

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: P458196

Luminaire Tested: **GALN-SA9C-760-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-760-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66705 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 481
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

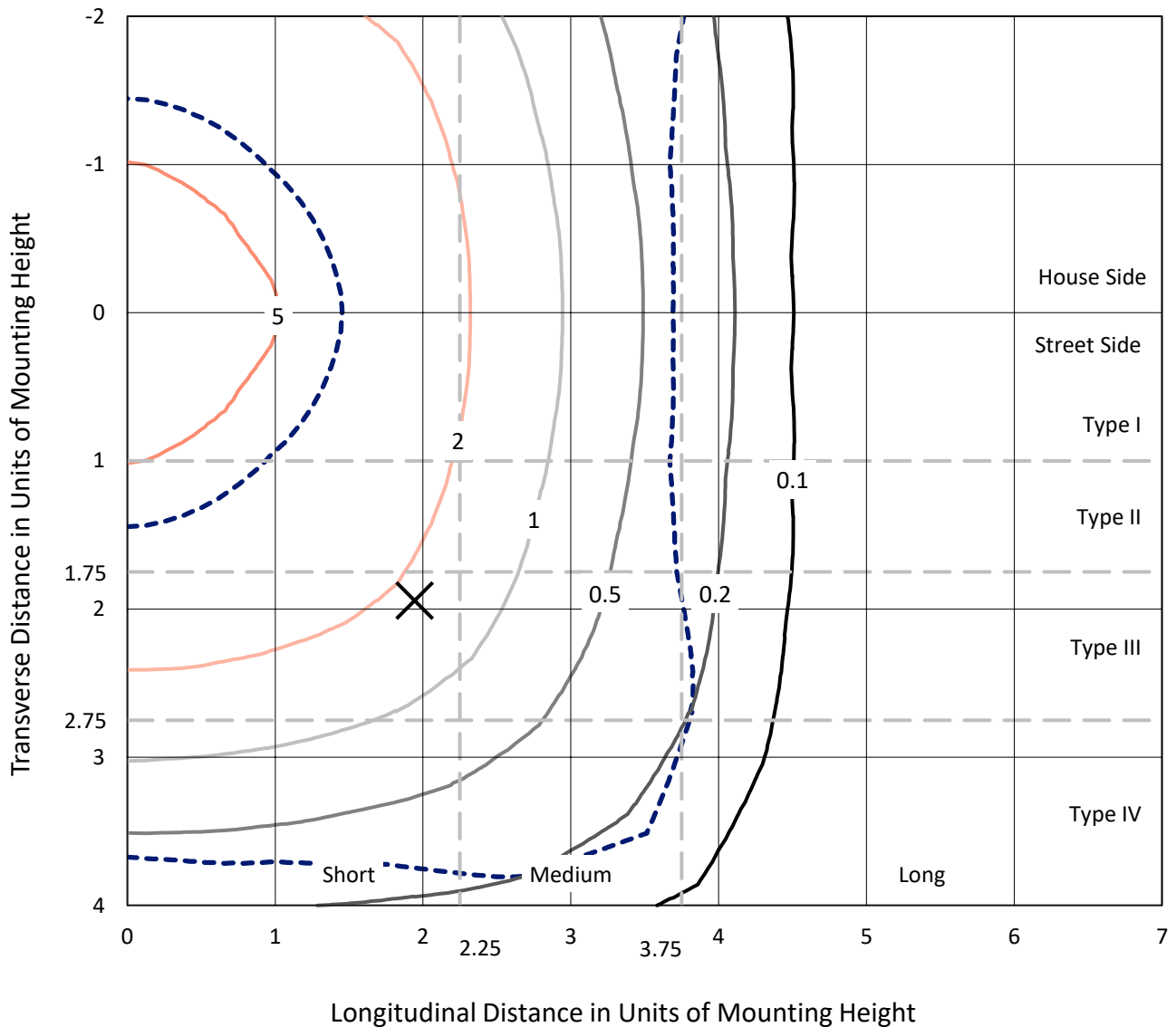




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Iso-Footcandle Lines of Horizontal Illumination

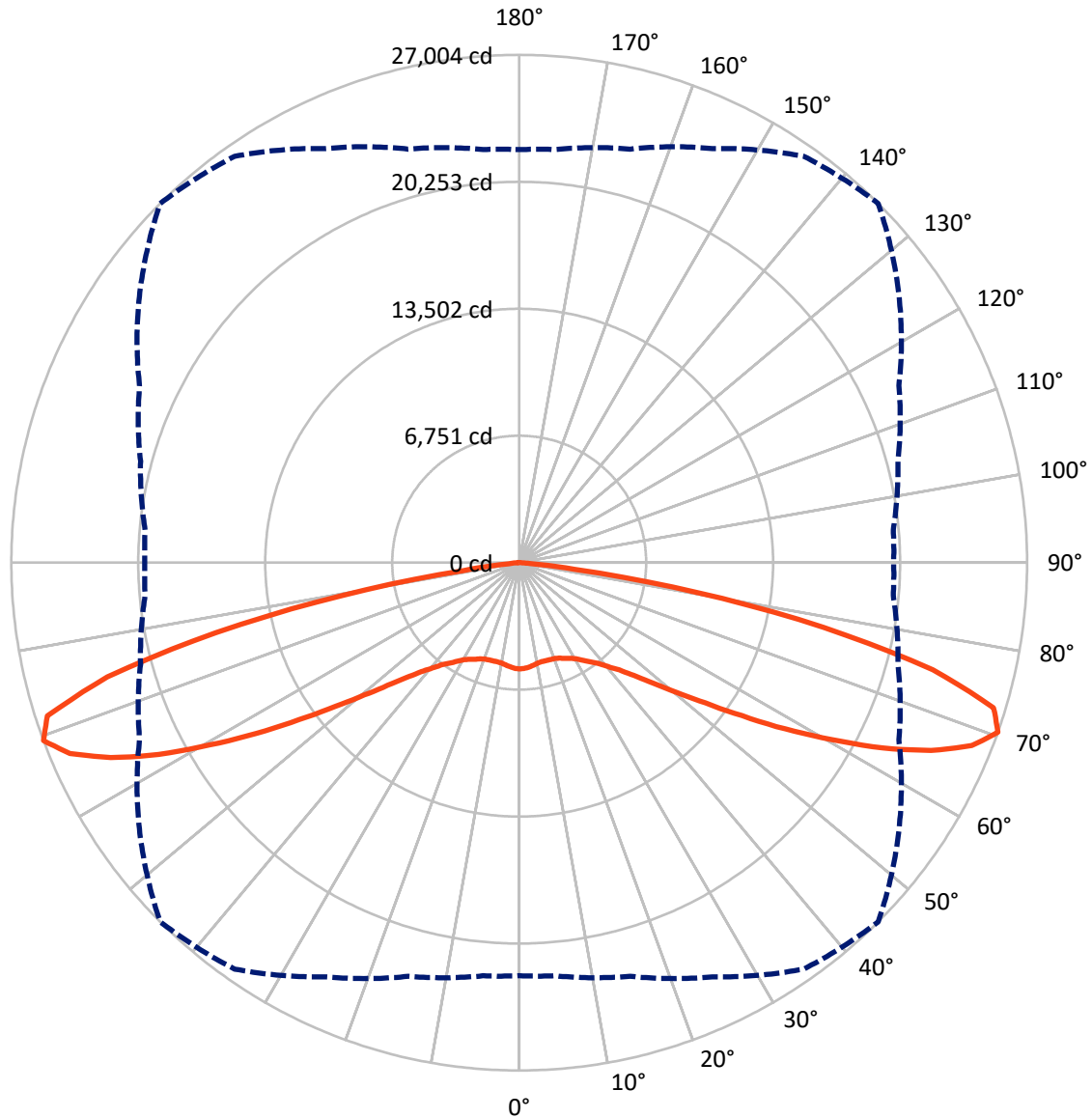
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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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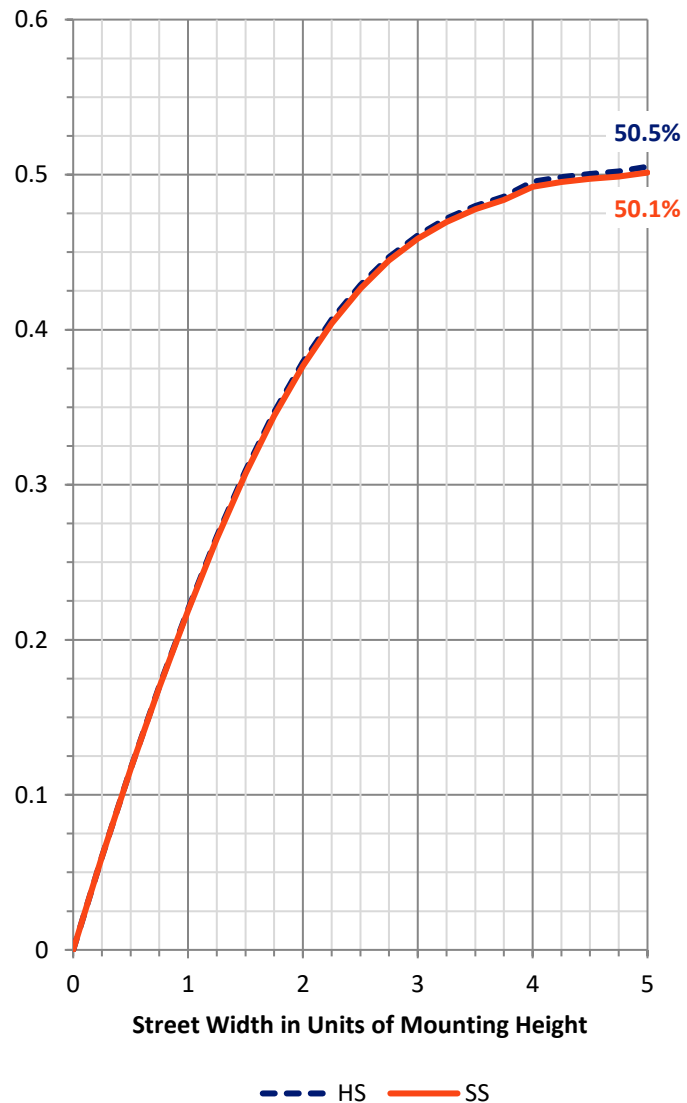
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	33352.5	0.0	33352.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33352.5	0.0	33352.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	66705.0	0.0	66705.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.1	0.8
10°-20°	1546.2	2.3
20°-30°	2634.3	3.9
30°-40°	4083.1	6.1
40°-50°	6872.4	10.3
50°-60°	12504.1	18.7
60°-70°	21169.1	31.7
70°-80°	16385.8	24.6
80°-90°	981.9	1.5
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°	66705.0	100.0
0°-180°	66705.0	100.0



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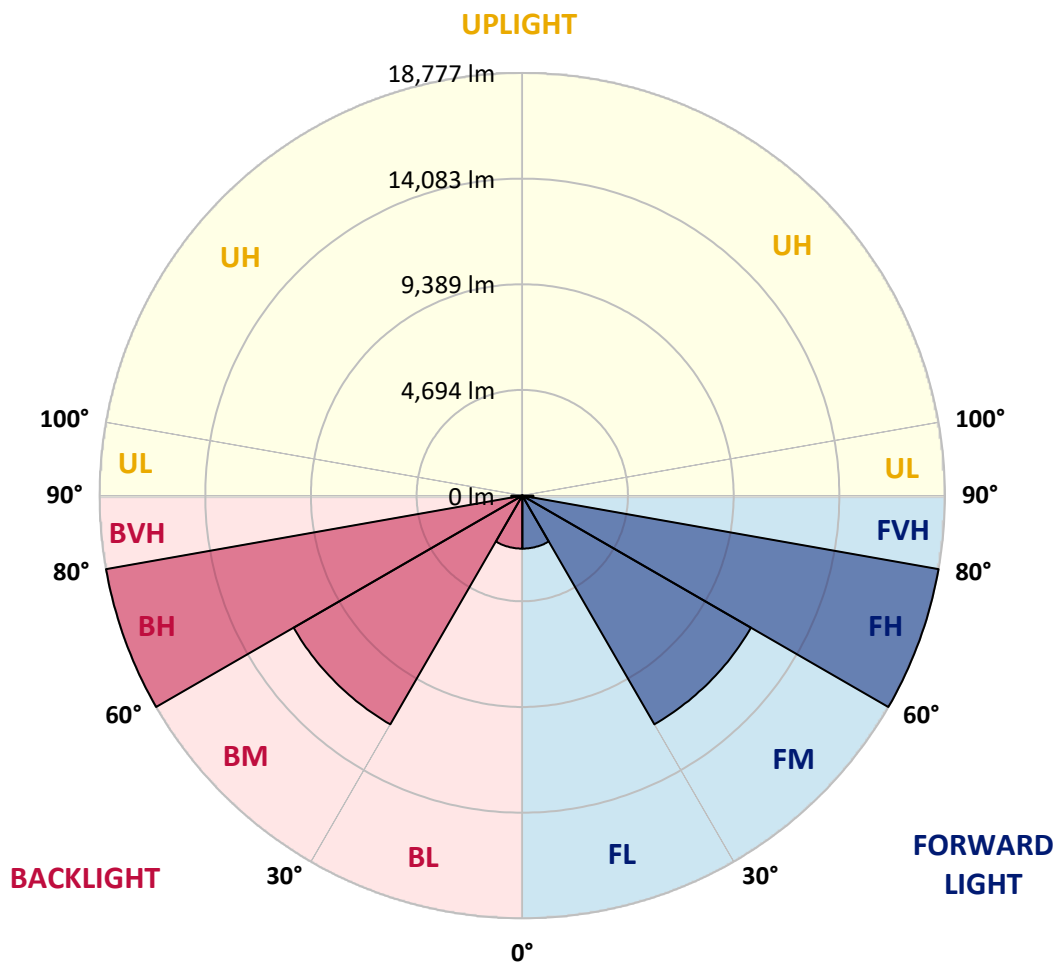
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2354.3	3.5			
FM	(30°-60°)	11729.8	17.6			
FH	(60°-80°)	18777.5	28.1			G5
FVH	(80°-90°)	490.9	0.7			G3/500
BL	(0°-30°)	2354.3	3.5	B3/2500		
BM	(30°-60°)	11729.8	17.6	B5		
BH	(60°-80°)	18777.5	28.1	B5		G5
BVH	(80°-90°)	490.9	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5647.4	5647.4	5647.4	5647.4	5647.4	5647.4	5647.4	5647.4	5647.4	5647.4	5647.4
2.5°	5633.3	5636.8	5636.8	5629.8	5626.3	5626.3	5622.7	5622.7	5633.3	5636.8	5640.3
5°	5584.0	5584.0	5584.0	5580.5	5573.4	5573.4	5566.4	5566.4	5569.9	5580.5	5573.4
7.5°	5517.0	5524.1	5524.1	5510.0	5499.4	5499.4	5495.9	5499.4	5503.0	5513.5	5510.0
10°	5495.9	5499.4	5481.8	5457.2	5439.5	5429.0	5432.5	5439.5	5457.2	5464.2	5467.7
12.5°	5510.0	5510.0	5478.3	5443.1	5411.4	5397.3	5393.7	5418.4	5450.1	5471.2	5478.3
15°	5527.6	5520.6	5481.8	5436.0	5404.3	5400.8	5397.3	5414.9	5460.7	5503.0	5506.5
17.5°	5538.2	5534.7	5485.3	5429.0	5411.4	5411.4	5407.8	5421.9	5471.2	5524.1	5527.6
20°	5573.4	5562.8	5506.5	5446.6	5432.5	5439.5	5429.0	5446.6	5499.4	5562.8	5576.9
22.5°	5643.9	5633.3	5576.9	5517.0	5510.0	5510.0	5506.5	5524.1	5580.5	5647.4	5658.0
25°	5728.4	5717.9	5665.0	5622.7	5629.8	5643.9	5636.8	5640.3	5686.1	5742.5	5760.1
27.5°	5841.2	5823.5	5777.7	5742.5	5763.7	5763.7	5763.7	5760.1	5788.3	5841.2	5858.8
30°	5978.6	5971.5	5922.2	5918.7	5936.3	5918.7	5918.7	5922.2	5925.7	5975.0	5992.7
32.5°	6158.2	6144.1	6119.5	6112.4	6161.8	6175.8	6126.5	6080.7	6105.4	6154.7	6165.3
35°	6454.2	6433.0	6397.8	6359.0	6397.8	6464.7	6359.0	6323.8	6387.2	6454.2	6461.2
37.5°	6855.8	6845.2	6788.9	6718.4	6714.9	6785.3	6676.1	6672.6	6792.4	6873.4	6884.0
40°	7359.6	7370.2	7299.7	7232.8	7197.5	7253.9	7169.3	7201.0	7317.3	7408.9	7401.9
42.5°	8067.7	8029.0	7919.7	7856.3	7817.6	7796.4	7775.3	7824.6	7955.0	8053.6	8131.1
45°	8895.6	8881.5	8744.1	8666.6	8582.1	8550.4	8543.3	8631.4	8789.9	8909.7	8920.3
47.5°	9832.7	9801.0	9713.0	9631.9	9600.2	9561.5	9526.2	9593.2	9751.7	9836.3	9860.9
50°	10798.0	10805.1	10805.1	10791.0	10822.7	10829.8	10734.6	10759.3	10847.4	10840.3	10833.3
52.5°	11900.7	11939.5	12122.7	12140.3	12291.8	12394.0	12221.3	12119.2	12087.5	11897.2	11911.3
55°	13197.2	13232.4	13507.2	13782.0	14190.7	14363.3	14000.5	13683.4	13457.9	13169.0	13183.1
57.5°	14814.3	14831.9	15092.6	15621.1	16269.3	16674.4	16036.8	15409.7	14951.7	14676.9	14567.7
60°	16554.7	16572.3	16952.8	17597.5	18605.0	19098.3	18309.1	17283.9	16706.1	16286.9	16315.1
62.5°	18643.8	18714.3	19056.0	19943.8	21166.3	21719.4	20673.1	19302.6	18520.5	17999.1	18020.2
65°	20880.9	21000.7	21374.1	22350.0	23477.4	24072.8	22790.4	21208.6	20236.2	19598.5	19665.5
67.5°	22332.4	22438.1	22977.1	24055.2	25460.8	25954.1	24298.2	22455.7	21240.3	20479.3	20338.4
70°	21962.5	22050.6	22769.3	24298.2	26380.3	27003.9	24657.6	22272.5	20842.2	19964.9	19908.6
72.5°	19387.2	19204.0	20253.8	22448.7	25330.5	26376.8	23526.7	20341.9	18541.6	17639.7	17534.1
75°	12848.4	13246.5	14796.7	17382.6	21430.5	22727.0	20081.2	16332.7	14067.4	13317.0	13200.7
77.5°	4294.6	4601.1	5978.6	9853.9	14609.9	16558.2	14631.1	10681.8	7556.9	6087.8	6116.0
80°	1137.9	1123.8	1455.0	2709.2	6313.2	9589.7	7349.0	3618.1	1979.9	1433.9	1359.9
82.5°	408.7	458.0	588.3	750.4	1673.4	2980.5	2103.2	1014.6	743.4	549.6	532.0
85°	179.7	176.2	253.7	299.5	419.2	556.6	493.2	429.8	377.0	250.1	232.5
87.5°	38.8	38.8	59.9	45.8	74.0	74.0	91.6	109.2	112.7	74.0	59.9
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)