

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: P651380

Luminaire Tested: **GALN-SA5D-840-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651380
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-SA5D-840-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 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: 34171.5 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

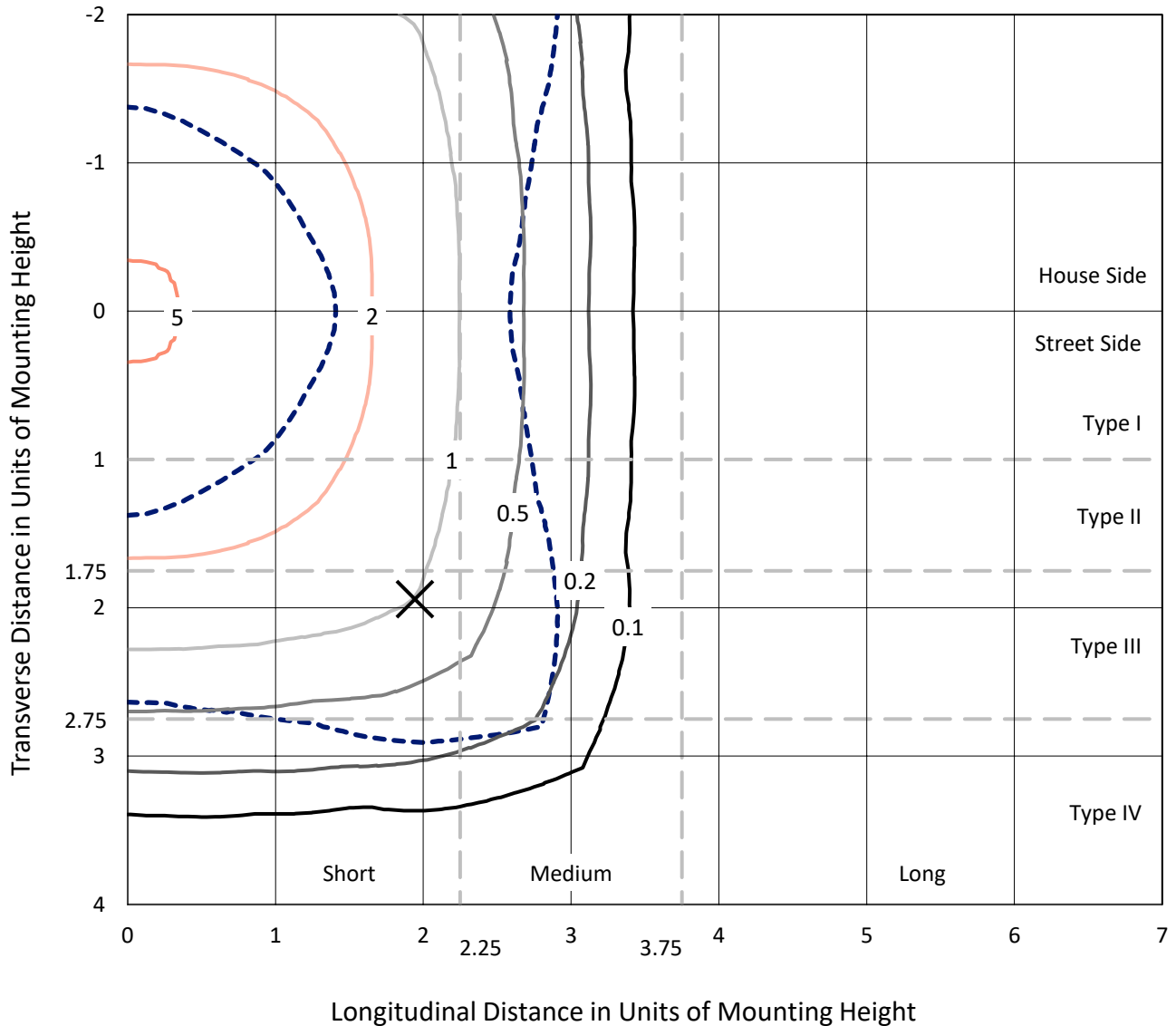
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

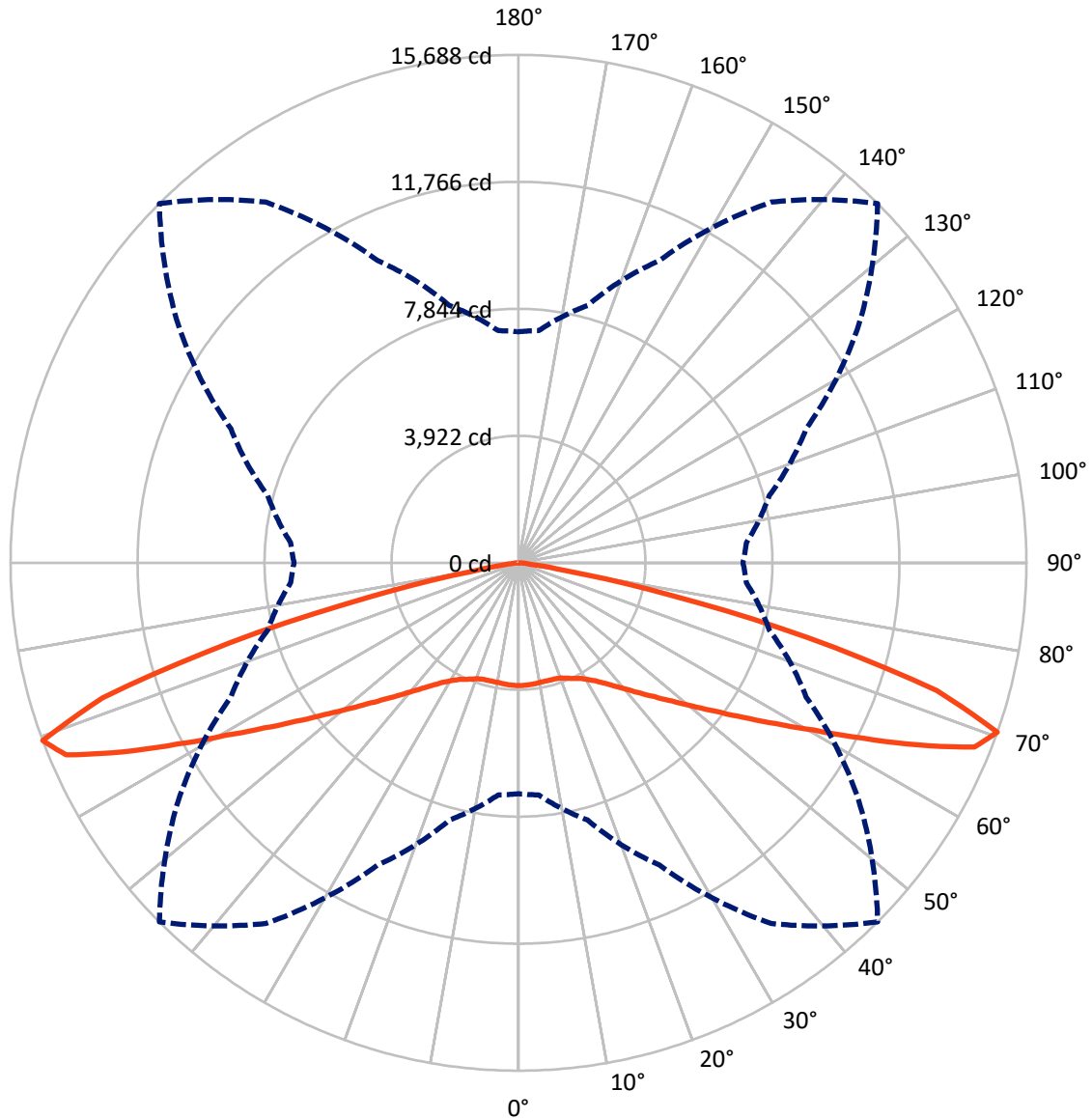
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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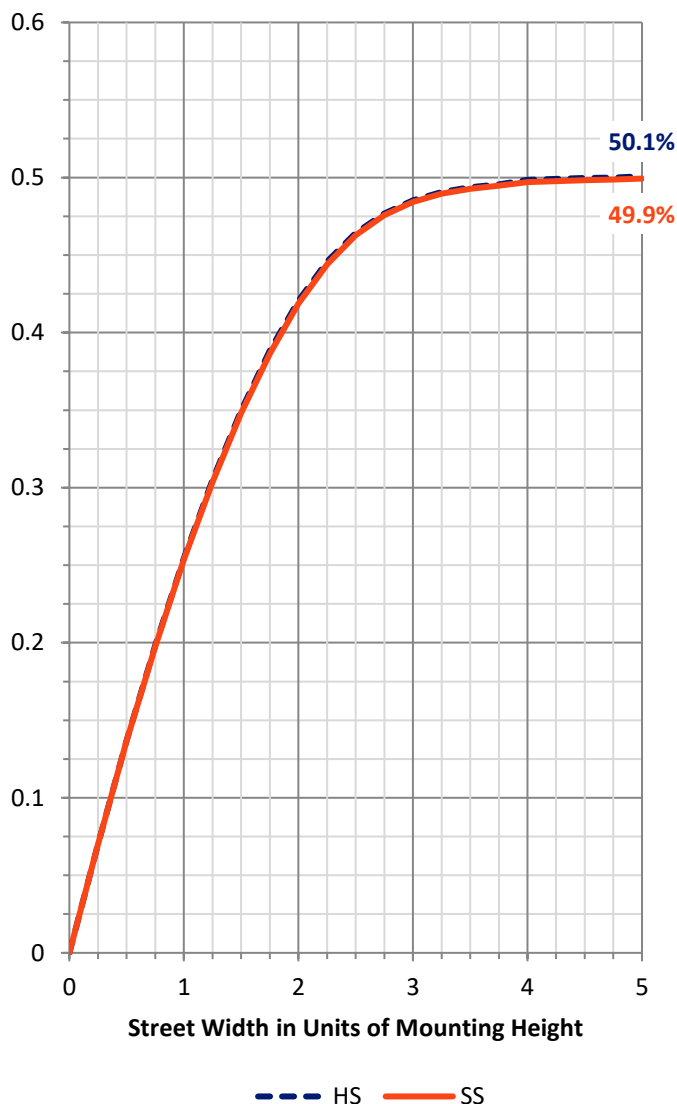
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17085.8	0.0	17085.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17085.8	0.0	17085.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	34171.5	0.0	34171.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.8	1.1
10°-20°	1055.9	3.1
20°-30°	1805.9	5.3
30°-40°	2866.4	8.4
40°-50°	4624.3	13.5
50°-60°	7523.8	22.0
60°-70°	10906.8	31.9
70°-80°	4837.9	14.2
80°-90°	190.8	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°	34171.5	100.0
0°-180°	34171.5	100.0

Coefficient of Utilization

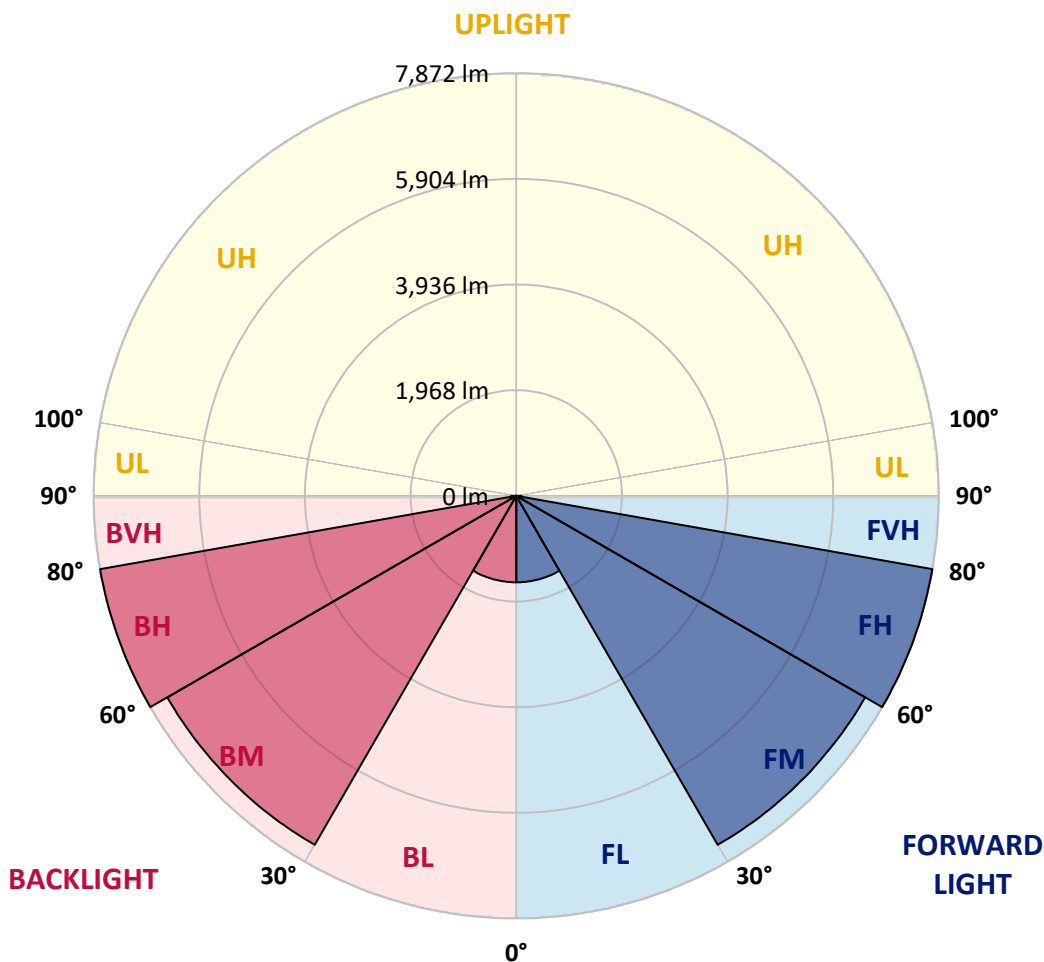


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1610.8	4.7			
FM (30°-60°)	7507.2	22.0			
FH (60°-80°)	7872.3	23.0			G4/12000
FVH (80°-90°)	95.4	0.3			G1/100
BL (0°-30°)	1610.8	4.7	B3/2500		
BM (30°-60°)	7507.2	22.0	B4/8500		
BH (60°-80°)	7872.3	23.0	B5		G4/12000
BVH (80°-90°)	95.4	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°	3794.6	3794.6	3794.6	3794.6	3794.6	3794.6	3794.6	3794.6	3794.6	3794.6	3794.6
2.5°	3794.6	3798.2	3792.8	3789.2	3787.4	3787.4	3785.6	3787.4	3798.2	3800.0	3794.6
5°	3783.7	3787.4	3785.6	3782.0	3780.2	3780.2	3778.4	3776.6	3785.6	3789.2	3787.4
7.5°	3769.4	3771.2	3769.4	3767.6	3769.4	3767.6	3762.1	3758.6	3765.7	3765.7	3764.0
10°	3744.1	3747.7	3746.0	3747.7	3751.4	3751.4	3744.1	3737.0	3738.7	3735.1	3735.1
12.5°	3713.5	3719.0	3720.8	3728.0	3737.0	3747.7	3731.5	3715.4	3711.8	3709.9	3708.1
15°	3693.8	3699.1	3706.4	3713.5	3729.8	3753.1	3729.8	3704.5	3697.4	3690.1	3686.5
17.5°	3688.3	3695.5	3706.4	3717.1	3738.7	3762.1	3742.4	3717.1	3699.1	3688.3	3684.8
20°	3702.8	3708.1	3724.4	3744.1	3774.7	3798.2	3778.4	3751.4	3724.4	3708.1	3702.8
22.5°	3731.5	3740.5	3760.4	3796.4	3839.6	3873.8	3846.8	3801.8	3758.6	3737.0	3729.8
25°	3794.6	3801.8	3825.2	3873.8	3924.3	3956.7	3927.9	3875.7	3816.2	3787.4	3778.4
27.5°	3890.0	3900.8	3926.0	3983.6	4025.1	4043.1	4023.3	3987.3	3944.0	3913.4	3906.3
30°	4025.1	4037.7	4075.6	4136.8	4163.8	4174.6	4165.6	4142.2	4111.6	4079.1	4072.0
32.5°	4207.0	4214.2	4257.4	4315.1	4340.2	4343.8	4333.1	4322.2	4271.9	4217.8	4214.2
35°	4410.5	4423.2	4475.4	4543.8	4567.2	4569.0	4547.4	4531.1	4471.8	4428.5	4428.5
37.5°	4680.7	4686.1	4736.5	4813.9	4839.1	4832.0	4821.1	4806.7	4743.7	4687.8	4689.7
40°	4997.6	5008.4	5051.6	5141.7	5141.7	5132.7	5139.9	5129.1	5066.0	5012.0	5013.8
42.5°	5374.0	5379.5	5431.7	5527.1	5519.9	5501.9	5509.1	5494.7	5455.1	5393.8	5372.2
45°	5775.7	5797.3	5887.3	5979.1	5964.7	5907.1	5935.9	5932.3	5896.3	5804.4	5809.9
47.5°	6260.1	6296.1	6382.5	6492.4	6476.2	6386.1	6418.6	6440.2	6389.7	6288.9	6270.9
50°	6805.8	6829.2	6957.0	7059.7	7045.3	6949.9	7023.7	7027.3	6901.2	6758.9	6758.9
52.5°	7387.4	7410.9	7583.8	7744.0	7753.1	7614.4	7673.8	7670.2	7464.9	7277.6	7241.6
55°	8039.4	8050.2	8273.5	8509.5	8559.9	8424.8	8432.0	8360.0	8093.4	7875.5	7855.7
57.5°	8712.9	8752.5	8999.3	9305.5	9454.9	9372.1	9334.3	9141.6	8884.1	8633.7	8621.1
60°	9458.6	9460.3	9780.9	10142.9	10445.5	10501.3	10346.4	10088.9	9755.7	9424.3	9409.9
62.5°	9975.4	10052.9	10458.1	11070.4	11612.4	11925.8	11517.0	10976.7	10321.2	9786.3	9732.3
65°	10081.7	10133.9	10751.6	11789.0	12896.6	13571.9	12626.4	11477.4	10359.0	9645.8	9609.9
67.5°	9222.7	9278.4	10110.5	11702.5	13797.0	15182.0	13346.8	11236.1	9717.9	8835.5	8765.2
70°	7133.5	7196.6	8224.9	10301.4	13597.1	15688.0	12833.5	9800.8	8014.2	7061.5	6933.6
72.5°	3792.8	4025.1	4904.0	7070.5	11036.2	13507.0	10522.9	7151.5	5168.7	4225.0	4055.7
75°	1385.0	1413.7	1903.6	3135.4	6420.4	9262.3	6667.1	3411.0	1961.2	1514.6	1437.2
77.5°	572.7	570.9	626.7	947.3	2332.3	4743.7	2602.4	1001.3	624.9	578.1	570.9
80°	338.6	338.6	372.8	394.4	614.1	1431.7	686.2	446.7	374.6	342.2	347.6
82.5°	151.3	160.3	235.9	248.5	297.1	392.6	331.4	284.5	244.9	169.3	153.1
85°	82.8	72.1	124.3	129.7	142.3	145.9	156.7	154.9	142.3	82.8	84.6
87.5°	16.2	19.8	36.0	27.0	30.6	27.0	36.0	50.5	52.2	28.8	23.4
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)