

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: P455455

Luminaire Tested: **GALN-SA6C-827-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-827-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30593 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

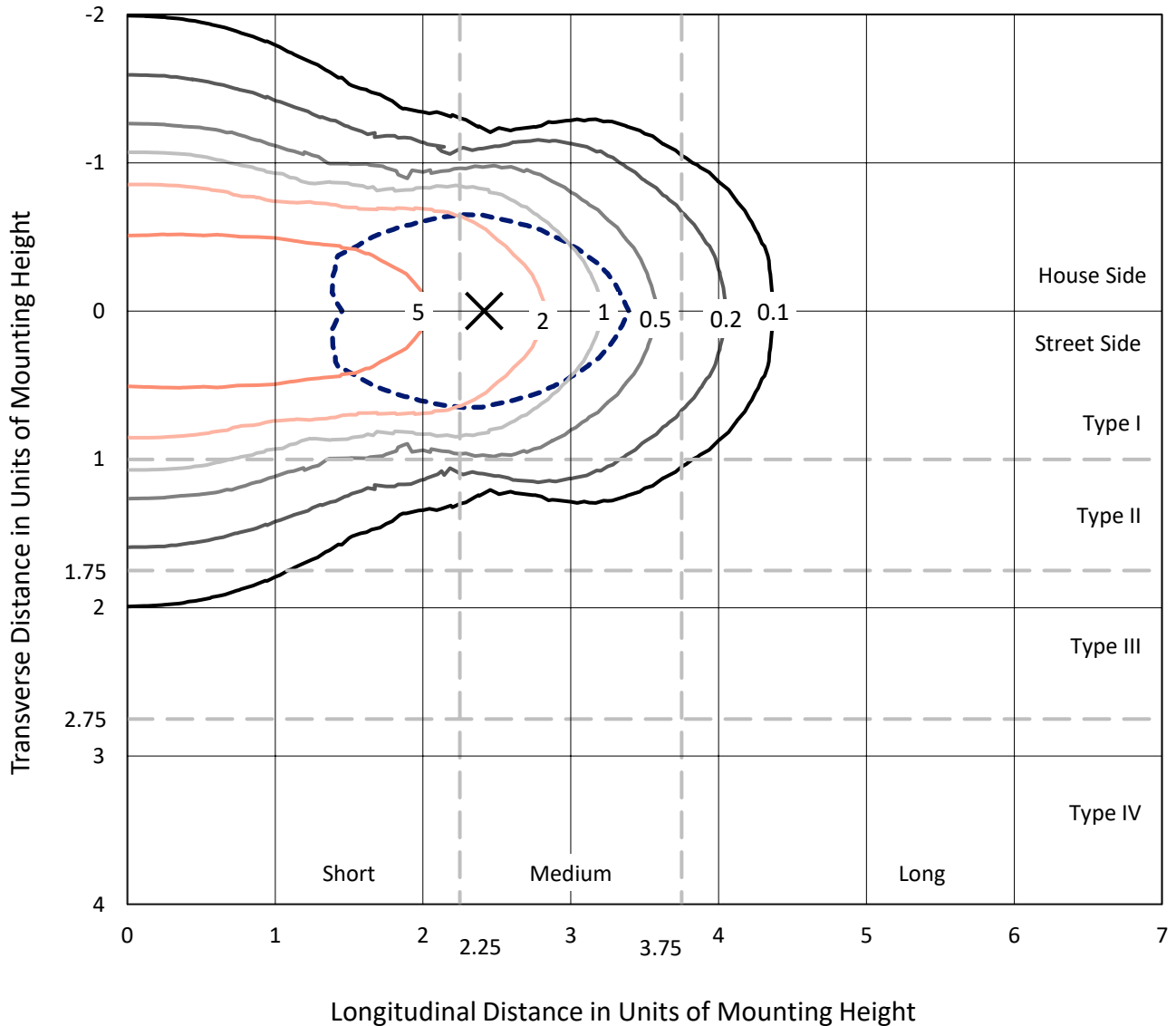
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

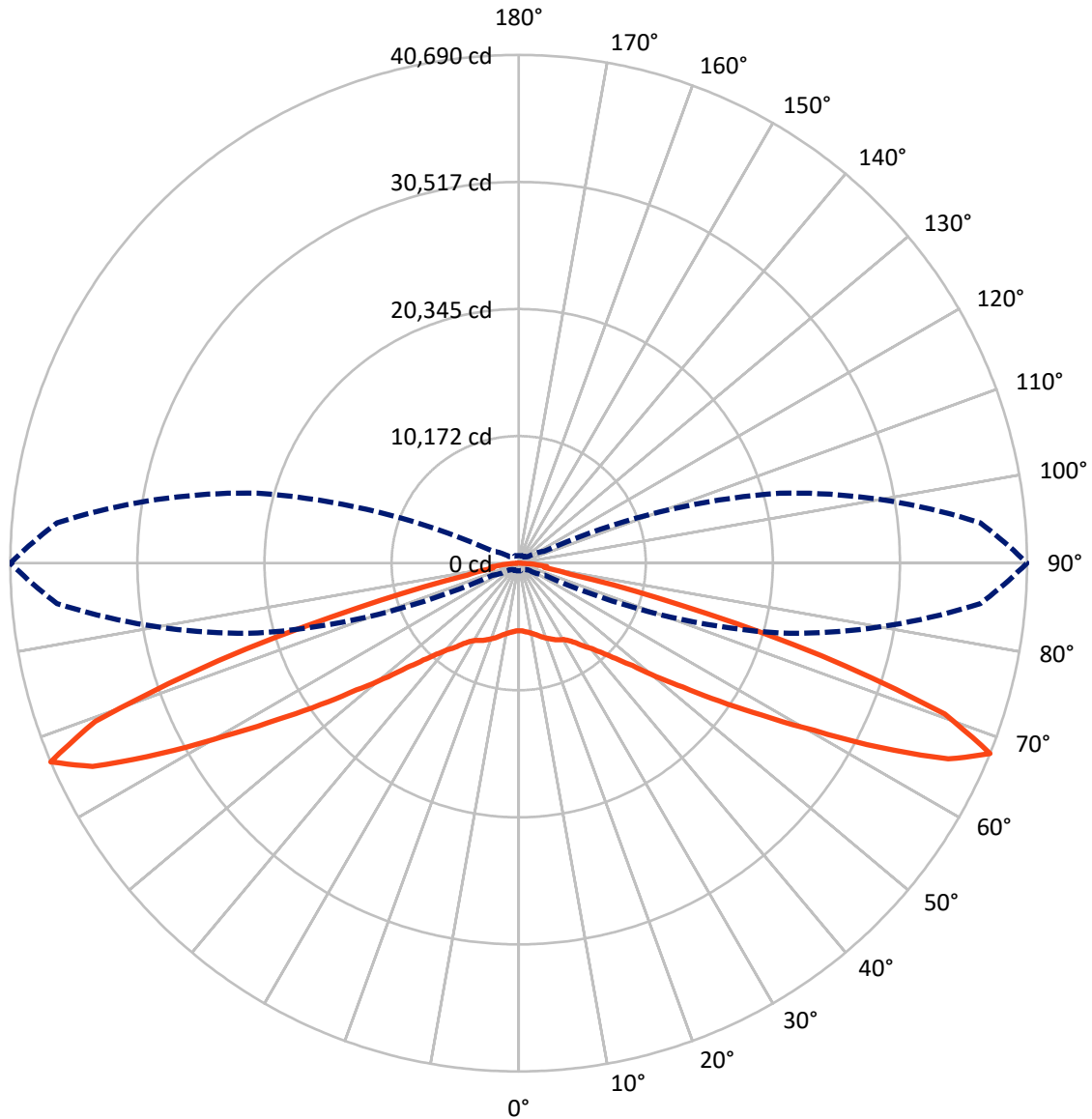
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15296.5	0.0	15296.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15296.5	0.0	15296.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30593.0	0.0	30593.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.0	1.8
10°-20°	1727.6	5.6
20°-30°	2891.6	9.5
30°-40°	3917.3	12.8
40°-50°	4961.9	16.2
50°-60°	6198.7	20.3
60°-70°	7286.3	23.8
70°-80°	2787.3	9.1
80°-90°	282.4	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°	30593.0	100.0
0°-180°	30593.0	100.0



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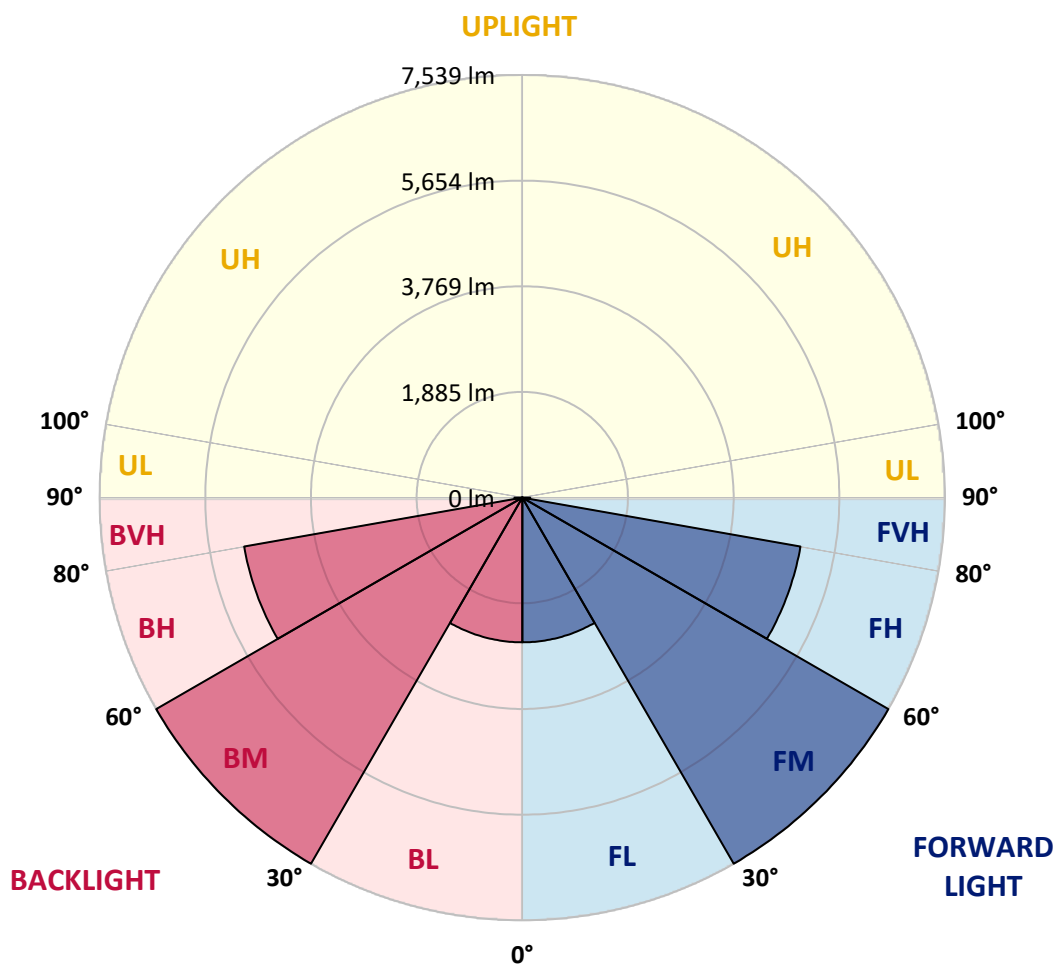
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2579.6	8.4			
FM (30°-60°)	7538.9	24.6			
FH (60°-80°)	5036.8	16.5			G3/7500
FVH (80°-90°)	141.2	0.5			G2/225
BL (0°-30°)	2579.6	8.4	B4/5000		
BM (30°-60°)	7538.9	24.6	B4/8500		
BH (60°-80°)	5036.8	16.5	B5		G5
BVH (80°-90°)	141.2	0.5			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5415.9	5415.9	5415.9	5415.9	5415.9	5415.9	5415.9	5415.9	5415.9	5415.9	5415.9
2.5°	5485.4	5482.0	5483.7	5482.0	5487.1	5483.7	5463.3	5446.4	5432.9	5434.5	5429.5
5°	5602.3	5604.0	5605.6	5597.2	5609.0	5602.3	5570.1	5543.0	5515.9	5505.7	5502.3
7.5°	5698.8	5707.3	5712.4	5720.8	5741.2	5741.2	5724.2	5685.3	5626.0	5592.1	5590.4
10°	5795.4	5802.2	5817.4	5844.5	5878.4	5910.6	5903.8	5851.3	5775.1	5717.5	5703.9
12.5°	5829.3	5837.7	5888.6	5966.5	6042.7	6105.4	6105.4	6063.0	5964.8	5876.7	5851.3
15°	5710.7	5725.9	5817.4	5983.4	6183.3	6320.5	6351.0	6291.7	6186.7	6051.2	6020.7
17.5°	5475.2	5512.5	5646.3	5891.9	6224.0	6508.6	6596.7	6567.9	6432.4	6259.6	6224.0
20°	5222.8	5263.4	5405.7	5731.0	6190.1	6618.7	6874.5	6881.3	6713.6	6462.8	6410.3
22.5°	4945.0	4975.5	5158.4	5539.6	6088.5	6644.1	7113.4	7230.3	7003.2	6666.1	6591.6
25°	4633.3	4667.1	4858.6	5270.2	5897.0	6615.3	7331.9	7589.4	7306.5	6883.0	6788.1
27.5°	4335.1	4348.7	4553.6	4972.1	5644.6	6540.8	7492.8	7919.7	7641.9	7062.5	6942.3
30°	4048.8	4081.0	4262.3	4675.6	5354.9	6395.1	7631.7	8295.8	8002.7	7250.6	7096.4
32.5°	3745.6	3784.5	3981.0	4399.5	5065.2	6176.5	7716.4	8707.5	8505.9	7555.5	7391.2
35°	3454.2	3479.6	3677.8	4084.4	4782.3	5922.4	7731.7	9171.6	9154.7	8018.0	7799.5
37.5°	3156.0	3193.3	3393.2	3782.8	4482.5	5653.1	7655.5	9664.6	9937.4	8660.0	8424.6
40°	2869.7	2901.9	3098.4	3491.5	4142.0	5324.4	7474.2	10115.2	10850.5	9320.7	8987.0
42.5°	2558.0	2566.5	2781.6	3181.4	3808.2	4943.3	7213.3	10516.7	11868.6	10206.7	9791.7
45°	2204.0	2226.0	2425.9	2818.9	3425.4	4516.4	6859.3	10848.8	13159.5	11434.9	10869.1
47.5°	1849.9	1868.5	2051.5	2439.4	3007.0	4026.8	6313.8	11140.1	14484.2	12995.1	12253.1
50°	1504.3	1514.5	1663.6	2007.5	2536.0	3511.8	5637.8	11233.3	15981.8	15204.2	14257.2
52.5°	1189.2	1204.5	1318.0	1587.3	2032.9	2903.6	4907.7	11002.9	17730.0	17823.2	16488.3
55°	963.9	969.0	1053.7	1251.9	1589.0	2266.7	4026.8	10360.9	19610.5	21179.2	19476.6
57.5°	830.1	833.5	880.9	991.0	1223.1	1709.3	3123.8	9146.2	21299.4	25111.1	22922.3
60°	753.9	755.6	782.7	847.0	969.0	1311.2	2237.9	7431.8	22966.4	29486.8	27204.9
62.5°	706.4	706.4	725.1	760.6	819.9	1006.3	1621.2	5361.7	24108.2	33927.0	32483.6
65°	660.7	660.7	674.2	699.6	731.8	823.3	1197.7	3496.5	24079.4	37160.9	37792.8
67.5°	608.2	608.2	618.3	643.7	662.4	708.1	925.0	2290.4	21629.8	37089.8	40689.7
70°	545.5	545.5	559.0	581.1	596.3	625.1	730.1	1567.0	15890.3	31668.8	36186.8
72.5°	482.8	484.5	493.0	515.0	526.9	543.8	606.5	1097.8	9747.6	21563.7	25302.5
75°	413.4	416.7	425.2	447.2	457.4	464.2	511.6	782.7	4931.4	11626.3	13237.4
77.5°	333.7	340.5	345.6	369.3	376.1	386.2	421.8	565.8	2165.0	4177.6	4214.8
80°	243.9	252.4	267.7	289.7	294.8	301.5	321.9	401.5	980.9	1907.5	2071.8
82.5°	179.6	191.4	172.8	201.6	201.6	193.1	227.0	269.4	450.6	1888.9	2259.9
85°	98.3	99.9	89.8	103.3	110.1	108.4	120.3	132.1	218.5	1260.4	1299.3
87.5°	23.7	25.4	27.1	32.2	39.0	39.0	42.4	37.3	71.2	408.3	233.8
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)