

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: P528564

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
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-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14149 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - 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

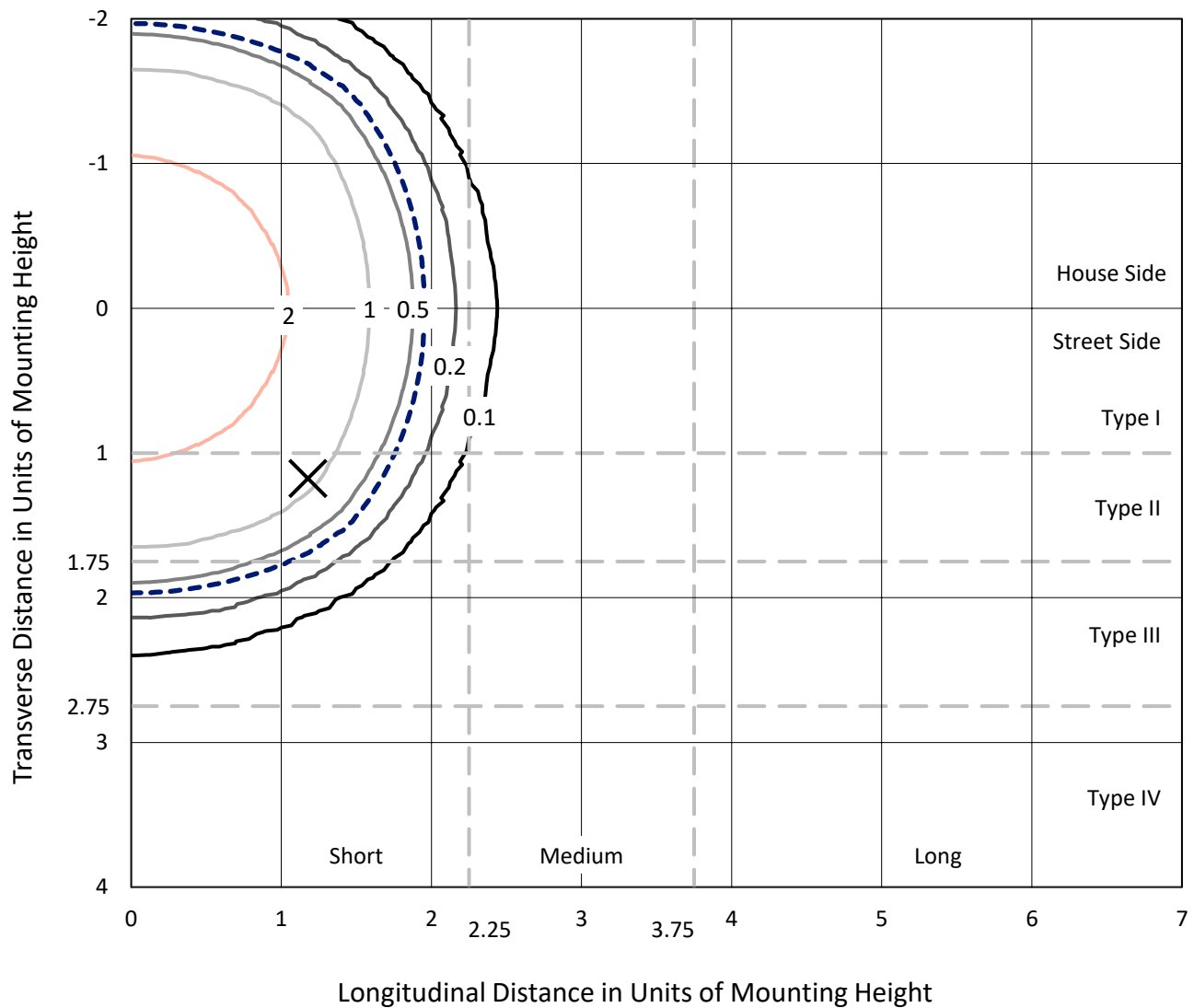


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

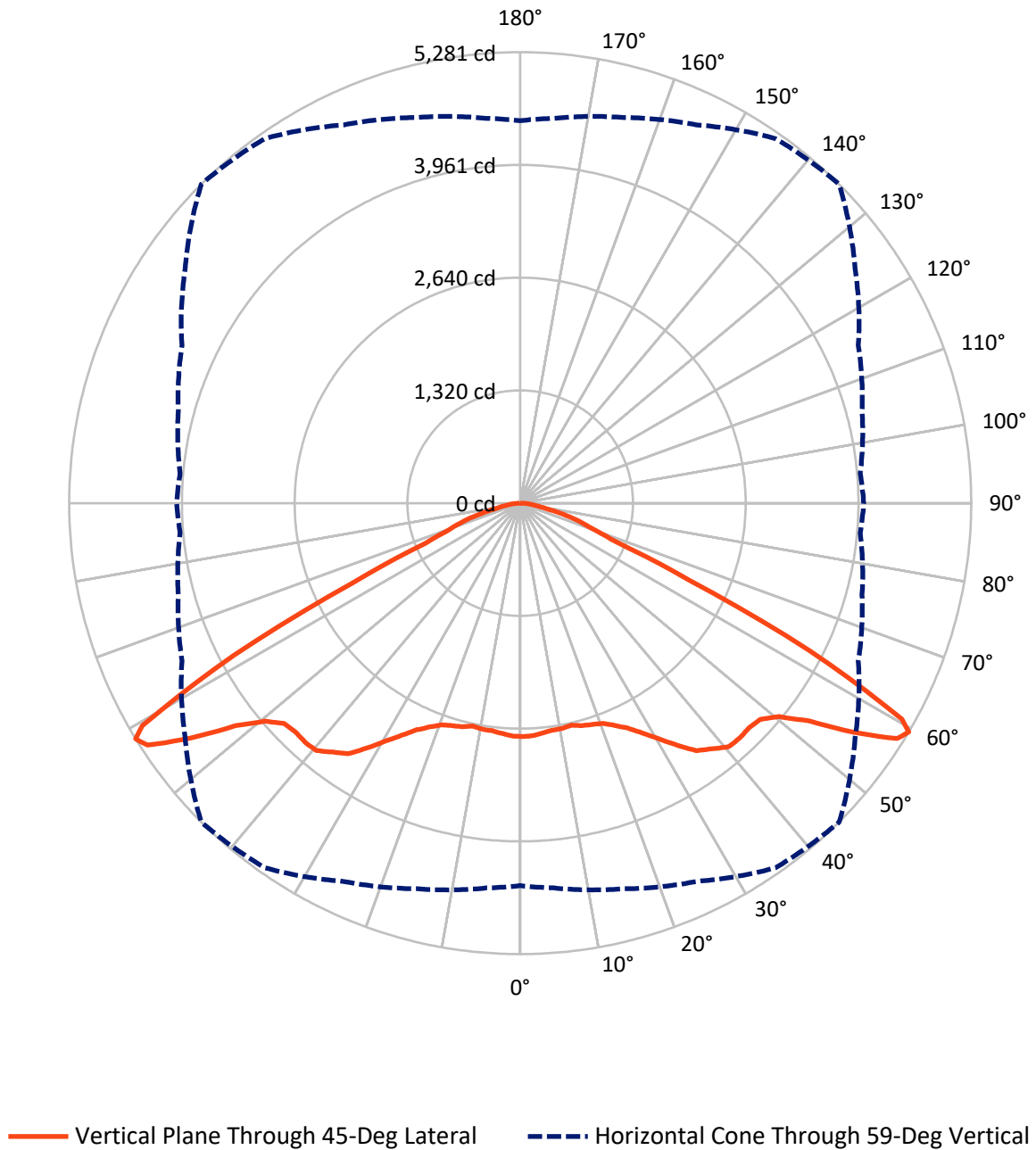


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7074.5	0.0	7074.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7074.5	0.0	7074.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14149.0	0.0	14149.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.6	1.8
10°-20°	766.1	5.4
20°-30°	1337.8	9.5
30°-40°	2136.6	15.1
40°-50°	2910.5	20.6
50°-60°	3935.7	27.8
60°-70°	2158.4	15.3
70°-80°	552.2	3.9
80°-90°	94.2	0.7
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°	14149.0	100.0
0°-180°	14149.0	100.0

Coefficient of Utilization



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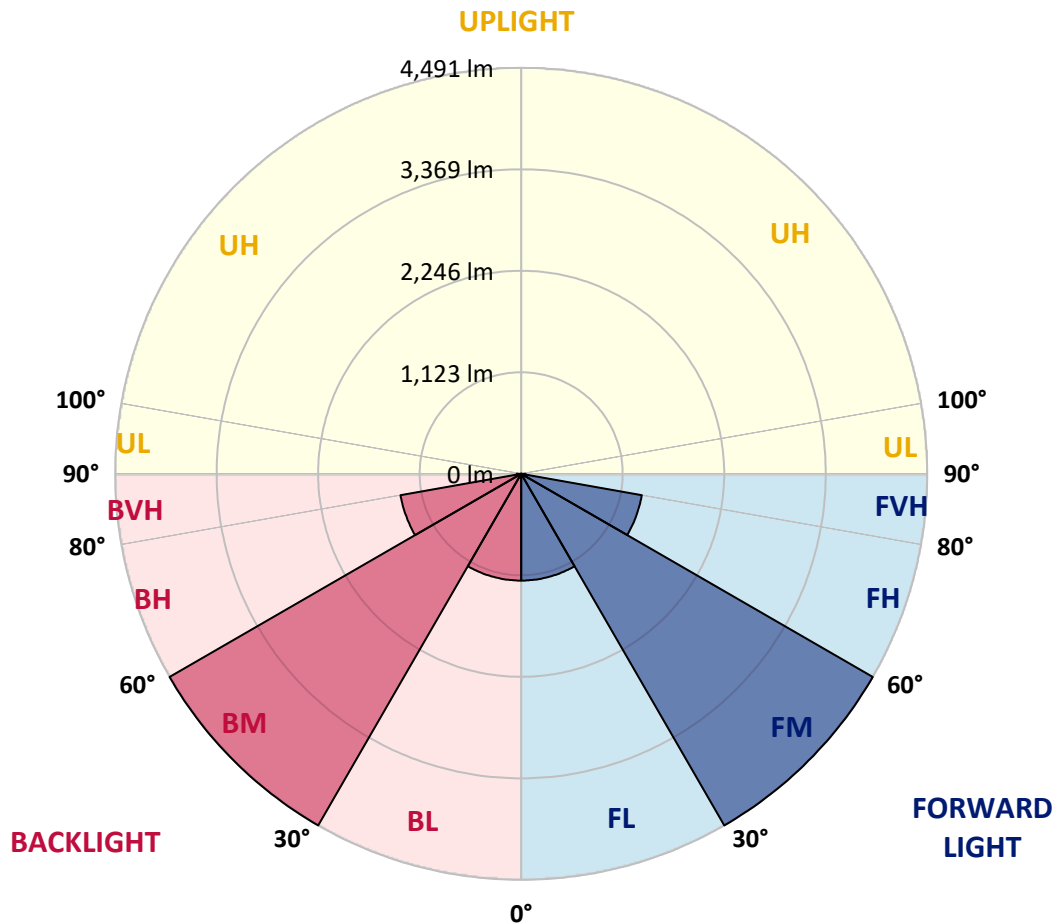
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1180.8	8.3			
FM	(30°-60°)	4491.4	31.7			
FH	(60°-80°)	1355.3	9.6			G1/1800
FVH	(80°-90°)	47.1	0.3			G1/100
BL	(0°-30°)	1180.8	8.3	B3/2500		
BM	(30°-60°)	4491.4	31.7	B3/5000		
BH	(60°-80°)	1355.3	9.6	B3/2500		G1/1800
BVH	(80°-90°)	47.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2732.9	2732.9	2732.9	2732.9	2732.9	2732.9	2732.9	2732.9	2732.9	2732.9	2732.9
2.5°	2716.6	2736.5	2722.0	2734.7	2732.9	2727.5	2718.4	2713.0	2705.7	2716.6	2698.5
5°	2705.7	2722.0	2738.4	2716.6	2716.6	2705.7	2700.3	2689.4	2689.4	2687.6	2685.8
7.5°	2723.8	2707.5	2700.3	2703.9	2707.5	2683.9	2700.3	2678.5	2660.4	2673.1	2687.6
10°	2707.5	2714.8	2687.6	2700.3	2680.3	2683.9	2673.1	2687.6	2667.6	2667.6	2667.6
12.5°	2723.8	2703.9	2713.0	2703.9	2698.5	2667.6	2682.1	2665.8	2664.0	2682.1	2665.8
15°	2756.5	2723.8	2716.6	2698.5	2703.9	2703.9	2689.4	2691.2	2671.3	2682.1	2685.8
17.5°	2745.6	2727.5	2722.0	2700.3	2718.4	2723.8	2696.6	2678.5	2691.2	2689.4	2687.6
20°	2754.7	2761.9	2756.5	2760.1	2767.4	2752.9	2727.5	2702.1	2685.8	2709.3	2707.5
22.5°	2812.7	2805.4	2801.8	2798.2	2810.9	2825.4	2790.9	2751.0	2751.0	2767.4	2774.6
25°	2859.9	2858.0	2856.2	2872.5	2916.1	2916.1	2872.5	2821.8	2809.1	2820.0	2810.9
27.5°	2928.8	2948.7	2941.5	2970.5	3033.9	3048.5	2990.4	2930.6	2896.1	2883.4	2899.8
30°	3086.5	3063.0	3068.4	3099.2	3155.5	3202.6	3113.7	3050.3	3003.1	3001.3	3008.6
32.5°	3191.7	3209.9	3226.2	3255.2	3344.1	3380.3	3273.3	3170.0	3140.9	3124.6	3130.1
35°	3402.1	3385.8	3382.1	3411.2	3500.0	3559.9	3425.7	3335.0	3296.9	3333.2	3333.2
37.5°	3601.6	3556.2	3521.8	3559.9	3641.5	3648.7	3534.5	3485.5	3465.6	3507.3	3505.5
40°	3695.9	3692.2	3612.4	3634.2	3743.0	3753.9	3646.9	3588.9	3585.2	3639.6	3694.1
42.5°	3793.8	3759.3	3679.5	3694.1	3761.2	3764.8	3663.2	3646.9	3686.8	3739.4	3743.0
45°	3810.1	3781.1	3730.3	3694.1	3743.0	3753.9	3694.1	3704.9	3708.6	3772.0	3772.0
47.5°	3842.8	3839.1	3810.1	3782.9	3792.0	3782.9	3744.8	3761.2	3815.6	3846.4	3831.9
50°	3933.4	3895.3	3924.4	3900.8	3902.6	3928.0	3893.5	3909.9	3899.0	3871.8	3853.6
52.5°	4132.9	4114.8	4140.2	4156.5	4174.6	4232.7	4192.8	4105.7	4024.1	3951.6	3949.8
55°	4424.9	4437.6	4486.5	4570.0	4640.7	4733.2	4540.9	4332.4	4201.8	4087.6	4094.8
57.5°	4700.5	4691.5	4758.6	4949.0	5155.7	5202.9	4825.7	4528.3	4316.1	4243.5	4212.7
59°	4479.3	4522.8	4675.1	4887.3	5211.9	5280.8	4787.6	4368.7	4143.8	3996.9	4022.3
60°	4131.1	4147.4	4283.4	4579.0	5017.9	5135.8	4531.9	4122.0	3822.8	3737.6	3775.7
62.5°	2919.7	2907.0	3004.9	3246.1	3639.6	3799.2	3369.4	3081.1	2892.5	2798.2	2820.0
65°	1552.3	1610.4	1650.3	1800.8	2009.3	2178.0	2000.3	1875.1	1770.0	1692.0	1690.2
67.5°	1048.2	1040.9	1050.0	1084.5	1155.2	1202.3	1198.7	1135.2	1126.2	1111.7	1128.0
70°	883.2	879.5	863.2	863.2	877.7	888.6	901.3	908.6	923.1	941.2	939.4
72.5°	716.3	707.3	696.4	690.9	709.1	714.5	730.8	738.1	750.8	749.0	765.3
75°	473.3	473.3	486.0	500.5	506.0	516.8	518.7	540.4	540.4	544.0	529.5
77.5°	264.8	257.5	266.6	281.1	293.8	313.7	333.7	350.0	359.1	355.4	355.4
80°	154.1	154.1	163.2	179.5	195.9	214.0	228.5	241.2	250.3	246.6	239.4
82.5°	96.1	96.1	105.2	121.5	134.2	145.1	165.0	181.3	192.2	188.6	179.5
85°	49.0	49.0	59.8	70.7	87.0	94.3	92.5	85.2	83.4	74.4	74.4
87.5°	12.7	12.7	18.1	19.9	16.3	18.1	18.1	18.1	18.1	18.1	19.9
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)