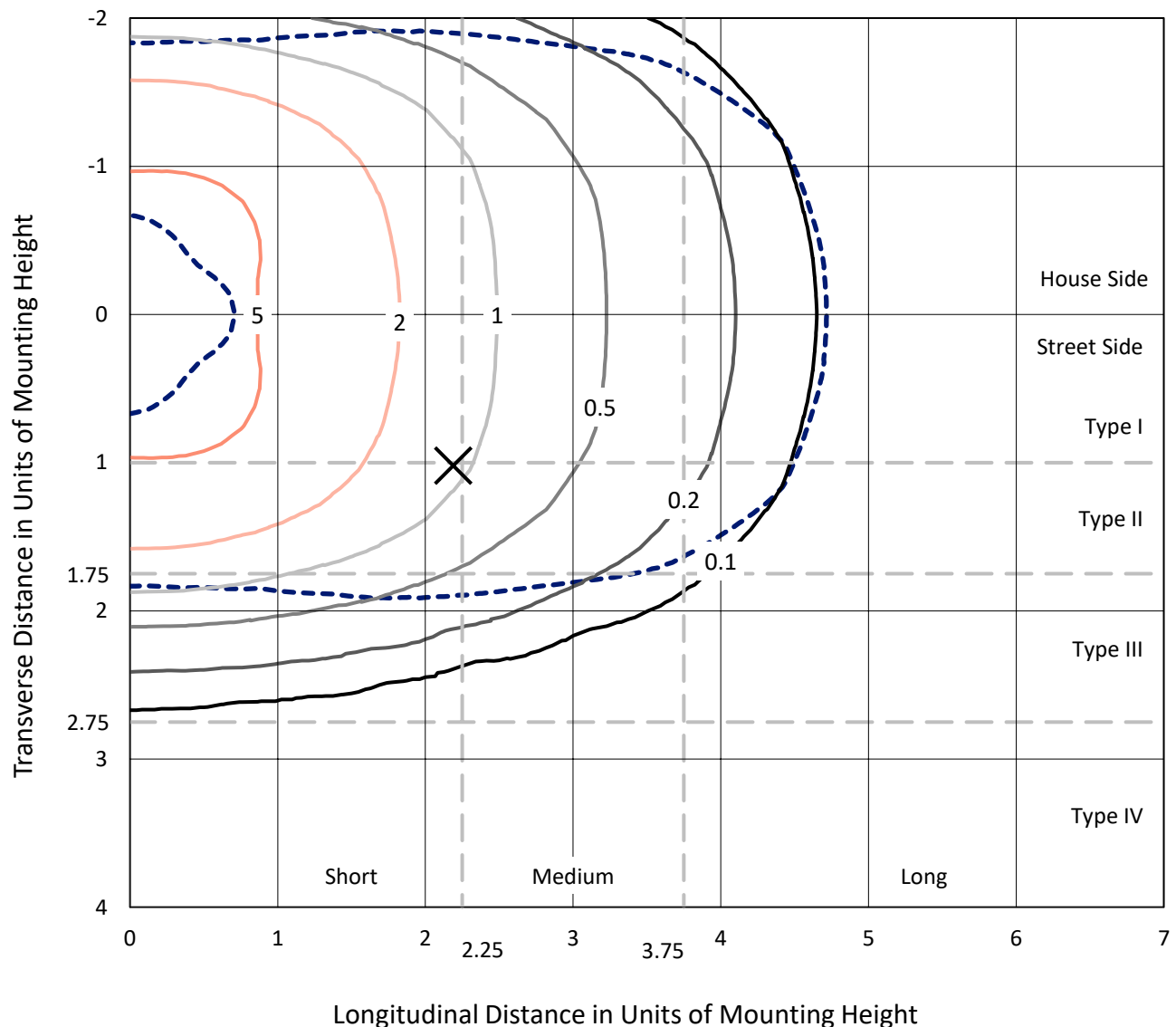


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

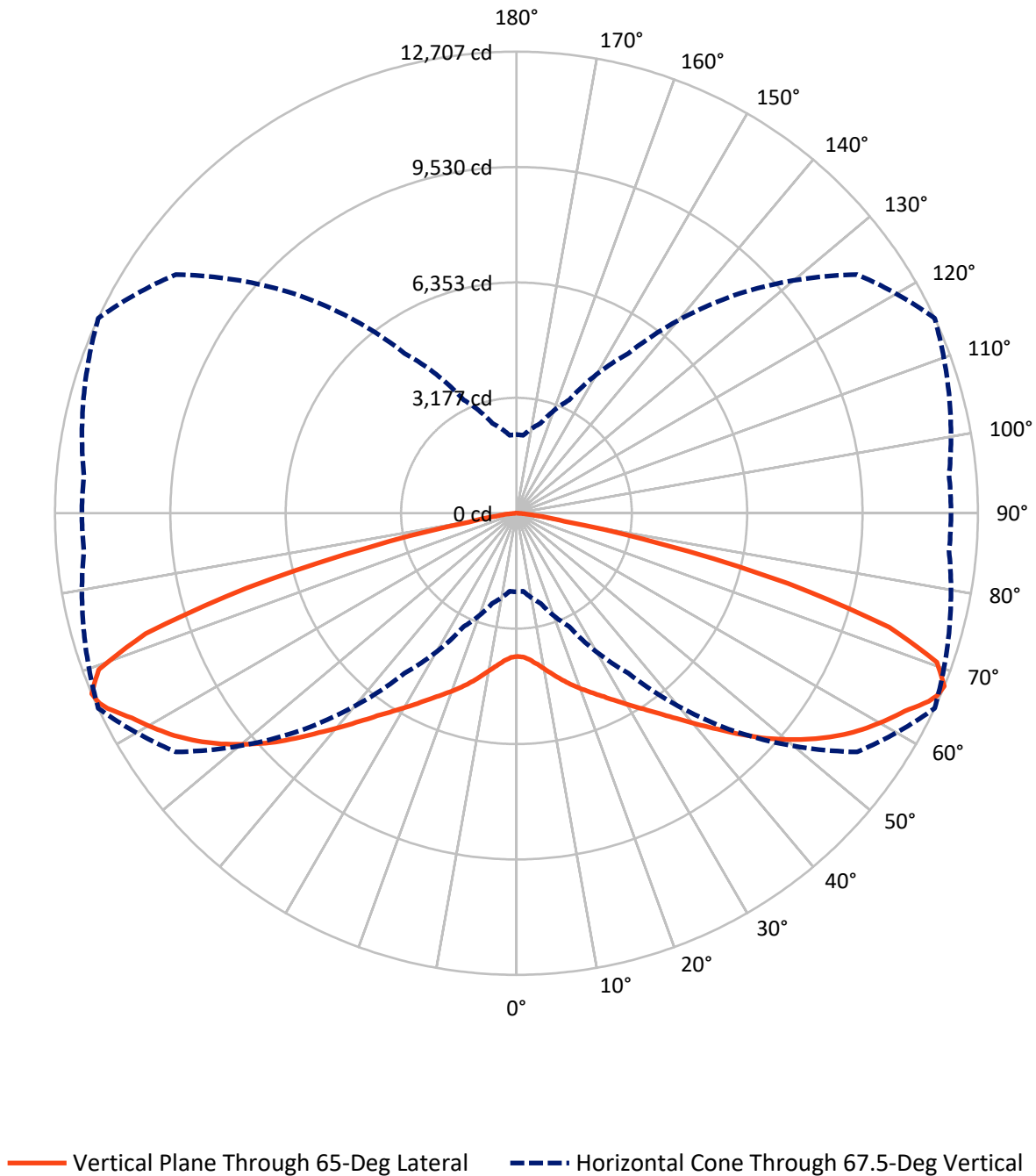


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18805.0	0.0	18805.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18805.0	0.0	18805.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37610.0	0.0	37610.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.5	1.0
10°-20°	1300.4	3.5
20°-30°	2543.6	6.8
30°-40°	4326.3	11.5
40°-50°	6847.2	18.2
50°-60°	9079.3	24.1
60°-70°	8564.6	22.8
70°-80°	4233.9	11.3
80°-90°	326.3	0.9
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°	37610.0	100.0
0°-180°	37610.0	100.0

Coefficient of Utilization



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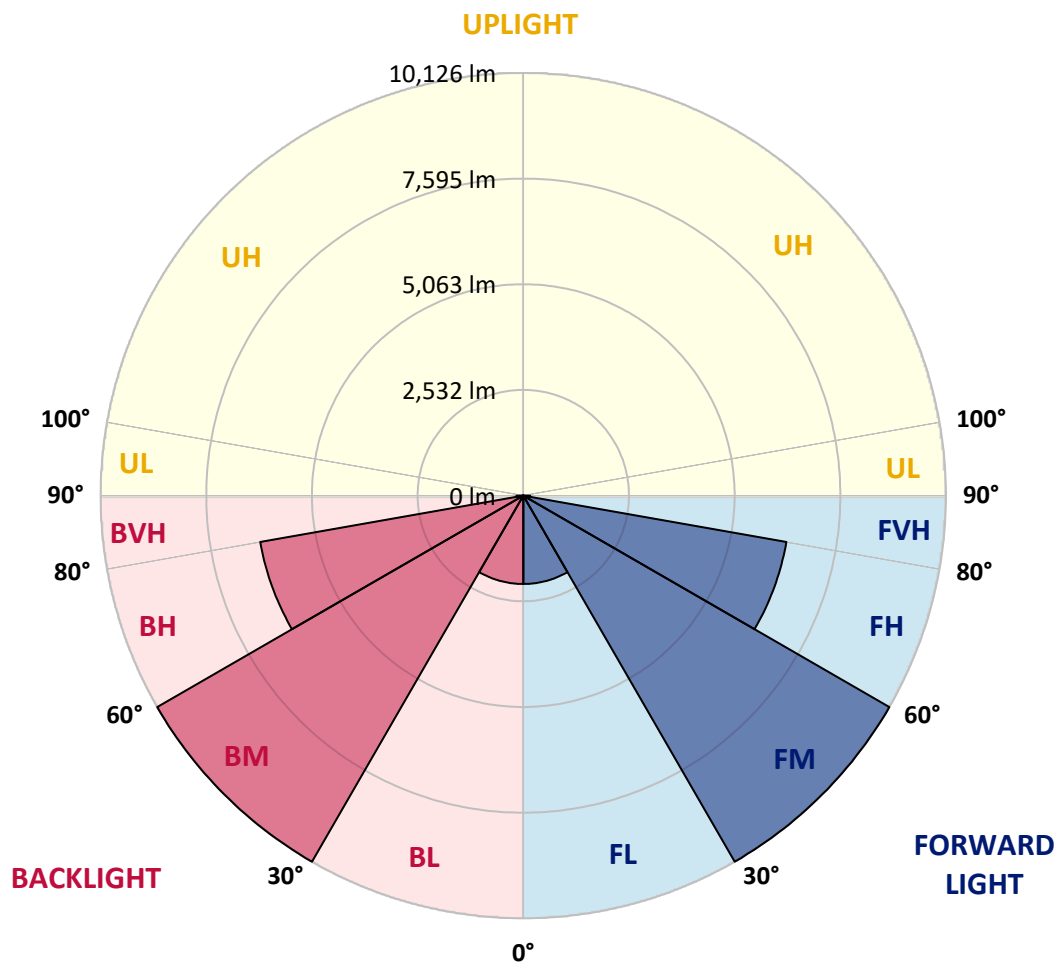
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2116.2	5.6			
FM	(30°-60°)	10126.4	26.9			
FH	(60°-80°)	6399.2	17.0			G3/7500
FVH	(80°-90°)	163.1	0.4			G2/225
BL	(0°-30°)	2116.2	5.6	B3/2500		
BM	(30°-60°)	10126.4	26.9	B5		
BH	(60°-80°)	6399.2	17.0	B5		G5
BVH	(80°-90°)	163.1	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3	3939.3
2.5°	3919.2	3923.2	3927.2	3933.3	3941.3	3953.4	3961.5	3967.5	3983.6	3985.7	3983.6
5°	3905.1	3909.1	3919.2	3937.3	3963.5	3999.8	4028.0	4062.2	4088.4	4106.6	4102.5
7.5°	3903.0	3911.1	3927.2	3965.5	4015.9	4078.4	4142.8	4201.3	4251.6	4291.9	4285.9
10°	3935.3	3945.4	3971.6	4028.0	4106.6	4197.2	4287.9	4374.6	4447.1	4499.5	4517.6
12.5°	3989.7	3997.8	4046.1	4130.7	4243.6	4356.4	4459.2	4566.0	4666.7	4755.4	4755.4
15°	4084.4	4098.5	4159.0	4281.9	4420.9	4551.9	4656.7	4769.5	4878.3	4979.1	5009.3
17.5°	4215.4	4235.5	4326.2	4483.4	4660.7	4781.6	4880.3	4973.0	5067.7	5164.4	5178.5
20°	4394.7	4414.9	4535.8	4725.2	4934.7	5079.8	5146.3	5168.5	5214.8	5307.5	5319.6
22.5°	4638.5	4658.7	4793.7	5007.3	5241.0	5398.2	5426.4	5374.0	5361.9	5434.4	5442.5
25°	4914.6	4932.7	5087.9	5317.6	5559.4	5730.6	5722.6	5593.6	5521.1	5565.4	5577.5
27.5°	5224.9	5251.1	5408.2	5646.0	5908.0	6059.1	6034.9	5847.5	5692.4	5684.3	5688.3
30°	5621.8	5650.0	5799.2	6026.9	6284.8	6423.8	6373.4	6121.6	5881.8	5801.2	5801.2
32.5°	6041.0	6111.5	6262.6	6500.4	6701.9	6802.6	6726.1	6423.8	6105.4	5992.6	5986.6
35°	6587.0	6625.3	6774.4	7006.1	7157.3	7235.8	7088.8	6764.3	6397.6	6264.6	6246.5
37.5°	7121.0	7153.2	7326.5	7548.2	7731.5	7727.5	7528.0	7169.4	6760.3	6611.2	6599.1
40°	7667.1	7701.3	7898.8	8102.3	8285.7	8269.5	8027.7	7626.8	7191.5	7024.3	7056.5
42.5°	8140.6	8178.9	8402.5	8692.7	8857.9	8853.9	8573.8	8122.4	7669.1	7520.0	7548.2
45°	8571.8	8606.0	8866.0	9198.5	9440.3	9470.5	9164.2	8686.6	8221.2	8029.8	8037.8
47.5°	8876.1	8940.5	9212.6	9593.4	9921.8	10028.6	9728.4	9260.9	8724.9	8525.4	8537.5
50°	9107.8	9148.1	9444.3	9877.5	10292.6	10514.2	10272.4	9792.9	9228.7	9017.1	9045.3
52.5°	9136.0	9184.3	9506.7	10006.5	10538.4	10874.9	10756.0	10312.7	9742.5	9524.9	9585.3
55°	8906.3	8934.5	9319.4	9925.9	10635.1	11142.9	11173.1	10796.3	10232.1	10066.9	10107.2
57.5°	8251.4	8323.9	8811.6	9549.1	10502.2	11286.0	11485.5	11235.6	10727.8	10564.6	10629.1
60°	7177.4	7250.0	7739.6	8674.6	10000.4	11219.5	11743.4	11624.5	11177.2	11046.2	11080.5
62.5°	5623.9	5617.8	6224.3	7370.9	9003.0	10893.1	11934.8	11999.3	11620.5	11455.2	11507.6
65°	3645.1	3663.3	4249.6	5484.8	7497.8	10062.9	11977.1	12476.9	12055.7	11805.9	11844.1
66°	2931.8	2986.2	3483.9	4622.4	6730.1	9518.8	11850.2	12617.9	12188.7	11886.5	11904.6
67.5°	2164.1	2154.0	2563.1	3441.6	5374.0	8485.1	11453.2	12706.6	12339.8	11959.0	11967.1
70°	1235.2	1233.2	1378.3	1890.1	3159.5	5974.5	9653.8	12281.4	12646.1	12220.9	12198.8
72.5°	902.7	896.7	916.8	1043.8	1541.5	3016.4	6659.6	10733.9	12488.9	12178.6	12116.2
75°	757.6	753.6	749.6	765.7	864.4	1366.2	3534.3	7721.5	10836.6	11431.1	11366.6
77.5°	618.6	618.6	620.6	616.6	620.6	719.4	1464.9	4138.8	6599.1	7366.8	7546.2
80°	483.6	481.6	515.8	501.7	469.5	461.4	648.8	1331.9	2190.3	2178.2	1797.4
82.5°	356.7	332.5	392.9	382.8	346.6	294.2	378.8	568.2	731.4	475.5	352.6
85°	225.7	223.7	278.1	253.9	211.6	139.0	181.3	243.8	302.2	183.4	149.1
87.5°	40.3	38.3	88.7	64.5	64.5	40.3	50.4	66.5	98.7	68.5	50.4
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)