

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: P529706

Luminaire Tested: **GALN-SA4D-827-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-827-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20263 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

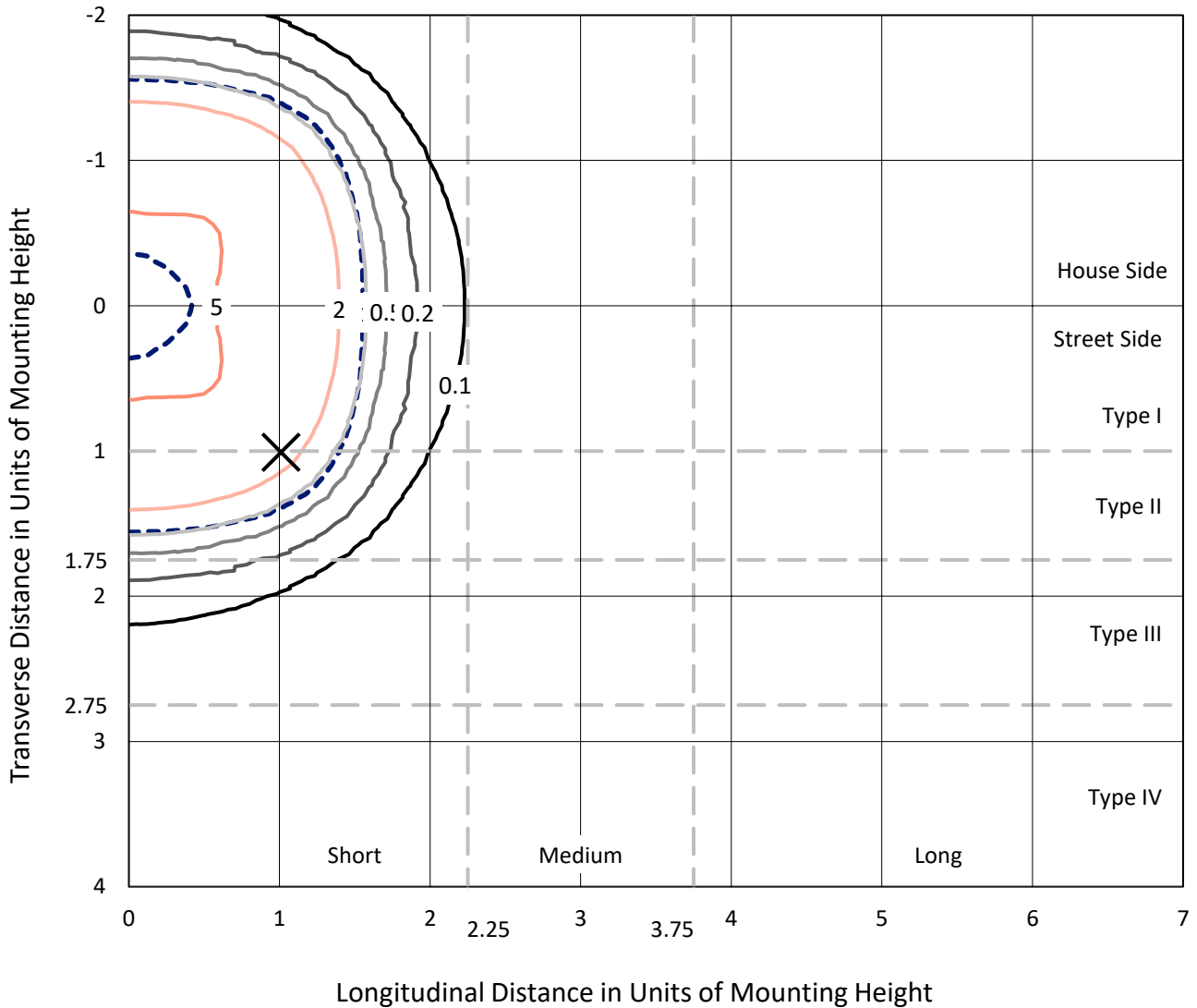
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

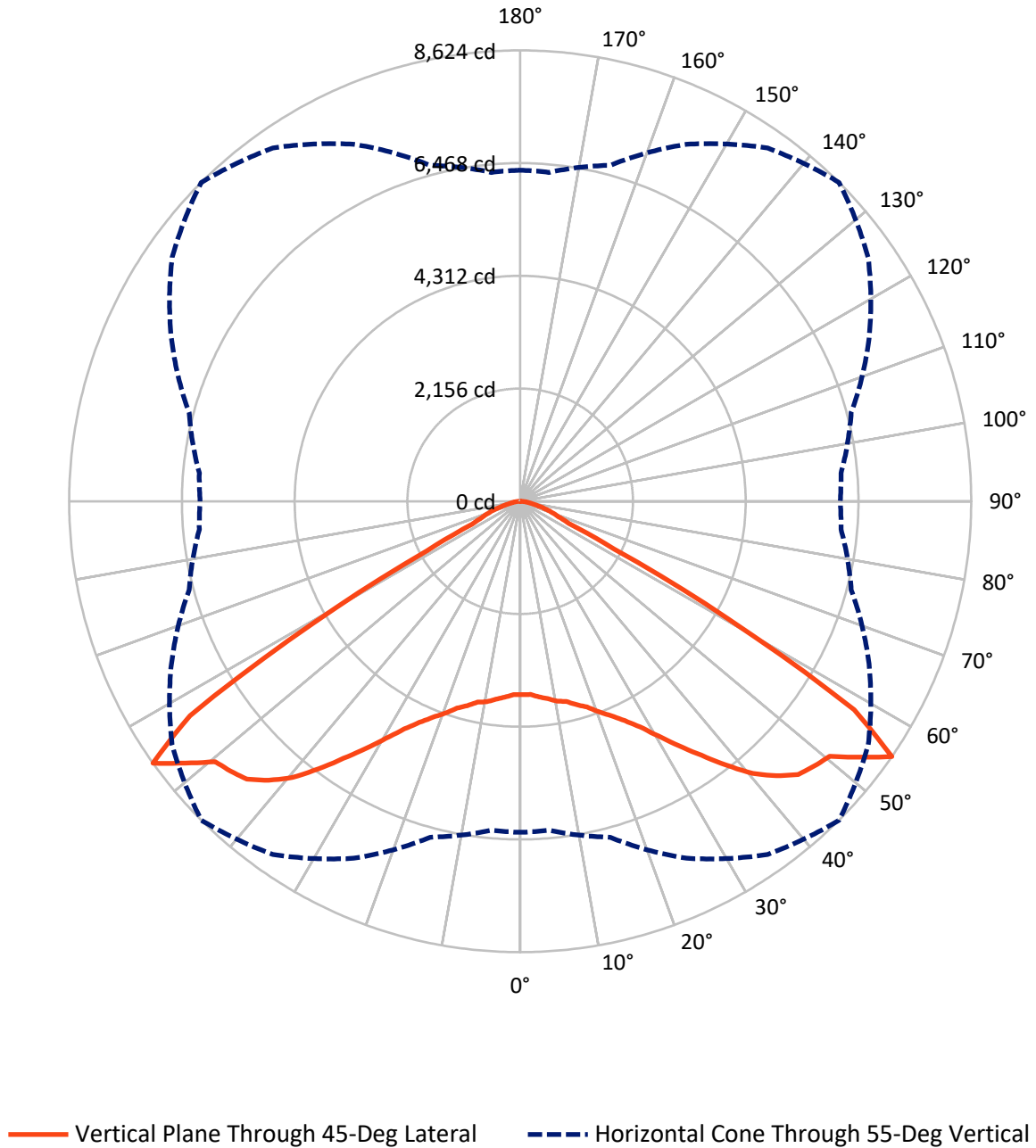
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10131.5	0.0	10131.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10131.5	0.0	10131.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20263.0	0.0	20263.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.4	1.8
10°-20°	1145.2	5.7
20°-30°	2135.4	10.5
30°-40°	3575.4	17.6
40°-50°	5563.6	27.5
50°-60°	5776.7	28.5
60°-70°	1225.1	6.0
70°-80°	403.5	2.0
80°-90°	76.8	0.4
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°	20263.0	100.0
0°-180°	20263.0	100.0

Coefficient of Utilization

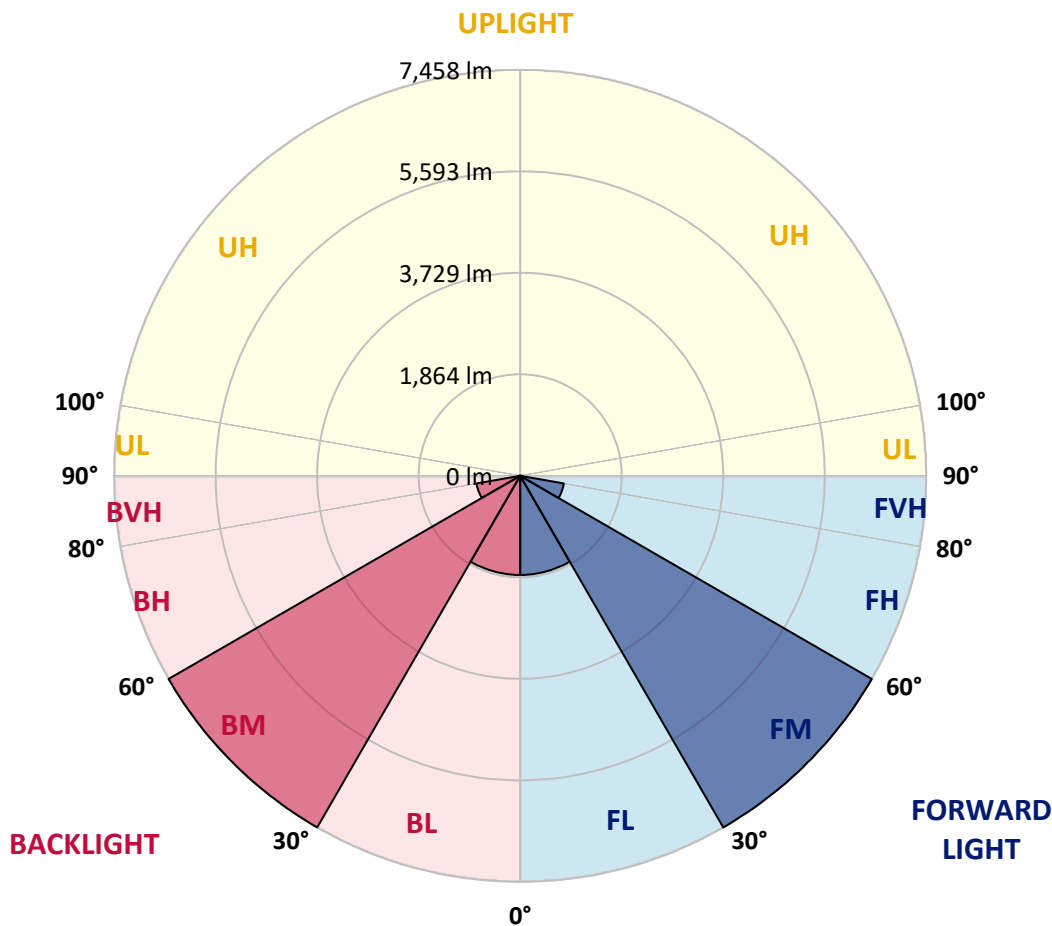


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1821.0	9.0			
FM (30°-60°)	7457.8	36.8			
FH (60°-80°)	814.3	4.0			G1/1800
FVH (80°-90°)	38.4	0.2			G1/100
BL (0°-30°)	1821.0	9.0	B3/2500		
BM (30°-60°)	7457.8	36.8	B4/8500		
BH (60°-80°)	814.3	4.0	B2/1000		G1/1800
BVH (80°-90°)	38.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3699.7	3699.7	3699.7	3699.7	3699.7	3699.7	3699.7	3699.7	3699.7	3699.7	3699.7
2.5°	3743.8	3726.7	3697.3	3719.3	3736.4	3699.7	3714.4	3721.8	3716.9	3697.3	3704.6
5°	3797.7	3787.9	3763.4	3780.5	3758.5	3758.5	3743.8	3724.2	3753.6	3748.7	3760.9
7.5°	3797.7	3785.4	3834.4	3802.6	3812.4	3812.4	3787.9	3768.3	3783.0	3760.9	3748.7
10°	3873.6	3890.7	3868.7	3876.0	3871.1	3888.3	3851.5	3839.3	3827.0	3819.7	3805.0
12.5°	3964.2	3951.9	3959.3	3954.4	3971.5	3927.4	3905.4	3878.5	3900.5	3868.7	3890.7
15°	4037.6	4030.3	4037.6	4057.2	4040.1	4037.6	3998.4	3971.5	3937.2	3944.6	3910.3
17.5°	4138.0	4130.7	4133.1	4150.3	4147.8	4135.6	4106.2	4054.8	4042.5	4022.9	4000.9
20°	4287.4	4275.1	4270.2	4277.6	4289.8	4299.6	4240.8	4221.3	4179.6	4147.8	4111.1
22.5°	4414.7	4409.8	4429.4	4397.6	4424.5	4453.9	4397.6	4387.8	4284.9	4267.8	4228.6
25°	4591.0	4583.6	4571.4	4617.9	4649.7	4647.3	4593.4	4539.6	4461.2	4441.6	4441.6
27.5°	4777.1	4735.4	4799.1	4811.4	4867.7	4884.8	4838.3	4759.9	4686.5	4644.9	4654.6
30°	5009.7	4970.5	4985.2	5073.3	5146.8	5210.5	5092.9	4977.9	4875.0	4801.6	4789.3
32.5°	5242.3	5203.1	5247.2	5332.9	5479.8	5575.3	5460.2	5259.4	5139.5	5031.7	5053.8
35°	5430.8	5460.2	5531.2	5661.0	5812.8	5967.1	5783.4	5629.2	5457.8	5337.8	5354.9
37.5°	5734.4	5825.0	5881.4	6030.7	6246.2	6405.3	6214.4	6013.6	5829.9	5673.2	5619.4
40°	6131.1	6192.3	6256.0	6432.3	6686.9	6846.1	6664.9	6402.9	6221.7	6060.1	6052.8
42.5°	6566.9	6625.7	6691.8	6907.3	7059.1	7179.1	7012.6	6873.0	6672.2	6544.9	6537.6
45°	7073.8	7032.2	7105.6	7247.6	7375.0	7453.3	7345.6	7277.0	7132.6	7015.0	7002.8
47.5°	7411.7	7375.0	7507.2	7634.5	7654.1	7568.4	7590.4	7654.1	7502.3	7308.8	7370.1
50°	7607.6	7607.6	7695.7	7813.2	7776.5	7666.3	7840.2	7845.1	7693.3	7521.9	7521.9
52.5°	7267.2	7343.1	7592.9	7977.3	8099.7	8131.6	8092.4	7925.9	7529.2	7179.1	7161.9
55°	6331.9	6314.7	6652.6	7534.1	8246.6	8623.7	8124.2	7357.8	6552.3	6158.0	6118.9
57.5°	4118.4	4138.0	4642.4	5541.0	6826.5	7529.2	6686.9	5609.6	4642.4	4098.8	4150.3
60°	1853.5	1919.6	2225.7	2896.6	4000.9	4573.8	4010.7	3043.5	2335.9	2027.4	2054.3
62.5°	1065.1	1077.4	1089.6	1292.8	1704.2	2015.1	1770.3	1366.3	1204.7	1150.8	1150.8
65°	898.6	891.3	893.7	910.9	954.9	1018.6	991.7	954.9	959.8	954.9	947.6
67.5°	763.9	773.7	766.4	778.6	781.1	790.9	808.0	822.7	825.2	830.1	825.2
70°	626.8	629.3	634.2	644.0	646.4	653.8	678.2	690.5	697.8	697.8	707.6
72.5°	479.9	477.5	482.4	492.2	504.4	506.8	528.9	546.0	555.8	543.6	546.0
75°	315.9	318.3	325.7	333.0	350.1	367.3	374.6	391.8	394.2	399.1	386.9
77.5°	188.5	193.4	200.8	215.5	230.2	244.9	262.0	274.2	279.1	274.2	259.5
80°	122.4	122.4	132.2	144.5	161.6	173.8	183.6	193.4	200.8	193.4	188.5
82.5°	75.9	75.9	88.1	102.8	115.1	122.4	137.1	149.4	156.7	151.8	144.5
85°	39.2	41.6	51.4	63.7	73.5	78.4	75.9	68.6	61.2	58.8	53.9
87.5°	12.2	12.2	14.7	14.7	12.2	12.2	14.7	12.2	14.7	14.7	14.7
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)