

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: P455671

Luminaire Tested: **GALN-SA6D-827-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
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-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35369 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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

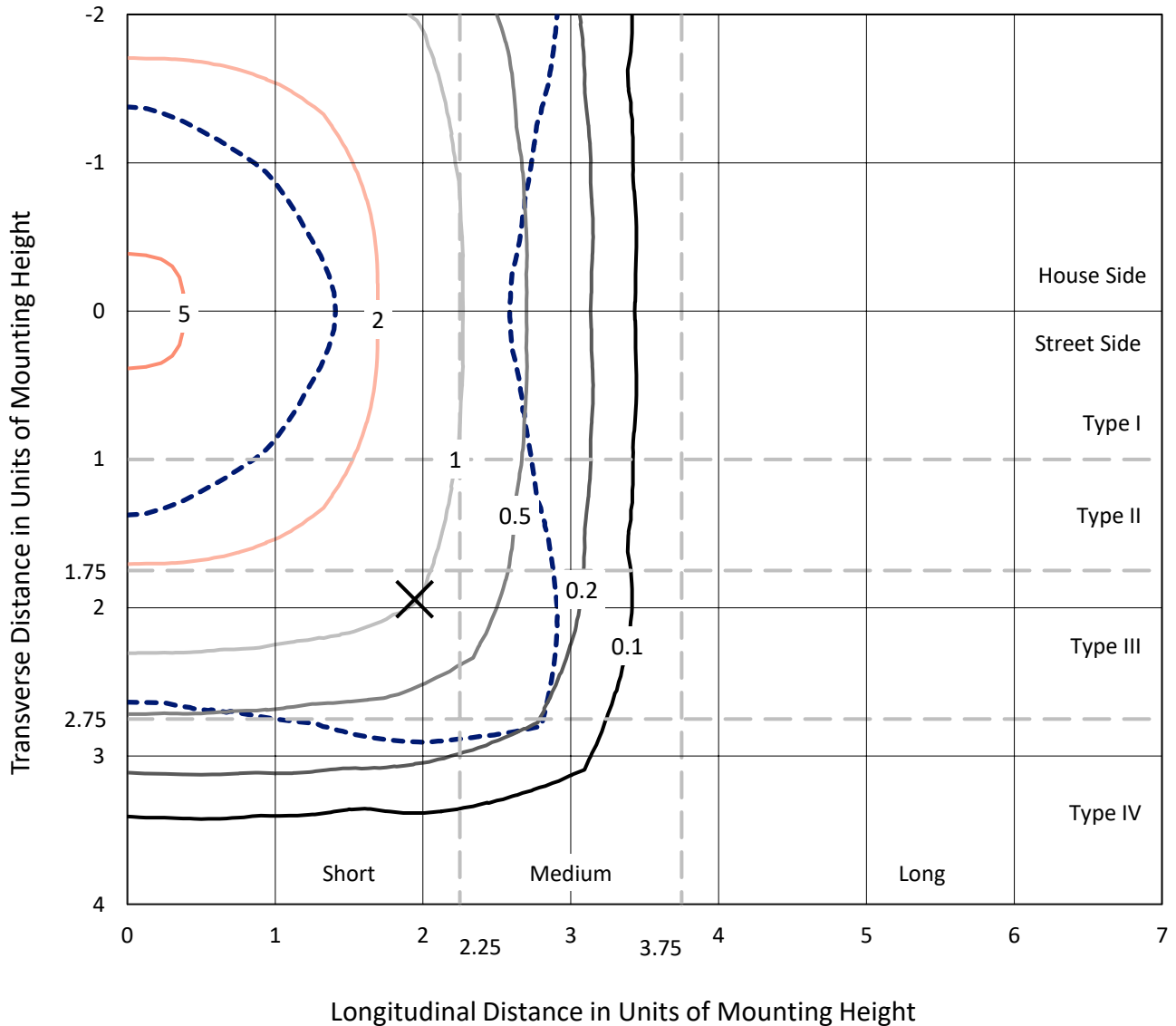




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Iso-Footcandle Lines of Horizontal Illumination

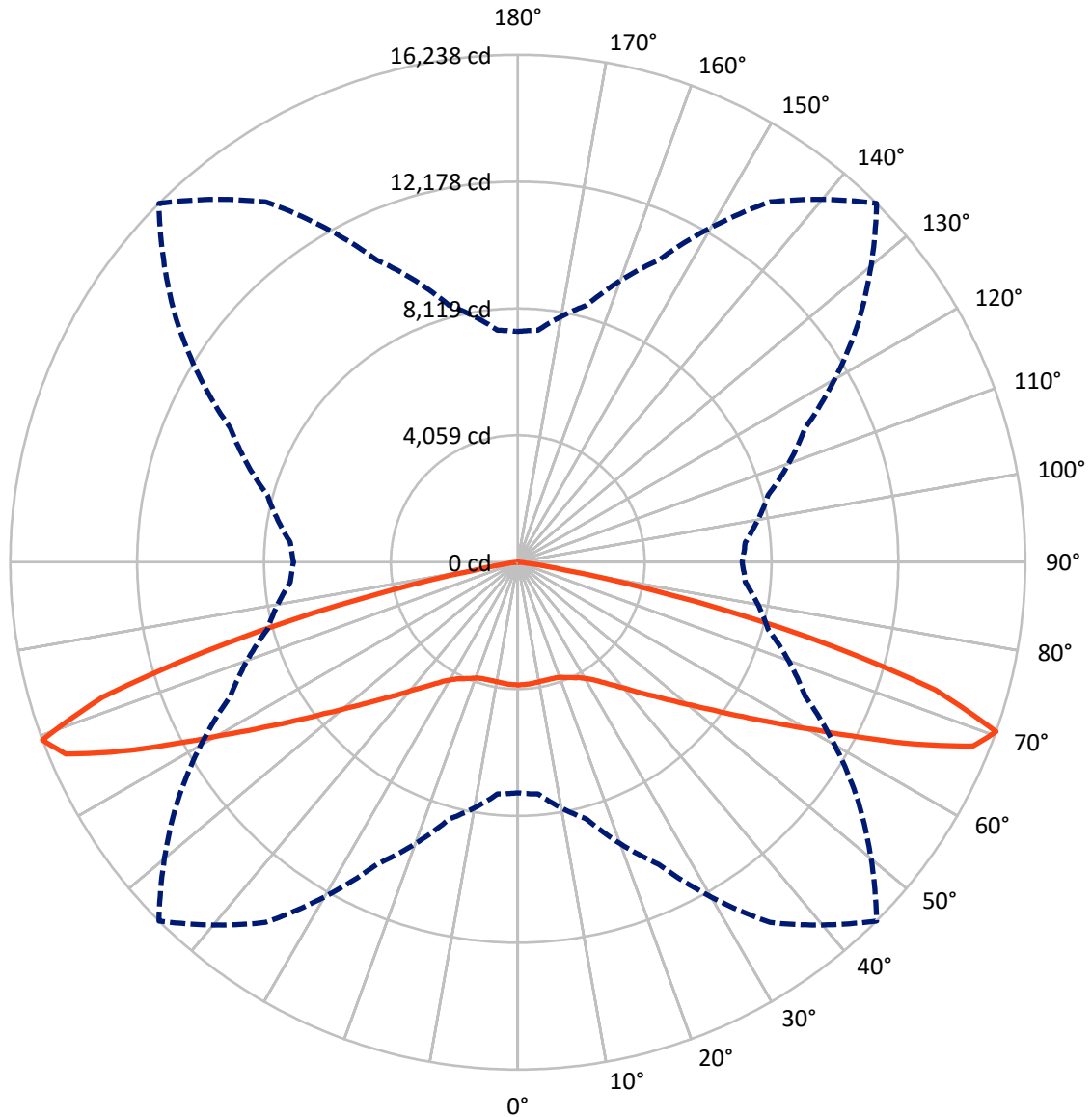
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17684.5	0.0	17684.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17684.5	0.0	17684.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35369.0	0.0	35369.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.4	1.1
10°-20°	1092.9	3.1
20°-30°	1869.2	5.3
30°-40°	2966.8	8.4
40°-50°	4786.3	13.5
50°-60°	7787.4	22.0
60°-70°	11289.0	31.9
70°-80°	5007.4	14.2
80°-90°	197.5	0.6
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°	35369.0	100.0
0°-180°	35369.0	100.0

Coefficient of Utilization



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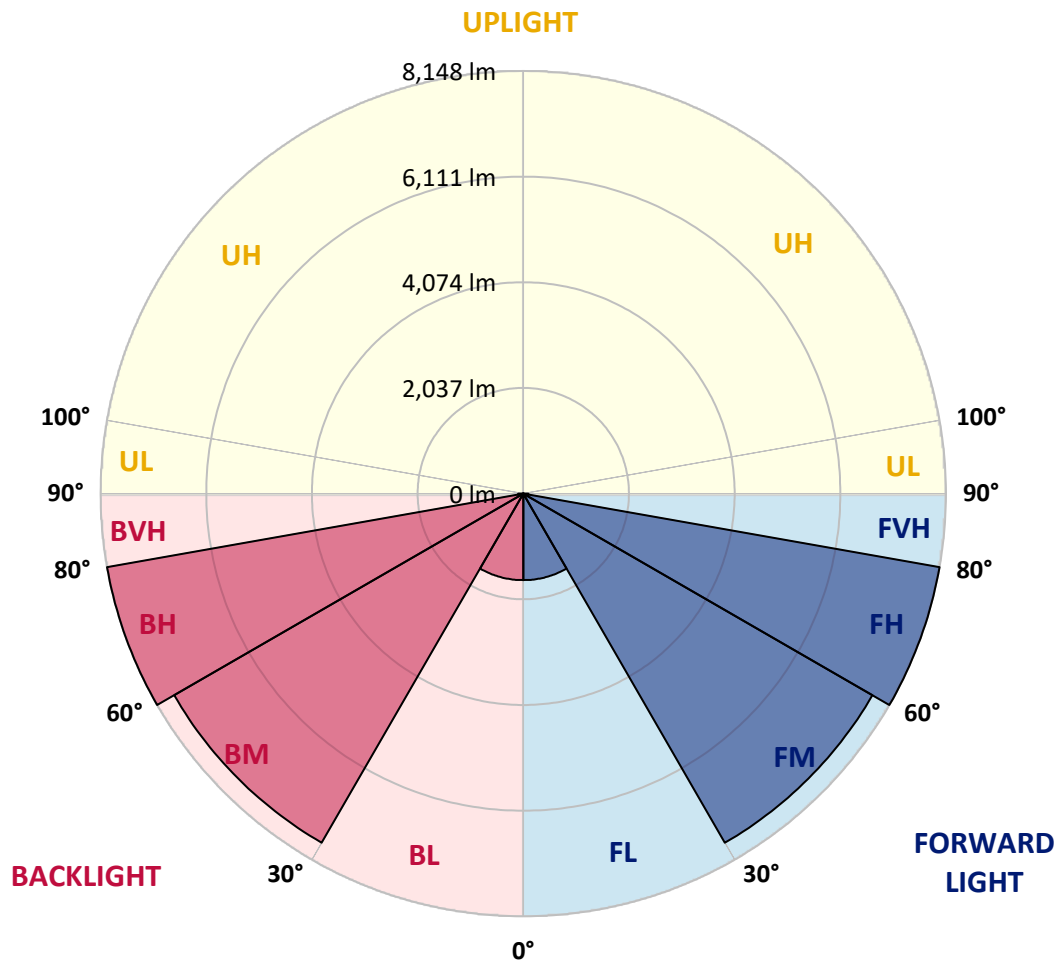
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1667.3	4.7			
FM (30°-60°)	7770.3	22.0			
FH (60°-80°)	8148.2	23.0			G4/12000
FVH (80°-90°)	98.8	0.3			G1/100
BL (0°-30°)	1667.3	4.7	B3/2500		
BM (30°-60°)	7770.3	22.0	B4/8500		
BH (60°-80°)	8148.2	23.0	B5		G4/12000
BVH (80°-90°)	98.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3927.6	3927.6	3927.6	3927.6	3927.6	3927.6	3927.6	3927.6	3927.6	3927.6	3927.6
2.5°	3927.6	3931.3	3925.7	3922.0	3920.1	3920.1	3918.2	3920.1	3931.3	3933.2	3927.6
5°	3916.4	3920.1	3918.2	3914.5	3912.6	3912.6	3910.8	3908.9	3918.2	3922.0	3920.1
7.5°	3901.5	3903.3	3901.5	3899.6	3901.5	3899.6	3894.0	3890.3	3897.7	3897.7	3895.9
10°	3875.4	3879.1	3877.2	3879.1	3882.8	3882.8	3875.4	3867.9	3869.8	3866.0	3866.0
12.5°	3843.7	3849.3	3851.1	3858.6	3867.9	3879.1	3862.3	3845.5	3841.8	3840.0	3838.1
15°	3823.2	3828.8	3836.2	3843.7	3860.5	3884.7	3860.5	3834.4	3826.9	3819.4	3815.7
17.5°	3817.6	3825.0	3836.2	3847.4	3869.8	3894.0	3873.5	3847.4	3828.8	3817.6	3813.9
20°	3832.5	3838.1	3854.9	3875.4	3907.1	3931.3	3910.8	3882.8	3854.9	3838.1	3832.5
22.5°	3862.3	3871.6	3892.1	3929.4	3974.2	4009.6	3981.6	3935.0	3890.3	3867.9	3860.5
25°	3927.6	3935.0	3959.2	4009.6	4061.8	4095.3	4065.5	4011.4	3949.9	3920.1	3910.8
27.5°	4026.4	4037.5	4063.6	4123.3	4166.2	4184.8	4164.3	4127.0	4082.3	4050.6	4043.1
30°	4166.2	4179.2	4218.4	4281.7	4309.7	4320.9	4311.6	4287.3	4255.6	4222.1	4214.6
32.5°	4354.4	4361.9	4406.6	4466.3	4492.4	4496.1	4484.9	4473.7	4421.5	4365.6	4361.9
35°	4565.1	4578.1	4632.2	4703.0	4727.2	4729.1	4706.7	4690.0	4628.4	4583.7	4583.7
37.5°	4844.7	4850.3	4902.5	4982.6	5008.7	5001.3	4990.1	4975.2	4909.9	4852.1	4854.0
40°	5172.7	5183.9	5228.7	5321.9	5321.9	5312.6	5320.0	5308.8	5243.6	5187.7	5189.5
42.5°	5562.3	5567.9	5622.0	5720.8	5713.3	5694.7	5702.1	5687.2	5646.2	5582.8	5560.5
45°	5978.0	6000.4	6093.6	6188.7	6173.7	6114.1	6143.9	6140.2	6102.9	6007.8	6013.4
47.5°	6479.5	6516.7	6606.2	6719.9	6703.1	6609.9	6643.5	6665.9	6613.7	6509.3	6490.6
50°	7044.3	7068.5	7200.8	7307.1	7292.2	7193.4	7269.8	7273.5	7143.1	6995.8	6995.8
52.5°	7646.3	7670.6	7849.5	8015.4	8024.8	7881.2	7942.7	7939.0	7726.5	7532.6	7495.4
55°	8321.1	8332.3	8563.5	8807.7	8859.8	8720.0	8727.5	8652.9	8377.1	8151.5	8131.0
57.5°	9018.3	9059.3	9314.7	9631.6	9786.3	9700.5	9661.4	9461.9	9195.4	8936.3	8923.2
60°	9790.0	9791.9	10123.7	10498.3	10811.5	10869.3	10709.0	10442.4	10097.6	9754.6	9739.7
62.5°	10325.0	10405.1	10824.6	11458.3	12019.4	12343.8	11920.6	11361.4	10682.9	10129.3	10073.3
65°	10435.0	10489.0	11128.4	12202.1	13348.5	14047.5	13068.9	11879.6	10722.0	9983.9	9946.6
67.5°	9545.8	9603.6	10464.8	12112.6	14280.5	15714.0	13814.5	11629.8	10058.4	9145.0	9072.3
70°	7383.5	7448.8	8513.1	10662.4	14073.6	16237.8	13283.2	10144.2	8295.0	7309.0	7176.6
72.5°	3925.7	4166.2	5075.8	7318.3	11422.9	13980.4	10891.7	7402.2	5349.8	4373.1	4197.8
75°	1433.5	1463.3	1970.3	3245.3	6645.4	9586.8	6900.7	3530.5	2030.0	1567.7	1487.5
77.5°	592.8	590.9	648.7	980.5	2413.9	4909.9	2693.6	1036.4	646.8	598.4	590.9
80°	350.4	350.4	385.9	408.2	635.6	1481.9	710.2	462.3	387.7	354.2	359.8
82.5°	156.6	165.9	244.2	257.2	307.6	406.4	343.0	294.5	253.5	175.2	158.4
85°	85.7	74.6	128.6	134.2	147.3	151.0	162.2	160.3	147.3	85.7	87.6
87.5°	16.8	20.5	37.3	28.0	31.7	28.0	37.3	52.2	54.1	29.8	24.2
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)