

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: P533216

Luminaire Tested: **GALN-SA8C-827-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-827-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37590 lumens
Efficiency: N/A
Efficacy: 87.6 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

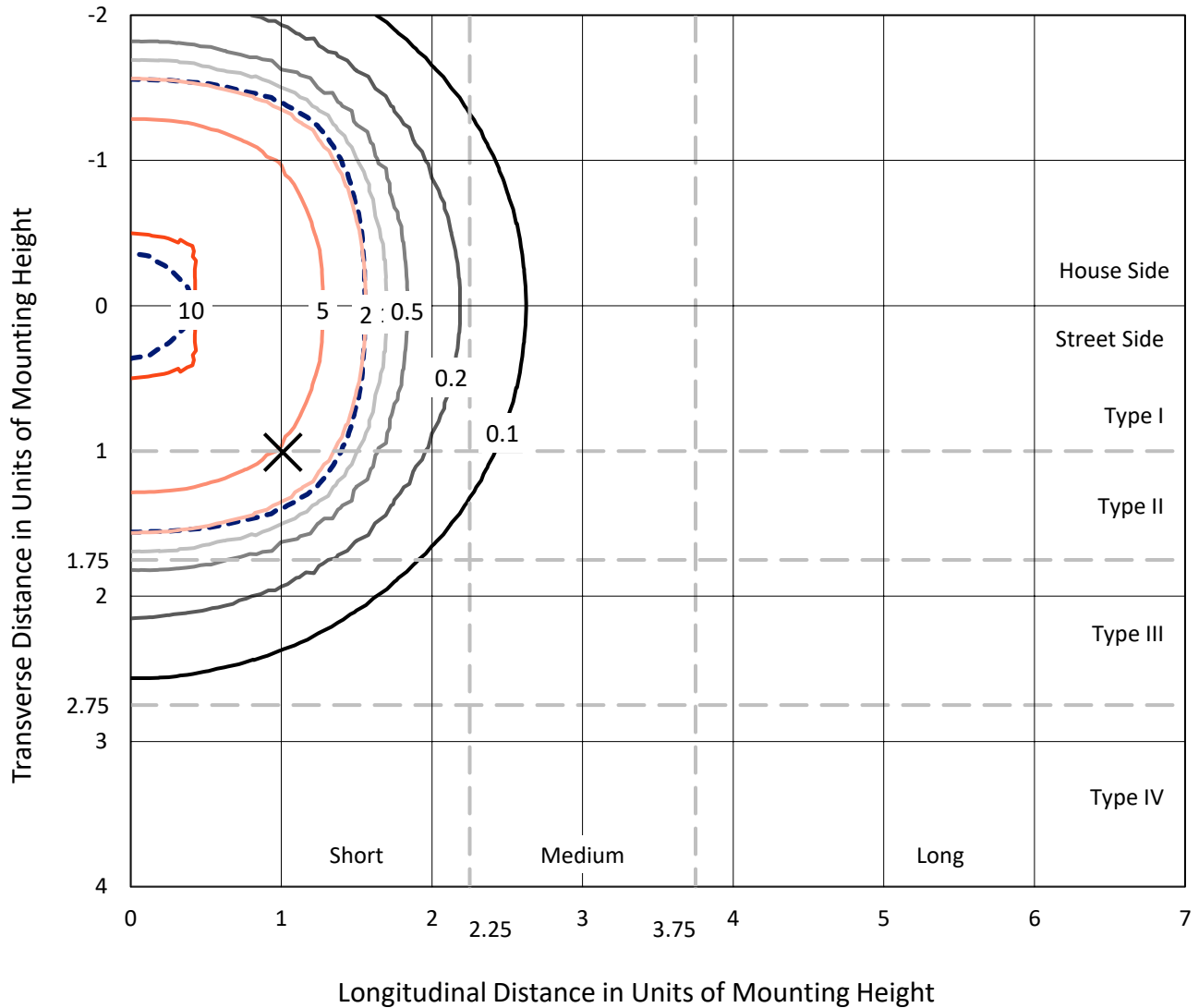
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

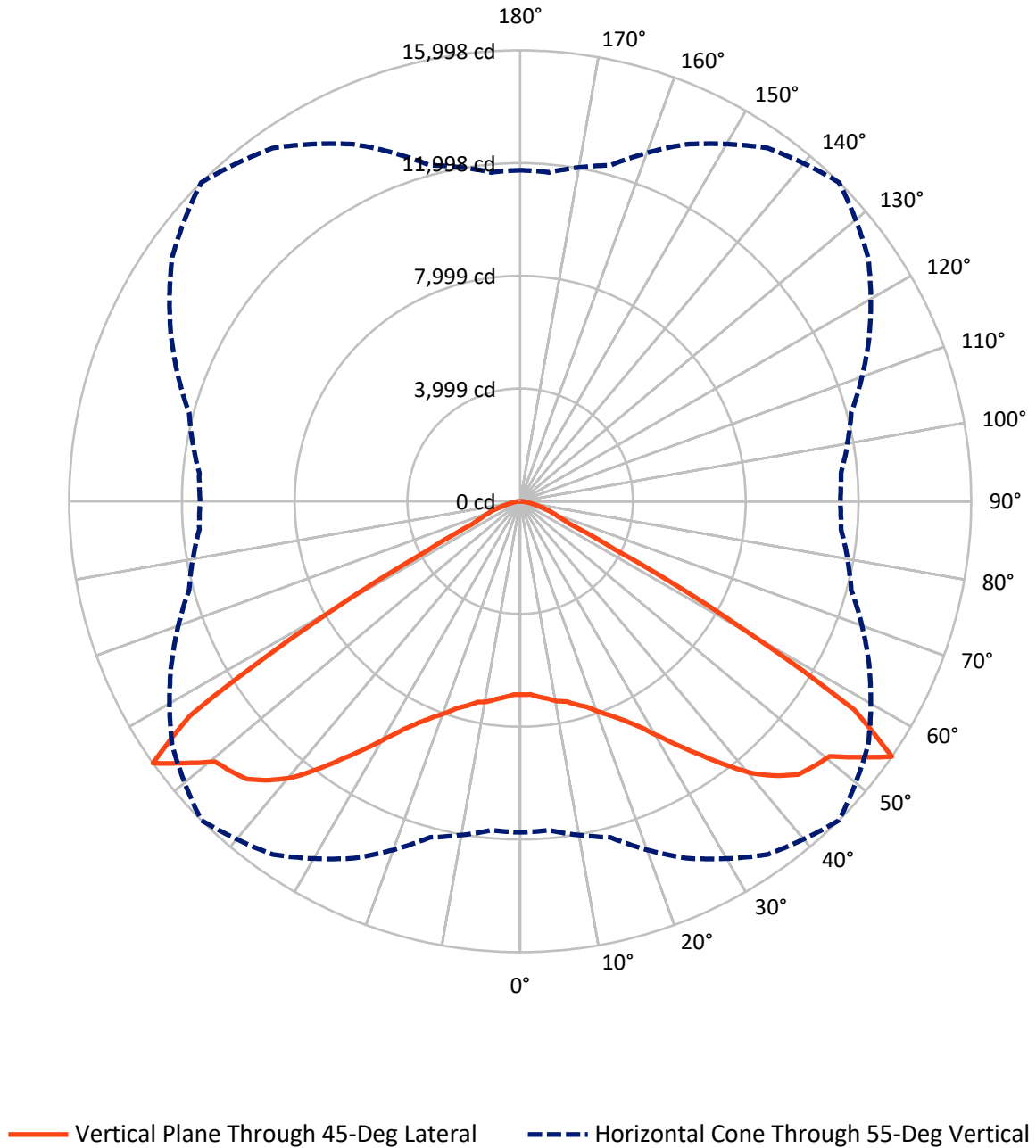
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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	18795.0	0.0	18795.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18795.0	0.0	18795.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37590.0	0.0	37590.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.5	1.8
10°-20°	2124.4	5.7
20°-30°	3961.4	10.5
30°-40°	6632.7	17.6
40°-50°	10321.0	27.5
50°-60°	10716.4	28.5
60°-70°	2272.6	6.0
70°-80°	748.4	2.0
80°-90°	142.5	0.4
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°	37590.0	100.0
0°-180°	37590.0	100.0

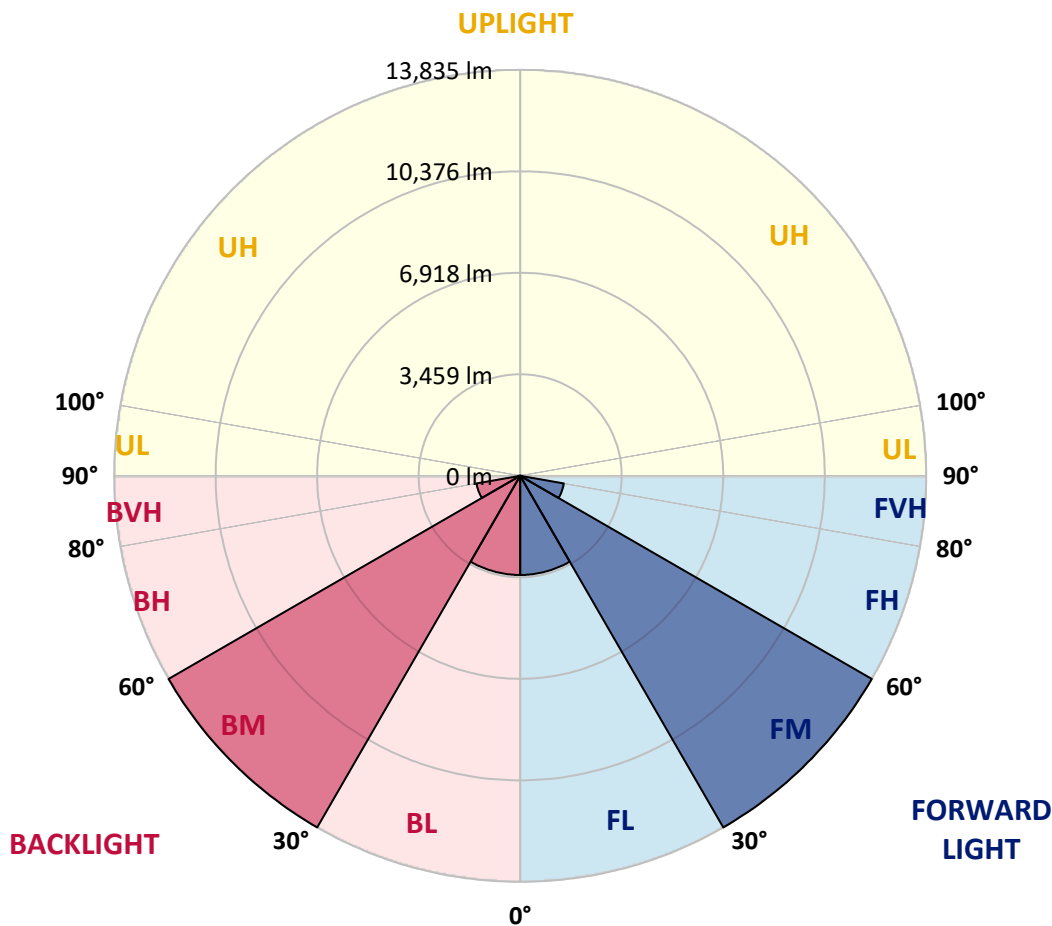


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3378.2	9.0			
FM (30°-60°)	13835.0	36.8			
FH (60°-80°)	1510.5	4.0			G1/1800
FVH (80°-90°)	71.3	0.2			G1/100
BL (0°-30°)	3378.2	9.0	B4/5000		
BM (30°-60°)	13835.0	36.8	B5		
BH (60°-80°)	1510.5	4.0	B3/2500		G1/1800
BVH (80°-90°)	71.3	0.2			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°	6863.4	6863.4	6863.4	6863.4	6863.4	6863.4	6863.4	6863.4	6863.4	6863.4	6863.4
2.5°	6945.1	6913.3	6858.8	6899.7	6931.5	6863.4	6890.6	6904.3	6895.2	6858.8	6872.5
5°	7045.1	7026.9	6981.5	7013.3	6972.4	6972.4	6945.1	6908.8	6963.3	6954.2	6976.9
7.5°	7045.1	7022.4	7113.2	7054.1	7072.3	7072.3	7026.9	6990.6	7017.8	6976.9	6954.2
10°	7185.9	7217.7	7176.8	7190.4	7181.3	7213.1	7145.0	7122.3	7099.6	7085.9	7058.7
12.5°	7353.9	7331.2	7344.9	7335.8	7367.6	7285.8	7244.9	7195.0	7235.8	7176.8	7217.7
15°	7490.2	7476.6	7490.2	7526.5	7494.7	7490.2	7417.5	7367.6	7304.0	7317.6	7254.0
17.5°	7676.4	7662.8	7667.4	7699.2	7694.6	7671.9	7617.4	7522.0	7499.3	7463.0	7422.1
20°	7953.5	7930.8	7921.7	7935.3	7958.1	7976.2	7867.2	7830.9	7753.7	7694.6	7626.5
22.5°	8189.7	8180.6	8217.0	8157.9	8207.9	8262.4	8157.9	8139.8	7949.0	7917.2	7844.5
25°	8516.8	8503.1	8480.4	8566.7	8625.8	8621.2	8521.3	8421.4	8276.0	8239.7	8239.7
27.5°	8862.0	8784.8	8902.9	8925.6	9030.0	9061.8	8975.5	8830.2	8693.9	8616.7	8634.9
30°	9293.5	9220.8	9248.1	9411.6	9547.9	9666.0	9447.9	9234.4	9043.7	8907.4	8884.7
32.5°	9725.0	9652.3	9734.1	9893.1	10165.6	10342.8	10129.3	9756.8	9534.2	9334.4	9375.2
35°	10074.8	10129.3	10261.0	10501.7	10783.4	11069.5	10728.8	10442.7	10124.7	9902.2	9933.9
37.5°	10638.0	10806.1	10910.5	11187.6	11587.3	11882.6	11528.3	11155.8	10815.2	10524.4	10424.5
40°	11373.8	11487.4	11605.5	11932.5	12404.9	12700.2	12364.1	11878.0	11541.9	11242.1	11228.5
42.5°	12182.4	12291.4	12414.0	12813.7	13095.4	13317.9	13009.1	12750.2	12377.7	12141.5	12127.9
45°	13122.6	13045.4	13181.7	13445.1	13681.3	13826.7	13626.8	13499.6	13231.6	13013.6	12990.9
47.5°	13749.5	13681.3	13926.6	14162.8	14199.1	14040.2	14081.0	14199.1	13917.5	13558.7	13672.2
50°	14112.8	14112.8	14276.4	14494.4	14426.3	14221.9	14544.4	14553.4	14271.8	13953.9	13953.9
52.5°	13481.5	13622.3	14085.6	14798.7	15025.8	15084.9	15012.2	14703.3	13967.5	13317.9	13286.1
55°	11746.3	11714.5	12341.4	13976.6	15298.4	15997.9	15071.3	13649.5	12155.1	11423.8	11351.1
57.5°	7640.1	7676.4	8612.1	10279.2	12663.9	13967.5	12404.9	10406.3	8612.1	7603.8	7699.2
60°	3438.5	3561.1	4128.9	5373.5	7422.1	8485.0	7440.2	5646.0	4333.3	3761.0	3811.0
62.5°	1975.9	1998.6	2021.3	2398.3	3161.4	3738.3	3284.1	2534.6	2234.8	2134.9	2134.9
65°	1667.0	1653.4	1657.9	1689.7	1771.5	1889.6	1839.6	1771.5	1780.6	1771.5	1757.9
67.5°	1417.2	1435.4	1421.7	1444.4	1449.0	1467.2	1498.9	1526.2	1530.7	1539.8	1530.7
70°	1162.8	1167.4	1176.4	1194.6	1199.2	1212.8	1258.2	1280.9	1294.5	1294.5	1312.7
72.5°	890.3	885.7	894.8	913.0	935.7	940.3	981.1	1012.9	1031.1	1008.4	1012.9
75°	586.0	590.5	604.1	617.7	649.5	681.3	695.0	726.8	731.3	740.4	717.7
77.5°	349.8	358.8	372.5	399.7	427.0	454.2	486.0	508.7	517.8	508.7	481.5
80°	227.1	227.1	245.3	268.0	299.8	322.5	340.7	358.8	372.5	358.8	349.8
82.5°	140.8	140.8	163.5	190.8	213.5	227.1	254.4	277.1	290.7	281.6	268.0
85°	72.7	77.2	95.4	118.1	136.3	145.4	140.8	127.2	113.6	109.0	99.9
87.5°	22.7	22.7	27.3	27.3	22.7	22.7	27.3	22.7	27.3	27.3	27.3
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)