

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: P530275

Luminaire Tested: **GALN-SA5C-730-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-730-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19243 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 269
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

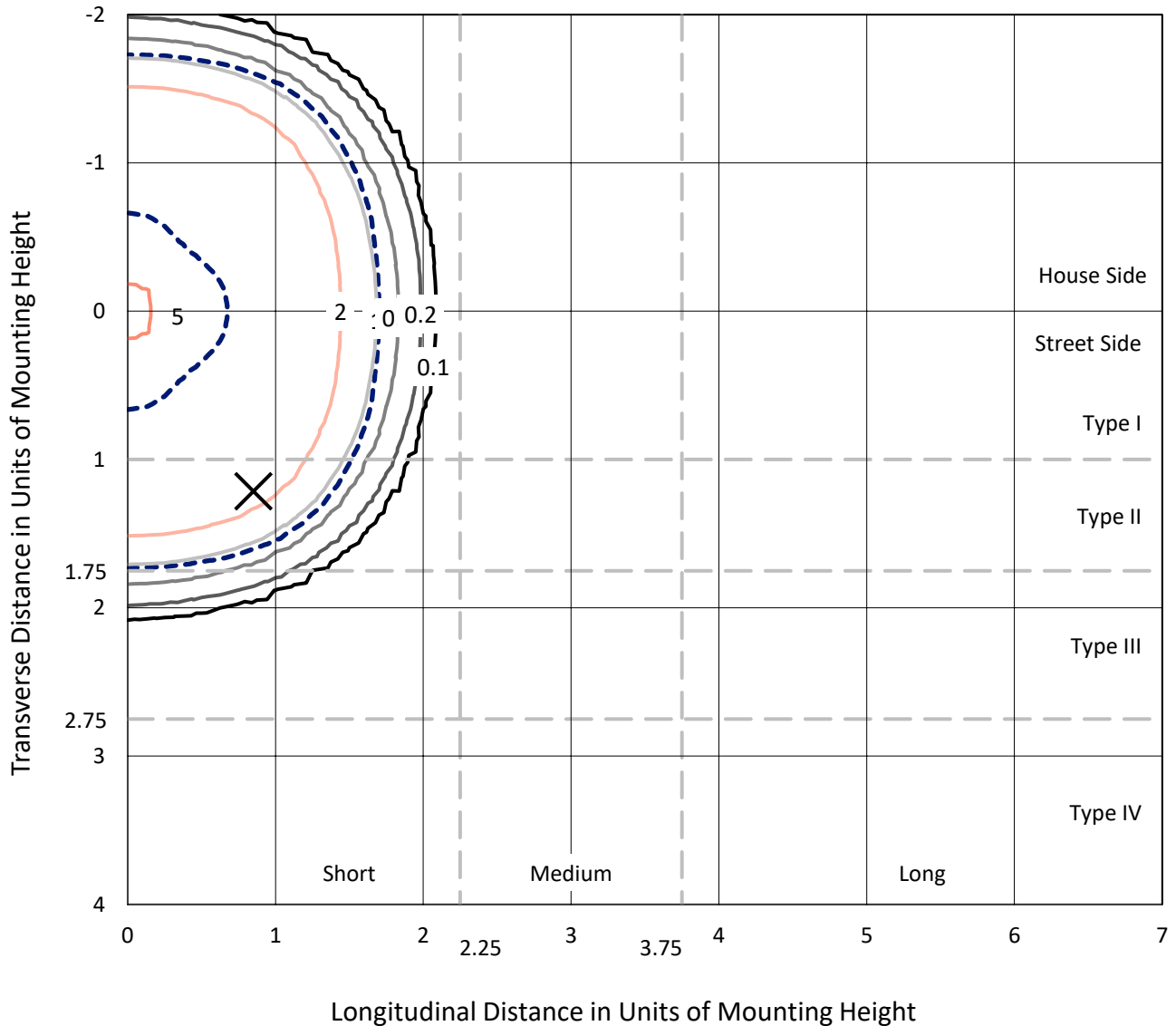




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Iso-Footcandle Lines of Horizontal Illumination

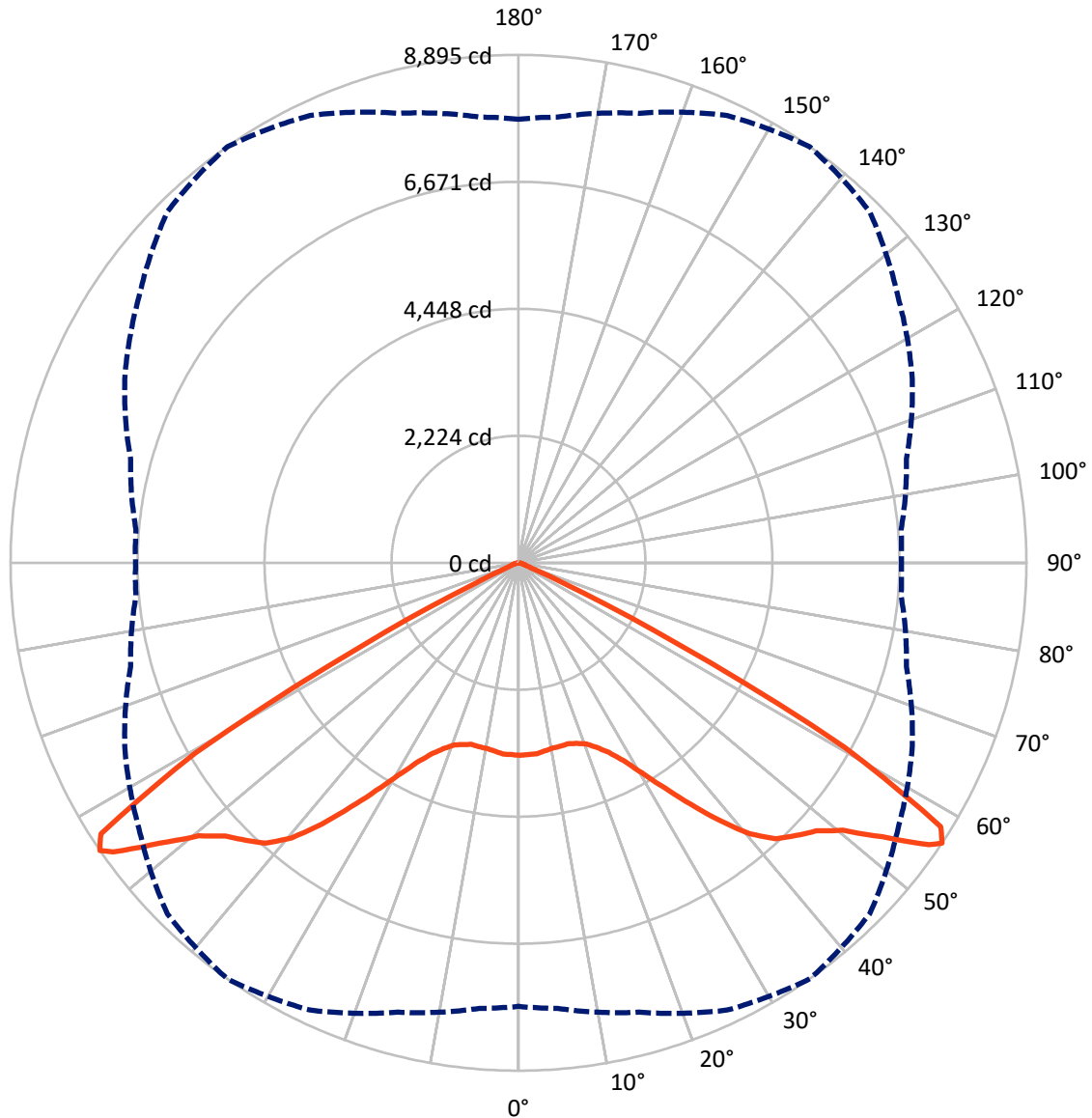
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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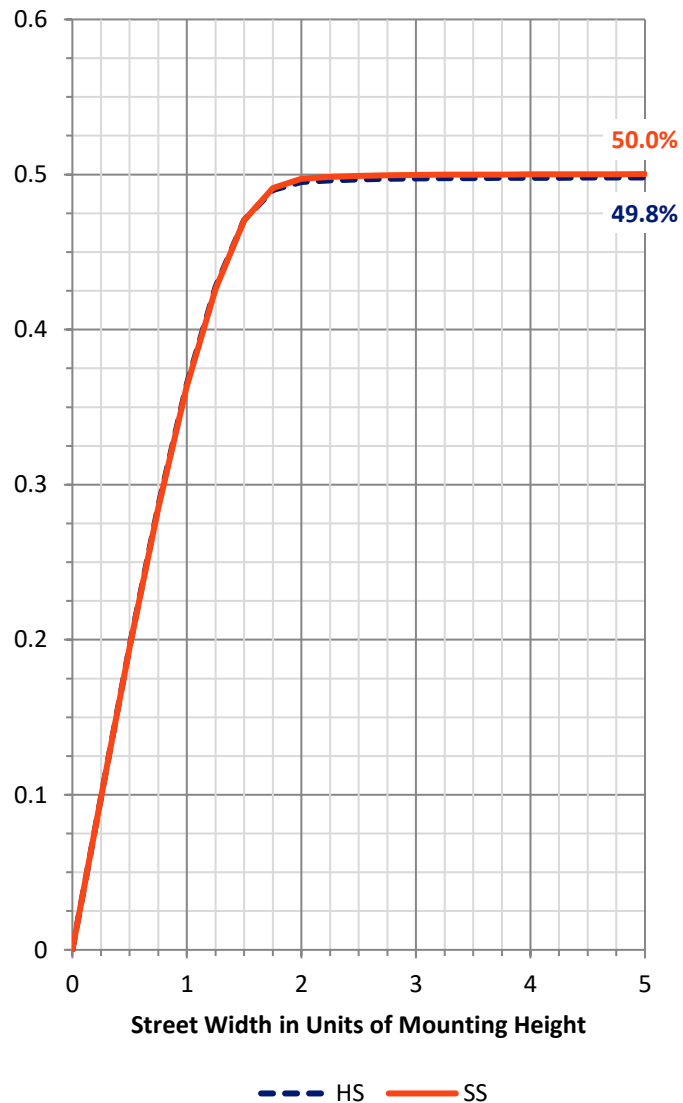
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9621.5	0.0	9621.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9621.5	0.0	9621.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19243.0	0.0	19243.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.9	1.6
10°-20°	925.2	4.8
20°-30°	1675.4	8.7
30°-40°	3106.8	16.1
40°-50°	5099.5	26.5
50°-60°	6569.7	34.1
60°-70°	1447.9	7.5
70°-80°	84.0	0.4
80°-90°	17.7	0.1
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°	19243.0	100.0
0°-180°	19243.0	100.0

Coefficient of Utilization



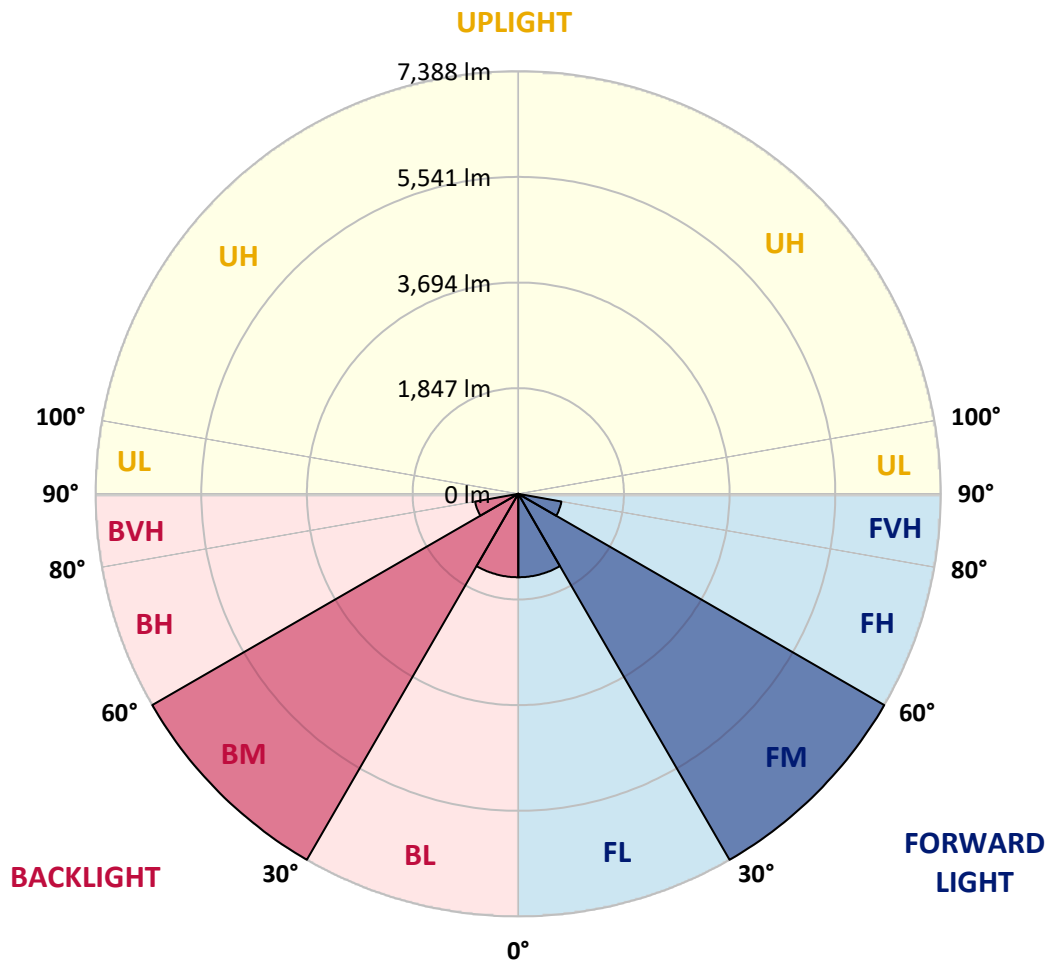
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1458.7	7.6			
FM (30°-60°)	7388.0	38.4			
FH (60°-80°)	765.9	4.0			G1/1800
FVH (80°-90°)	8.8	0.0			G0/10
BL (0°-30°)	1458.7	7.6	B3/2500		
BM (30°-60°)	7388.0	38.4	B4/8500		
BH (60°-80°)	765.9	4.0	B2/1000		G1/1800
BVH (80°-90°)	8.8	0.0			G0/10
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°	3371.8	3371.8	3371.8	3371.8	3371.8	3371.8	3371.8	3371.8	3371.8	3371.8	3371.8
2.5°	3378.8	3378.8	3382.2	3385.7	3361.3	3350.9	3354.4	3347.4	3343.9	3354.4	3354.4
5°	3368.3	3368.3	3357.8	3361.3	3361.3	3329.9	3329.9	3336.9	3336.9	3316.0	3309.0
7.5°	3340.4	3333.4	3319.5	3336.9	3326.5	3326.5	3302.1	3284.6	3277.6	3291.6	3277.6
10°	3281.1	3284.6	3298.6	3305.5	3298.6	3319.5	3277.6	3253.2	3228.8	3218.4	3218.4
12.5°	3253.2	3274.2	3253.2	3270.7	3295.1	3277.6	3253.2	3235.8	3200.9	3187.0	3187.0
15°	3249.7	3263.7	3270.7	3295.1	3284.6	3291.6	3242.8	3221.9	3169.5	3145.1	3134.7
17.5°	3246.3	3263.7	3274.2	3319.5	3326.5	3329.9	3291.6	3228.8	3183.5	3159.1	3134.7
20°	3284.6	3291.6	3312.5	3357.8	3385.7	3434.6	3364.8	3298.6	3200.9	3173.0	3162.6
22.5°	3333.4	3368.3	3389.2	3438.0	3511.3	3553.1	3462.4	3378.8	3277.6	3242.8	3200.9
25°	3490.3	3483.4	3518.2	3619.4	3678.6	3710.0	3636.8	3514.7	3382.2	3340.4	3347.4
27.5°	3685.6	3692.6	3724.0	3835.5	3922.7	3971.5	3884.4	3724.0	3594.9	3525.2	3518.2
30°	3940.1	3933.2	3968.0	4118.0	4274.9	4348.1	4194.7	4006.4	3880.9	3790.2	3811.1
32.5°	4208.6	4212.1	4309.8	4445.7	4700.3	4843.2	4595.7	4365.5	4177.3	4114.5	4083.1
35°	4606.1	4623.6	4700.3	4909.5	5191.9	5376.7	5104.8	4829.3	4613.1	4498.0	4512.0
37.5°	5097.8	5080.3	5209.4	5436.0	5732.4	5868.4	5638.2	5324.4	5104.8	5028.0	5076.9
40°	5620.8	5638.2	5704.5	5910.2	6241.5	6332.1	5990.4	5819.6	5627.8	5589.4	5648.7
42.5°	6143.8	6133.4	6182.2	6367.0	6607.6	6544.8	6342.6	6241.5	6105.5	6028.8	6109.0
45°	6527.4	6510.0	6600.6	6726.1	6813.3	6694.8	6604.1	6569.2	6499.5	6415.8	6489.0
47.5°	6900.5	6886.5	6973.7	7008.6	7015.5	6858.6	6876.1	6938.8	6764.5	6590.2	6673.8
50°	7217.8	7193.4	7301.5	7378.2	7360.7	7109.7	7172.5	7109.7	6837.7	6632.0	6600.6
52.5°	7747.8	7758.2	7873.3	8012.8	7970.9	7761.7	7671.1	7385.2	7036.5	6851.7	6743.6
55°	8082.5	8030.2	8229.0	8671.8	8720.6	8504.4	8103.4	7681.5	7158.5	6931.9	6904.0
56°	7768.7	7835.0	8148.8	8643.9	8895.0	8696.2	8113.9	7608.3	7033.0	6726.1	6705.2
57.5°	6970.2	6935.4	7360.7	8037.2	8720.6	8636.9	7828.0	7085.3	6415.8	6070.6	6028.8
60°	4337.6	4438.8	4811.9	5648.7	6562.3	6604.1	5802.1	5164.0	4383.0	4076.1	4149.4
62.5°	1698.1	1610.9	1844.5	2468.7	3096.3	3235.8	2932.4	2437.3	2001.5	1698.1	1677.2
65°	394.0	383.6	432.4	596.3	833.4	965.9	917.0	659.0	484.7	460.3	425.4
67.5°	223.2	223.2	212.7	212.7	233.6	247.6	237.1	233.6	244.1	254.5	251.1
70°	156.9	153.4	146.4	149.9	143.0	143.0	153.4	170.9	184.8	184.8	188.3
72.5°	94.1	94.1	94.1	104.6	104.6	104.6	115.1	129.0	132.5	129.0	125.5
75°	41.8	41.8	48.8	59.3	66.3	69.7	80.2	87.2	94.1	87.2	80.2
77.5°	10.5	10.5	17.4	24.4	31.4	38.4	52.3	62.8	66.3	62.8	52.3
80°	3.5	3.5	7.0	17.4	31.4	38.4	52.3	55.8	59.3	52.3	41.8
82.5°	3.5	3.5	7.0	17.4	24.4	31.4	41.8	48.8	52.3	45.3	41.8
85°	0.0	3.5	7.0	13.9	20.9	27.9	27.9	20.9	17.4	10.5	13.9
87.5°	0.0	0.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)