

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: P534175

Luminaire Tested: **GALN-SA9C-830-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-830-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30395 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 481
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



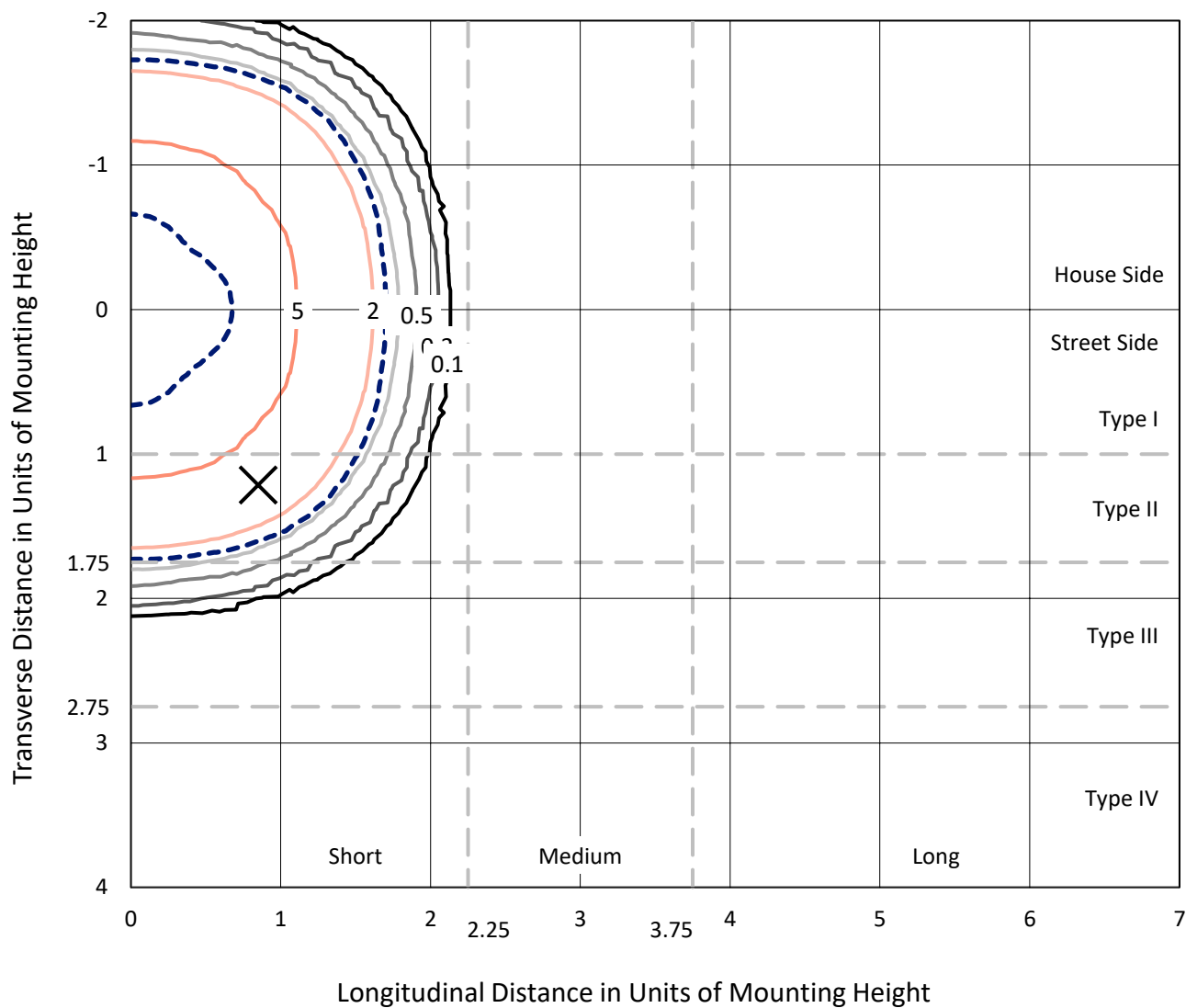
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

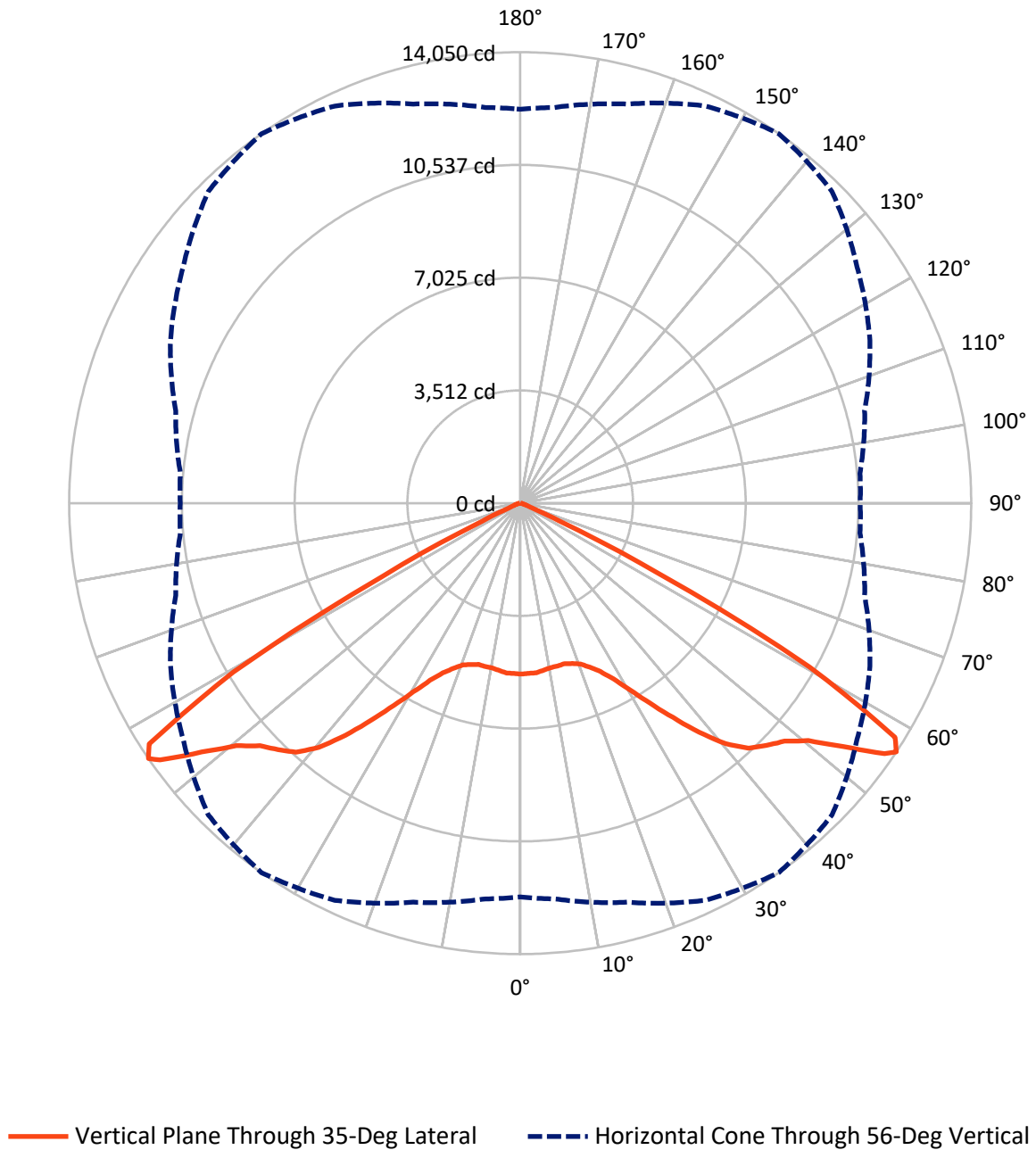
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	15197.5	0.0	15197.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15197.5	0.0	15197.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30395.0	0.0	30395.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.6	1.6
10°-20°	1461.4	4.8
20°-30°	2646.3	8.7
30°-40°	4907.2	16.1
40°-50°	8054.9	26.5
50°-60°	10377.1	34.1
60°-70°	2287.0	7.5
70°-80°	132.7	0.4
80°-90°	27.9	0.1
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°	30395.0	100.0
0°-180°	30395.0	100.0

Coefficient of Utilization



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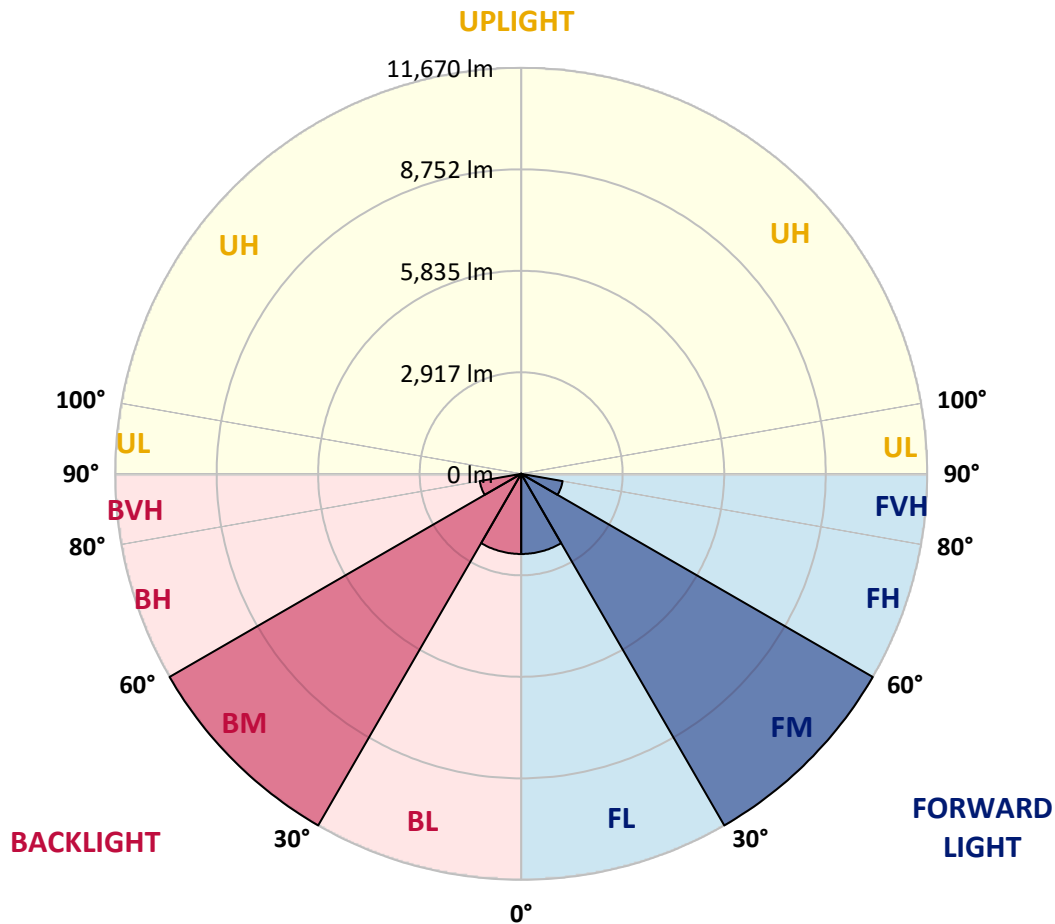
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2304.1	7.6			
FM	(30°-60°)	11669.6	38.4			
FH	(60°-80°)	1209.8	4.0			G1/1800
FVH	(80°-90°)	14.0	0.0			G1/100
BL	(0°-30°)	2304.1	7.6	B3/2500		
BM	(30°-60°)	11669.6	38.4	B5		
BH	(60°-80°)	1209.8	4.0	B3/2500		G1/1800
BVH	(80°-90°)	14.0	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5325.9	5325.9	5325.9	5325.9	5325.9	5325.9	5325.9	5325.9	5325.9	5325.9	5325.9
2.5°	5336.9	5336.9	5342.4	5347.9	5309.3	5292.8	5298.3	5287.3	5281.8	5298.3	5298.3
5°	5320.4	5320.4	5303.8	5309.3	5309.3	5259.8	5259.8	5270.8	5270.8	5237.7	5226.7
7.5°	5276.3	5265.3	5243.2	5270.8	5254.3	5254.3	5215.7	5188.2	5177.2	5199.2	5177.2
10°	5182.7	5188.2	5210.2	5221.2	5210.2	5243.2	5177.2	5138.6	5100.0	5083.5	5083.5
12.5°	5138.6	5171.6	5138.6	5166.1	5204.7	5177.2	5138.6	5111.1	5056.0	5034.0	5034.0
15°	5133.1	5155.1	5166.1	5204.7	5188.2	5199.2	5122.1	5089.0	5006.4	4967.9	4951.3
17.5°	5127.6	5155.1	5171.6	5243.2	5254.3	5259.8	5199.2	5100.0	5028.4	4989.9	4951.3
20°	5188.2	5199.2	5232.2	5303.8	5347.9	5425.0	5314.8	5210.2	5056.0	5011.9	4995.4
22.5°	5265.3	5320.4	5353.4	5430.5	5546.2	5612.3	5469.1	5336.9	5177.2	5122.1	5056.0
25°	5513.1	5502.1	5557.2	5716.9	5810.5	5860.1	5744.4	5551.7	5342.4	5276.3	5287.3
27.5°	5821.5	5832.6	5882.1	6058.4	6196.1	6273.2	6135.5	5882.1	5678.3	5568.2	5557.2
30°	6223.6	6212.6	6267.7	6504.5	6752.3	6868.0	6625.7	6328.2	6130.0	5986.8	6019.8
32.5°	6647.7	6653.2	6807.4	7022.2	7424.3	7650.1	7259.0	6895.5	6598.1	6499.0	6449.4
35°	7275.6	7303.1	7424.3	7754.7	8200.8	8492.7	8063.1	7628.0	7286.6	7104.8	7126.8
37.5°	8052.1	8024.6	8228.4	8586.4	9054.5	9269.3	8905.8	8410.1	8063.1	7942.0	8019.1
40°	8878.3	8905.8	9010.4	9335.4	9858.6	10001.8	9462.1	9192.2	8889.3	8828.7	8922.3
42.5°	9704.4	9687.9	9765.0	10056.9	10436.9	10337.8	10018.3	9858.6	9643.8	9522.7	9649.3
45°	10310.2	10282.7	10425.9	10624.2	10761.9	10574.6	10431.4	10376.3	10266.2	10134.0	10249.7
47.5°	10899.6	10877.5	11015.2	11070.3	11081.3	10833.5	10861.0	10960.1	10684.8	10409.4	10541.6
50°	11400.8	11362.2	11532.9	11654.1	11626.6	11230.0	11329.2	11230.0	10800.4	10475.5	10425.9
52.5°	12237.9	12254.4	12436.2	12656.5	12590.4	12259.9	12116.7	11665.1	11114.4	10822.5	10651.7
55°	12766.6	12684.0	12998.0	13697.4	13774.5	13433.1	12799.7	12133.3	11307.1	10949.1	10905.1
56°	12271.0	12375.6	12871.3	13653.4	14049.9	13736.0	12816.2	12017.6	11108.8	10624.2	10591.1
57.5°	11009.7	10954.6	11626.6	12695.0	13774.5	13642.3	12364.6	11191.5	10134.0	9588.7	9522.7
60°	6851.5	7011.2	7600.5	8922.3	10365.3	10431.4	9164.7	8156.8	6923.1	6438.4	6554.1
62.5°	2682.2	2544.5	2913.5	3899.4	4890.8	5111.1	4631.9	3849.8	3161.4	2682.2	2649.2
65°	622.4	605.8	682.9	941.8	1316.3	1525.6	1448.5	1040.9	765.6	727.0	671.9
67.5°	352.5	352.5	336.0	336.0	369.0	391.0	374.5	369.0	385.5	402.1	396.5
70°	247.8	242.3	231.3	236.8	225.8	225.8	242.3	269.9	291.9	291.9	297.4
72.5°	148.7	148.7	148.7	165.2	165.2	165.2	181.8	203.8	209.3	203.8	198.3
75°	66.1	66.1	77.1	93.6	104.6	110.2	126.7	137.7	148.7	137.7	126.7
77.5°	16.5	16.5	27.5	38.6	49.6	60.6	82.6	99.1	104.6	99.1	82.6
80°	5.5	5.5	11.0	27.5	49.6	60.6	82.6	88.1	93.6	82.6	66.1
82.5°	5.5	5.5	11.0	27.5	38.6	49.6	66.1	77.1	82.6	71.6	66.1
85°	0.0	5.5	11.0	22.0	33.0	44.1	44.1	33.0	27.5	16.5	22.0
87.5°	0.0	0.0	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)