

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: P531837

Luminaire Tested: **GALN-SA7A-830-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531837
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-830-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 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: 17388 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

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



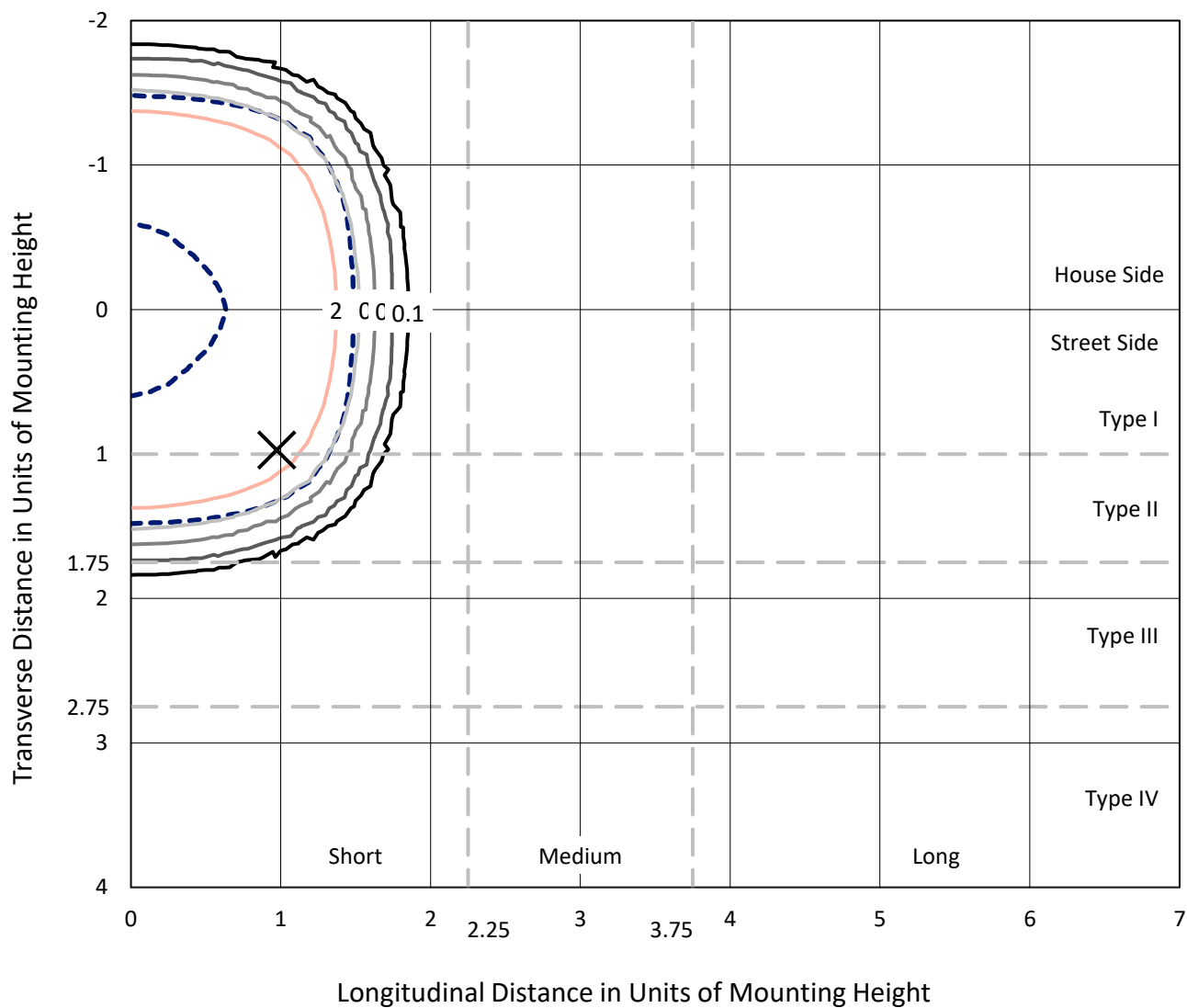
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

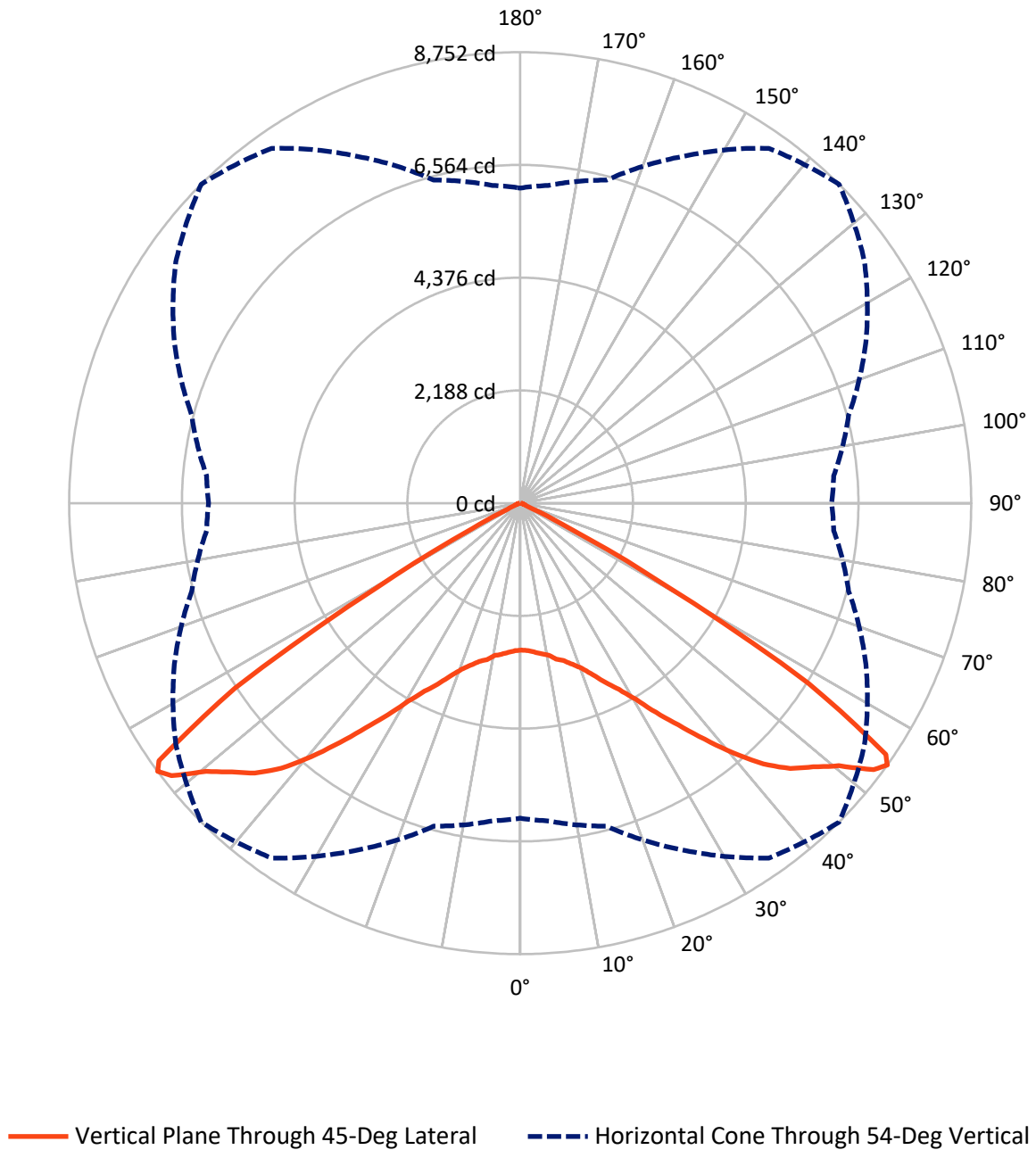
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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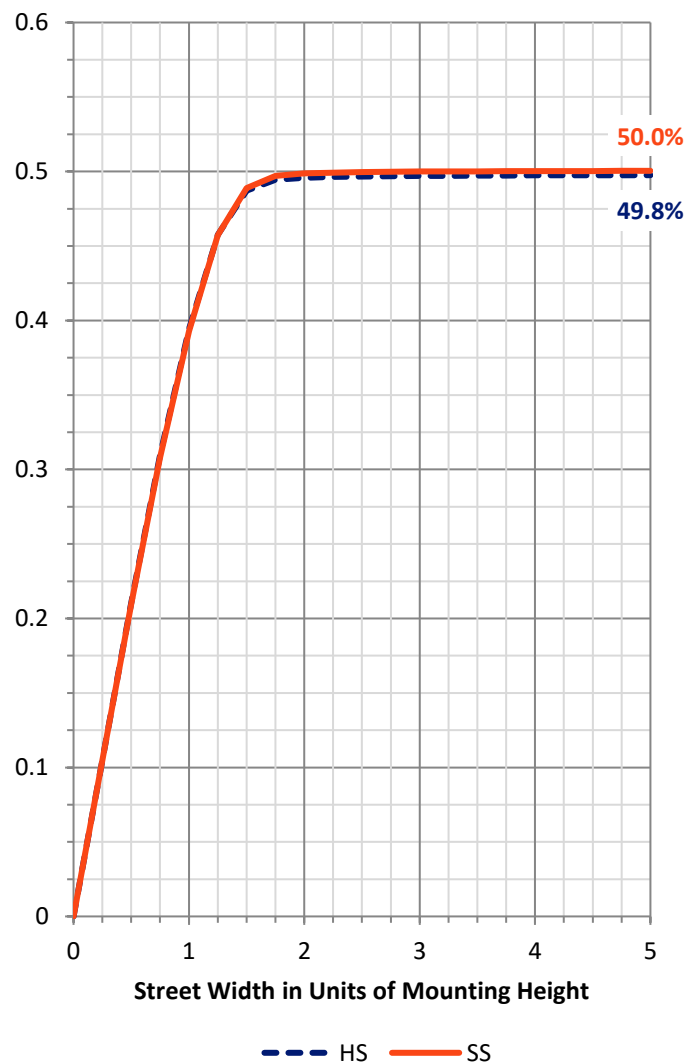
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8694.0	0.0	8694.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8694.0	0.0	8694.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17388.0	0.0	17388.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.1	1.6
10°-20°	903.7	5.2
20°-30°	1771.2	10.2
30°-40°	3184.9	18.3
40°-50°	5452.0	31.4
50°-60°	5275.3	30.3
60°-70°	451.6	2.6
70°-80°	53.5	0.3
80°-90°	16.8	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°	17388.0	100.0
0°-180°	17388.0	100.0

Coefficient of Utilization



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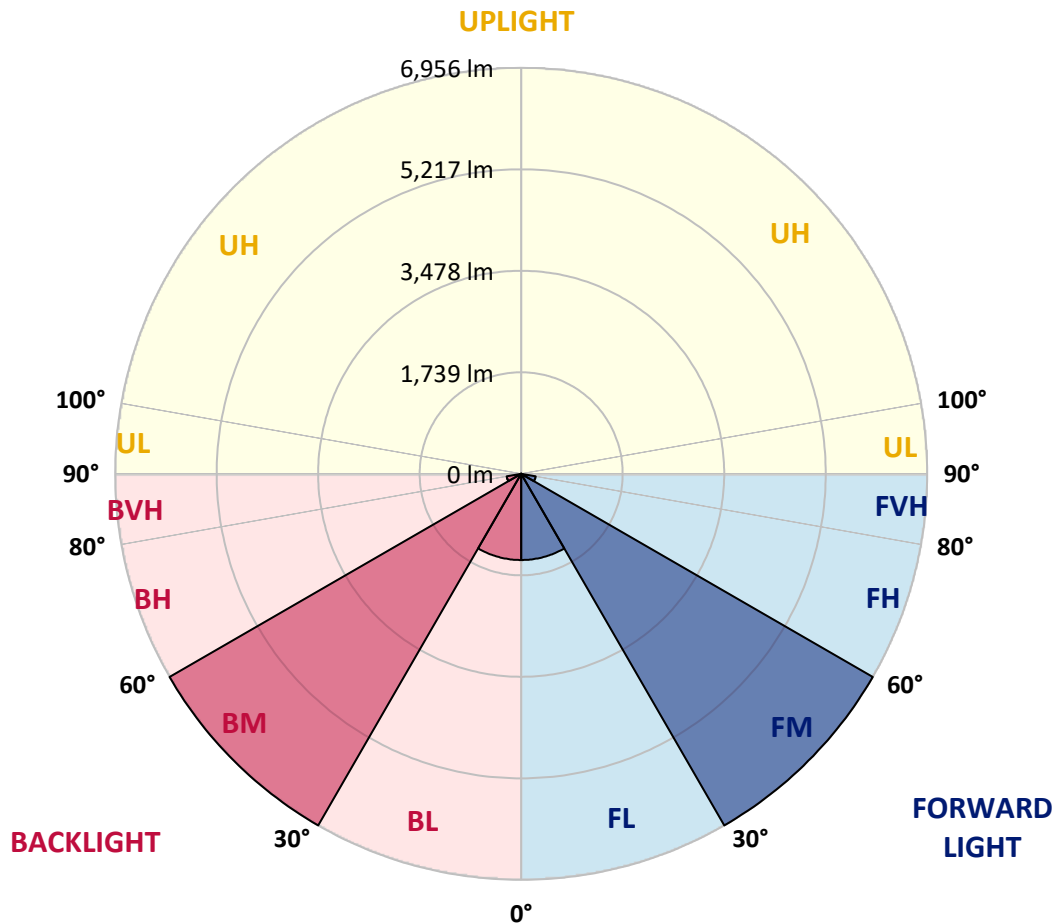
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1476.9	8.5			
FM	(30°-60°)	6956.1	40.0			
FH	(60°-80°)	252.6	1.5			G0/660
FVH	(80°-90°)	8.4	0.0			G0/10
BL	(0°-30°)	1476.9	8.5	B3/2500		
BM	(30°-60°)	6956.1	40.0	B4/8500		
BH	(60°-80°)	252.6	1.5	B1/500		G0/660
BVH	(80°-90°)	8.4	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-G0

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2851.1	2851.1	2851.1	2851.1	2851.1	2851.1	2851.1	2851.1	2851.1	2851.1	2851.1
2.5°	2864.9	2881.4	2870.4	2878.6	2878.6	2864.9	2873.1	2840.1	2862.1	2845.6	2848.3
5°	2908.9	2906.2	2906.2	2908.9	2897.9	2903.4	2892.4	2881.4	2873.1	2862.1	2895.2
7.5°	2964.0	2964.0	2944.7	2950.3	2944.7	2953.0	2931.0	2908.9	2900.7	2892.4	2886.9
10°	3016.4	3010.9	3002.6	3027.4	3008.1	2997.1	2986.1	2972.3	2942.0	2931.0	2920.0
12.5°	3093.5	3090.7	3079.7	3104.5	3093.5	3104.5	3063.2	3027.4	3021.9	2986.1	3005.4
15°	3184.4	3209.2	3189.9	3189.9	3184.4	3170.6	3154.1	3137.6	3088.0	3074.2	3077.0
17.5°	3302.9	3294.6	3297.3	3297.3	3324.9	3289.1	3256.0	3214.7	3189.9	3181.7	3154.1
20°	3415.8	3426.8	3424.1	3443.3	3459.9	3421.3	3385.5	3380.0	3311.1	3322.1	3283.6
22.5°	3614.1	3605.9	3619.6	3633.4	3622.4	3616.9	3583.8	3542.5	3481.9	3454.4	3448.9
25°	3823.5	3809.7	3784.9	3818.0	3834.5	3859.3	3795.9	3773.9	3680.2	3638.9	3641.7
27.5°	4002.5	4021.8	4049.4	4063.1	4104.5	4096.2	4052.1	3980.5	3908.9	3862.1	3831.8
30°	4247.7	4258.7	4305.6	4324.8	4396.5	4415.7	4346.9	4264.2	4137.5	4076.9	4041.1
32.5°	4473.6	4550.7	4548.0	4644.4	4760.1	4840.0	4716.0	4589.3	4462.6	4391.0	4327.6
35°	4840.0	4826.2	4906.1	5008.0	5195.3	5286.2	5151.2	5005.2	4812.4	4696.7	4647.1
37.5°	5181.5	5187.1	5294.5	5457.0	5671.9	5812.4	5693.9	5454.3	5255.9	5107.2	5038.3
40°	5677.4	5688.4	5798.6	5983.2	6225.6	6377.1	6239.3	5996.9	5732.5	5616.8	5616.8
42.5°	6258.6	6305.5	6377.1	6536.8	6754.5	6922.5	6798.5	6608.5	6341.3	6192.5	6214.6
45°	6856.4	6878.4	6925.3	7162.2	7264.1	7346.7	7231.0	7142.9	6963.8	6782.0	6751.7
47.5°	7415.6	7423.9	7561.6	7636.0	7715.8	7647.0	7721.4	7605.7	7404.6	7228.3	7192.5
50°	7663.5	7649.7	7845.3	8071.2	8131.8	8010.6	7947.2	7870.1	7564.3	7352.2	7258.6
52.5°	6941.8	7021.7	7385.3	8013.4	8487.2	8589.1	8220.0	7864.6	7294.4	6881.2	6817.8
54°	6115.4	6189.8	6490.0	7421.1	8407.3	8751.6	8156.6	7401.8	6597.5	6107.1	6043.8
55°	5297.2	5214.6	5760.0	6710.4	8032.6	8608.4	7905.9	6804.1	5884.0	5435.0	5346.8
57.5°	2867.6	2881.4	3341.4	4239.4	5644.3	6600.2	5828.9	4603.1	3476.4	2972.3	2928.2
60°	909.0	931.1	1132.2	1713.4	2696.8	3220.2	2760.2	1848.4	1278.2	1024.7	983.4
62.5°	283.7	294.8	322.3	479.3	738.3	1055.0	826.4	495.8	369.1	338.8	344.3
65°	173.5	173.5	176.3	187.3	220.4	256.2	247.9	217.6	209.4	203.8	201.1
67.5°	112.9	110.2	115.7	124.0	129.5	132.2	140.5	148.8	146.0	140.5	140.5
70°	68.9	66.1	71.6	82.6	85.4	90.9	99.2	110.2	107.4	101.9	104.7
72.5°	38.6	38.6	41.3	49.6	57.8	63.4	71.6	79.9	82.6	79.9	79.9
75°	13.8	16.5	22.0	30.3	35.8	44.1	52.3	60.6	68.9	63.4	60.6
77.5°	5.5	5.5	11.0	19.3	27.5	35.8	49.6	57.8	63.4	57.8	52.3
80°	2.8	2.8	8.3	16.5	24.8	33.1	41.3	49.6	52.3	46.8	41.3
82.5°	2.8	2.8	8.3	16.5	24.8	30.3	44.1	49.6	55.1	49.6	41.3
85°	0.0	2.8	8.3	16.5	22.0	24.8	24.8	16.5	13.8	8.3	8.3
87.5°	0.0	0.0	2.8	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)