

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: P534383

Luminaire Tested: **GALN-SA9D-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534383
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-SA9D-827-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA 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: 30940 lumens
Efficiency: N/A
Efficacy: 56.1 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

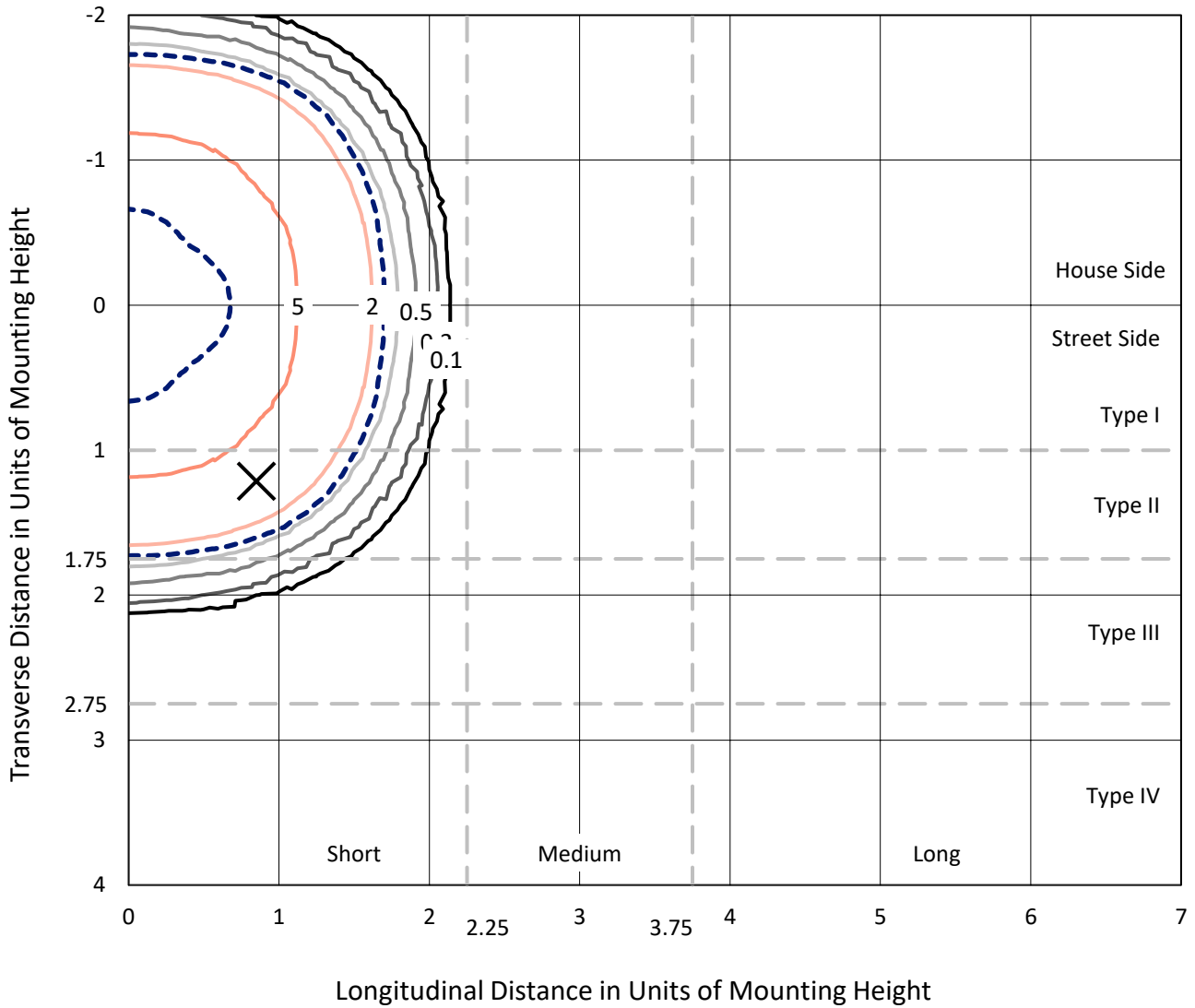
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

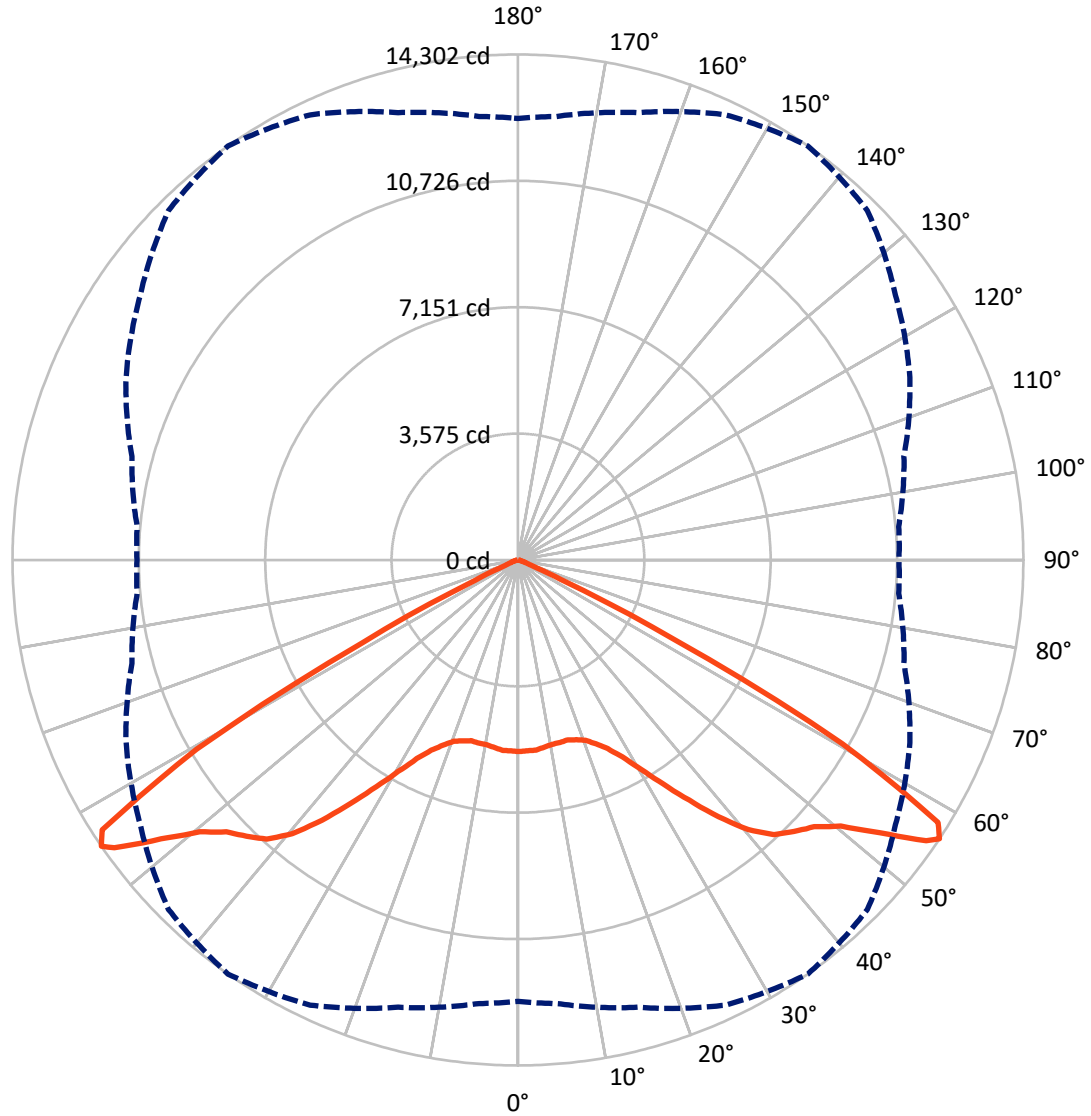
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15470.0	0.0	15470.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15470.0	0.0	15470.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30940.0	0.0	30940.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.5	1.6
10°-20°	1487.6	4.8
20°-30°	2693.8	8.7
30°-40°	4995.2	16.1
40°-50°	8199.3	26.5
50°-60°	10563.1	34.1
60°-70°	2328.0	7.5
70°-80°	135.1	0.4
80°-90°	28.4	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°	30940.0	100.0
0°-180°	30940.0	100.0

Coefficient of Utilization

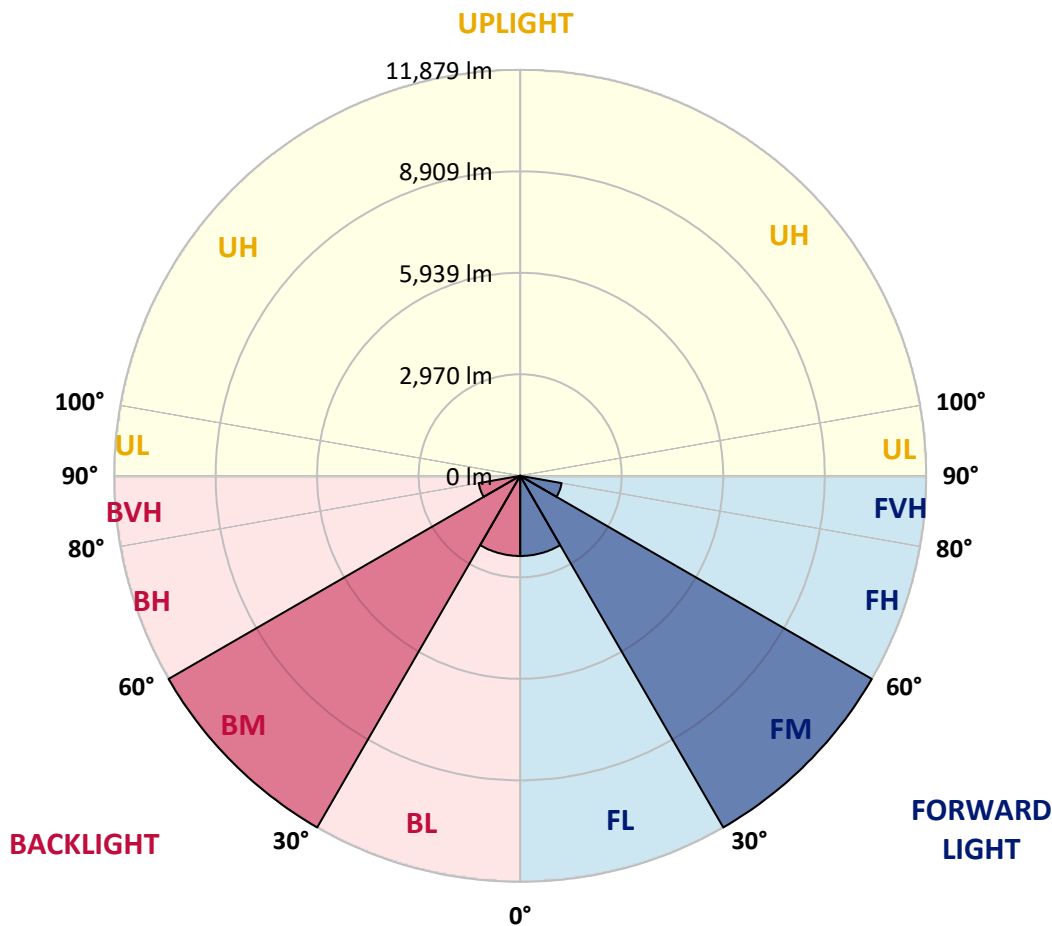


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2345.4	7.6			
FM (30°-60°)	11878.8	38.4			
FH (60°-80°)	1231.5	4.0			G1/1800
FVH (80°-90°)	14.2	0.0			G1/100
BL (0°-30°)	2345.4	7.6	B3/2500		
BM (30°-60°)	11878.8	38.4	B5		
BH (60°-80°)	1231.5	4.0	B3/2500		G1/1800
BVH (80°-90°)	14.2	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°	5421.4	5421.4	5421.4	5421.4	5421.4	5421.4	5421.4	5421.4	5421.4	5421.4	5421.4
2.5°	5432.6	5432.6	5438.2	5443.8	5404.5	5387.7	5393.3	5382.1	5376.5	5393.3	5393.3
5°	5415.7	5415.7	5398.9	5404.5	5404.5	5354.1	5354.1	5365.3	5365.3	5331.7	5320.4
7.5°	5370.9	5359.7	5337.3	5365.3	5348.5	5348.5	5309.2	5281.2	5270.0	5292.4	5270.0
10°	5275.6	5281.2	5303.6	5314.8	5303.6	5337.3	5270.0	5230.7	5191.5	5174.7	5174.7
12.5°	5230.7	5264.4	5230.7	5258.8	5298.0	5270.0	5230.7	5202.7	5146.6	5124.2	5124.2
15°	5225.1	5247.6	5258.8	5298.0	5281.2	5292.4	5213.9	5180.3	5096.2	5056.9	5040.1
17.5°	5219.5	5247.6	5264.4	5337.3	5348.5	5354.1	5292.4	5191.5	5118.6	5079.4	5040.1
20°	5281.2	5292.4	5326.0	5398.9	5443.8	5522.3	5410.1	5303.6	5146.6	5101.8	5085.0
22.5°	5359.7	5415.7	5449.4	5527.9	5645.6	5712.9	5567.1	5432.6	5270.0	5213.9	5146.6
25°	5612.0	5600.8	5656.8	5819.4	5914.7	5965.2	5847.4	5651.2	5438.2	5370.9	5382.1
27.5°	5925.9	5937.1	5987.6	6167.0	6307.2	6385.6	6245.5	5987.6	5780.2	5668.0	5656.8
30°	6335.2	6324.0	6380.0	6621.1	6873.4	6991.1	6744.5	6441.7	6239.9	6094.1	6127.8
32.5°	6766.9	6772.5	6929.5	7148.1	7557.4	7787.2	7389.2	7019.2	6716.4	6615.5	6565.1
35°	7406.0	7434.0	7557.4	7893.8	8347.9	8645.0	8207.7	7764.8	7417.2	7232.2	7254.6
37.5°	8196.5	8168.5	8375.9	8740.3	9216.9	9435.5	9065.5	8560.9	8207.7	8084.4	8162.9
40°	9037.5	9065.5	9172.0	9502.8	10035.4	10181.2	9631.7	9357.0	9048.7	8987.0	9082.3
42.5°	9878.4	9861.6	9940.1	10237.2	10624.1	10523.1	10198.0	10035.4	9816.7	9693.4	9822.3
45°	10495.1	10467.1	10612.8	10814.7	10954.8	10764.2	10618.5	10562.4	10450.3	10315.7	10433.4
47.5°	11095.0	11072.6	11212.7	11268.8	11280.0	11027.7	11055.7	11156.7	10876.3	10596.0	10730.6
50°	11605.2	11565.9	11739.7	11863.1	11835.0	11431.4	11532.3	11431.4	10994.1	10663.3	10612.8
52.5°	12457.3	12474.2	12659.2	12883.4	12816.1	12479.8	12334.0	11874.3	11313.6	11016.5	10842.7
55°	12995.6	12911.5	13231.0	13943.0	14021.5	13673.9	13029.2	12350.8	11509.9	11145.5	11100.6
56°	12491.0	12597.5	13102.1	13898.2	14301.8	13982.3	13046.0	12233.1	11308.0	10814.7	10781.0
57.5°	11207.1	11151.1	11835.0	12922.7	14021.5	13887.0	12586.3	11392.1	10315.7	9760.7	9693.4
60°	6974.3	7136.9	7736.8	9082.3	10551.2	10618.5	9329.0	8303.0	7047.2	6553.8	6671.6
62.5°	2730.3	2590.1	2965.8	3969.3	4978.5	5202.7	4715.0	3918.8	3218.1	2730.3	2696.7
65°	633.5	616.7	695.2	958.7	1339.9	1553.0	1474.5	1059.6	779.3	740.0	684.0
67.5°	358.8	358.8	342.0	342.0	375.6	398.1	381.2	375.6	392.4	409.3	403.7
70°	252.3	246.7	235.5	241.1	229.9	229.9	246.7	274.7	297.1	297.1	302.7
72.5°	151.4	151.4	151.4	168.2	168.2	168.2	185.0	207.4	213.0	207.4	201.8
75°	67.3	67.3	78.5	95.3	106.5	112.1	128.9	140.2	151.4	140.2	128.9
77.5°	16.8	16.8	28.0	39.2	50.5	61.7	84.1	100.9	106.5	100.9	84.1
80°	5.6	5.6	11.2	28.0	50.5	61.7	84.1	89.7	95.3	84.1	67.3
82.5°	5.6	5.6	11.2	28.0	39.2	50.5	67.3	78.5	84.1	72.9	67.3
85°	0.0	5.6	11.2	22.4	33.6	44.9	44.9	33.6	28.0	16.8	22.4
87.5°	0.0	0.0	5.6	5.6	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)