

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: P457532

Luminaire Tested: **GALN-SA8D-827-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47379 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): 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

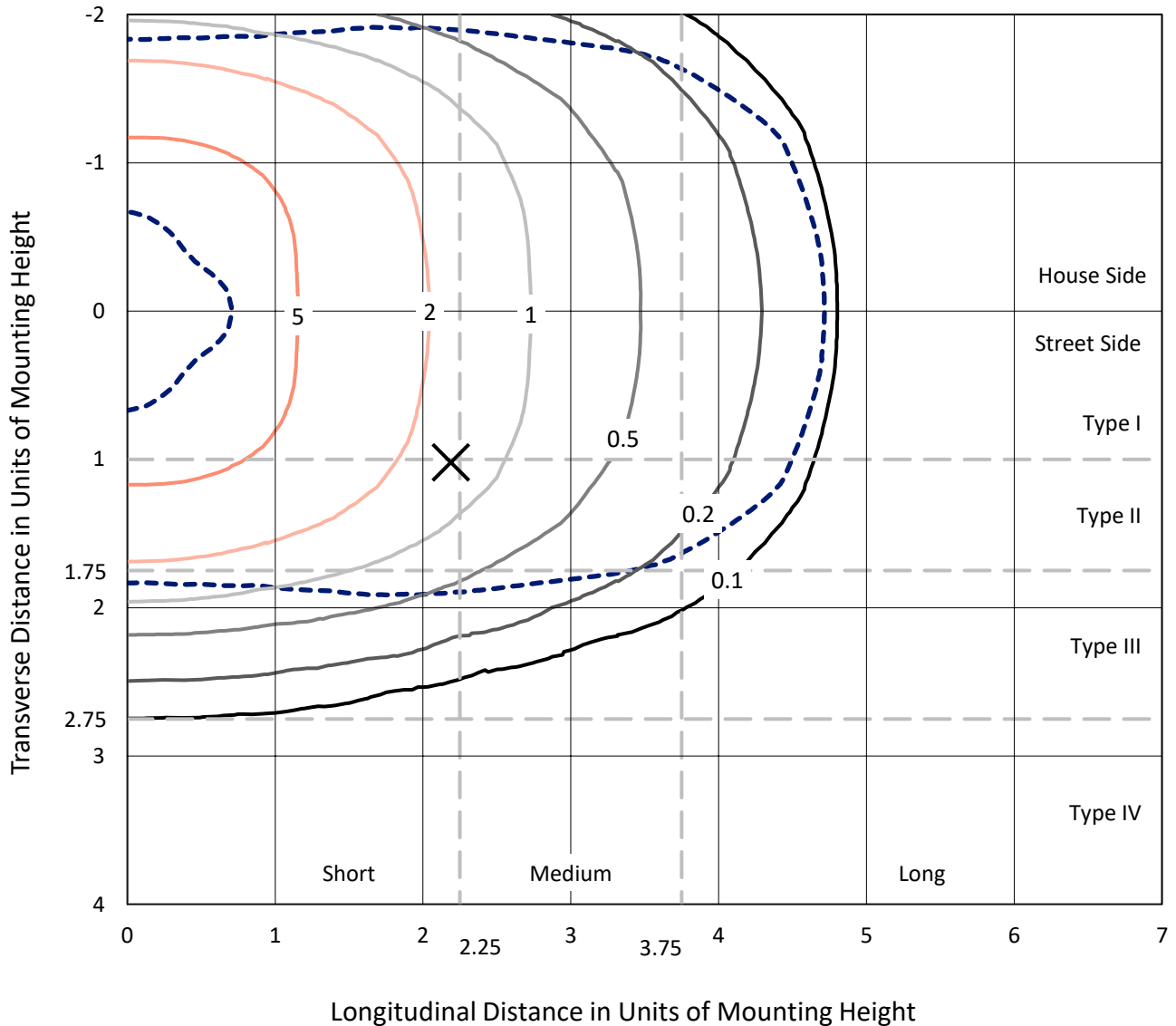




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Iso-Footcandle Lines of Horizontal Illumination

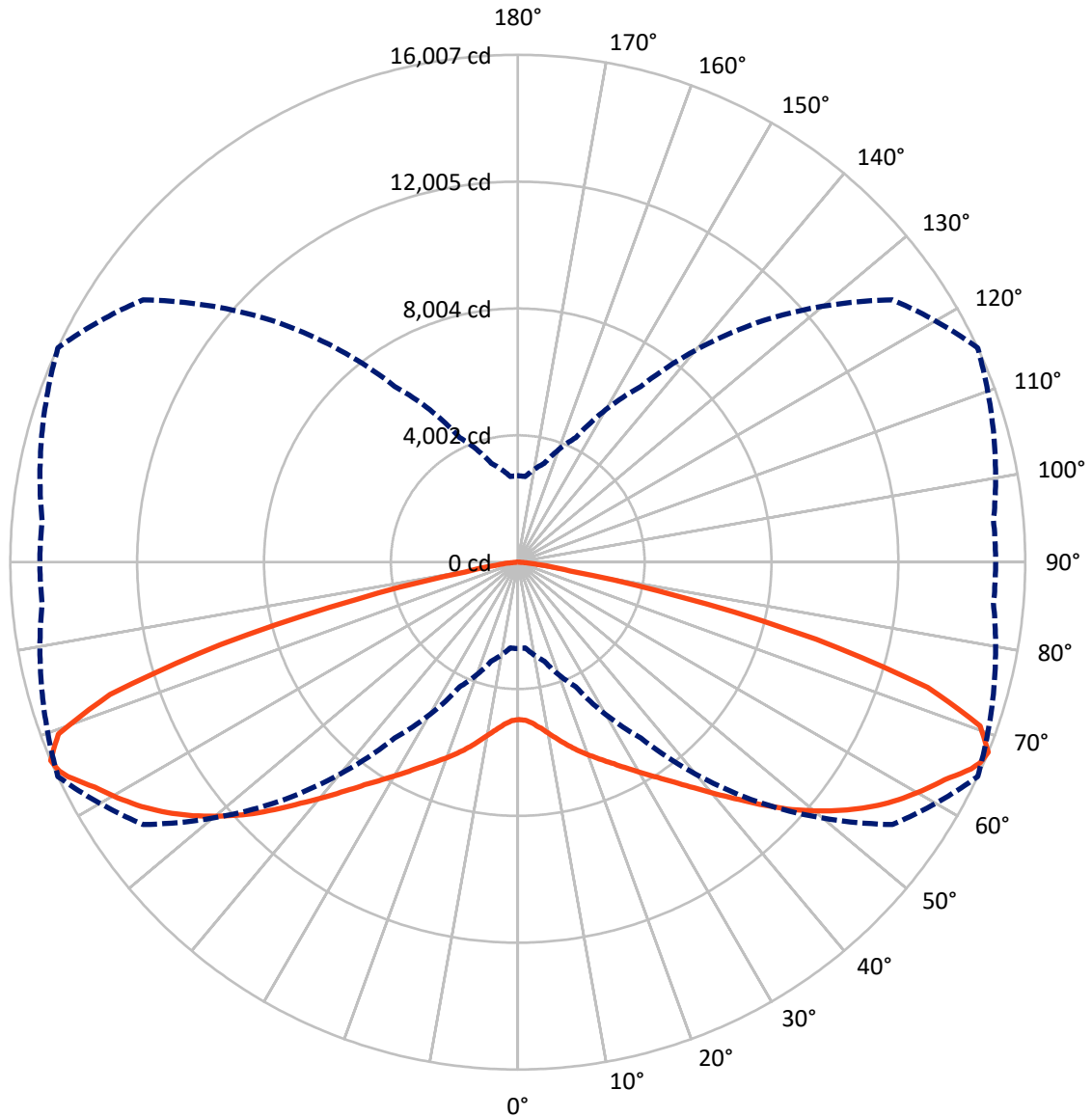
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23689.5	0.0	23689.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23689.5	0.0	23689.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	47379.0	0.0	47379.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.4	1.0
10°-20°	1638.1	3.5
20°-30°	3204.3	6.8
30°-40°	5450.0	11.5
40°-50°	8625.8	18.2
50°-60°	11437.6	24.1
60°-70°	10789.2	22.8
70°-80°	5333.6	11.3
80°-90°	411.0	0.9
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°	47379.0	100.0
0°-180°	47379.0	100.0

Coefficient of Utilization



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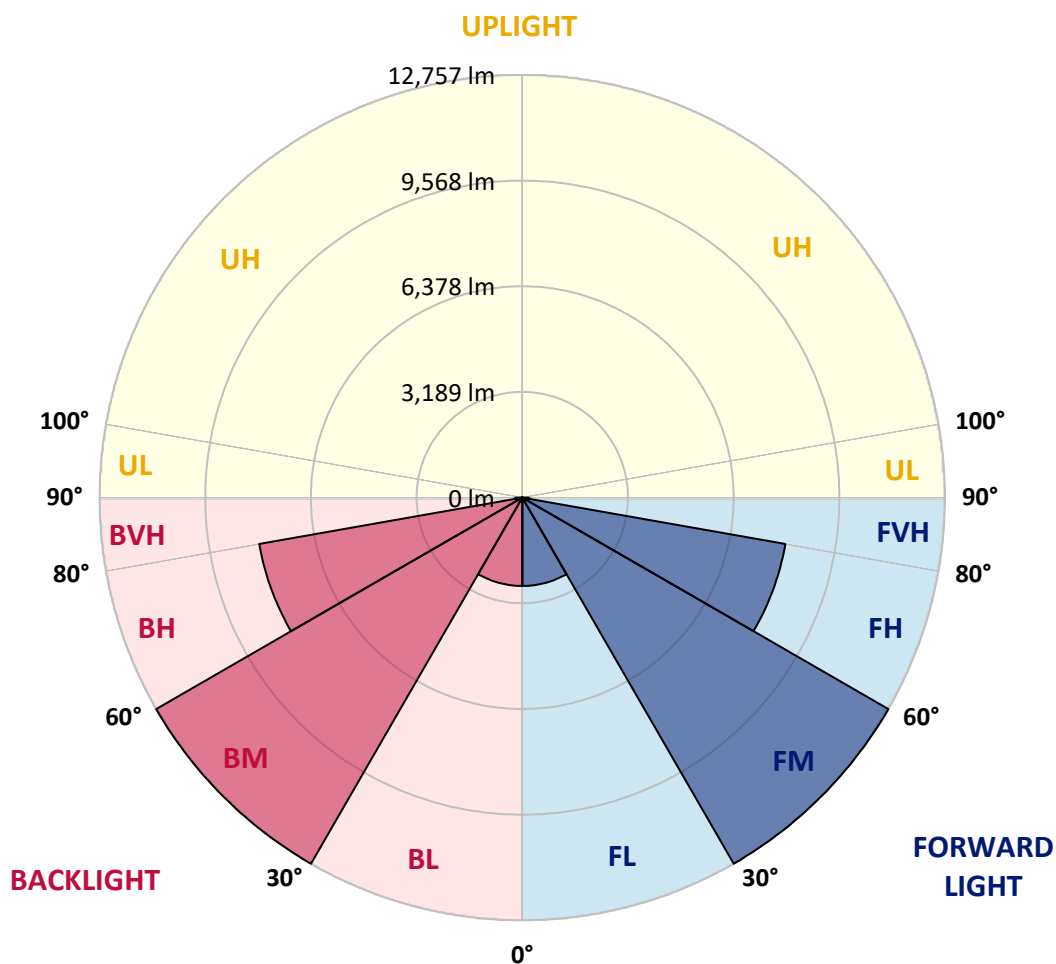
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2665.9	5.6			
FM	(30°-60°)	12756.7	26.9			
FH	(60°-80°)	8061.4	17.0			G4/12000
FVH	(80°-90°)	205.5	0.4			G2/225
BL	(0°-30°)	2665.9	5.6	B4/5000		
BM	(30°-60°)	12756.7	26.9	B5		
BH	(60°-80°)	8061.4	17.0	B5		G5
BVH	(80°-90°)	205.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4962.5	4962.5	4962.5	4962.5	4962.5	4962.5	4962.5	4962.5	4962.5	4962.5	4962.5
2.5°	4937.1	4942.2	4947.3	4954.9	4965.1	4980.3	4990.5	4998.1	5018.4	5020.9	5018.4
5°	4919.4	4924.5	4937.1	4960.0	4993.0	5038.7	5074.2	5117.4	5150.4	5173.2	5168.1
7.5°	4916.8	4927.0	4947.3	4995.5	5059.0	5137.7	5218.9	5292.5	5356.0	5406.7	5399.1
10°	4957.5	4970.1	5003.1	5074.2	5173.2	5287.4	5401.7	5510.8	5602.2	5668.2	5691.0
12.5°	5026.0	5036.1	5097.1	5203.7	5345.8	5488.0	5617.4	5752.0	5878.9	5990.6	5990.6
15°	5145.3	5163.1	5239.2	5394.1	5569.2	5734.2	5866.2	6008.3	6145.4	6272.3	6310.4
17.5°	5310.3	5335.7	5449.9	5647.9	5871.3	6023.6	6148.0	6264.7	6384.0	6505.9	6523.6
20°	5536.2	5561.6	5713.9	5952.5	6216.5	6399.3	6483.0	6510.9	6569.3	6686.1	6701.3
22.5°	5843.4	5868.7	6038.8	6307.9	6602.3	6800.3	6835.9	6769.9	6754.6	6846.0	6856.2
25°	6191.1	6214.0	6409.4	6698.8	7003.4	7219.2	7209.0	7046.5	6955.2	7011.0	7026.2
27.5°	6582.0	6615.0	6813.0	7112.5	7442.5	7632.9	7602.4	7366.4	7170.9	7160.8	7165.8
30°	7082.1	7117.6	7305.5	7592.3	7917.2	8092.4	8028.9	7711.6	7409.5	7308.0	7308.0
32.5°	7610.1	7698.9	7889.3	8188.8	8442.7	8569.6	8473.1	8092.4	7691.3	7549.1	7541.5
35°	8298.0	8346.2	8534.0	8825.9	9016.3	9115.3	8930.0	8521.3	8059.4	7891.8	7869.0
37.5°	8970.6	9011.2	9229.5	9508.8	9739.8	9734.7	9483.4	9031.6	8516.3	8328.4	8313.2
40°	9658.5	9701.7	9950.4	10206.8	10437.8	10417.5	10112.9	9607.8	9059.5	8848.8	8889.4
42.5°	10255.1	10303.3	10585.0	10950.6	11158.7	11153.6	10800.8	10232.2	9661.1	9473.2	9508.8
45°	10798.3	10841.4	11168.9	11587.7	11892.3	11930.4	11544.6	10943.0	10356.6	10115.4	10125.6
47.5°	11181.6	11262.8	11605.5	12085.2	12499.0	12633.5	12255.3	11666.4	10991.2	10739.9	10755.1
50°	11473.5	11524.2	11897.4	12443.1	12966.0	13245.3	12940.7	12336.5	11625.8	11359.2	11394.8
52.5°	11509.0	11569.9	11976.1	12605.6	13275.7	13699.6	13549.9	12991.4	12273.1	11998.9	12075.1
55°	11219.6	11255.2	11740.0	12504.1	13397.6	14037.2	14075.3	13600.6	12889.9	12681.7	12732.5
57.5°	10394.7	10486.0	11100.3	12029.4	13230.0	14217.5	14468.8	14154.0	13514.3	13308.7	13390.0
60°	9041.7	9133.1	9749.9	10927.7	12598.0	14133.7	14793.7	14643.9	14080.4	13915.4	13958.5
62.5°	7084.6	7077.0	7841.1	9285.4	11341.5	13722.5	15034.8	15116.1	14638.8	14430.7	14496.7
65°	4591.9	4614.8	5353.4	6909.5	9445.3	12676.7	15088.1	15717.6	15187.1	14872.4	14920.6
66°	3693.3	3761.9	4388.9	5823.0	8478.2	11991.3	14928.2	15895.3	15354.7	14973.9	14996.7
67.5°	2726.2	2713.5	3228.8	4335.6	6769.9	10689.1	14428.2	16007.0	15545.0	15065.3	15075.4
70°	1556.0	1553.5	1736.3	2381.0	3980.2	7526.3	12161.4	15471.4	15930.9	15395.3	15367.4
72.5°	1137.2	1129.6	1155.0	1314.9	1941.9	3800.0	8389.3	13521.9	15732.9	15342.0	15263.3
75°	954.4	949.4	944.3	964.6	1089.0	1721.0	4452.3	9727.1	13651.4	14400.2	14319.0
77.5°	779.3	779.3	781.8	776.7	781.8	906.2	1845.4	5213.8	8313.2	9280.3	9506.2
80°	609.2	606.7	649.8	632.1	591.4	581.3	817.4	1677.9	2759.2	2744.0	2264.2
82.5°	449.3	418.8	495.0	482.3	436.6	370.6	477.2	715.8	921.4	599.1	444.2
85°	284.3	281.8	350.3	319.8	266.5	175.1	228.5	307.1	380.8	231.0	187.8
87.5°	50.8	48.2	111.7	81.2	81.2	50.8	63.5	83.8	124.4	86.3	63.5
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)