

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: P531733

Luminaire Tested: **GALN-SA7A-740-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-740-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21882 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

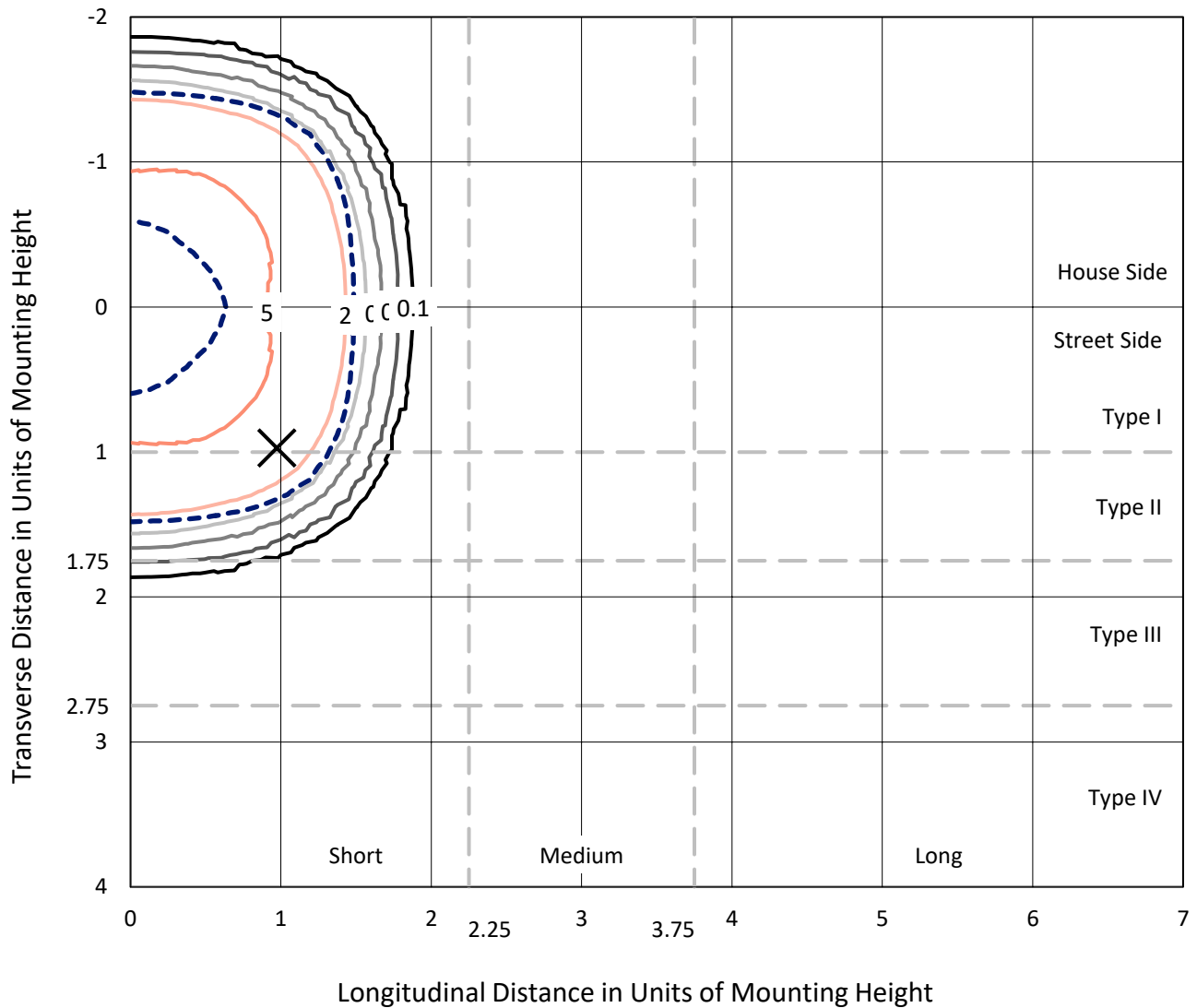
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

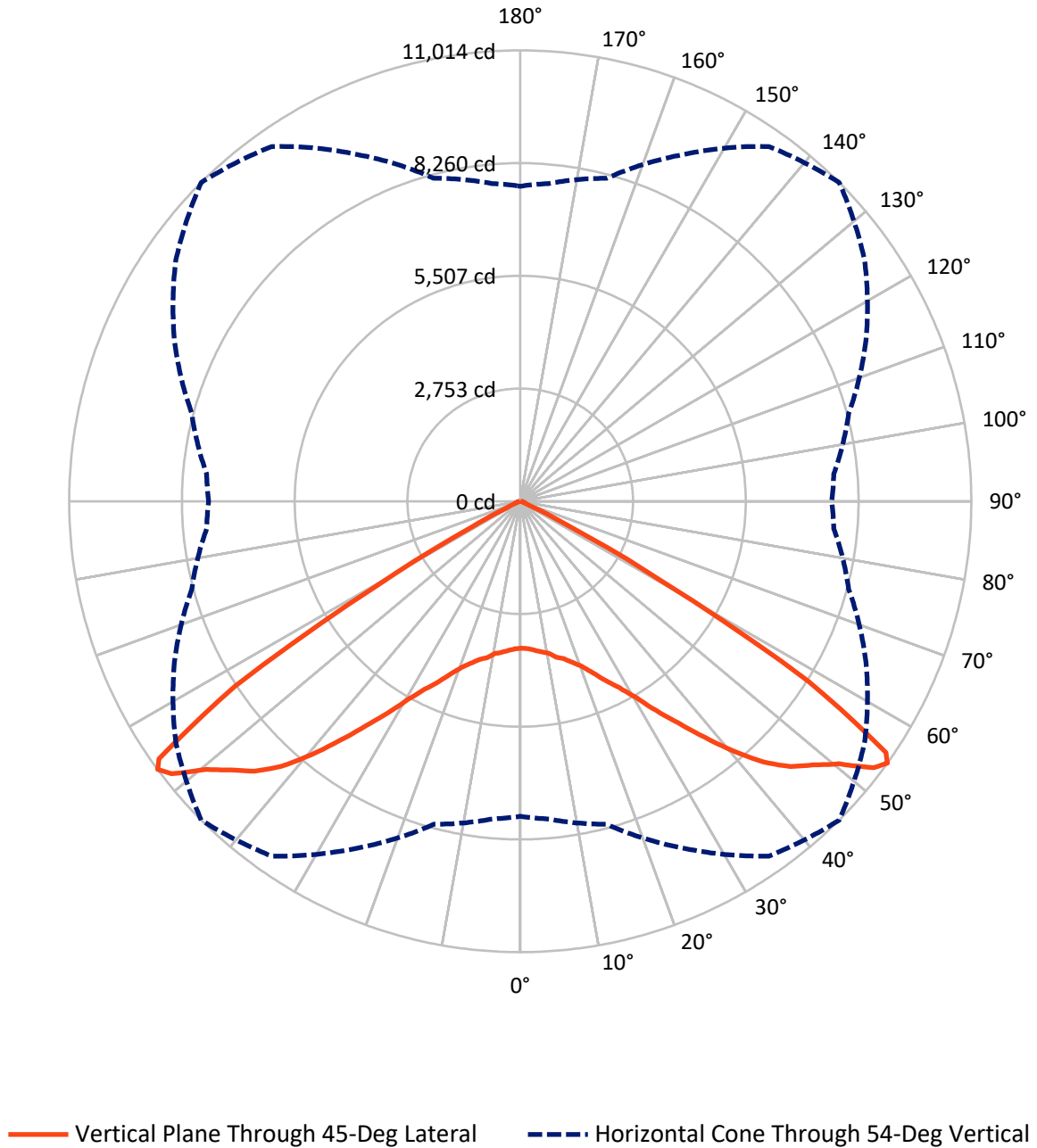
✕ Max cd
 - - - 1/2 Max cd



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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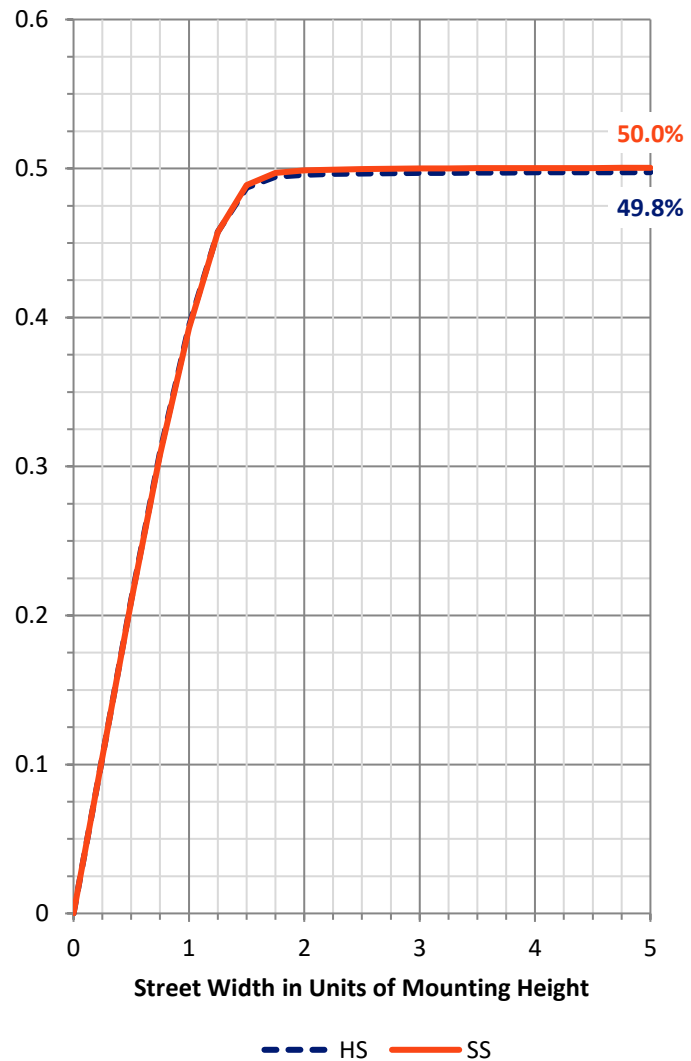
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10941.0	0.0	10941.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10941.0	0.0	10941.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21882.0	0.0	21882.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.2	1.6
10°-20°	1137.2	5.2
20°-30°	2228.9	10.2
30°-40°	4008.1	18.3
40°-50°	6861.1	31.4
50°-60°	6638.7	30.3
60°-70°	568.3	2.6
70°-80°	67.4	0.3
80°-90°	21.1	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°	21882.0	100.0
0°-180°	21882.0	100.0



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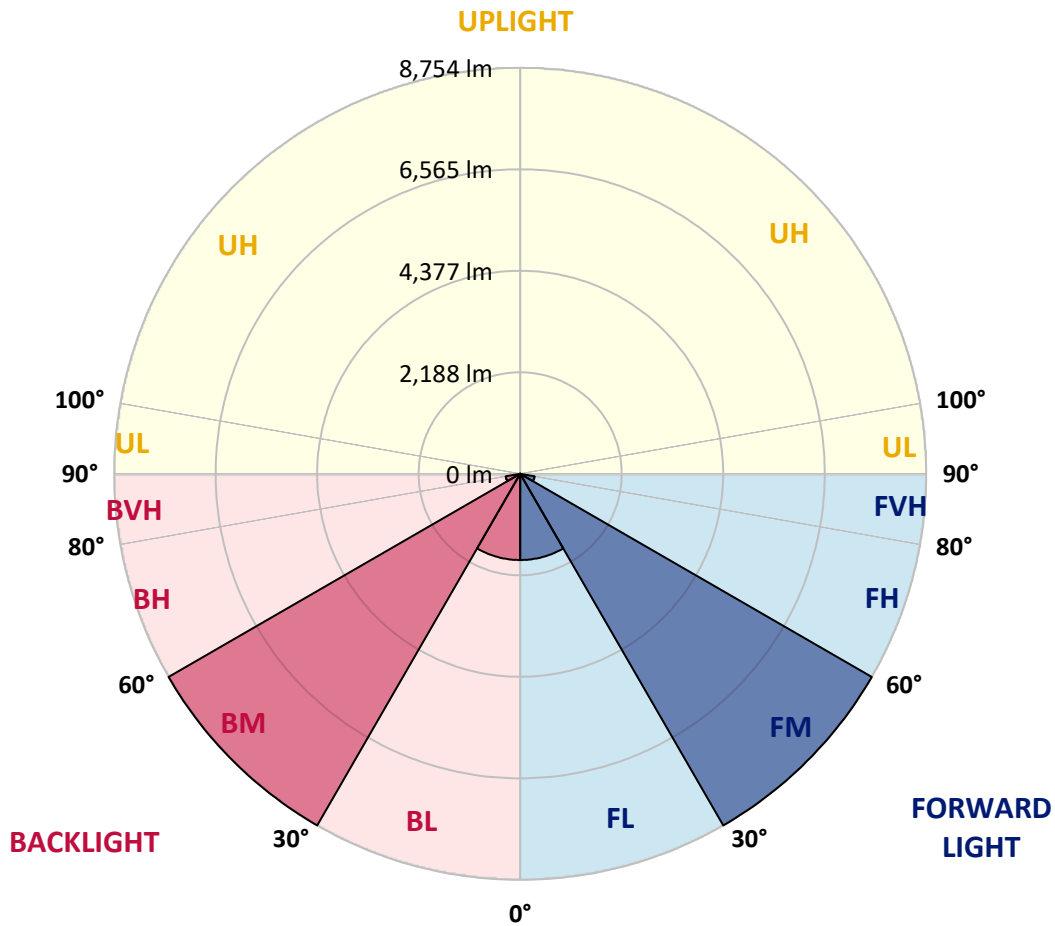
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1858.7	8.5			
FM (30°-60°)	8753.9	40.0			
FH (60°-80°)	317.8	1.5			G0/660
FVH (80°-90°)	10.6	0.0			G1/100
BL (0°-30°)	1858.7	8.5	B3/2500		
BM (30°-60°)	8753.9	40.0	B5		
BH (60°-80°)	317.8	1.5	B1/500		G0/660
BVH (80°-90°)	10.6	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3588.0	3588.0	3588.0	3588.0	3588.0	3588.0	3588.0	3588.0	3588.0	3588.0	3588.0
2.5°	3605.3	3626.1	3612.2	3622.6	3622.6	3605.3	3615.7	3574.1	3601.8	3581.0	3584.5
5°	3660.8	3657.3	3657.3	3660.8	3646.9	3653.8	3640.0	3626.1	3615.7	3601.8	3643.4
7.5°	3730.1	3730.1	3705.8	3712.8	3705.8	3716.2	3688.5	3660.8	3650.4	3640.0	3633.0
10°	3796.0	3789.0	3778.6	3809.8	3785.6	3771.7	3757.8	3740.5	3702.4	3688.5	3674.6
12.5°	3893.0	3889.6	3875.7	3906.9	3893.0	3906.9	3854.9	3809.8	3802.9	3757.8	3782.1
15°	4007.4	4038.6	4014.4	4014.4	4007.4	3990.1	3969.3	3948.5	3886.1	3868.8	3872.2
17.5°	4156.5	4146.1	4149.6	4149.6	4184.2	4139.2	4097.6	4045.6	4014.4	4004.0	3969.3
20°	4298.6	4312.5	4309.0	4333.3	4354.1	4305.6	4260.5	4253.6	4166.9	4180.8	4132.2
22.5°	4548.2	4537.8	4555.2	4572.5	4558.6	4551.7	4510.1	4458.1	4381.8	4347.2	4340.2
25°	4811.7	4794.4	4763.2	4804.8	4825.6	4856.8	4777.0	4749.3	4631.4	4579.4	4582.9
27.5°	5037.0	5061.3	5096.0	5113.3	5165.3	5154.9	5099.4	5009.3	4919.2	4860.2	4822.1
30°	5345.5	5359.4	5418.3	5442.6	5532.7	5557.0	5470.3	5366.3	5206.9	5130.6	5085.6
32.5°	5629.8	5726.9	5723.4	5844.7	5990.3	6090.9	5934.9	5775.4	5615.9	5525.8	5446.1
35°	6090.9	6073.5	6174.1	6302.3	6538.1	6652.5	6482.6	6298.9	6056.2	5910.6	5848.2
37.5°	6520.7	6527.7	6662.9	6867.4	7137.8	7314.6	7165.5	6863.9	6614.3	6427.1	6340.5
40°	7144.7	7158.6	7297.3	7529.5	7834.6	8025.3	7851.9	7546.9	7214.1	7068.5	7068.5
42.5°	7876.2	7935.1	8025.3	8226.3	8500.2	8711.7	8555.7	8316.5	7980.2	7793.0	7820.7
45°	8628.5	8656.2	8715.1	9013.2	9141.5	9245.5	9099.9	8989.0	8763.7	8534.9	8496.7
47.5°	9332.2	9342.6	9515.9	9609.5	9710.0	9623.4	9717.0	9571.4	9318.3	9096.4	9051.4
50°	9644.2	9626.8	9873.0	10157.2	10233.5	10081.0	10001.2	9904.2	9519.4	9252.4	9134.6
52.5°	8735.9	8836.5	9294.0	10084.4	10680.7	10809.0	10344.4	9897.2	9179.6	8659.7	8579.9
54°	7695.9	7789.5	8167.4	9339.1	10580.2	11013.5	10264.7	9314.8	8302.6	7685.5	7605.8
55°	6666.3	6562.3	7248.7	8444.7	10108.7	10833.2	9949.2	8562.6	7404.7	6839.7	6728.7
57.5°	3608.8	3626.1	4205.0	5335.1	7103.1	8306.1	7335.4	5792.7	4374.9	3740.5	3685.0
60°	1144.0	1171.7	1424.8	2156.2	3393.8	4052.5	3473.6	2326.1	1608.5	1289.6	1237.6
62.5°	357.1	370.9	405.6	603.2	929.1	1327.7	1040.0	624.0	464.5	426.4	433.3
65°	218.4	218.4	221.9	235.7	277.3	322.4	312.0	273.9	263.5	256.5	253.1
67.5°	142.1	138.7	145.6	156.0	162.9	166.4	176.8	187.2	183.7	176.8	176.8
70°	86.7	83.2	90.1	104.0	107.5	114.4	124.8	138.7	135.2	128.3	131.7
72.5°	48.5	48.5	52.0	62.4	72.8	79.7	90.1	100.5	104.0	100.5	100.5
75°	17.3	20.8	27.7	38.1	45.1	55.5	65.9	76.3	86.7	79.7	76.3
77.5°	6.9	6.9	13.9	24.3	34.7	45.1	62.4	72.8	79.7	72.8	65.9
80°	3.5	3.5	10.4	20.8	31.2	41.6	52.0	62.4	65.9	58.9	52.0
82.5°	3.5	3.5	10.4	20.8	31.2	38.1	55.5	62.4	69.3	62.4	52.0
85°	0.0	3.5	10.4	20.8	27.7	31.2	31.2	20.8	17.3	10.4	10.4
87.5°	0.0	0.0	3.5	0.0	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)