

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: P455531

Luminaire Tested: **GALN-SA6D-727-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455531
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-727-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 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: 39582 lumens
Efficiency: N/A
Efficacy: 107.6 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 (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

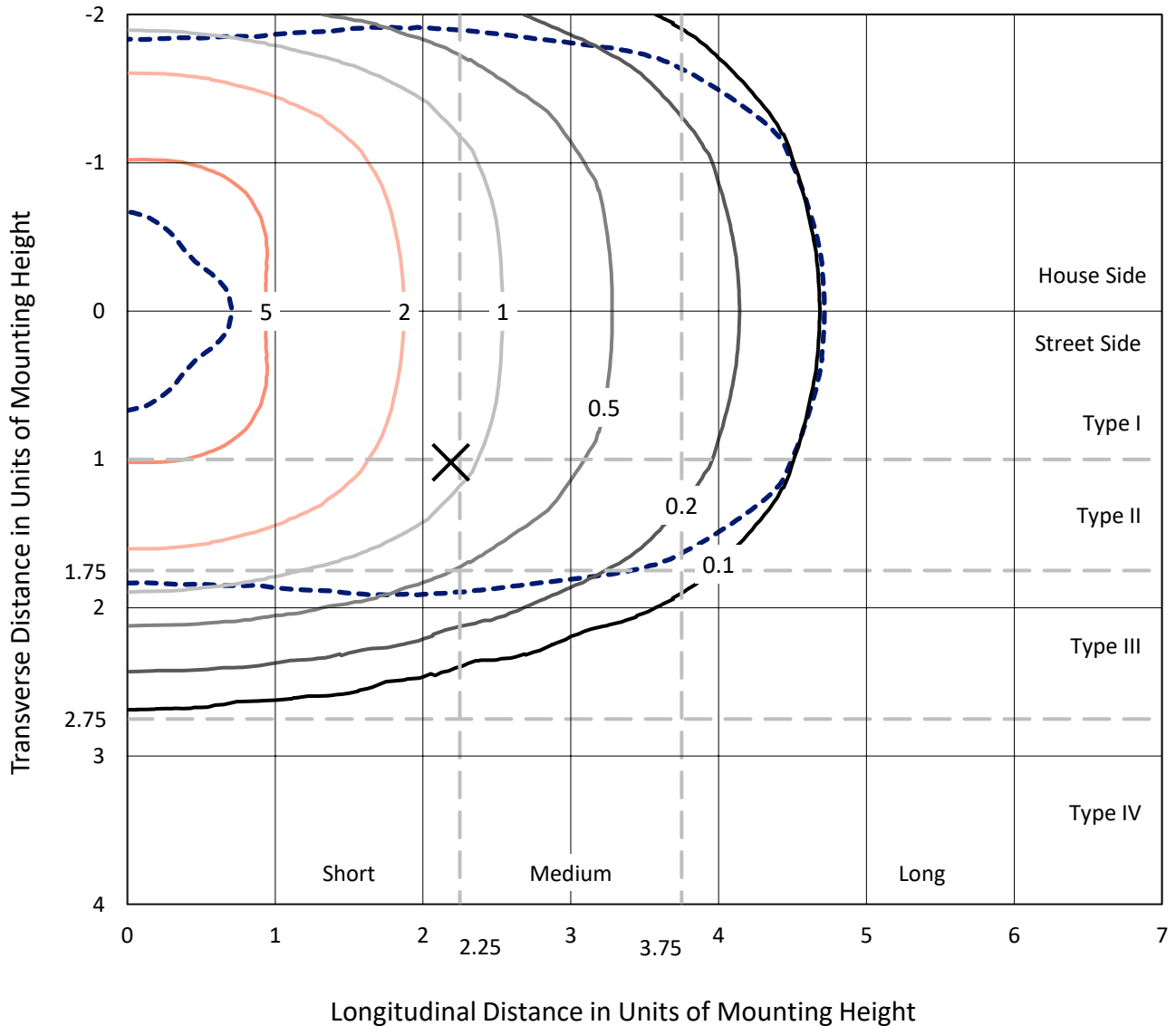




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Iso-Footcandle Lines of Horizontal Illumination

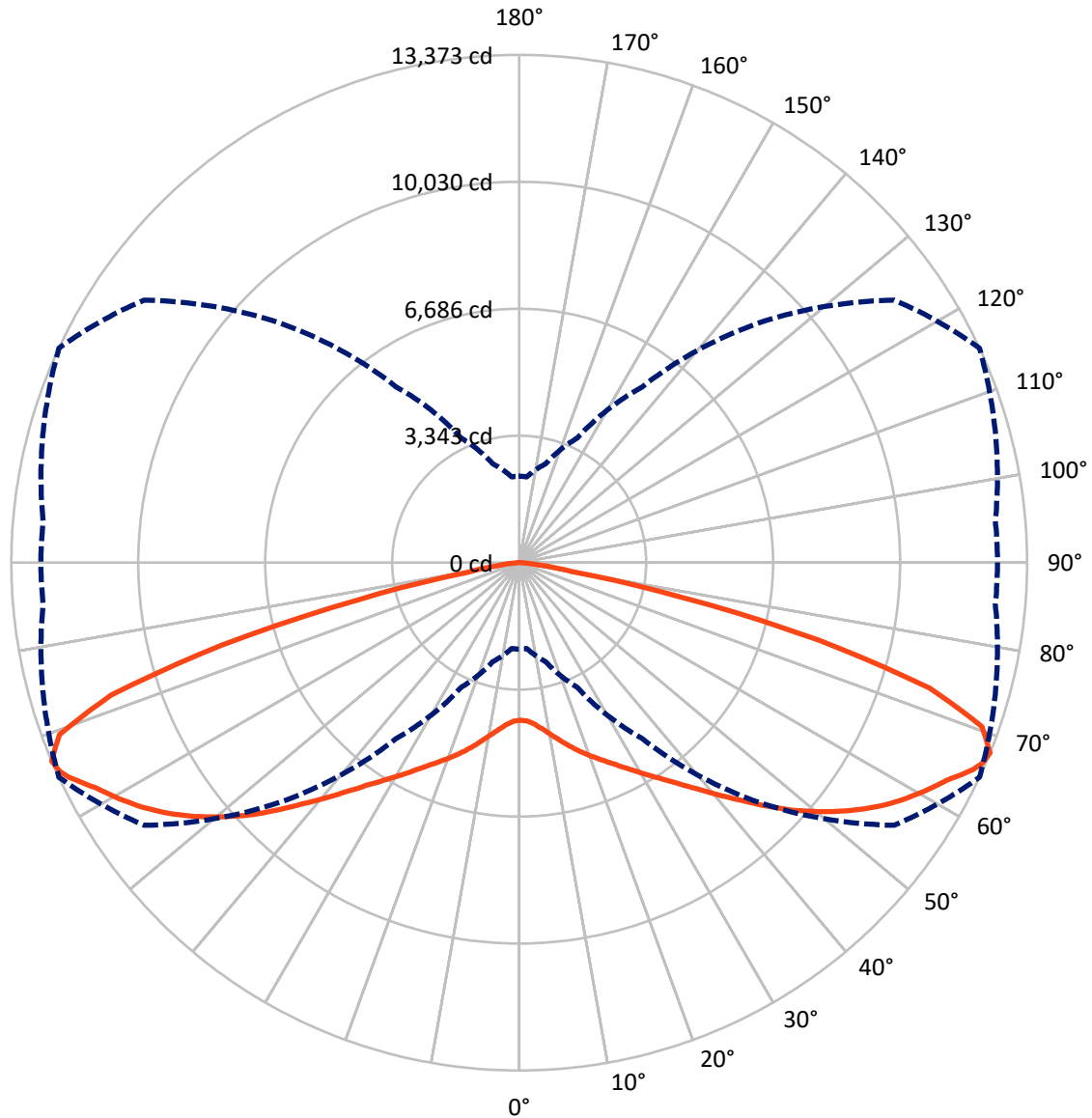
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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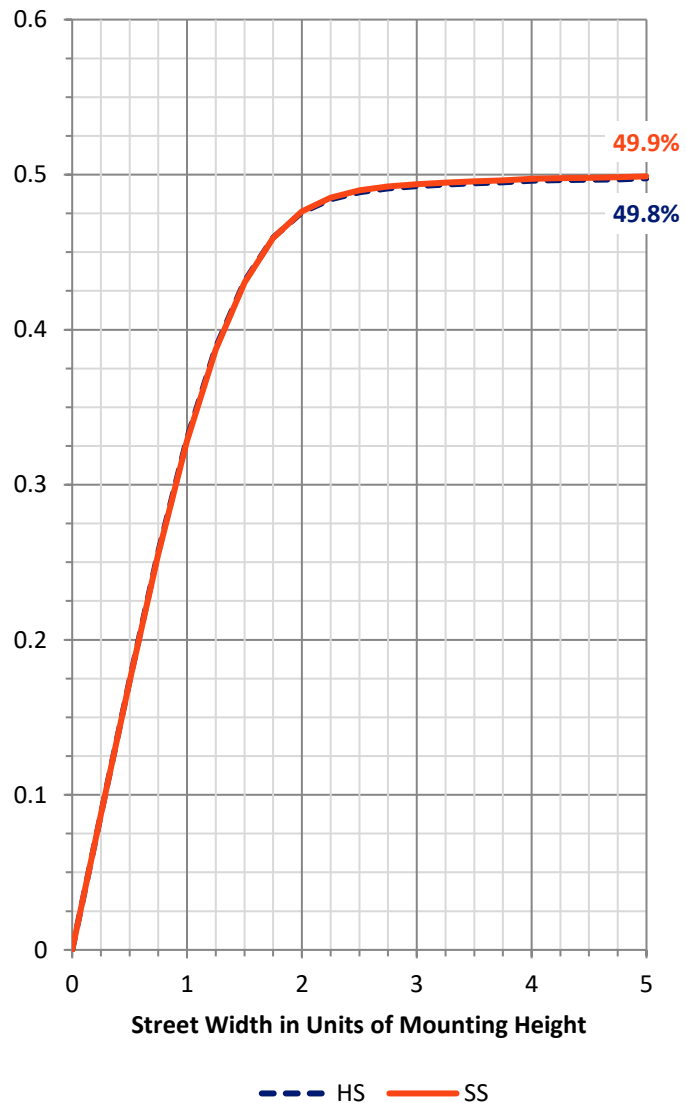
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19791.0	0.0	19791.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19791.0	0.0	19791.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	39582.0	0.0	39582.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.9	1.0
10°-20°	1368.5	3.5
20°-30°	2676.9	6.8
30°-40°	4553.1	11.5
40°-50°	7206.2	18.2
50°-60°	9555.3	24.1
60°-70°	9013.6	22.8
70°-80°	4455.9	11.3
80°-90°	343.4	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°	39582.0	100.0
0°-180°	39582.0	100.0



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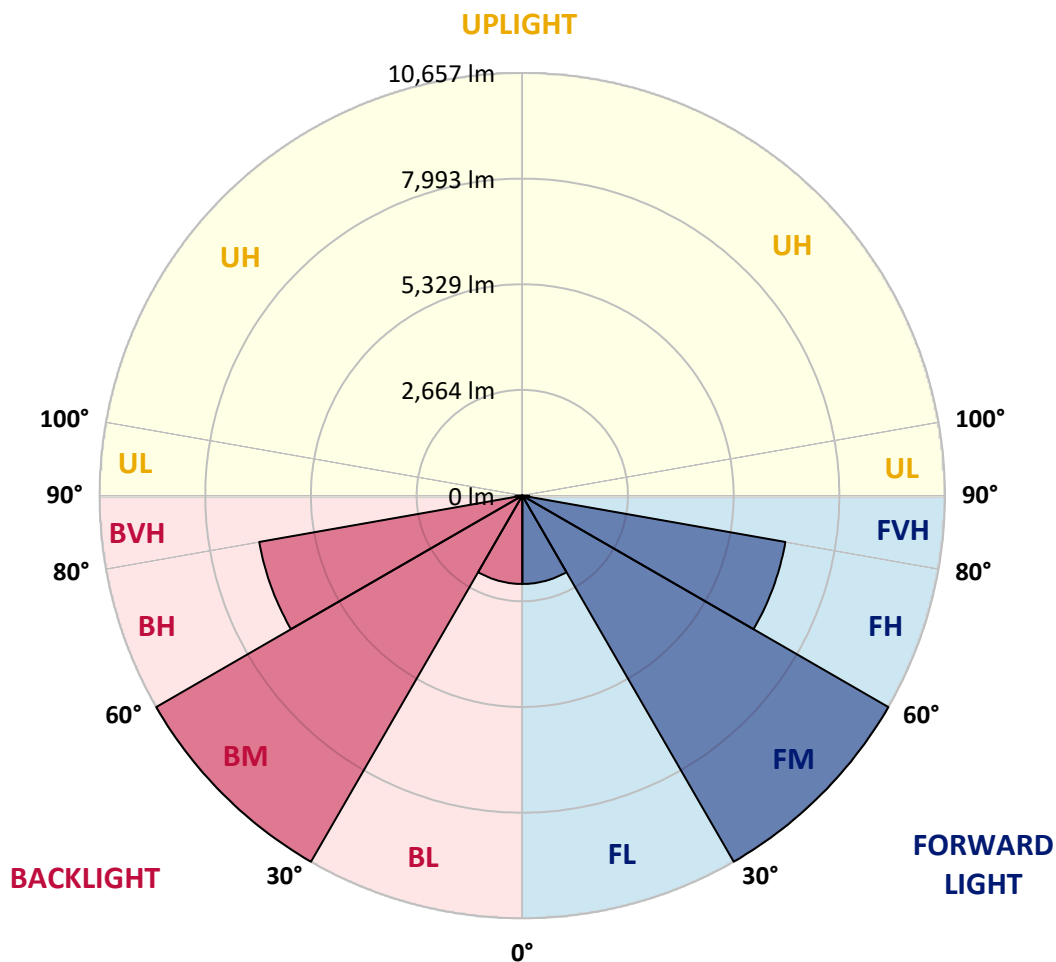
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2227.2	5.6			
FM	(30°-60°)	10657.4	26.9			
FH	(60°-80°)	6734.8	17.0			G3/7500
FVH	(80°-90°)	171.7	0.4			G2/225
BL	(0°-30°)	2227.2	5.6	B3/2500		
BM	(30°-60°)	10657.4	26.9	B5		
BH	(60°-80°)	6734.8	17.0	B5		G5
BVH	(80°-90°)	171.7	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°	4145.9	4145.9	4145.9	4145.9	4145.9	4145.9	4145.9	4145.9	4145.9	4145.9	4145.9
2.5°	4124.7	4128.9	4133.1	4139.5	4148.0	4160.7	4169.2	4175.6	4192.5	4194.6	4192.5
5°	4109.8	4114.1	4124.7	4143.7	4171.3	4209.5	4239.2	4275.2	4302.8	4321.9	4317.6
7.5°	4107.7	4116.2	4133.1	4173.4	4226.4	4292.2	4360.1	4421.5	4474.6	4517.0	4510.6
10°	4141.6	4152.2	4179.8	4239.2	4321.9	4417.3	4512.7	4603.9	4680.3	4735.4	4754.5
12.5°	4198.9	4207.4	4258.3	4347.3	4466.1	4584.8	4693.0	4805.4	4911.4	5004.7	5004.7
15°	4298.6	4313.4	4377.0	4506.4	4652.7	4790.5	4900.8	5019.6	5134.1	5240.1	5271.9
17.5°	4436.4	4457.6	4553.0	4718.4	4905.1	5032.3	5136.2	5233.8	5333.4	5435.2	5450.1
20°	4625.1	4646.3	4773.6	4972.9	5193.5	5346.2	5416.1	5439.5	5488.2	5585.8	5598.5
22.5°	4881.7	4902.9	5045.0	5269.8	5515.8	5681.2	5710.9	5655.8	5643.0	5719.4	5727.9
25°	5172.3	5191.3	5354.6	5596.4	5850.9	6031.1	6022.6	5886.9	5810.6	5857.2	5870.0
27.5°	5498.8	5526.4	5691.8	5942.1	6217.7	6376.8	6351.3	6154.1	5990.8	5982.3	5986.6
30°	5916.6	5946.3	6103.2	6342.9	6614.3	6760.6	6707.6	6442.5	6190.2	6105.3	6105.3
32.5°	6357.7	6431.9	6591.0	6841.2	7053.3	7159.3	7078.7	6760.6	6425.6	6306.8	6300.4
35°	6932.4	6972.7	7129.6	7373.5	7532.5	7615.2	7460.4	7119.0	6733.1	6593.1	6574.0
37.5°	7494.4	7528.3	7710.7	7943.9	8136.9	8132.7	7922.7	7545.3	7114.8	6957.8	6945.1
40°	8069.1	8105.1	8312.9	8527.1	8720.1	8703.1	8448.7	8026.6	7568.6	7392.6	7426.5
42.5°	8567.4	8607.7	8843.1	9148.5	9322.4	9318.1	9023.4	8548.3	8071.2	7914.3	7943.9
45°	9021.2	9057.3	9330.8	9680.8	9935.2	9967.0	9644.7	9142.1	8652.2	8450.8	8459.3
47.5°	9341.5	9409.3	9695.6	10096.4	10442.1	10554.5	10238.5	9746.5	9182.4	8972.5	8985.2
50°	9585.3	9627.7	9939.5	10395.4	10832.3	11065.5	10811.1	10306.3	9712.6	9489.9	9519.6
52.5°	9615.0	9665.9	10005.2	10531.1	11091.0	11445.1	11320.0	10853.5	10253.3	10024.3	10087.9
55°	9373.3	9402.9	9808.0	10446.3	11192.8	11727.2	11759.0	11362.4	10768.6	10594.8	10637.2
57.5°	8684.1	8760.4	9273.6	10049.7	11052.8	11877.7	12087.7	11824.7	11290.3	11118.6	11186.4
60°	7553.7	7630.1	8145.4	9129.4	10524.8	11807.8	12359.1	12234.0	11763.2	11625.4	11661.4
62.5°	5918.7	5912.4	6550.7	7757.3	9475.1	11464.2	12560.6	12628.5	12229.8	12055.9	12111.0
65°	3836.3	3855.3	4472.4	5772.4	7890.9	10590.5	12605.1	13131.0	12687.8	12424.9	12465.2
66°	3085.5	3142.8	3666.6	4864.8	7083.0	10017.9	12471.5	13279.5	12827.8	12509.7	12528.8
67.5°	2277.6	2267.0	2697.5	3622.1	5655.8	8930.0	12053.8	13372.8	12986.8	12586.0	12594.5
70°	1300.0	1297.8	1450.5	1989.2	3325.2	6287.7	10160.0	12925.3	13309.2	12861.7	12838.4
72.5°	950.0	943.7	964.9	1098.5	1622.3	3174.6	7008.7	11296.7	13143.8	12817.2	12751.5
75°	797.4	793.1	788.9	805.8	909.8	1437.8	3719.6	8126.3	11404.8	12030.4	11962.6
77.5°	651.0	651.0	653.2	648.9	653.2	757.1	1541.7	4355.8	6945.1	7753.1	7941.8
80°	509.0	506.8	542.9	528.0	494.1	485.6	682.8	1401.7	2305.1	2292.4	1891.6
82.5°	375.4	349.9	413.5	402.9	364.8	309.6	398.7	598.0	769.8	500.5	371.1
85°	237.5	235.4	292.6	267.2	222.7	146.3	190.9	256.6	318.1	193.0	156.9
87.5°	42.4	40.3	93.3	67.9	67.9	42.4	53.0	70.0	103.9	72.1	53.0
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)