

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: P529266

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529266
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-SA4B-830-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA 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: 15175 lumens
Efficiency: N/A
Efficacy: 92.5 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): 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



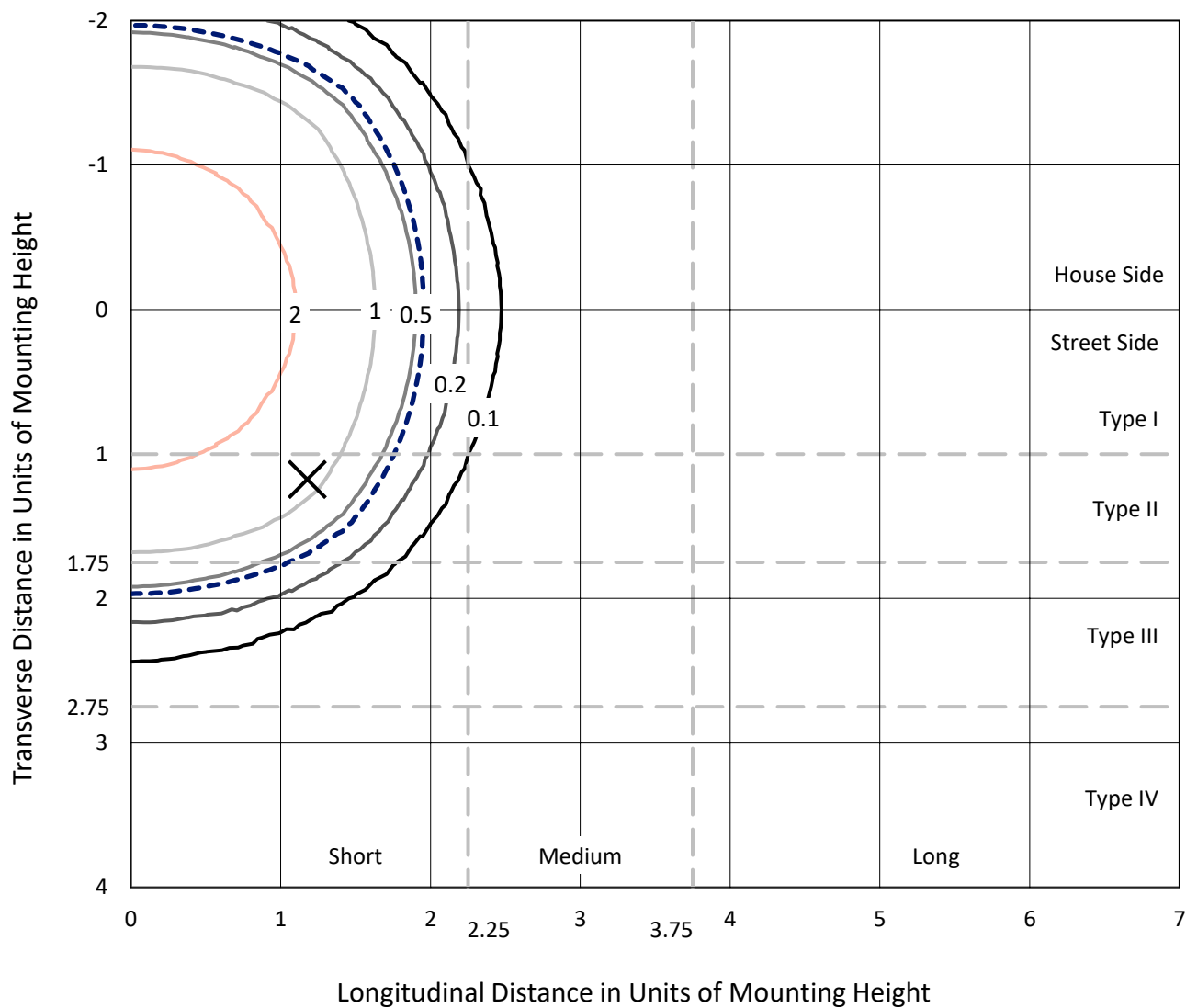
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

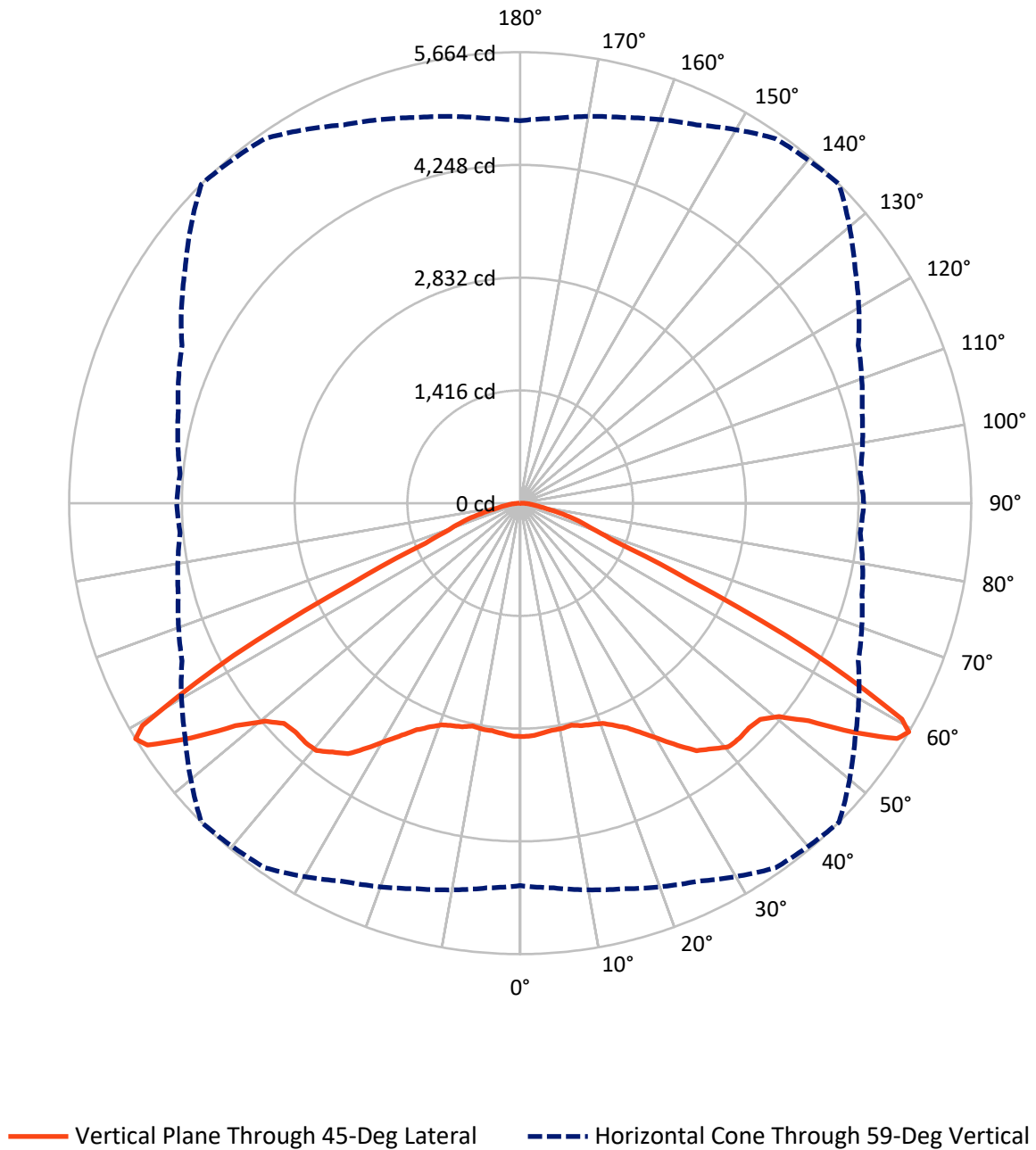


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7587.5	0.0	7587.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7587.5	0.0	7587.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15175.0	0.0	15175.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.3	1.8
10°-20°	821.7	5.4
20°-30°	1434.8	9.5
30°-40°	2291.5	15.1
40°-50°	3121.5	20.6
50°-60°	4221.1	27.8
60°-70°	2314.9	15.3
70°-80°	592.2	3.9
80°-90°	101.0	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°	15175.0	100.0
0°-180°	15175.0	100.0

Coefficient of Utilization



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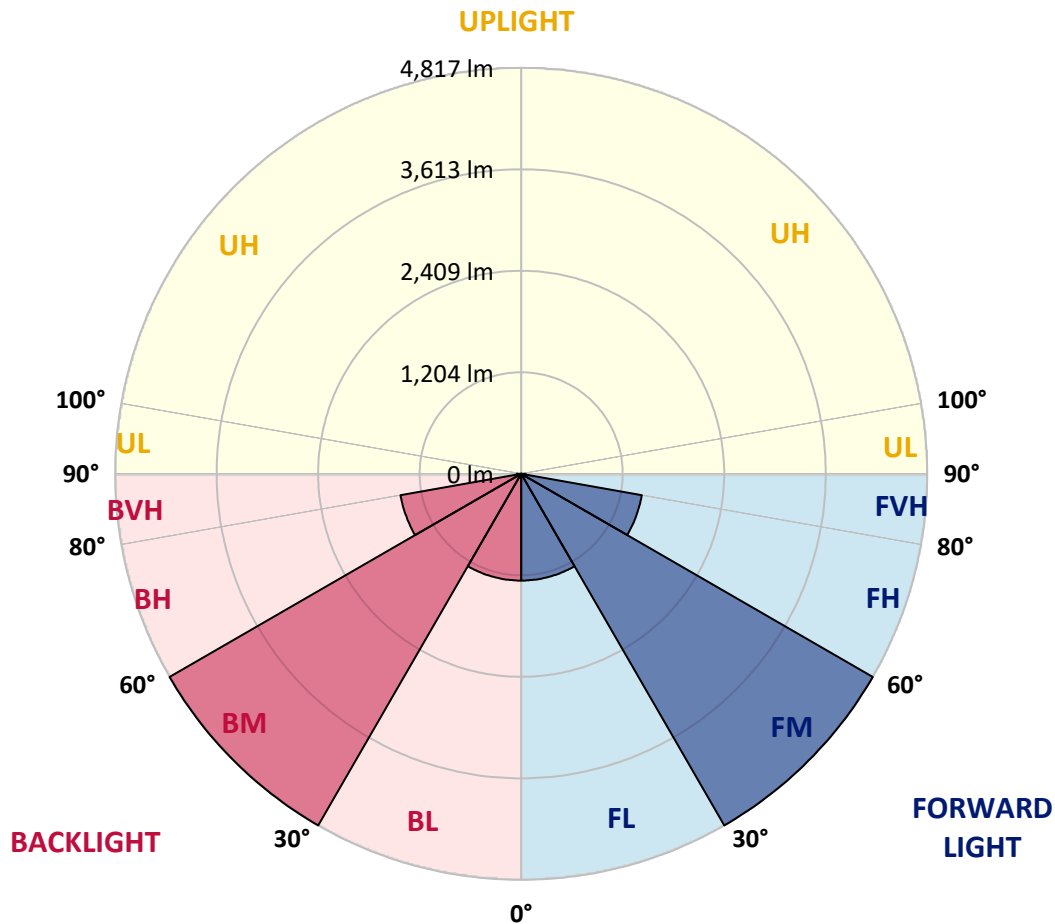
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1266.4	8.3			
FM	(30°-60°)	4817.1	31.7			
FH	(60°-80°)	1453.5	9.6			G1/1800
FVH	(80°-90°)	50.5	0.3			G1/100
BL	(0°-30°)	1266.4	8.3	B3/2500		
BM	(30°-60°)	4817.1	31.7	B3/5000		
BH	(60°-80°)	1453.5	9.6	B3/2500		G1/1800
BVH	(80°-90°)	50.5	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°	2931.1	2931.1	2931.1	2931.1	2931.1	2931.1	2931.1	2931.1	2931.1	2931.1	2931.1
2.5°	2913.6	2935.0	2919.4	2933.0	2931.1	2925.2	2915.5	2909.7	2901.9	2913.6	2894.1
5°	2901.9	2919.4	2936.9	2913.6	2913.6	2901.9	2896.1	2884.4	2884.4	2882.5	2880.5
7.5°	2921.4	2903.9	2896.1	2900.0	2903.9	2878.6	2896.1	2872.7	2853.3	2866.9	2882.5
10°	2903.9	2911.6	2882.5	2896.1	2874.7	2878.6	2866.9	2882.5	2861.1	2861.1	2861.1
12.5°	2921.4	2900.0	2909.7	2900.0	2894.1	2861.1	2876.6	2859.1	2857.2	2876.6	2859.1
15°	2956.4	2921.4	2913.6	2894.1	2900.0	2900.0	2884.4	2886.3	2865.0	2876.6	2880.5
17.5°	2944.7	2925.2	2919.4	2896.1	2915.5	2921.4	2892.2	2872.7	2886.3	2884.4	2882.5
20°	2954.4	2962.2	2956.4	2960.3	2968.0	2952.5	2925.2	2898.0	2880.5	2905.8	2903.9
22.5°	3016.7	3008.9	3005.0	3001.1	3014.7	3030.3	2993.3	2950.5	2950.5	2968.0	2975.8
25°	3067.2	3065.3	3063.3	3080.8	3127.5	3127.5	3080.8	3026.4	3012.8	3024.4	3014.7
27.5°	3141.1	3162.5	3154.8	3185.9	3254.0	3269.5	3207.3	3143.1	3106.1	3092.5	3110.0
30°	3310.4	3285.1	3290.9	3324.0	3384.3	3434.8	3339.5	3271.5	3220.9	3218.9	3226.7
32.5°	3423.2	3442.6	3460.1	3491.2	3586.5	3625.4	3510.7	3399.8	3368.7	3351.2	3357.0
35°	3648.8	3631.3	3627.4	3658.5	3753.8	3818.0	3674.1	3576.8	3536.0	3574.9	3574.9
37.5°	3862.7	3814.1	3777.2	3818.0	3905.5	3913.3	3790.8	3738.3	3716.9	3761.6	3759.6
40°	3963.9	3960.0	3874.4	3897.7	4014.4	4026.1	3911.4	3849.1	3845.2	3903.6	3961.9
42.5°	4068.9	4031.9	3946.4	3961.9	4033.9	4037.8	3928.9	3911.4	3954.1	4010.5	4014.4
45°	4086.4	4055.3	4000.8	3961.9	4014.4	4026.1	3961.9	3973.6	3977.5	4045.6	4045.6
47.5°	4121.4	4117.5	4086.4	4057.2	4067.0	4057.2	4016.4	4033.9	4092.2	4125.3	4109.7
50°	4218.7	4177.8	4208.9	4183.7	4185.6	4212.8	4175.9	4193.4	4181.7	4152.5	4133.1
52.5°	4432.6	4413.2	4440.4	4457.9	4477.3	4539.6	4496.8	4403.4	4315.9	4238.1	4236.2
55°	4745.8	4759.4	4811.9	4901.3	4977.2	5076.4	4870.2	4646.6	4506.5	4384.0	4391.8
57.5°	5041.4	5031.7	5103.6	5307.8	5529.6	5580.1	5175.6	4856.6	4629.1	4551.3	4518.2
59°	4804.1	4850.8	5014.2	5241.7	5589.9	5663.8	5134.7	4685.5	4444.3	4286.7	4314.0
60°	4430.7	4448.2	4594.0	4911.1	5381.8	5508.2	4860.5	4420.9	4100.0	4008.6	4049.4
62.5°	3131.4	3117.8	3222.8	3481.5	3903.6	4074.7	3613.8	3304.5	3102.2	3001.1	3024.4
65°	1664.9	1727.1	1769.9	1931.4	2155.0	2335.9	2145.3	2011.1	1898.3	1814.7	1812.7
67.5°	1124.2	1116.4	1126.1	1163.1	1239.0	1289.5	1285.6	1217.6	1207.8	1192.3	1209.8
70°	947.2	943.3	925.8	925.8	941.4	953.0	966.7	974.4	990.0	1009.4	1007.5
72.5°	768.3	758.5	746.9	741.0	760.5	766.3	783.8	791.6	805.2	803.3	820.8
75°	507.6	507.6	521.3	536.8	542.6	554.3	556.3	579.6	579.6	583.5	567.9
77.5°	284.0	276.2	285.9	301.5	315.1	336.5	357.9	375.4	385.1	381.2	381.2
80°	165.3	165.3	175.0	192.6	210.1	229.5	245.1	258.7	268.4	264.5	256.7
82.5°	103.1	103.1	112.8	130.3	143.9	155.6	177.0	194.5	206.2	202.3	192.6
85°	52.5	52.5	64.2	75.9	93.4	101.1	99.2	91.4	89.5	79.7	79.7
87.5°	13.6	13.6	19.4	21.4	17.5	19.4	19.4	19.4	19.4	19.4	21.4
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)