

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: P530670

Luminaire Tested: **GALN-SA5D-830-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5D-830-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26117 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 309
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

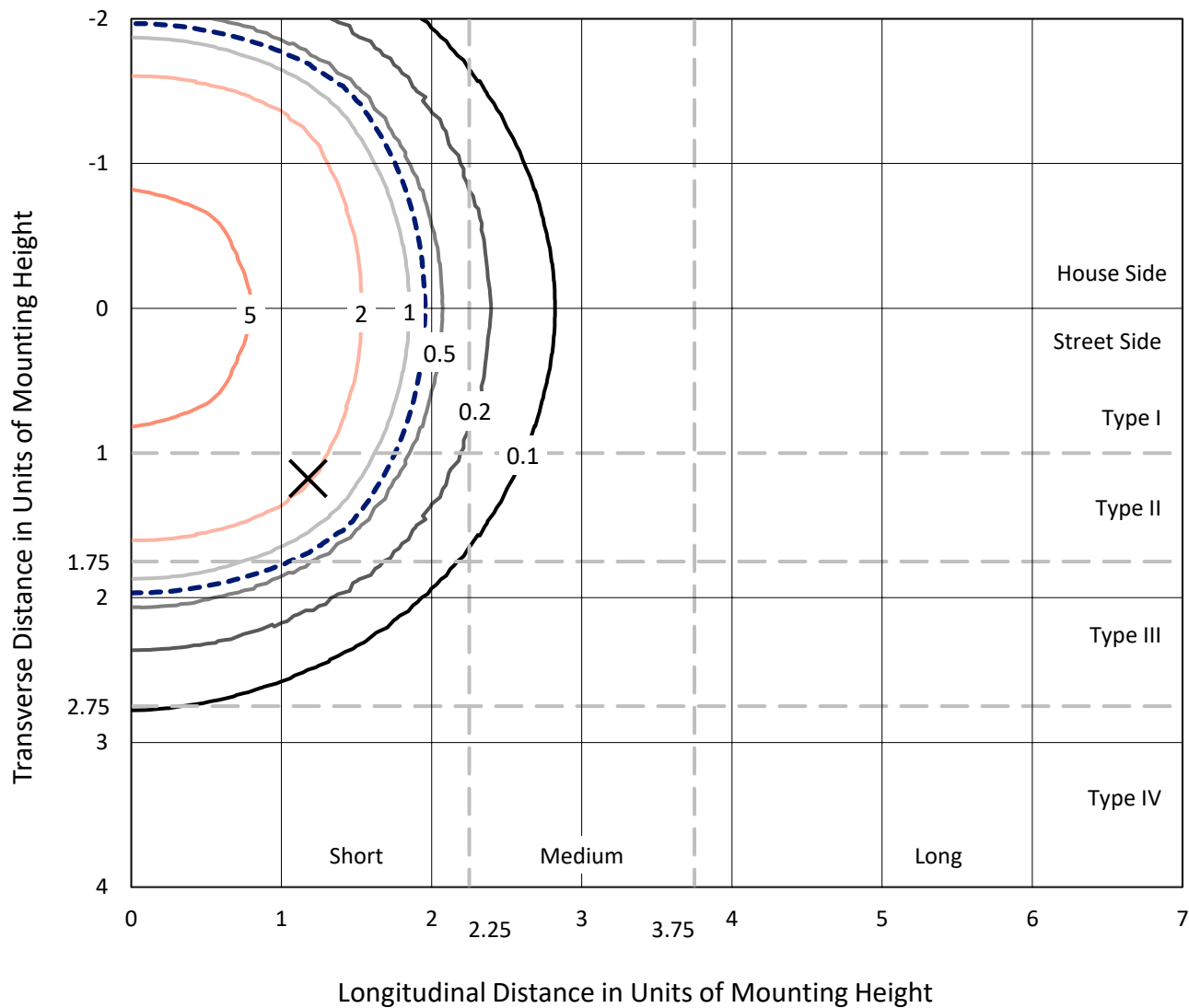


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

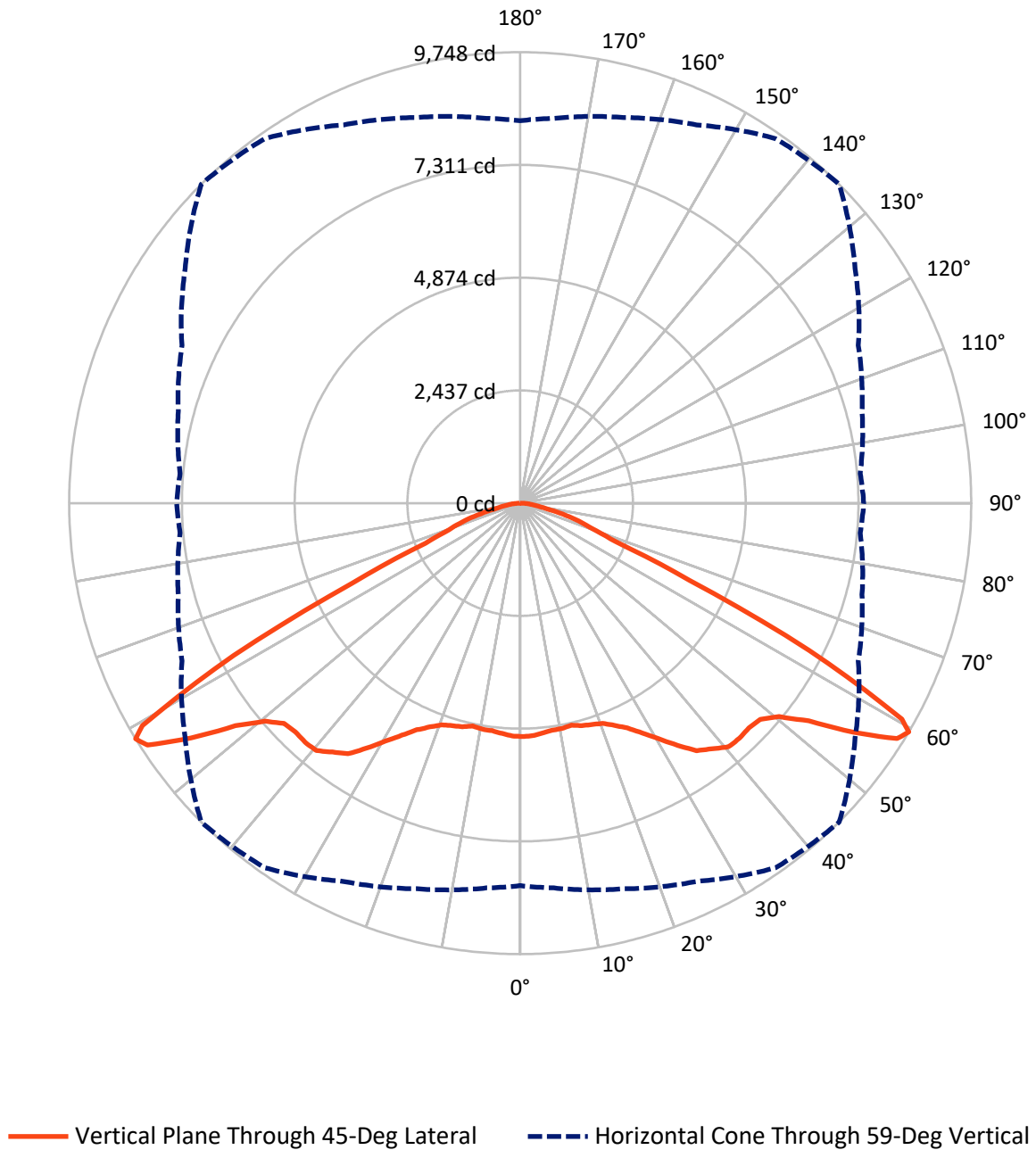


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13058.5	0.0	13058.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13058.5	0.0	13058.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26117.0	0.0	26117.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.5	1.8
10°-20°	1414.2	5.4
20°-30°	2469.3	9.5
30°-40°	3943.8	15.1
40°-50°	5372.3	20.6
50°-60°	7264.8	27.8
60°-70°	3984.0	15.3
70°-80°	1019.2	3.9
80°-90°	173.8	0.7
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°	26117.0	100.0
0°-180°	26117.0	100.0

Coefficient of Utilization



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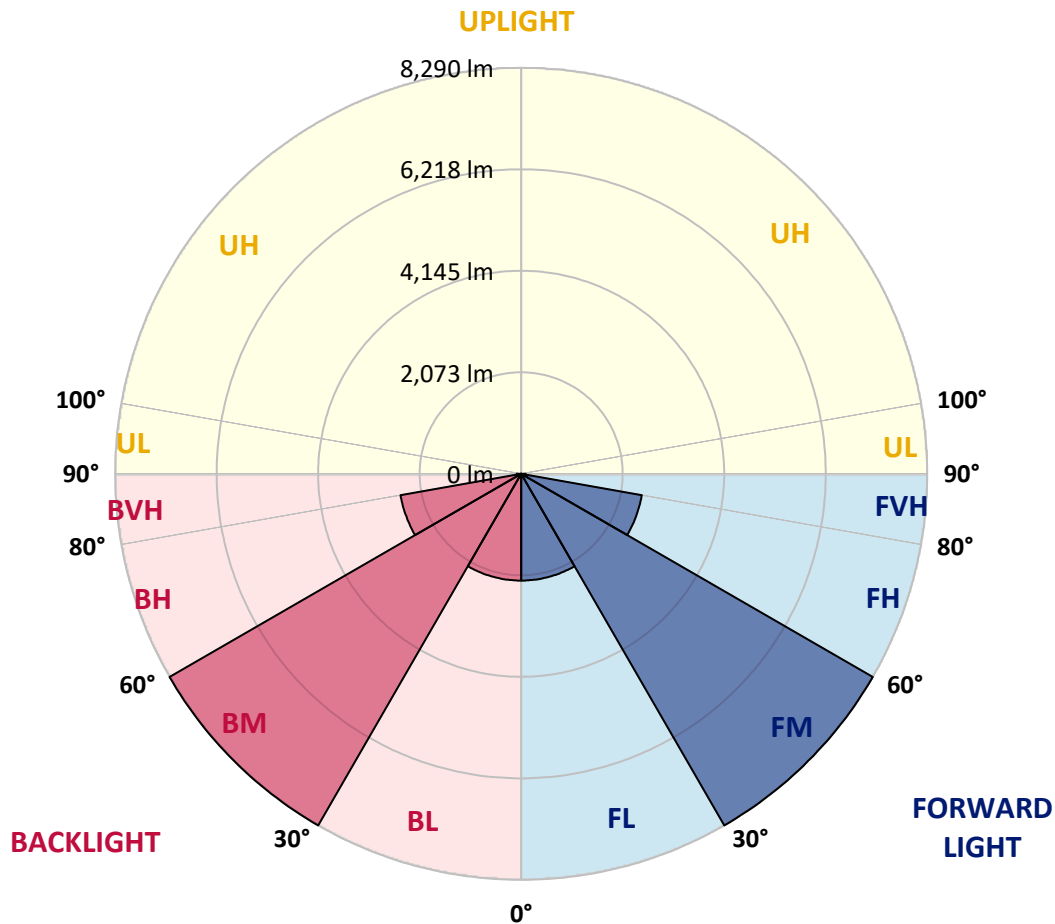
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2179.5	8.3			
FM	(30°-60°)	8290.5	31.7			
FH	(60°-80°)	2501.6	9.6			G2/5000
FVH	(80°-90°)	86.9	0.3			G1/100
BL	(0°-30°)	2179.5	8.3	B3/2500		
BM	(30°-60°)	8290.5	31.7	B4/8500		
BH	(60°-80°)	2501.6	9.6	B4/5000		G2/5000
BVH	(80°-90°)	86.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	5044.6	5044.6	5044.6	5044.6	5044.6	5044.6	5044.6	5044.6	5044.6	5044.6	5044.6
2.5°	5014.4	5051.3	5024.5	5047.9	5044.6	5034.5	5017.8	5007.7	4994.3	5014.4	4981.0
5°	4994.3	5024.5	5054.6	5014.4	5014.4	4994.3	4984.3	4964.2	4964.2	4960.9	4957.5
7.5°	5027.8	4997.7	4984.3	4991.0	4997.7	4954.2	4984.3	4944.1	4910.7	4934.1	4960.9
10°	4997.7	5011.1	4960.9	4984.3	4947.5	4954.2	4934.1	4960.9	4924.0	4924.0	4924.0
12.5°	5027.8	4991.0	5007.7	4991.0	4981.0	4924.0	4950.8	4920.7	4917.4	4950.8	4920.7
15°	5088.1	5027.8	5014.4	4981.0	4991.0	4991.0	4964.2	4967.6	4930.7	4950.8	4957.5
17.5°	5068.0	5034.5	5024.5	4984.3	5017.8	5027.8	4977.6	4944.1	4967.6	4964.2	4960.9
20°	5084.7	5098.1	5088.1	5094.8	5108.2	5081.4	5034.5	4987.6	4957.5	5001.0	4997.7
22.5°	5191.8	5178.5	5171.8	5165.1	5188.5	5215.3	5151.7	5078.0	5078.0	5108.2	5121.5
25°	5278.9	5275.5	5272.2	5302.3	5382.6	5382.6	5302.3	5208.6	5185.1	5205.2	5188.5
27.5°	5406.1	5442.9	5429.5	5483.1	5600.2	5627.0	5519.9	5409.4	5345.8	5322.4	5352.5
30°	5697.3	5653.8	5663.8	5720.7	5824.5	5911.5	5747.5	5630.4	5543.3	5540.0	5553.4
32.5°	5891.5	5924.9	5955.1	6008.6	6172.6	6239.6	6042.1	5851.3	5797.7	5767.6	5777.6
35°	6279.8	6249.6	6242.9	6296.5	6460.5	6571.0	6323.3	6155.9	6085.6	6152.6	6152.6
37.5°	6648.0	6564.3	6500.7	6571.0	6721.6	6735.0	6524.1	6433.7	6396.9	6473.9	6470.6
40°	6822.0	6815.3	6668.1	6708.2	6909.1	6929.2	6731.7	6624.5	6617.8	6718.3	6818.7
42.5°	7002.8	6939.2	6791.9	6818.7	6942.5	6949.2	6761.8	6731.7	6805.3	6902.4	6909.1
45°	7032.9	6979.4	6885.6	6818.7	6909.1	6929.2	6818.7	6838.8	6845.5	6962.6	6962.6
47.5°	7093.2	7086.5	7032.9	6982.7	6999.4	6982.7	6912.4	6942.5	7043.0	7099.9	7073.1
50°	7260.5	7190.2	7243.8	7200.3	7203.6	7250.5	7186.9	7217.0	7196.9	7146.7	7113.3
52.5°	7628.8	7595.3	7642.1	7672.3	7705.8	7812.9	7739.2	7578.5	7427.9	7294.0	7290.7
55°	8167.7	8191.1	8281.5	8435.5	8566.0	8736.8	8381.9	7997.0	7756.0	7545.1	7558.5
57.5°	8676.5	8659.8	8783.6	9135.1	9516.7	9603.7	8907.5	8358.5	7966.8	7833.0	7776.0
59°	8268.1	8348.5	8629.6	9021.3	9620.5	9747.7	8837.2	8063.9	7648.8	7377.7	7424.6
60°	7625.4	7655.5	7906.6	8452.2	9262.3	9479.9	8365.2	7608.7	7056.4	6899.0	6969.3
62.5°	5389.3	5365.9	5546.7	5991.9	6718.3	7012.8	6219.5	5687.3	5339.1	5165.1	5205.2
65°	2865.4	2972.5	3046.1	3324.0	3708.9	4020.2	3692.2	3461.2	3267.1	3123.1	3119.8
67.5°	1934.8	1921.4	1938.2	2001.8	2132.3	2219.3	2212.6	2095.5	2078.7	2052.0	2082.1
70°	1630.2	1623.5	1593.4	1593.4	1620.1	1640.2	1663.7	1677.1	1703.8	1737.3	1734.0
72.5°	1322.2	1305.5	1285.4	1275.4	1308.8	1318.9	1349.0	1362.4	1385.8	1382.5	1412.6
75°	873.7	873.7	897.1	923.9	933.9	954.0	957.4	997.5	997.5	1004.2	977.4
77.5°	488.7	475.3	492.1	518.8	542.3	579.1	615.9	646.1	662.8	656.1	656.1
80°	284.5	284.5	301.3	331.4	361.5	395.0	421.8	445.2	461.9	455.2	441.9
82.5°	177.4	177.4	194.2	224.3	247.7	267.8	304.6	334.7	354.8	348.1	331.4
85°	90.4	90.4	110.5	130.5	160.7	174.1	170.7	157.3	154.0	137.2	137.2
87.5°	23.4	23.4	33.5	36.8	30.1	33.5	33.5	33.5	33.5	33.5	36.8
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)