

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: P455676

Luminaire Tested: **GALN-SA6D-827-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455676
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-SA6D-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 34793 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

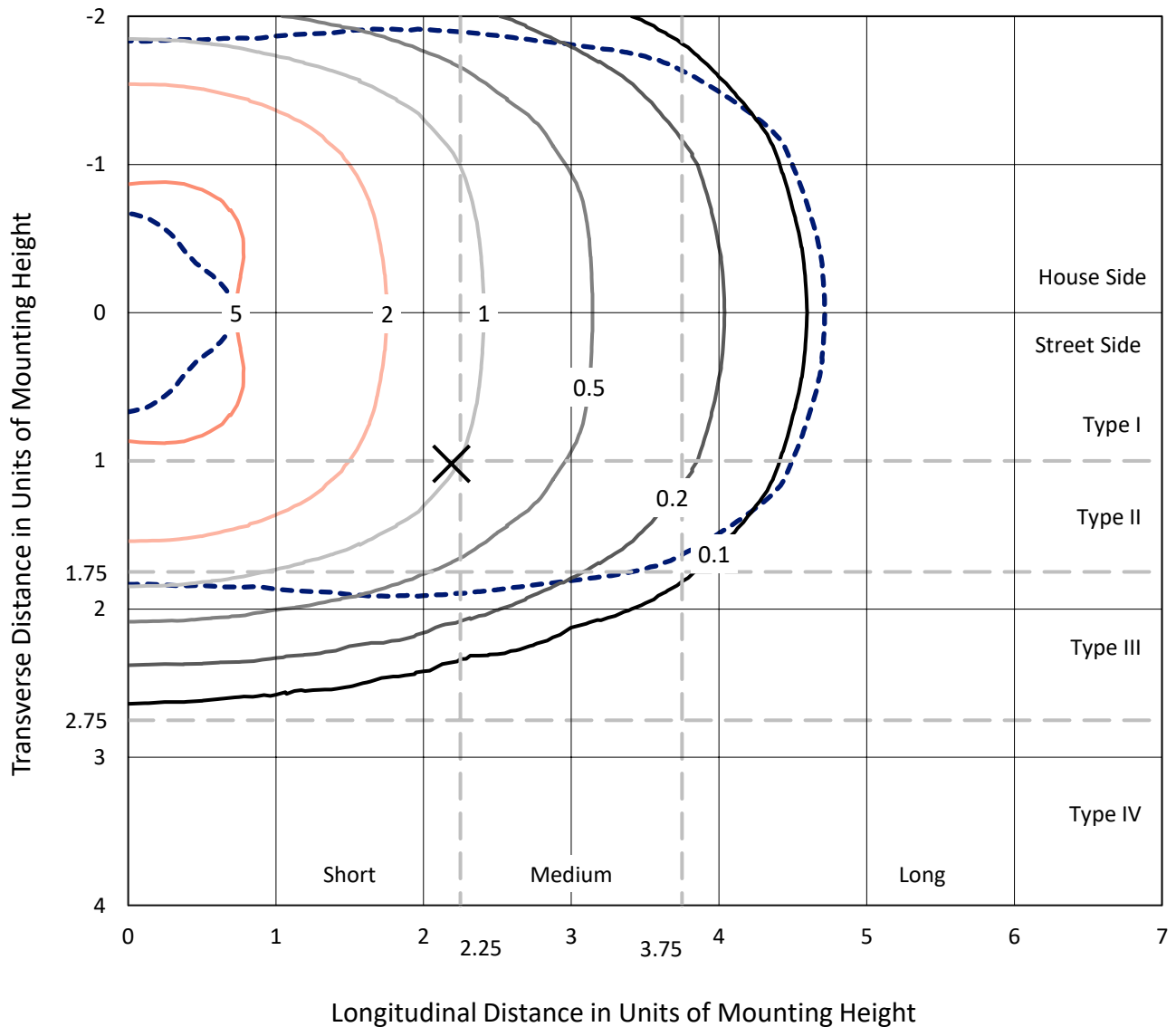
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

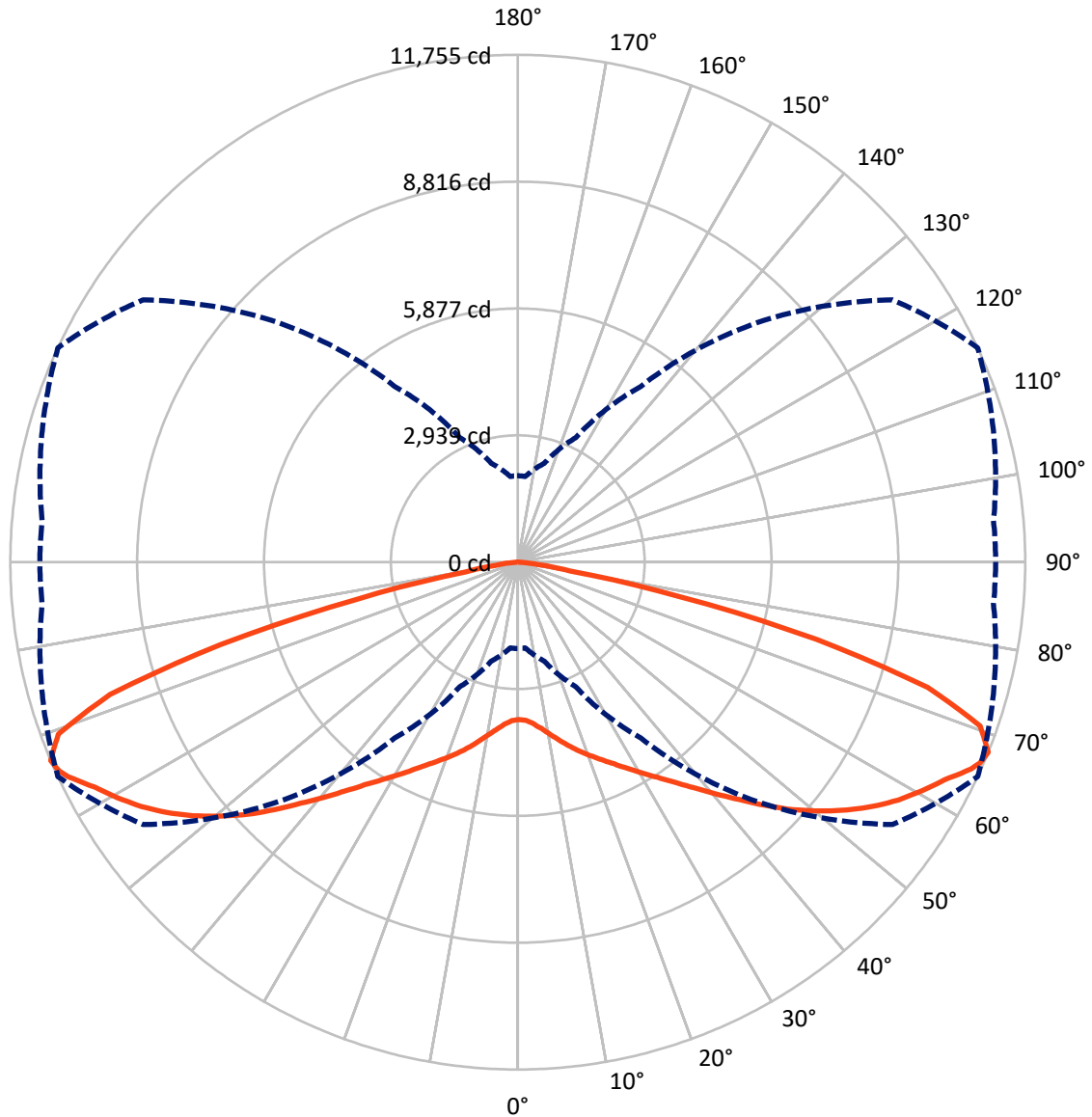
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	17396.5	0.0	17396.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17396.5	0.0	17396.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34793.0	0.0	34793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.4	1.0
10°-20°	1203.0	3.5
20°-30°	2353.1	6.8
30°-40°	4002.3	11.5
40°-50°	6334.4	18.2
50°-60°	8399.2	24.1
60°-70°	7923.1	22.8
70°-80°	3916.8	11.3
80°-90°	301.9	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°	34793.0	100.0
0°-180°	34793.0	100.0

Coefficient of Utilization



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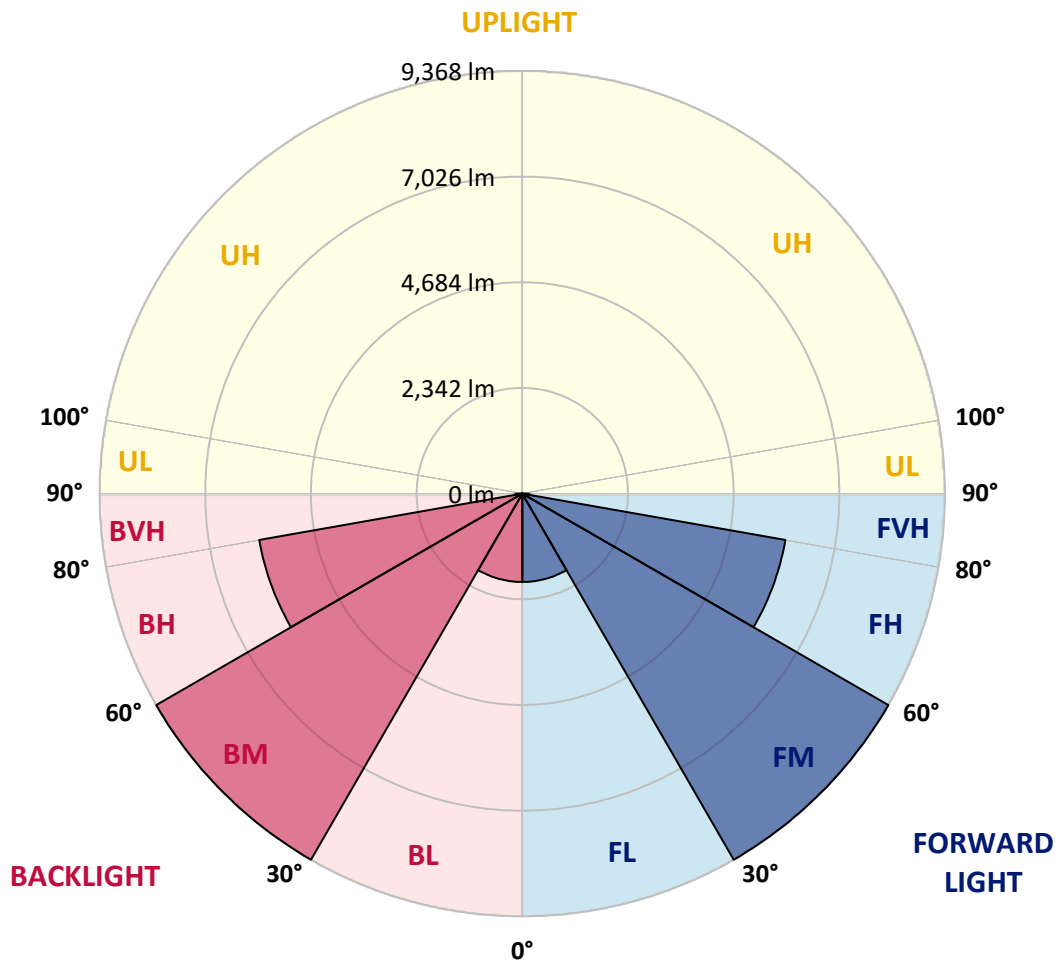
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1957.7	5.6			
FM	(30°-60°)	9367.9	26.9			
FH	(60°-80°)	5919.9	17.0			G3/7500
FVH	(80°-90°)	150.9	0.4			G2/225
BL	(0°-30°)	1957.7	5.6	B3/2500		
BM	(30°-60°)	9367.9	26.9	B5		
BH	(60°-80°)	5919.9	17.0	B5		G5
BVH	(80°-90°)	150.9	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°	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3
2.5°	3625.6	3629.3	3633.1	3638.7	3646.1	3657.3	3664.8	3670.4	3685.3	3687.1	3685.3
5°	3612.6	3616.3	3625.6	3642.4	3666.6	3700.2	3726.3	3758.0	3782.2	3799.0	3795.2
7.5°	3610.7	3618.2	3633.1	3668.5	3715.1	3772.9	3832.5	3886.6	3933.2	3970.5	3964.9
10°	3640.5	3649.9	3674.1	3726.3	3799.0	3882.9	3966.7	4046.9	4114.0	4162.5	4179.2
12.5°	3690.9	3698.3	3743.1	3821.3	3925.7	4030.1	4125.2	4224.0	4317.2	4399.2	4399.2
15°	3778.5	3791.5	3847.4	3961.2	4089.8	4210.9	4307.9	4412.3	4512.9	4606.1	4634.1
17.5°	3899.6	3918.3	4002.2	4147.6	4311.6	4423.4	4514.8	4600.5	4688.1	4777.6	4790.7
20°	4065.5	4084.2	4196.0	4371.2	4565.1	4699.3	4760.8	4781.3	4824.2	4910.0	4921.1
22.5°	4291.1	4309.7	4434.6	4632.2	4848.5	4993.8	5019.9	4971.5	4960.3	5027.4	5034.9
25°	4546.5	4563.2	4706.8	4919.3	5143.0	5301.4	5294.0	5174.7	5107.6	5148.6	5159.7
27.5°	4833.5	4857.8	5003.2	5223.1	5465.5	5605.3	5582.9	5409.5	5266.0	5258.5	5262.3
30°	5200.8	5226.9	5364.8	5575.4	5814.0	5942.7	5896.1	5663.0	5441.2	5366.7	5366.7
32.5°	5588.5	5653.7	5793.5	6013.5	6199.9	6293.1	6222.3	5942.7	5648.1	5543.7	5538.2
35°	6093.6	6129.1	6267.0	6481.4	6621.2	6693.9	6557.8	6257.7	5918.4	5795.4	5778.6
37.5°	6587.6	6617.5	6777.8	6982.8	7152.4	7148.7	6964.2	6632.4	6254.0	6116.0	6104.8
40°	7092.8	7124.5	7307.2	7495.4	7665.1	7650.1	7426.5	7055.5	6652.9	6498.2	6528.0
42.5°	7530.8	7566.3	7773.2	8041.6	8194.5	8190.7	7931.6	7514.1	7094.7	6956.7	6982.8
45°	7929.8	7961.4	8201.9	8509.5	8733.2	8761.1	8477.8	8036.0	7605.4	7428.3	7435.8
47.5°	8211.2	8270.9	8522.5	8874.8	9178.7	9277.5	8999.7	8567.3	8071.4	7886.9	7898.1
50°	8425.6	8462.9	8736.9	9137.7	9521.7	9726.7	9503.0	9059.4	8537.4	8341.7	8367.8
52.5°	8451.7	8496.4	8794.7	9257.0	9749.1	10060.4	9950.4	9540.3	9012.8	8811.5	8867.4
55°	8239.2	8265.3	8621.3	9182.4	9838.6	10308.3	10336.3	9987.7	9465.8	9312.9	9350.2
57.5°	7633.4	7700.5	8151.6	8833.8	9715.5	10440.7	10625.2	10394.1	9924.3	9773.3	9833.0
60°	6639.8	6706.9	7159.9	8024.8	9251.4	10379.2	10863.8	10753.8	10340.0	10218.8	10250.5
62.5°	5202.6	5197.0	5758.1	6818.8	8328.7	10077.2	11040.9	11100.5	10750.1	10597.2	10645.7
65°	3372.1	3388.9	3931.3	5074.0	6936.2	9309.2	11080.0	11542.3	11152.7	10921.6	10957.0
66°	2712.2	2762.6	3223.0	4276.2	6226.0	8805.9	10962.6	11672.8	11275.8	10996.2	11012.9
67.5°	2002.0	1992.7	2371.1	3183.8	4971.5	7849.6	10595.4	11754.8	11415.6	11063.3	11070.7
70°	1142.7	1140.8	1275.0	1748.5	2922.9	5527.0	8930.8	11361.5	11698.9	11305.6	11285.1
72.5°	835.1	829.5	848.2	965.6	1426.0	2790.5	6160.8	9929.9	11553.5	11266.4	11208.7
75°	700.9	697.2	693.4	708.3	799.7	1263.8	3269.6	7143.1	10025.0	10574.9	10515.2
77.5°	572.3	572.3	574.1	570.4	574.1	665.5	1355.2	3828.8	6104.8	6815.0	6980.9
80°	447.4	445.5	477.2	464.2	434.3	426.9	600.2	1232.2	2026.2	2015.1	1662.8
82.5°	329.9	307.6	363.5	354.2	320.6	272.2	350.4	525.7	676.7	439.9	326.2
85°	208.8	206.9	257.2	234.9	195.7	128.6	167.8	225.6	279.6	169.6	137.9
87.5°	37.3	35.4	82.0	59.7	59.7	37.3	46.6	61.5	91.3	63.4	46.6
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)