

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: P530432

Luminaire Tested: **GALN-SA5C-830-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530432
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-SA5C-830-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA 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: 24694 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 269
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

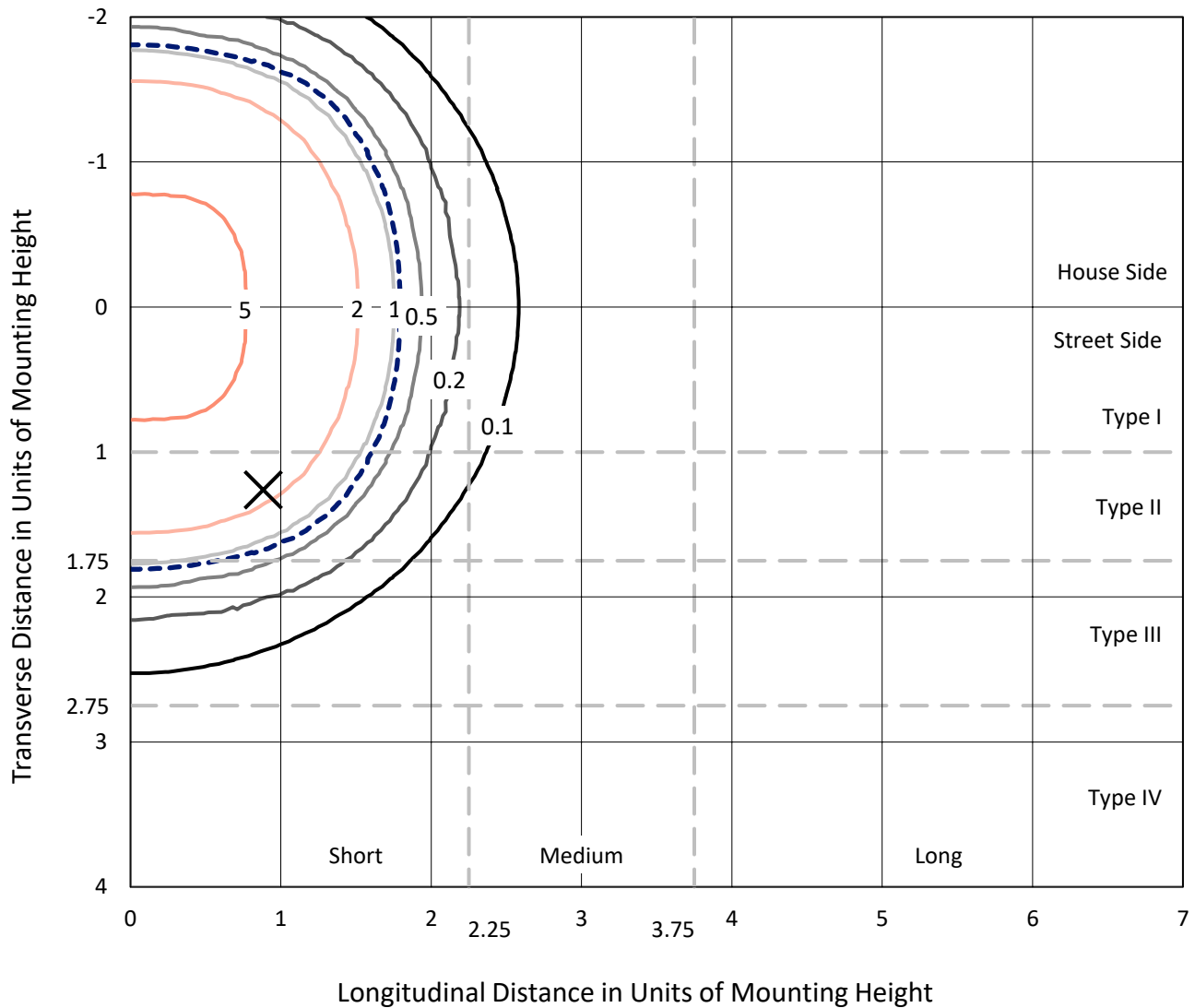


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Iso-Footcandle Lines of Horizontal Illumination

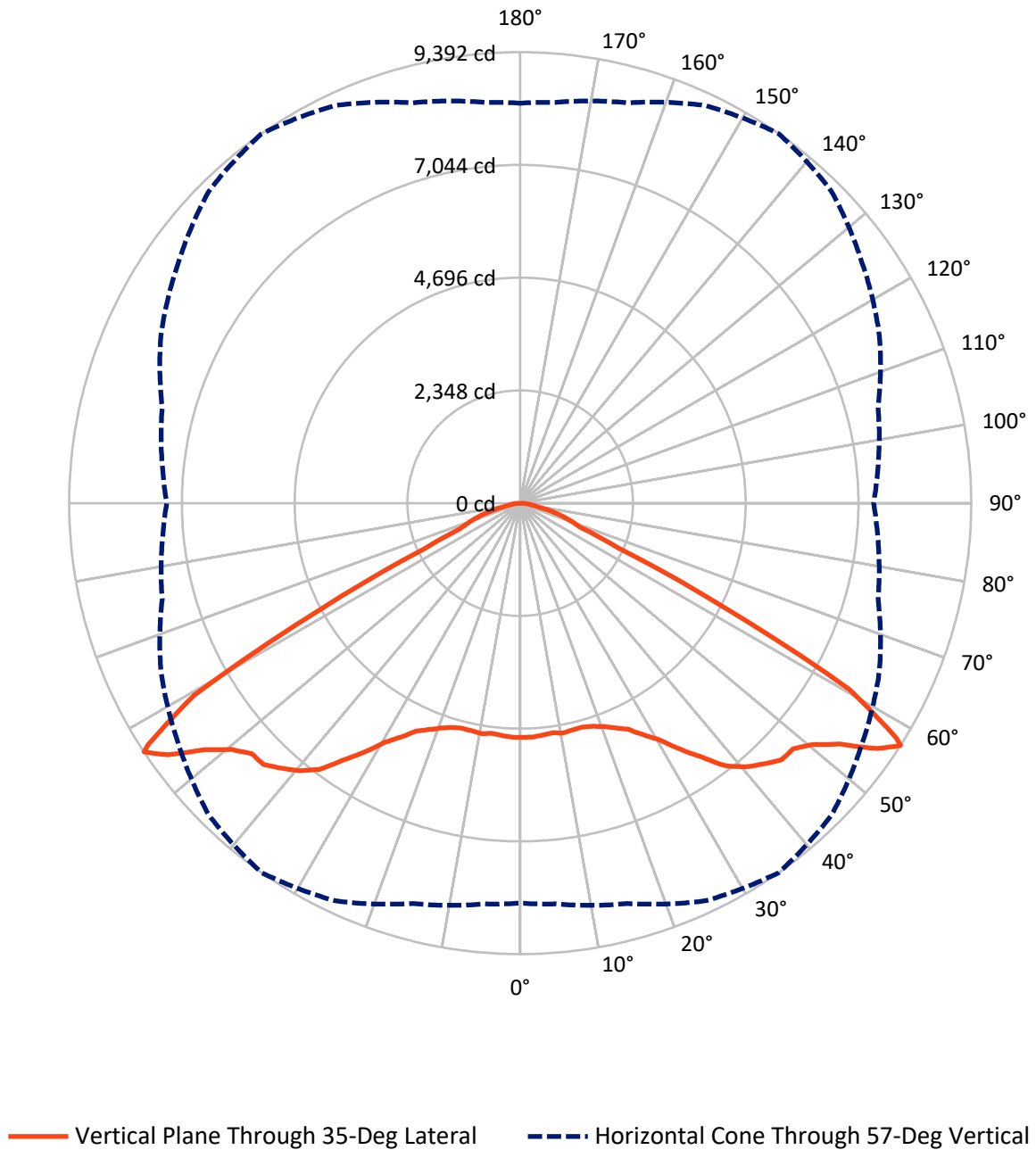
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	12347.0	0.0	12347.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12347.0	0.0	12347.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24694.0	0.0	24694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.3	1.9
10°-20°	1369.3	5.5
20°-30°	2391.5	9.7
30°-40°	3918.6	15.9
40°-50°	5745.6	23.3
50°-60°	7237.0	29.3
60°-70°	2721.8	11.0
70°-80°	723.7	2.9
80°-90°	124.1	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°	24694.0	100.0
0°-180°	24694.0	100.0

Coefficient of Utilization



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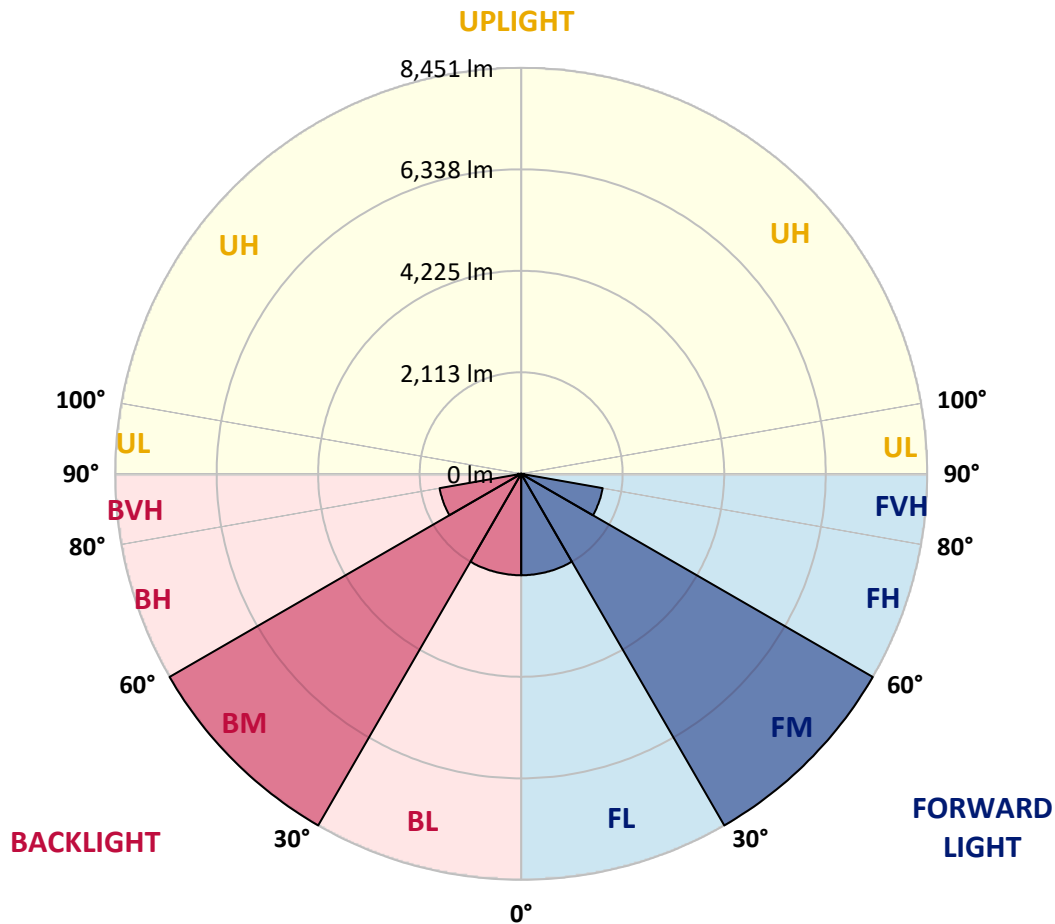
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2111.6	8.6			
FM	(30°-60°)	8450.6	34.2			
FH	(60°-80°)	1722.7	7.0			G1/1800
FVH	(80°-90°)	62.0	0.3			G1/100
BL	(0°-30°)	2111.6	8.6	B3/2500		
BM	(30°-60°)	8450.6	34.2	B4/8500		
BH	(60°-80°)	1722.7	7.0	B3/2500		G1/1800
BVH	(80°-90°)	62.0	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°	4876.9	4876.9	4876.9	4876.9	4876.9	4876.9	4876.9	4876.9	4876.9	4876.9	4876.9
2.5°	4852.5	4901.2	4879.9	4867.8	4876.9	4861.7	4837.3	4864.7	4858.6	4834.3	4825.2
5°	4840.4	4876.9	4852.5	4876.9	4852.5	4895.1	4883.0	4837.3	4892.1	4840.4	4858.6
7.5°	4831.2	4843.4	4849.5	4837.3	4828.2	4879.9	4852.5	4831.2	4800.8	4791.7	4806.9
10°	4810.0	4840.4	4794.7	4855.6	4867.8	4831.2	4831.2	4791.7	4767.4	4752.1	4803.9
12.5°	4864.7	4813.0	4806.9	4837.3	4846.5	4861.7	4819.1	4797.8	4752.1	4758.2	4749.1
15°	4800.8	4822.1	4825.2	4831.2	4840.4	4876.9	4837.3	4791.7	4773.4	4709.6	4715.6
17.5°	4825.2	4803.9	4825.2	4895.1	4883.0	4910.3	4867.8	4797.8	4755.2	4718.7	4767.4
20°	4867.8	4858.6	4867.8	4952.9	4968.2	4992.5	4956.0	4892.1	4810.0	4767.4	4791.7
22.5°	4913.4	4907.3	4913.4	4995.5	5083.8	5114.2	5077.7	4928.6	4886.0	4806.9	4779.5
25°	4995.5	5001.6	5065.5	5156.8	5214.6	5272.4	5205.5	5099.0	4962.1	4913.4	4855.6
27.5°	5178.1	5193.3	5229.8	5363.7	5464.1	5515.8	5421.5	5275.4	5190.2	5089.8	5074.6
30°	5403.2	5403.2	5467.1	5582.7	5719.6	5798.7	5683.1	5509.7	5406.3	5351.5	5318.0
32.5°	5701.4	5667.9	5692.2	5896.1	6109.0	6176.0	6020.8	5807.8	5643.6	5570.5	5546.2
35°	5956.9	5978.2	6033.0	6252.0	6489.3	6644.5	6401.1	6124.2	5956.9	5890.0	5877.8
37.5°	6288.5	6325.0	6352.4	6653.6	6939.6	6997.4	6763.1	6541.0	6337.2	6282.4	6252.0
40°	6757.1	6732.7	6741.8	6963.9	7222.5	7259.0	7027.8	6869.6	6702.3	6668.8	6668.8
42.5°	7143.4	7116.1	7146.5	7228.6	7426.4	7399.0	7271.2	7155.6	7085.6	7049.1	7085.6
45°	7377.7	7371.6	7426.4	7487.2	7627.2	7535.9	7435.5	7453.8	7386.8	7326.0	7322.9
47.5°	7633.2	7593.7	7660.6	7751.9	7645.4	7602.8	7596.7	7636.3	7615.0	7508.5	7475.0
50°	7758.0	7742.8	7849.3	7955.7	7897.9	7800.6	7821.9	7885.8	7612.0	7469.0	7386.8
52.5°	8092.6	8095.7	8299.5	8357.3	8333.0	8190.0	8235.6	8062.2	7739.7	7538.9	7548.1
55°	8619.0	8597.7	8825.9	8996.2	9023.6	8841.1	8622.0	8378.6	7974.0	7770.2	7709.3
57°	8329.9	8378.6	8631.1	9136.2	9391.7	9175.7	8698.1	8253.9	7715.4	7469.0	7359.4
57.5°	7943.6	8022.7	8460.8	8968.8	9236.6	9218.3	8603.8	8022.7	7542.0	7158.6	7167.8
60°	5820.0	5835.2	6230.7	7036.9	7873.6	7891.8	7143.4	6373.7	5838.3	5421.5	5479.3
62.5°	3069.7	3139.7	3297.9	3945.9	4670.0	4846.5	4393.1	3997.6	3535.2	3218.8	3249.2
65°	1624.6	1615.5	1691.5	1874.1	2230.0	2321.3	2260.5	1947.1	1785.9	1734.1	1737.2
67.5°	1320.4	1335.6	1326.5	1335.6	1359.9	1399.5	1390.4	1402.5	1411.6	1426.9	1423.8
70°	1119.6	1119.6	1125.7	1128.7	1128.7	1147.0	1168.3	1207.8	1210.9	1226.1	1232.2
72.5°	882.3	876.2	885.3	906.6	909.7	924.9	955.3	979.6	988.8	988.8	970.5
75°	599.3	605.4	617.6	635.9	654.1	681.5	705.8	721.0	727.1	718.0	708.9
77.5°	337.7	343.8	352.9	380.3	401.6	425.9	453.3	468.5	483.7	486.8	468.5
80°	200.8	200.8	216.0	237.3	261.6	286.0	310.3	328.6	334.7	334.7	325.5
82.5°	121.7	124.7	136.9	158.2	179.5	194.7	216.0	231.2	243.4	240.3	234.3
85°	63.9	63.9	76.1	94.3	109.5	124.7	124.7	115.6	109.5	94.3	88.2
87.5°	21.3	18.3	24.3	24.3	21.3	24.3	24.3	27.4	27.4	27.4	27.4
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)