

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: P646869

Luminaire Tested: **GALN-SA4C-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-835-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19221.1 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

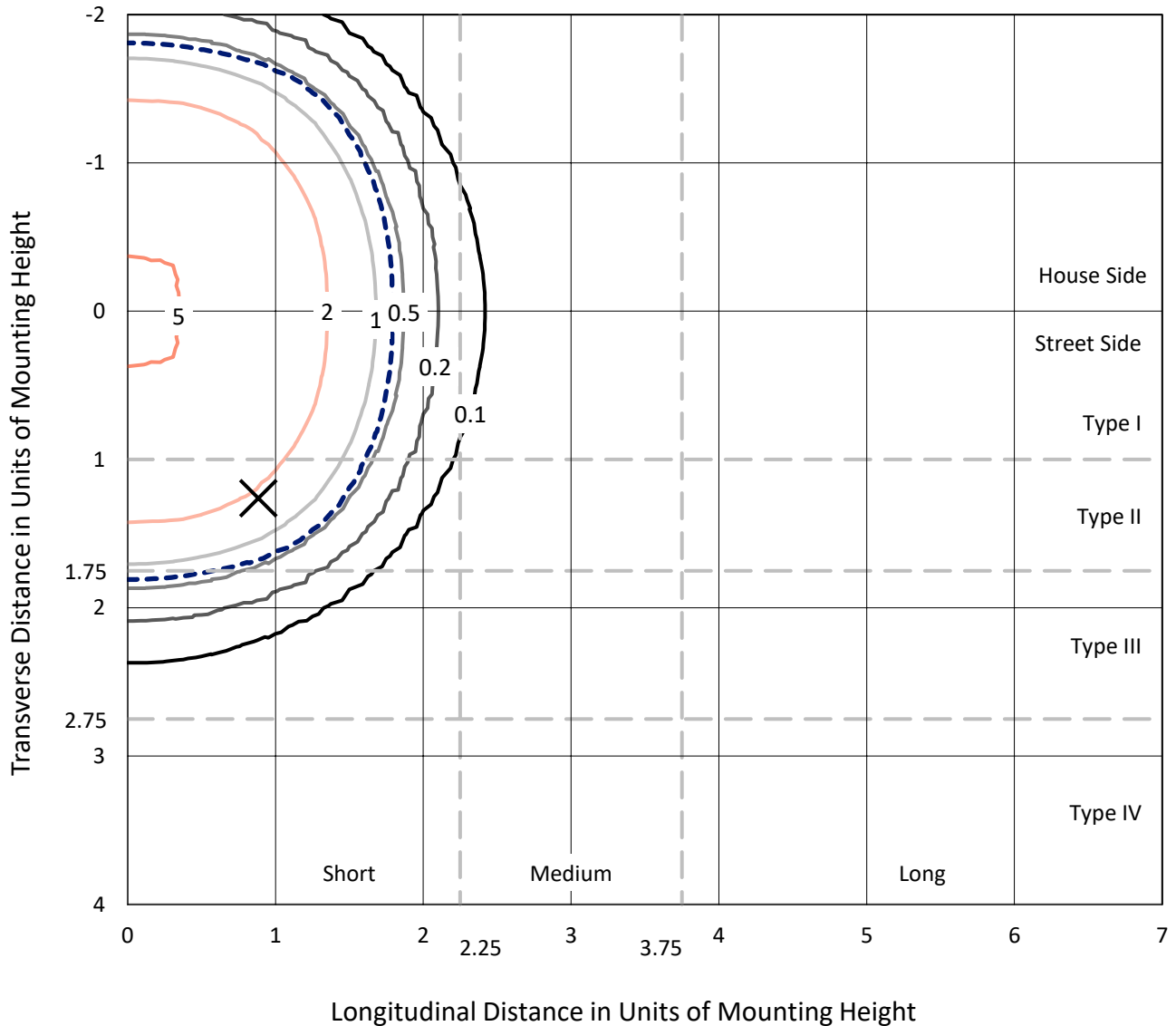
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

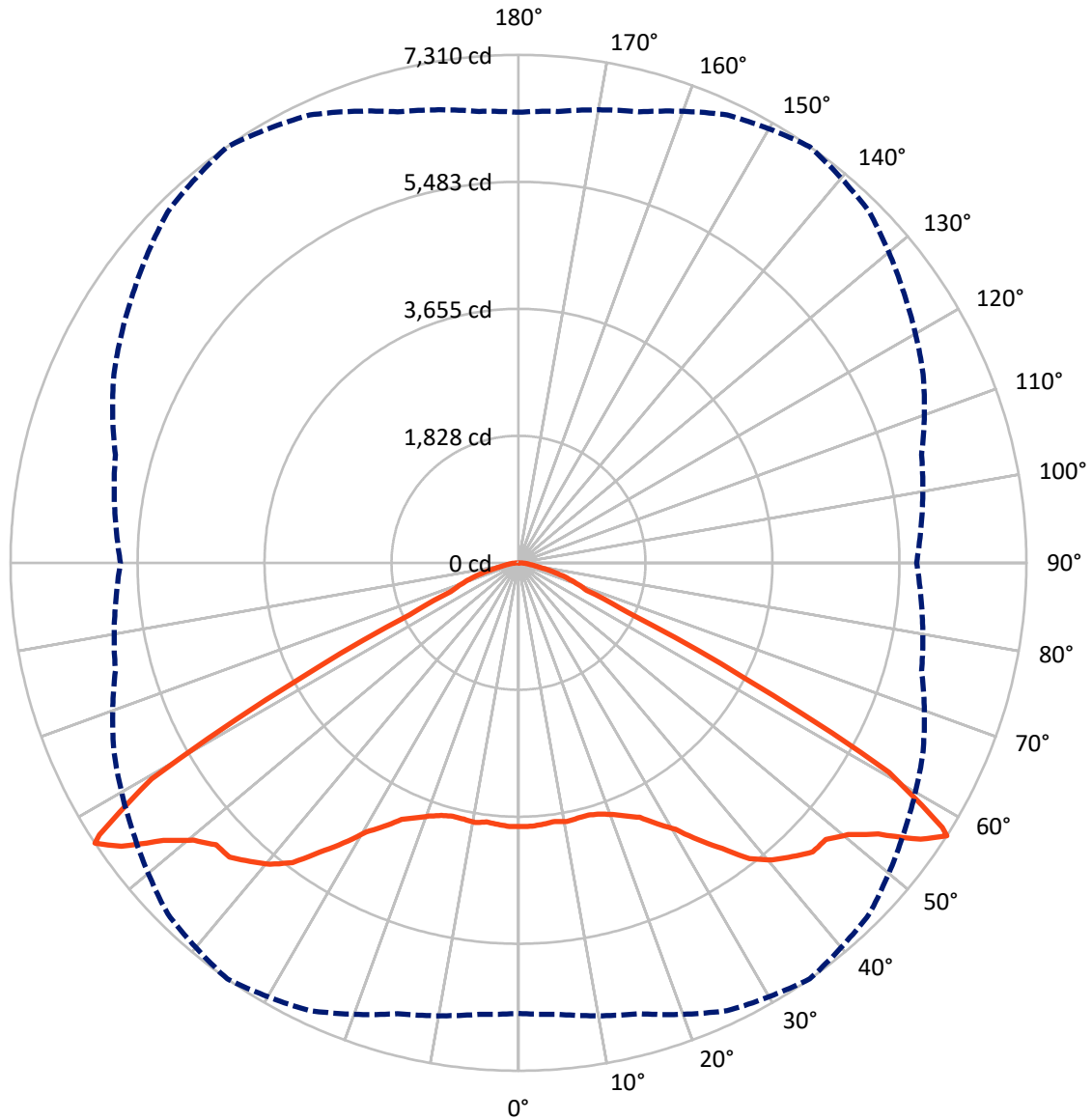
× Max cd
 - - - 1/2 Max cd



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 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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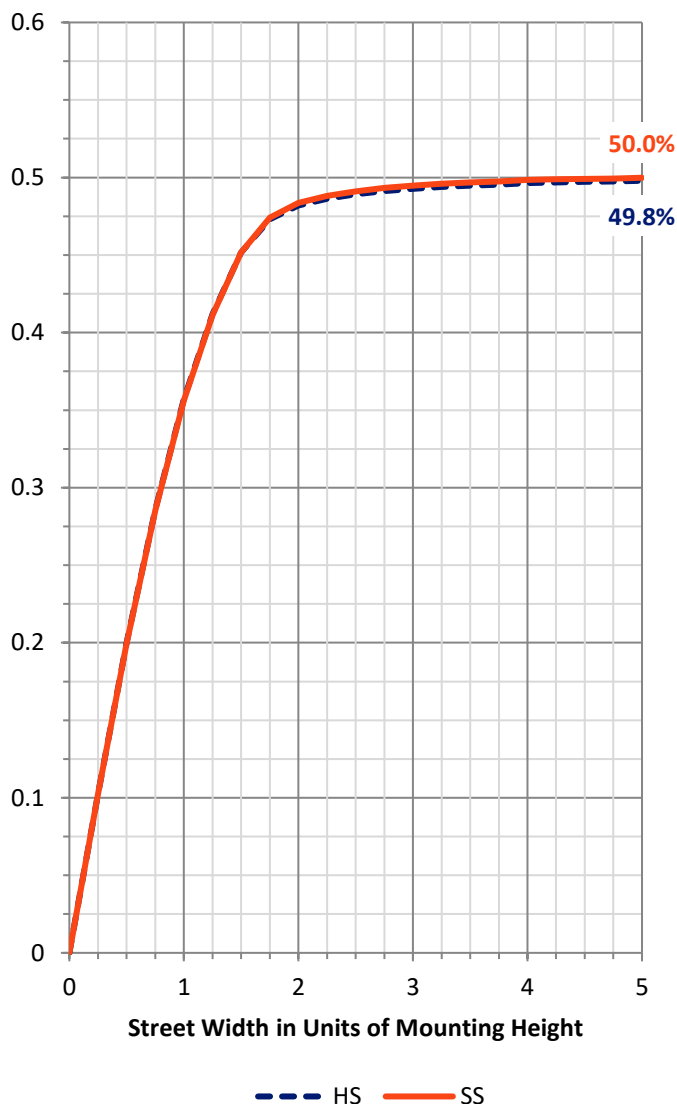
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9610.5	0.0	9610.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9610.5	0.0	9610.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19221.1	0.0	19221.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.9	1.9
10°-20°	1065.9	5.5
20°-30°	1861.5	9.7
30°-40°	3050.1	15.9
40°-50°	4472.2	23.3
50°-60°	5633.1	29.3
60°-70°	2118.5	11.0
70°-80°	563.3	2.9
80°-90°	96.6	0.5
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°	19221.1	100.0
0°-180°	19221.1	100.0

Coefficient of Utilization



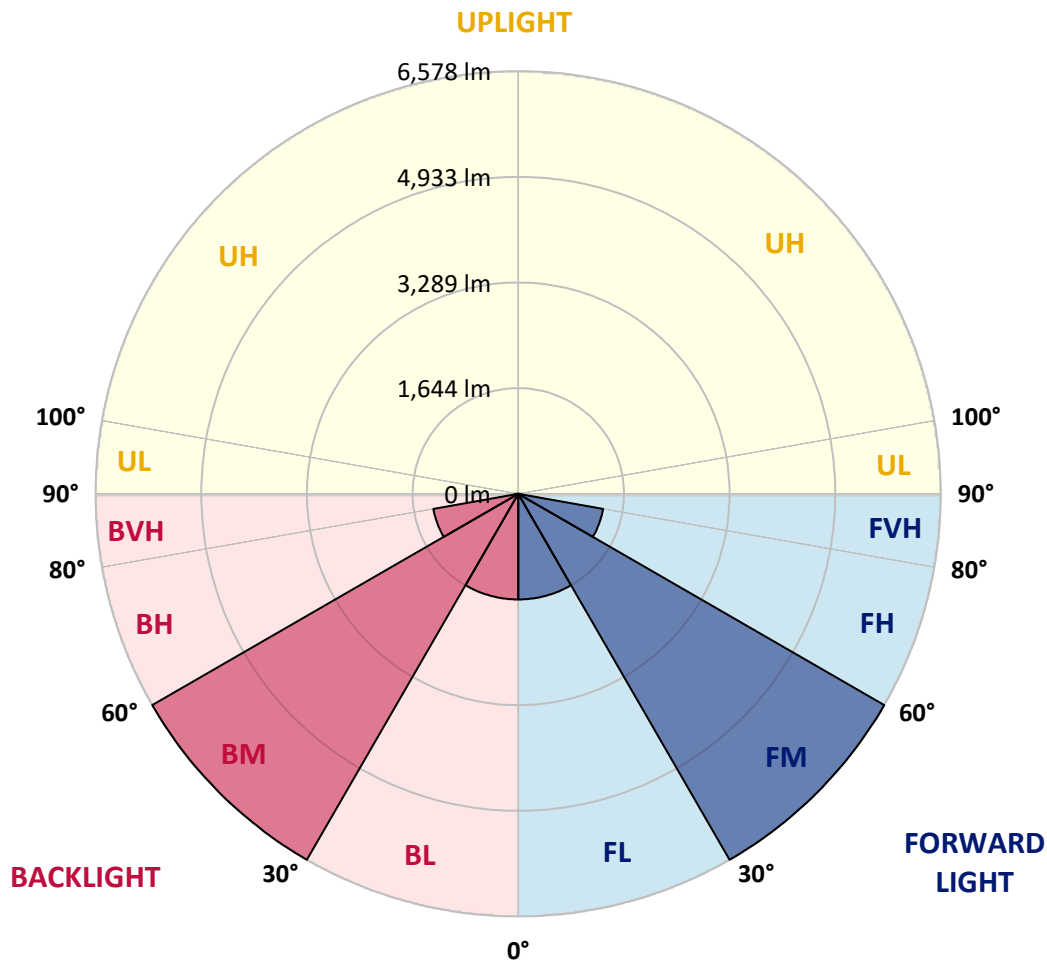
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1643.6	8.6			
FM (30°-60°)	6577.7	34.2			
FH (60°-80°)	1340.9	7.0			G1/1800
FVH (80°-90°)	48.3	0.3			G1/100
BL (0°-30°)	1643.6	8.6	B3/2500		
BM (30°-60°)	6577.7	34.2	B4/8500		
BH (60°-80°)	1340.9	7.0	B3/2500		G1/1800
BVH (80°-90°)	48.3	0.3			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°	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0
2.5°	3777.1	3814.9	3798.4	3788.9	3796.0	3784.2	3765.2	3786.6	3781.8	3762.9	3755.7
5°	3767.6	3796.0	3777.1	3796.0	3777.1	3810.2	3800.8	3765.2	3807.9	3767.6	3781.8
7.5°	3760.5	3770.0	3774.7	3765.2	3758.2	3798.4	3777.1	3760.5	3736.8	3729.7	3741.6
10°	3743.9	3767.6	3732.1	3779.5	3788.9	3760.5	3760.5	3729.7	3710.8	3699.0	3739.2
12.5°	3786.6	3746.3	3741.6	3765.2	3772.3	3784.2	3751.0	3734.4	3699.0	3703.7	3696.5
15°	3736.8	3753.4	3755.7	3760.5	3767.6	3796.0	3765.2	3729.7	3715.5	3665.8	3670.5
17.5°	3755.7	3739.2	3755.7	3810.2	3800.8	3822.1	3788.9	3734.4	3701.3	3672.9	3710.8
20°	3788.9	3781.8	3788.9	3855.3	3867.1	3886.0	3857.6	3807.9	3743.9	3710.8	3729.7
22.5°	3824.4	3819.7	3824.4	3888.4	3957.0	3980.7	3952.3	3836.3	3803.1	3741.6	3720.3
25°	3888.4	3893.1	3942.9	4013.9	4058.9	4103.9	4051.8	3968.9	3862.3	3824.4	3779.5
27.5°	4030.5	4042.3	4070.7	4174.9	4253.1	4293.3	4219.9	4106.2	4040.0	3961.8	3949.9
30°	4205.7	4205.7	4255.4	4345.4	4452.0	4513.5	4423.6	4288.6	4208.1	4165.4	4139.4
32.5°	4437.8	4411.7	4430.7	4589.3	4755.1	4807.2	4686.4	4520.7	4392.8	4335.9	4317.0
35°	4636.7	4653.3	4695.9	4866.4	5051.1	5171.9	4982.5	4766.9	4636.7	4584.6	4575.1
37.5°	4894.8	4923.2	4944.6	5179.0	5401.6	5446.5	5264.3	5091.4	4932.7	4890.1	4866.4
40°	5259.5	5240.5	5247.7	5420.6	5621.8	5650.2	5470.3	5347.1	5216.9	5190.8	5190.8
42.5°	5560.2	5538.9	5562.6	5626.6	5780.5	5759.1	5659.7	5569.7	5515.2	5486.8	5515.2
45°	5742.6	5737.8	5780.5	5827.9	5936.8	5865.7	5787.5	5801.8	5749.6	5702.4	5699.9
47.5°	5941.5	5910.7	5962.8	6033.9	5951.0	5917.8	5913.1	5943.8	5927.3	5844.4	5818.4
50°	6038.6	6026.8	6109.6	6192.5	6147.5	6071.8	6088.3	6138.0	5924.9	5813.6	5749.6
52.5°	6299.1	6301.4	6460.1	6505.1	6486.1	6374.9	6410.3	6275.4	6024.4	5868.1	5875.2
55°	6708.7	6692.1	6869.8	7002.4	7023.7	6881.6	6711.1	6521.7	6206.7	6048.0	6000.7
57°	6483.8	6521.7	6718.2	7111.4	7310.2	7142.1	6770.3	6424.6	6005.5	5813.6	5728.3
57.5°	6183.0	6244.6	6585.6	6981.1	7189.5	7175.3	6696.9	6244.6	5870.5	5572.1	5579.2
60°	4530.1	4541.9	4849.8	5477.3	6128.5	6142.8	5560.2	4961.1	4544.3	4219.9	4264.9
62.5°	2389.4	2443.8	2567.0	3071.4	3635.0	3772.3	3419.5	3111.6	2751.7	2505.4	2529.1
65°	1264.5	1257.4	1316.6	1458.7	1735.8	1806.9	1759.5	1515.6	1390.1	1349.8	1352.2
67.5°	1027.8	1039.6	1032.5	1039.6	1058.5	1089.3	1082.2	1091.7	1098.8	1110.6	1108.3
70°	871.5	871.5	876.2	878.5	878.5	892.8	909.4	940.1	942.5	954.3	959.1
72.5°	686.8	682.0	689.1	705.7	708.1	719.9	743.5	762.5	769.6	769.6	755.4
75°	466.5	471.2	480.7	494.9	509.1	530.5	549.4	561.3	566.0	558.8	551.8
77.5°	262.9	267.6	274.7	296.0	312.6	331.5	352.8	364.7	376.5	378.9	364.7
80°	156.3	156.3	168.1	184.7	203.7	222.6	241.6	255.7	260.5	260.5	253.4
82.5°	94.7	97.1	106.6	123.2	139.7	151.6	168.1	180.0	189.4	187.1	182.4
85°	49.7	49.7	59.2	73.4	85.3	97.1	97.1	90.0	85.3	73.4	68.7
87.5°	16.6	14.2	18.9	18.9	16.6	18.9	18.9	21.3	21.3	21.3	21.3
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)