

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: P456604

Luminaire Tested: **GALN-SA7D-827-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456604
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-SA7D-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 40867 lumens
Efficiency: N/A
Efficacy: 94.4 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): 433
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

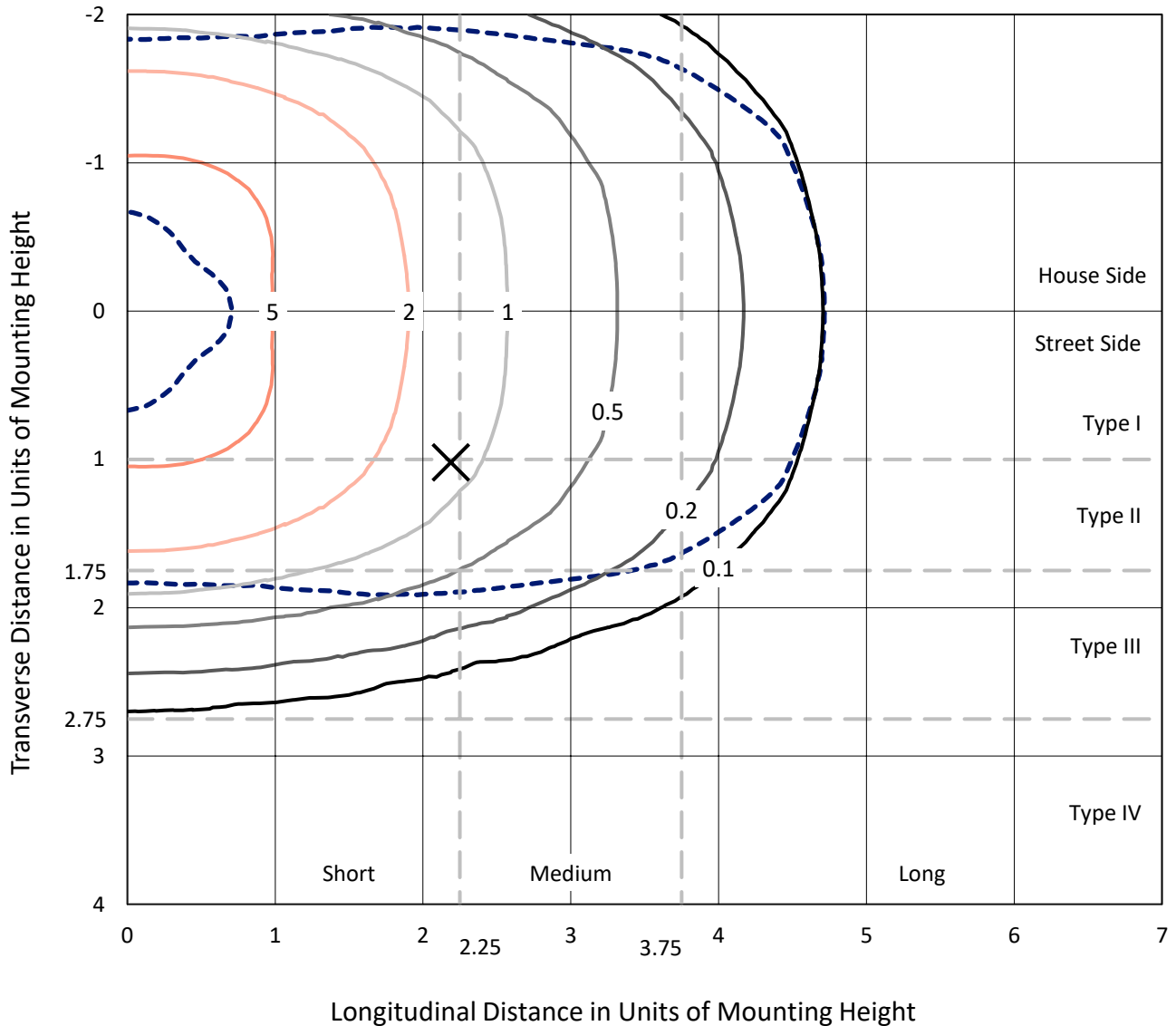




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Iso-Footcandle Lines of Horizontal Illumination

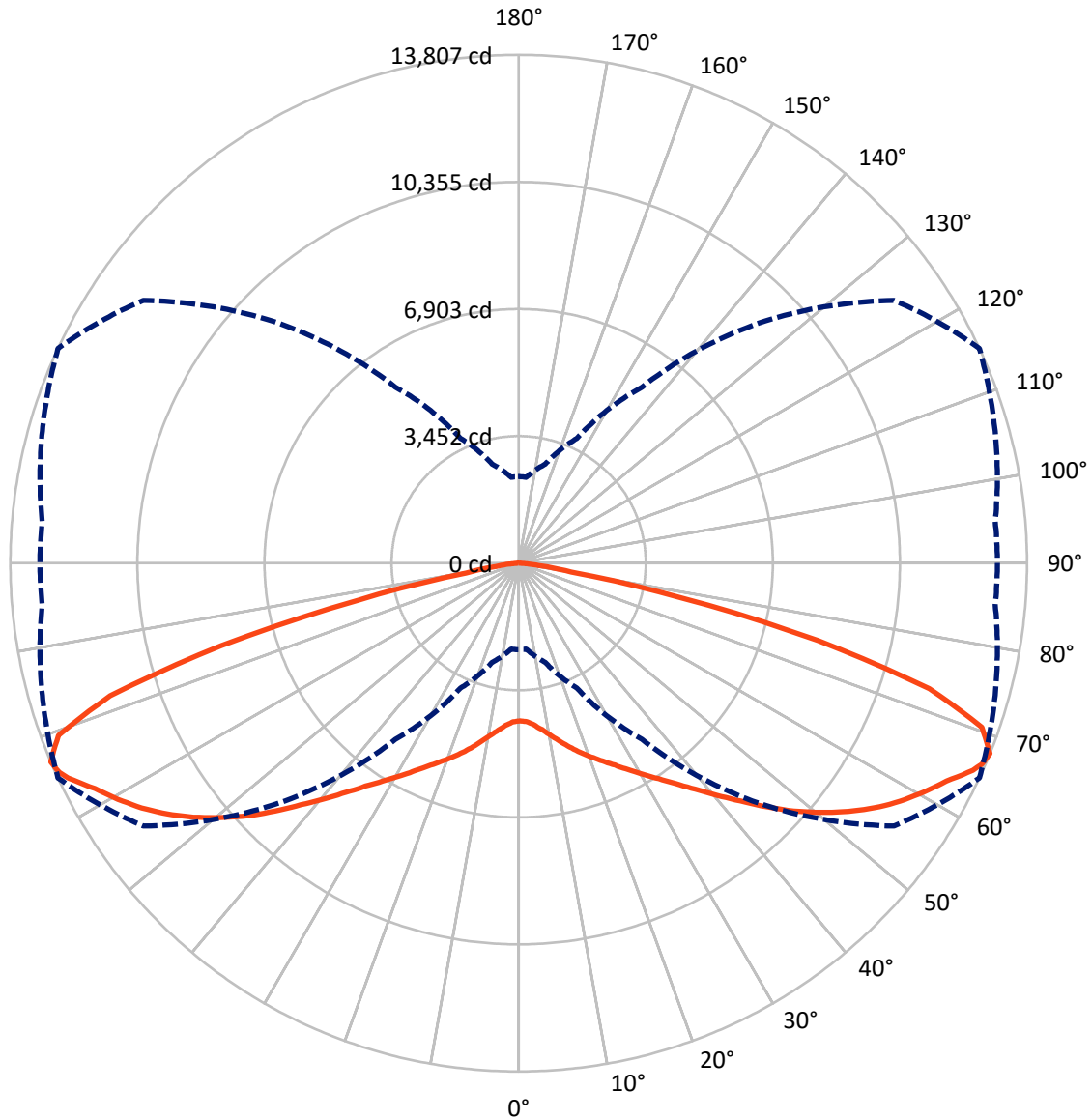
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	20433.5	0.0	20433.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20433.5	0.0	20433.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40867.0	0.0	40867.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.2	1.0
10°-20°	1413.0	3.5
20°-30°	2763.9	6.8
30°-40°	4700.9	11.5
40°-50°	7440.2	18.2
50°-60°	9865.5	24.1
60°-70°	9306.2	22.8
70°-80°	4600.6	11.3
80°-90°	354.6	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°	40867.0	100.0
0°-180°	40867.0	100.0

Coefficient of Utilization



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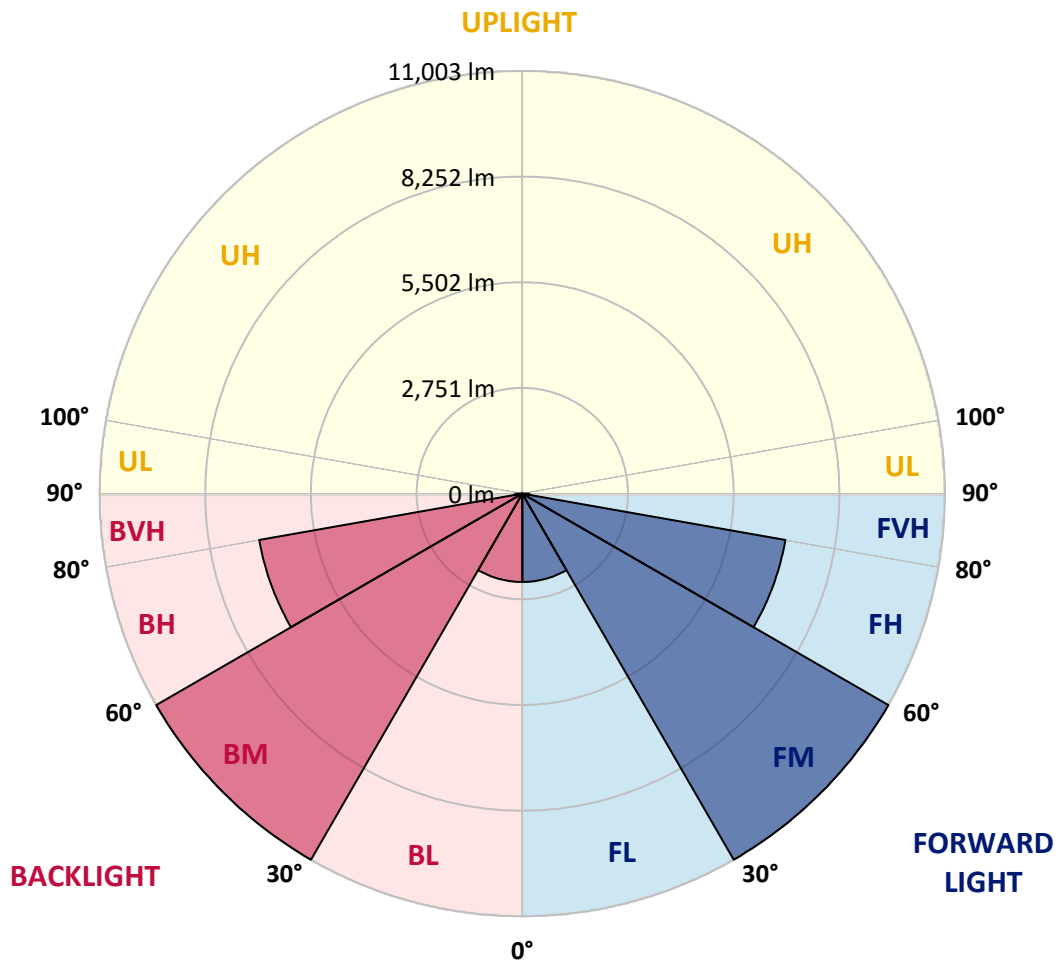
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2299.5	5.6			
FM	(30°-60°)	11003.3	26.9			
FH	(60°-80°)	6953.4	17.0			G3/7500
FVH	(80°-90°)	177.3	0.4			G2/225
BL	(0°-30°)	2299.5	5.6	B3/2500		
BM	(30°-60°)	11003.3	26.9	B5		
BH	(60°-80°)	6953.4	17.0	B5		G5
BVH	(80°-90°)	177.3	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°	4280.5	4280.5	4280.5	4280.5	4280.5	4280.5	4280.5	4280.5	4280.5	4280.5	4280.5
2.5°	4258.6	4262.9	4267.3	4273.9	4282.6	4295.8	4304.5	4311.1	4328.6	4330.8	4328.6
5°	4243.2	4247.6	4258.6	4278.3	4306.7	4346.1	4376.8	4414.0	4442.5	4462.2	4457.8
7.5°	4241.0	4249.8	4267.3	4308.9	4363.7	4431.5	4501.6	4565.1	4619.8	4663.6	4657.1
10°	4276.1	4287.0	4315.5	4376.8	4462.2	4560.7	4659.2	4753.4	4832.2	4889.1	4908.8
12.5°	4335.2	4344.0	4396.5	4488.5	4611.1	4733.7	4845.3	4961.4	5070.9	5167.2	5167.2
15°	4438.1	4453.4	4519.1	4652.7	4803.7	4946.1	5059.9	5182.5	5300.8	5410.2	5443.1
17.5°	4580.4	4602.3	4700.8	4871.6	5064.3	5195.7	5303.0	5403.7	5506.6	5611.7	5627.0
20°	4775.3	4797.2	4928.5	5134.4	5362.1	5519.7	5592.0	5616.0	5666.4	5767.1	5780.3
22.5°	5040.2	5062.1	5208.8	5440.9	5694.9	5865.7	5896.3	5839.4	5826.2	5905.1	5913.8
25°	5340.2	5359.9	5528.5	5778.1	6040.8	6226.9	6218.2	6078.0	5999.2	6047.4	6060.5
27.5°	5677.4	5705.8	5876.6	6135.0	6419.6	6583.8	6557.5	6353.9	6185.3	6176.6	6180.9
30°	6108.7	6139.3	6301.4	6548.8	6829.0	6980.1	6925.4	6651.7	6391.1	6303.5	6303.5
32.5°	6564.1	6640.7	6804.9	7063.3	7282.3	7391.7	7308.5	6980.1	6634.2	6511.6	6505.0
35°	7157.5	7199.1	7361.1	7612.9	7777.1	7862.5	7702.6	7350.1	6951.6	6807.1	6787.4
37.5°	7737.7	7772.7	7961.0	8201.8	8401.1	8396.7	8179.9	7790.2	7345.7	7183.7	7170.6
40°	8331.0	8368.2	8582.8	8803.9	9003.2	8985.7	8722.9	8287.2	7814.3	7632.6	7667.6
42.5°	8845.5	8887.1	9130.2	9445.5	9625.0	9620.6	9316.3	8825.8	8333.2	8171.2	8201.8
45°	9314.1	9351.3	9633.8	9995.0	10257.8	10290.6	9957.8	9438.9	8933.1	8725.1	8733.9
47.5°	9644.7	9714.8	10010.4	10424.2	10781.1	10897.1	10570.9	10062.9	9480.5	9263.7	9276.9
50°	9896.5	9940.3	10262.2	10732.9	11183.9	11424.8	11162.0	10640.9	10027.9	9798.0	9828.6
52.5°	9927.2	9979.7	10330.0	10873.0	11451.0	11816.7	11687.5	11205.8	10586.2	10349.7	10415.4
55°	9677.6	9708.2	10126.4	10785.4	11556.1	12107.9	12140.7	11731.3	11118.2	10938.7	10982.5
57.5°	8966.0	9044.8	9574.7	10376.0	11411.6	12263.3	12480.1	12208.6	11656.9	11479.5	11549.6
60°	7799.0	7877.8	8409.8	9425.8	10866.5	12191.1	12760.4	12631.2	12145.1	12002.8	12040.0
62.5°	6110.9	6104.3	6763.3	8009.2	9782.7	11836.4	12968.4	13038.4	12626.8	12447.3	12504.2
65°	3960.8	3980.5	4617.6	5959.8	8147.1	10934.3	13014.3	13557.3	13099.7	12828.2	12869.8
66°	3185.7	3244.8	3785.6	5022.7	7312.9	10343.2	12876.4	13710.6	13244.2	12915.8	12935.5
67.5°	2351.5	2340.6	2785.0	3739.7	5839.4	9220.0	12445.1	13806.9	13408.5	12994.6	13003.4
70°	1342.2	1340.0	1497.6	2053.7	3433.1	6491.8	10489.9	13345.0	13741.3	13279.3	13255.2
72.5°	980.9	974.3	996.2	1134.2	1675.0	3277.7	7236.3	11663.4	13570.5	13233.3	13165.4
75°	823.2	818.9	814.5	832.0	939.3	1484.5	3840.4	8390.1	11775.1	12421.0	12350.9
77.5°	672.2	672.2	674.4	670.0	674.4	781.6	1591.8	4497.2	7170.6	8004.8	8199.6
80°	525.5	523.3	560.5	545.2	510.2	501.4	705.0	1447.3	2380.0	2366.8	1953.0
82.5°	387.5	361.3	427.0	416.0	376.6	319.7	411.6	617.4	794.8	516.7	383.2
85°	245.2	243.0	302.1	275.9	229.9	151.1	197.1	264.9	328.4	199.2	162.0
87.5°	43.8	41.6	96.3	70.1	70.1	43.8	54.7	72.3	107.3	74.4	54.7
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)