

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: P529264

Luminaire Tested: **GALN-SA4B-830-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16112 lumens
Efficiency: N/A
Efficacy: 98.2 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): 164
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

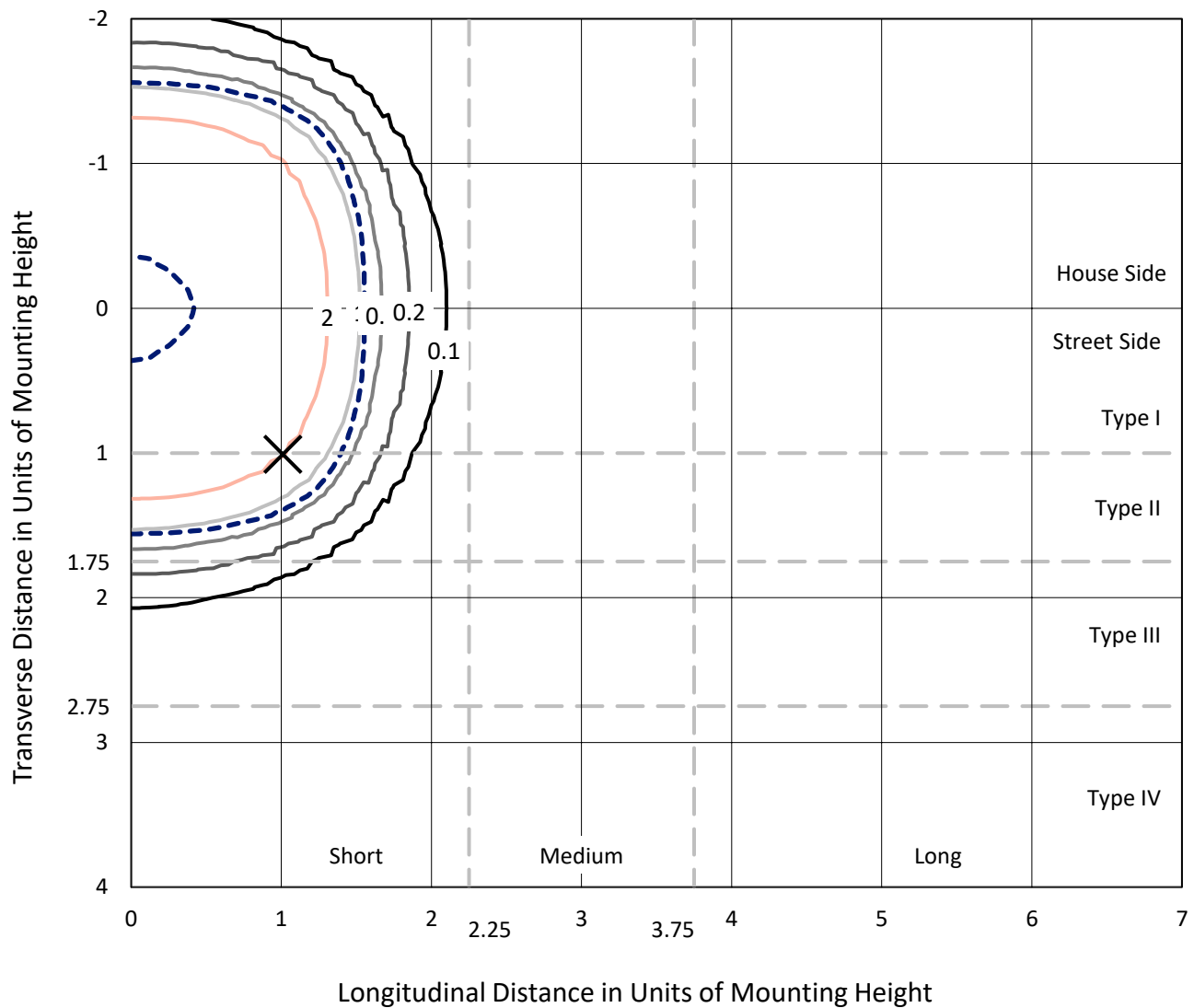


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

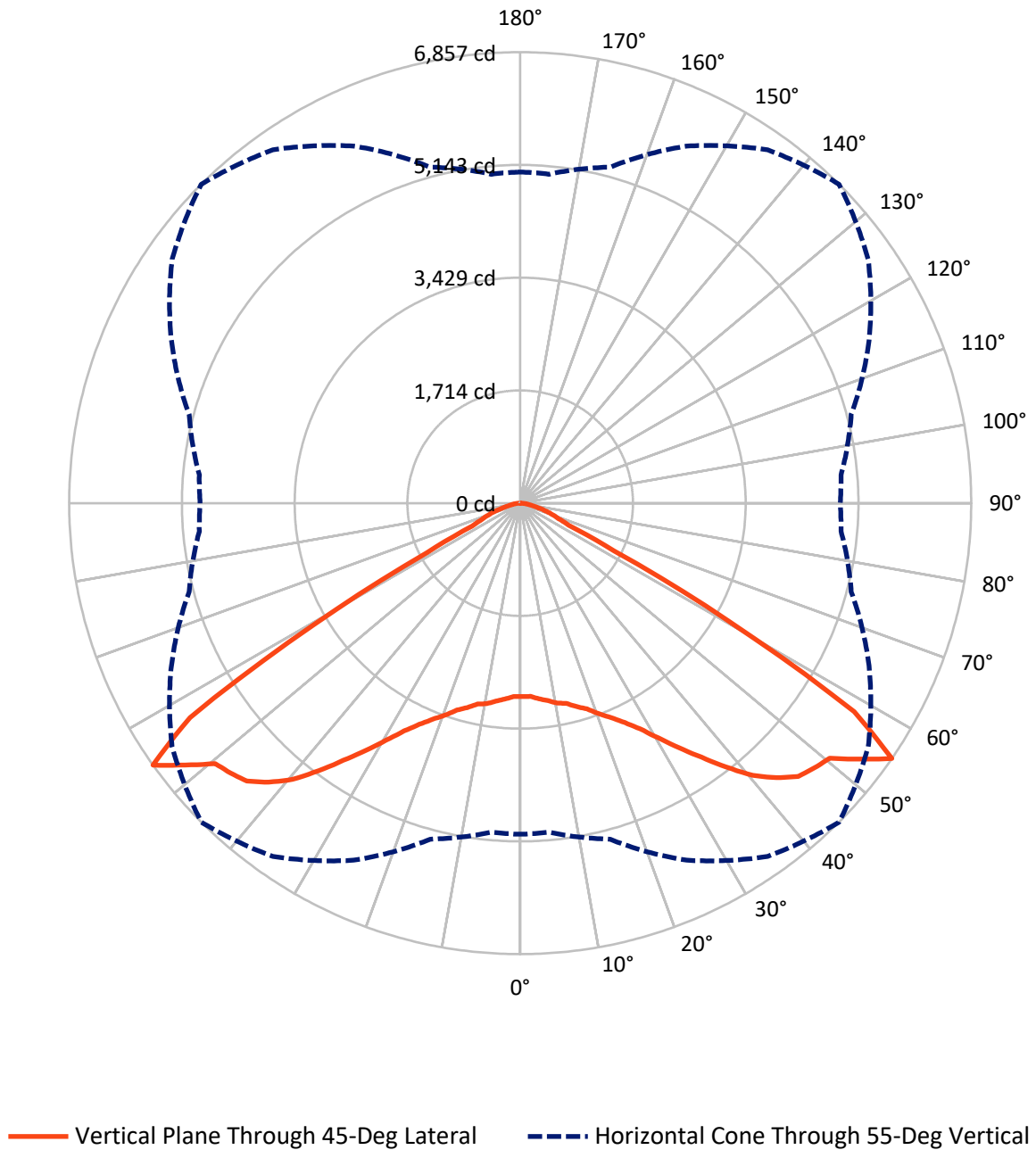


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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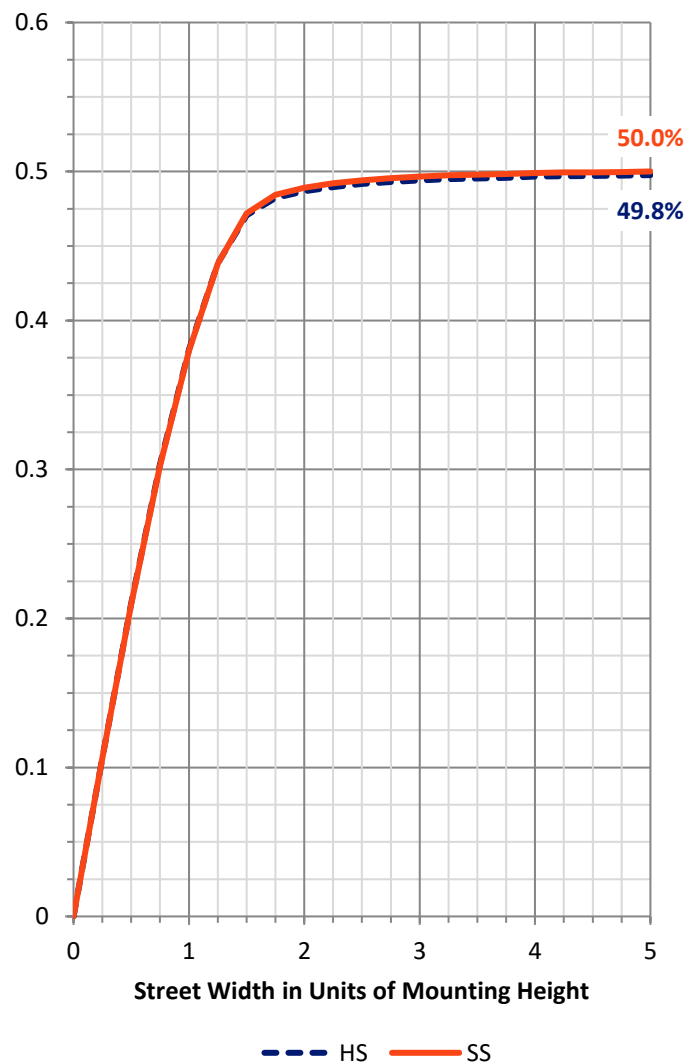
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8056.0	0.0	8056.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8056.0	0.0	8056.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16112.0	0.0	16112.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.4	1.8
10°-20°	910.6	5.7
20°-30°	1698.0	10.5
30°-40°	2842.9	17.6
40°-50°	4423.8	27.5
50°-60°	4593.3	28.5
60°-70°	974.1	6.0
70°-80°	320.8	2.0
80°-90°	61.1	0.4
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°	16112.0	100.0
0°-180°	16112.0	100.0

Coefficient of Utilization



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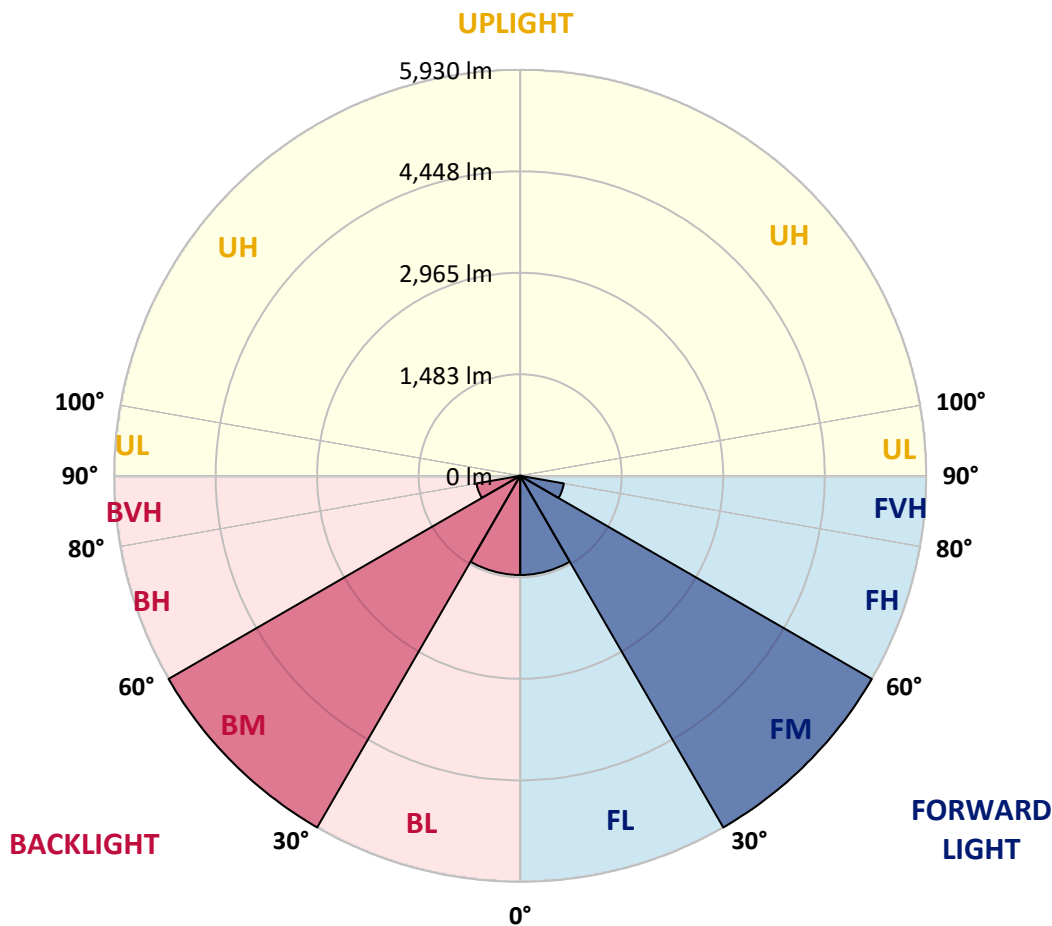
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1448.0	9.0			
FM	(30°-60°)	5930.0	36.8			
FH	(60°-80°)	647.4	4.0			G0/660
FVH	(80°-90°)	30.5	0.2			G1/100
BL	(0°-30°)	1448.0	9.0	B3/2500		
BM	(30°-60°)	5930.0	36.8	B4/8500		
BH	(60°-80°)	647.4	4.0	B2/1000		G0/660
BVH	(80°-90°)	30.5	0.2			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°	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8
2.5°	2976.9	2963.2	2939.9	2957.4	2971.0	2941.8	2953.5	2959.3	2955.4	2939.9	2945.7
5°	3019.7	3011.9	2992.4	3006.1	2988.5	2988.5	2976.9	2961.3	2984.6	2980.7	2990.5
7.5°	3019.7	3010.0	3048.9	3023.6	3031.4	3031.4	3011.9	2996.3	3008.0	2990.5	2980.7
10°	3080.0	3093.7	3076.1	3082.0	3078.1	3091.7	3062.5	3052.8	3043.1	3037.2	3025.5
12.5°	3152.1	3142.3	3148.2	3144.3	3157.9	3122.9	3105.4	3083.9	3101.5	3076.1	3093.7
15°	3210.5	3204.6	3210.5	3226.1	3212.4	3210.5	3179.3	3157.9	3130.7	3136.5	3109.2
17.5°	3290.3	3284.5	3286.4	3300.0	3298.1	3288.4	3265.0	3224.1	3214.4	3198.8	3181.3
20°	3409.1	3399.3	3395.4	3401.3	3411.0	3418.8	3372.1	3356.5	3323.4	3298.1	3268.9
22.5°	3510.3	3506.4	3522.0	3496.7	3518.1	3541.5	3496.7	3488.9	3407.1	3393.5	3362.3
25°	3650.5	3644.7	3634.9	3671.9	3697.2	3695.3	3652.4	3609.6	3547.3	3531.7	3531.7
27.5°	3798.5	3765.4	3816.0	3825.7	3870.5	3884.1	3847.1	3784.8	3726.4	3693.3	3701.1
30°	3983.4	3952.3	3963.9	4034.0	4092.4	4143.1	4049.6	3958.1	3876.3	3817.9	3808.2
32.5°	4168.4	4137.2	4172.3	4240.4	4357.2	4433.2	4341.7	4182.0	4086.6	4000.9	4018.5
35°	4318.3	4341.7	4398.1	4501.3	4622.0	4744.7	4598.6	4476.0	4339.7	4244.3	4257.9
37.5°	4559.7	4631.7	4676.5	4795.3	4966.6	5093.2	4941.3	4781.7	4635.6	4511.0	4468.2
40°	4875.1	4923.8	4974.4	5114.6	5317.1	5443.6	5299.5	5091.2	4947.1	4818.7	4812.8
42.5°	5221.7	5268.4	5321.0	5492.3	5613.0	5708.4	5576.0	5465.0	5305.4	5204.1	5198.3
45°	5624.7	5591.6	5650.0	5762.9	5864.2	5926.5	5840.8	5786.3	5671.4	5578.0	5568.2
47.5°	5893.4	5864.2	5969.3	6070.5	6086.1	6018.0	6035.5	6086.1	5965.4	5811.6	5860.3
50°	6049.1	6049.1	6119.2	6212.7	6183.4	6095.8	6234.1	6238.0	6117.3	5981.0	5981.0
52.5°	5778.5	5838.8	6037.4	6343.1	6440.4	6465.8	6434.6	6302.2	5986.8	5708.4	5694.8
55°	5034.8	5021.1	5289.8	5990.7	6557.3	6857.1	6459.9	5850.5	5210.0	4896.5	4865.4
57.5°	3274.7	3290.3	3691.4	4405.9	5428.0	5986.8	5317.1	4460.4	3691.4	3259.2	3300.0
60°	1473.8	1526.4	1769.8	2303.2	3181.3	3636.9	3189.1	2420.0	1857.4	1612.1	1633.5
62.5°	846.9	856.6	866.4	1028.0	1355.1	1602.3	1407.6	1086.4	957.9	915.1	915.1
65°	714.5	708.7	710.6	724.3	759.3	809.9	788.5	759.3	763.2	759.3	753.5
67.5°	607.4	615.2	609.4	619.1	621.1	628.9	642.5	654.2	656.1	660.0	656.1
70°	498.4	500.4	504.3	512.0	514.0	519.8	539.3	549.0	554.9	554.9	562.7
72.5°	381.6	379.7	383.5	391.3	401.1	403.0	420.5	434.2	442.0	432.2	434.2
75°	251.2	253.1	258.9	264.8	278.4	292.0	297.9	311.5	313.5	317.3	307.6
77.5°	149.9	153.8	159.6	171.3	183.0	194.7	208.3	218.1	221.9	218.1	206.4
80°	97.3	97.3	105.1	114.9	128.5	138.2	146.0	153.8	159.6	153.8	149.9
82.5°	60.4	60.4	70.1	81.8	91.5	97.3	109.0	118.8	124.6	120.7	114.9
85°	31.2	33.1	40.9	50.6	58.4	62.3	60.4	54.5	48.7	46.7	42.8
87.5°	9.7	9.7	11.7	11.7	9.7	9.7	11.7	9.7	11.7	11.7	11.7
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)