

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: P528560

Luminaire Tested: **GALN-SA3C-830-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528560
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-SA3C-830-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 14721 lumens
Efficiency: N/A
Efficacy: 92.0 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): 160
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



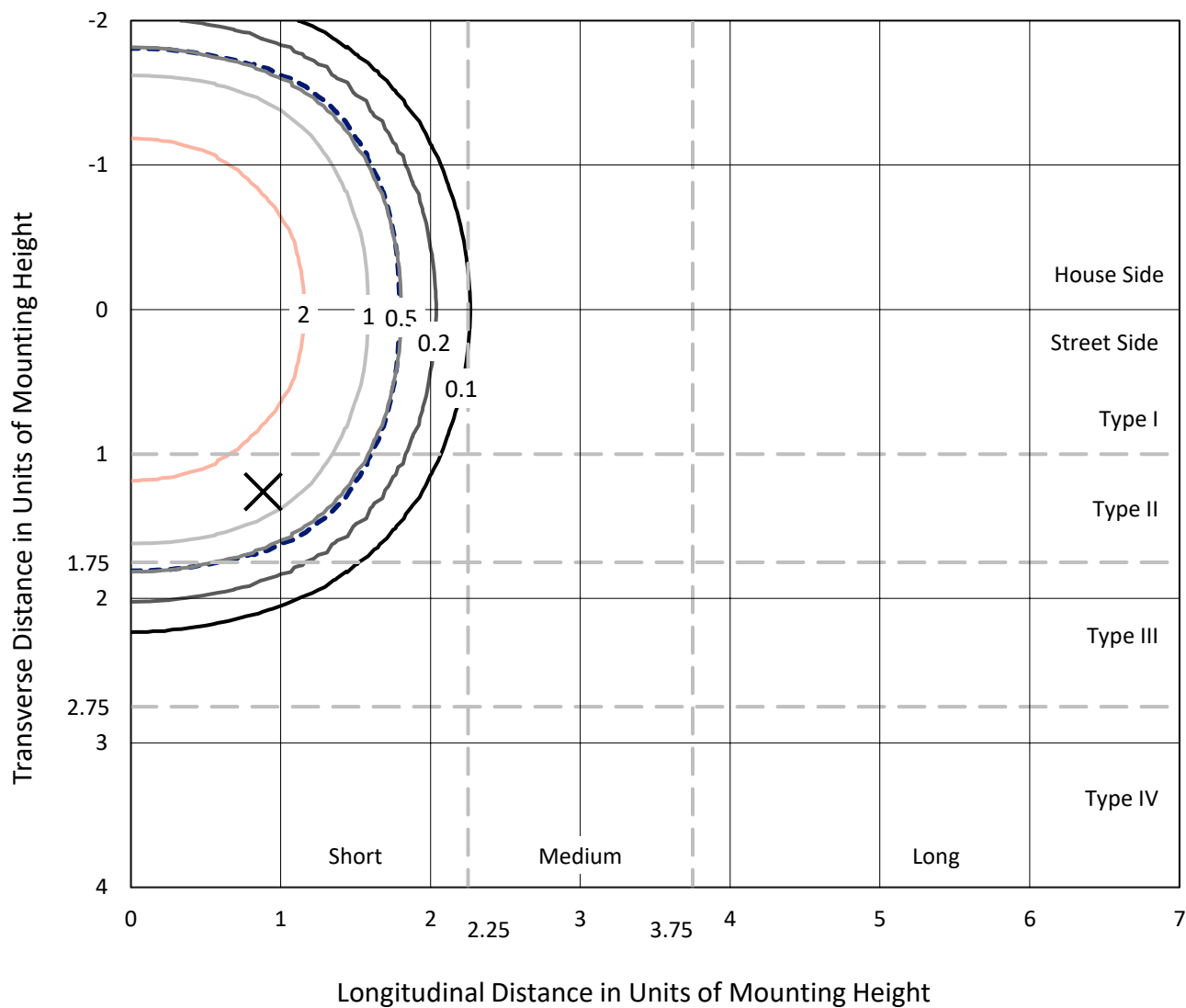
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

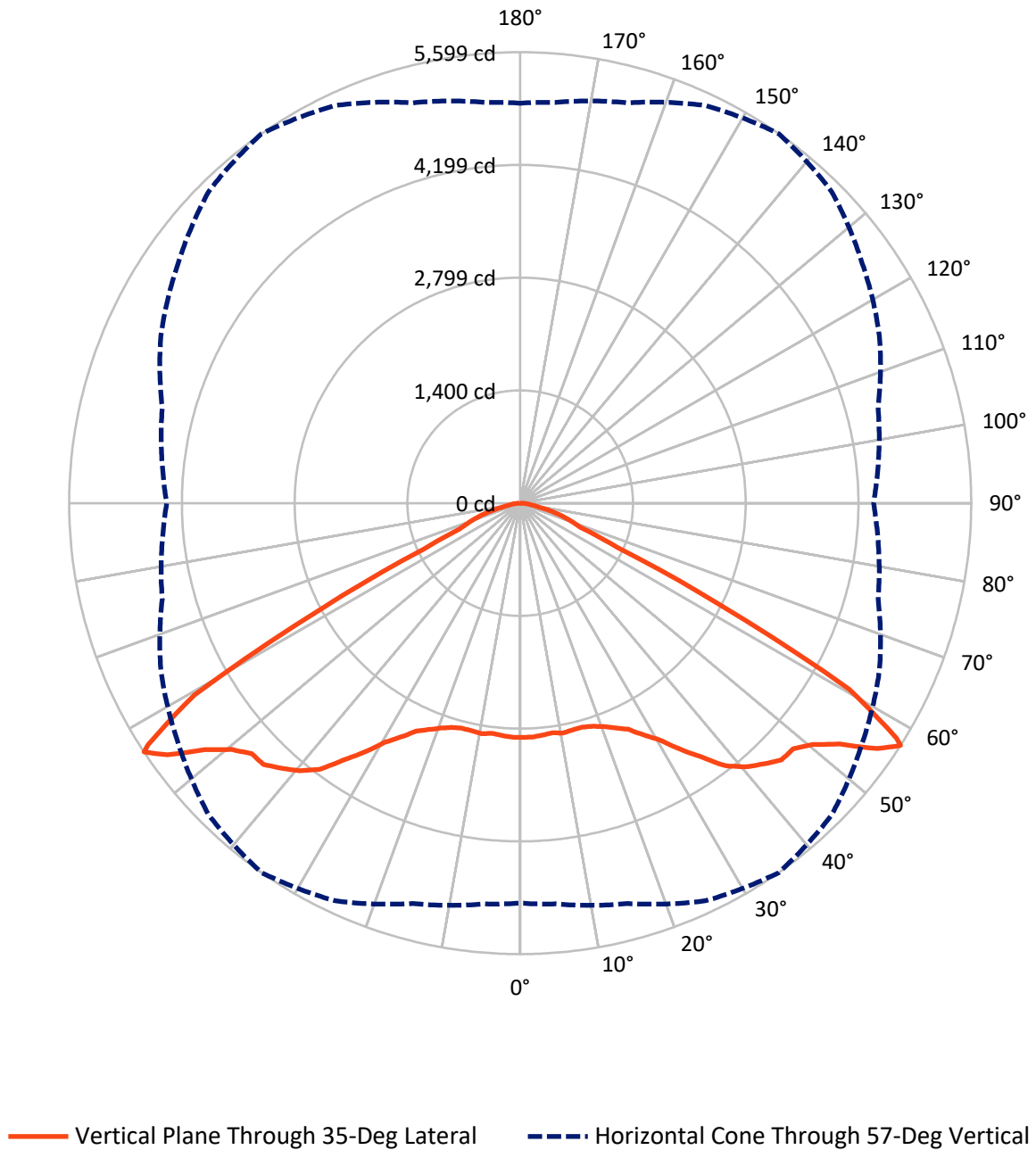


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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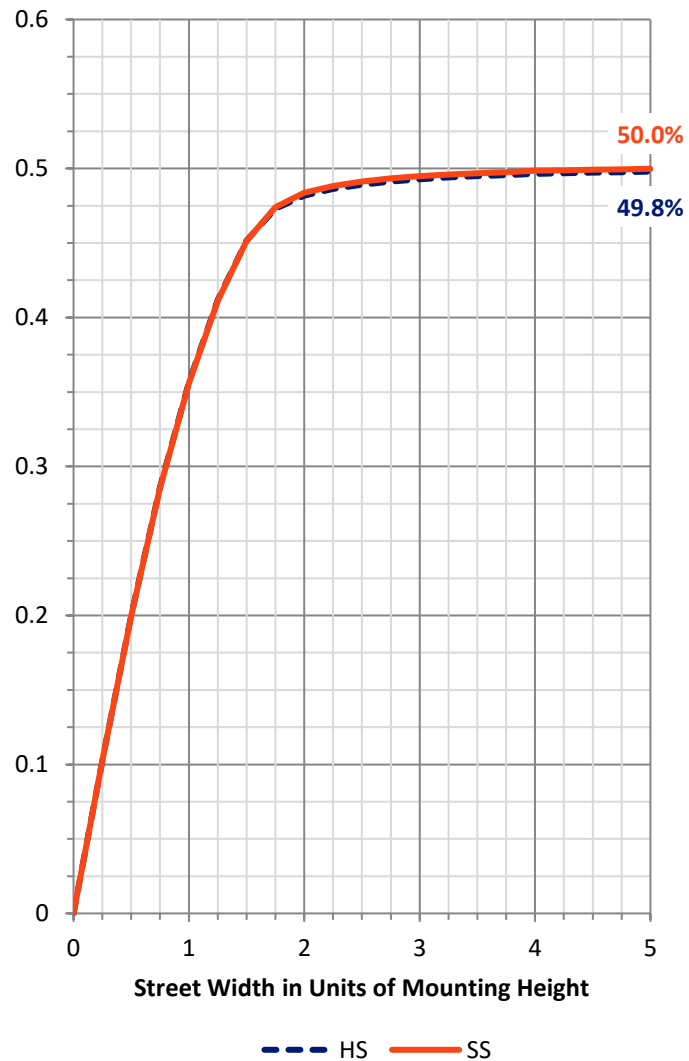
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7360.5	0.0	7360.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7360.5	0.0	7360.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14721.0	0.0	14721.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.6	1.9
10°-20°	816.3	5.5
20°-30°	1425.7	9.7
30°-40°	2336.0	15.9
40°-50°	3425.2	23.3
50°-60°	4314.3	29.3
60°-70°	1622.6	11.0
70°-80°	431.4	2.9
80°-90°	74.0	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°	14721.0	100.0
0°-180°	14721.0	100.0

Coefficient of Utilization



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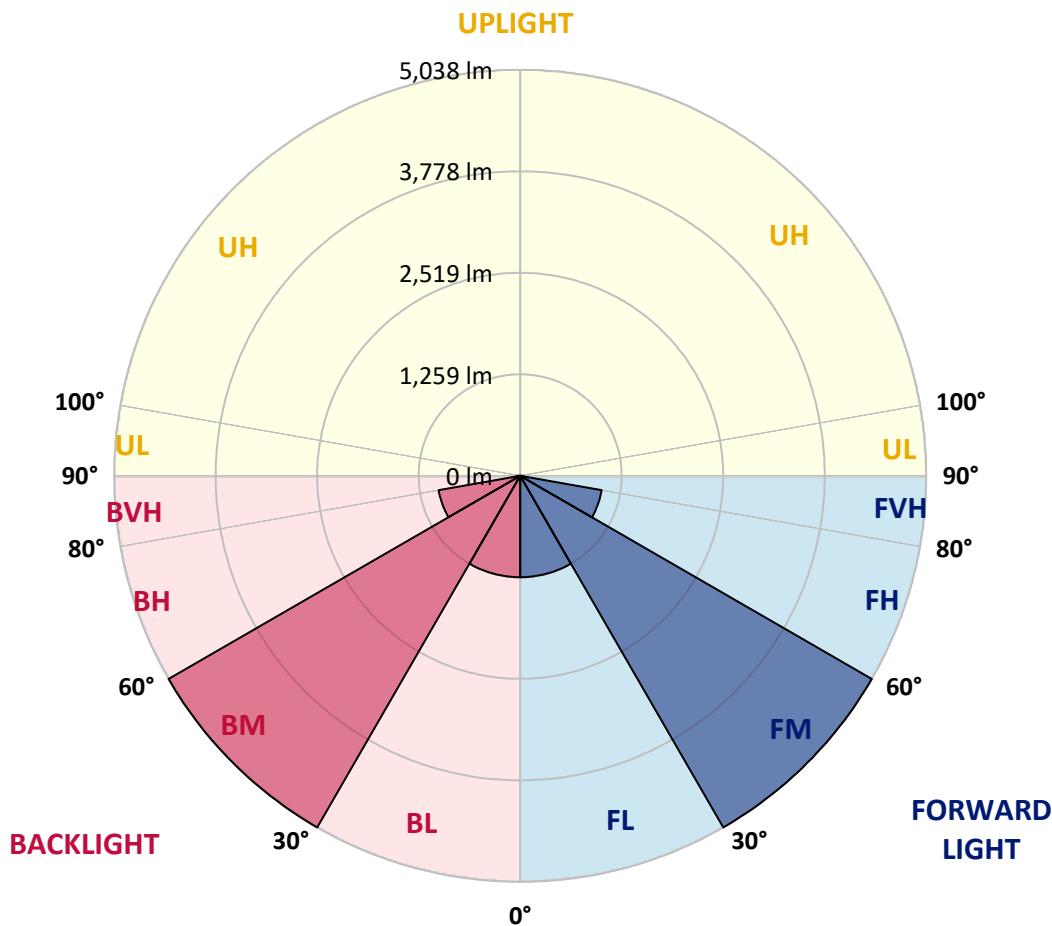
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1258.8	8.6			
FM	(30°-60°)	5037.7	34.2			
FH	(60°-80°)	1027.0	7.0			G1/1800
FVH	(80°-90°)	37.0	0.3			G1/100
BL	(0°-30°)	1258.8	8.6	B3/2500		
BM	(30°-60°)	5037.7	34.2	B4/8500		
BH	(60°-80°)	1027.0	7.0	B3/2500		G1/1800
BVH	(80°-90°)	37.0	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°	2907.3	2907.3	2907.3	2907.3	2907.3	2907.3	2907.3	2907.3	2907.3	2907.3	2907.3
2.5°	2892.8	2921.8	2909.1	2901.8	2907.3	2898.2	2883.7	2900.0	2896.4	2881.9	2876.5
5°	2885.5	2907.3	2892.8	2907.3	2892.8	2918.2	2910.9	2883.7	2916.4	2885.5	2896.4
7.5°	2880.1	2887.3	2891.0	2883.7	2878.3	2909.1	2892.8	2880.1	2861.9	2856.5	2865.6
10°	2867.4	2885.5	2858.3	2894.6	2901.8	2880.1	2880.1	2856.5	2842.0	2832.9	2863.8
12.5°	2900.0	2869.2	2865.6	2883.7	2889.2	2898.2	2872.8	2860.1	2832.9	2836.6	2831.1
15°	2861.9	2874.6	2876.5	2880.1	2885.5	2907.3	2883.7	2856.5	2845.6	2807.5	2811.2
17.5°	2876.5	2863.8	2876.5	2918.2	2910.9	2927.2	2901.8	2860.1	2834.7	2813.0	2842.0
20°	2901.8	2896.4	2901.8	2952.6	2961.7	2976.2	2954.4	2916.4	2867.4	2842.0	2856.5
22.5°	2929.1	2925.4	2929.1	2978.0	3030.6	3048.8	3027.0	2938.1	2912.7	2865.6	2849.3
25°	2978.0	2981.6	3019.7	3074.1	3108.6	3143.1	3103.2	3039.7	2958.1	2929.1	2894.6
27.5°	3086.8	3095.9	3117.7	3197.5	3257.3	3288.2	3231.9	3144.9	3094.1	3034.2	3025.2
30°	3221.1	3221.1	3259.1	3328.1	3409.7	3456.8	3387.9	3284.5	3222.9	3190.2	3170.3
32.5°	3398.8	3378.8	3393.3	3514.9	3641.8	3681.7	3589.2	3462.3	3364.3	3320.8	3306.3
35°	3551.1	3563.8	3596.5	3727.1	3868.5	3961.0	3815.9	3650.9	3551.1	3511.2	3504.0
37.5°	3748.8	3770.6	3786.9	3966.5	4136.9	4171.4	4031.8	3899.4	3777.8	3745.2	3727.1
40°	4028.1	4013.6	4019.1	4151.5	4305.6	4327.4	4189.5	4095.2	3995.5	3975.5	3975.5
42.5°	4258.5	4242.1	4260.3	4309.2	4427.1	4410.8	4334.6	4265.7	4224.0	4202.2	4224.0
45°	4398.1	4394.5	4427.1	4463.4	4546.8	4492.4	4432.6	4443.5	4403.6	4367.3	4365.5
47.5°	4550.5	4526.9	4566.8	4621.2	4557.7	4532.3	4528.7	4552.3	4539.6	4476.1	4456.2
50°	4624.8	4615.8	4679.2	4742.7	4708.2	4650.2	4662.9	4701.0	4537.8	4452.5	4403.6
52.5°	4824.3	4826.1	4947.7	4982.1	4967.6	4882.4	4909.6	4806.2	4613.9	4494.2	4499.7
55°	5138.1	5125.4	5261.4	5363.0	5379.3	5270.5	5139.9	4994.8	4753.6	4632.1	4595.8
57°	4965.8	4994.8	5145.3	5446.4	5598.8	5470.0	5185.2	4920.4	4599.4	4452.5	4387.2
57.5°	4735.5	4782.6	5043.8	5346.7	5506.3	5495.4	5129.0	4782.6	4496.1	4267.5	4273.0
60°	3469.5	3478.6	3714.4	4195.0	4693.7	4704.6	4258.5	3799.6	3480.4	3231.9	3266.4
62.5°	1830.0	1871.7	1966.0	2352.3	2784.0	2889.2	2618.9	2383.1	2107.5	1918.8	1937.0
65°	968.5	963.1	1008.4	1117.2	1329.4	1383.8	1347.5	1160.7	1064.6	1033.8	1035.6
67.5°	787.1	796.2	790.8	796.2	810.7	834.3	828.8	836.1	841.5	850.6	848.8
70°	667.4	667.4	671.1	672.9	672.9	683.7	696.4	720.0	721.8	730.9	734.5
72.5°	526.0	522.3	527.8	540.5	542.3	551.4	569.5	584.0	589.4	589.4	578.6
75°	357.3	360.9	368.2	379.1	389.9	406.3	420.8	429.8	433.5	428.0	422.6
77.5°	201.3	204.9	210.4	226.7	239.4	253.9	270.2	279.3	288.4	290.2	279.3
80°	119.7	119.7	128.8	141.5	156.0	170.5	185.0	195.9	199.5	199.5	194.1
82.5°	72.5	74.4	81.6	94.3	107.0	116.1	128.8	137.8	145.1	143.3	139.7
85°	38.1	38.1	45.3	56.2	65.3	74.4	74.4	68.9	65.3	56.2	52.6
87.5°	12.7	10.9	14.5	14.5	12.7	14.5	14.5	16.3	16.3	16.3	16.3
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)