

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: P648356

Luminaire Tested: **GALN-SA4B-835-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648356
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-SA4B-835-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA 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: 12108.3 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

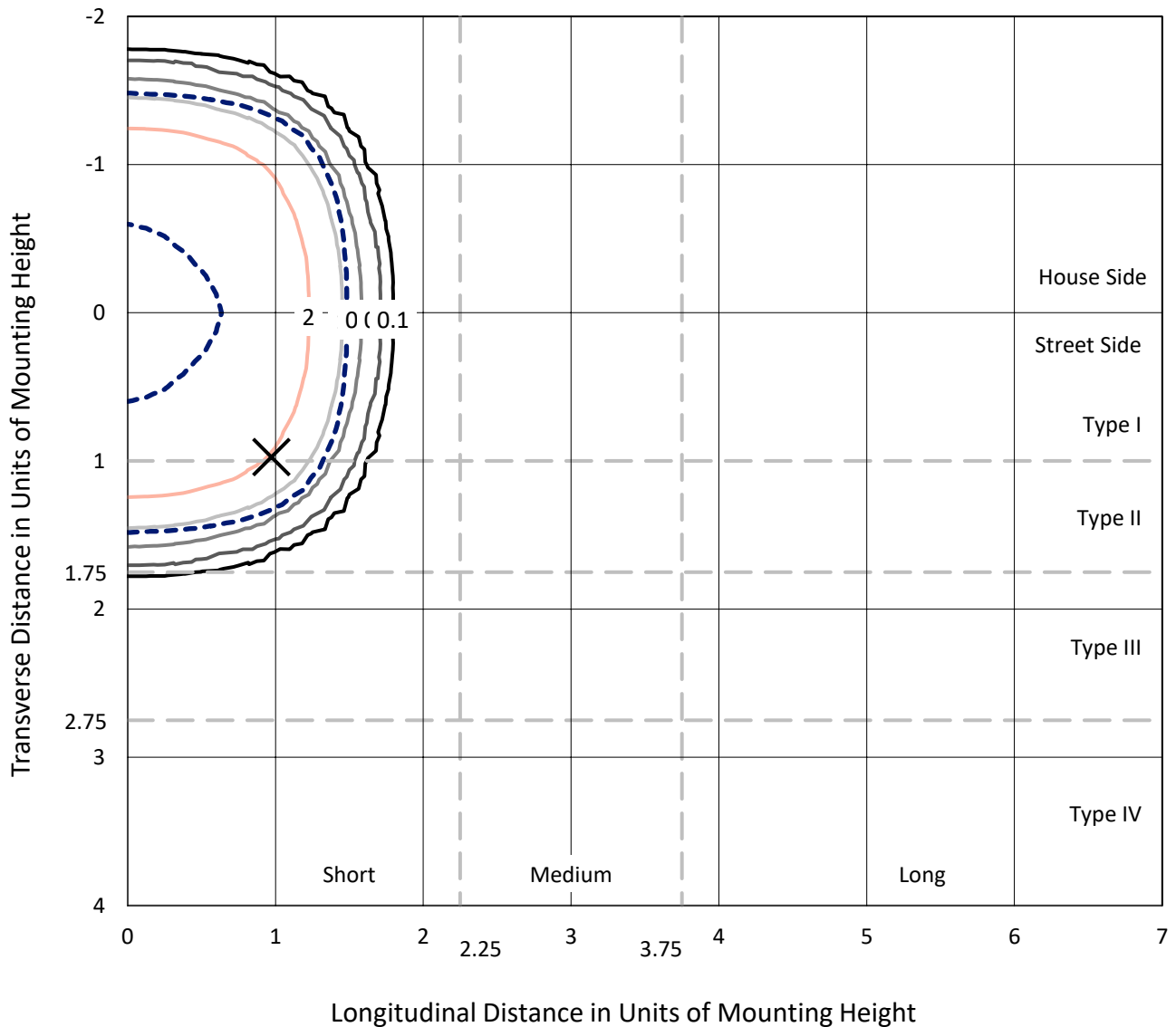
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

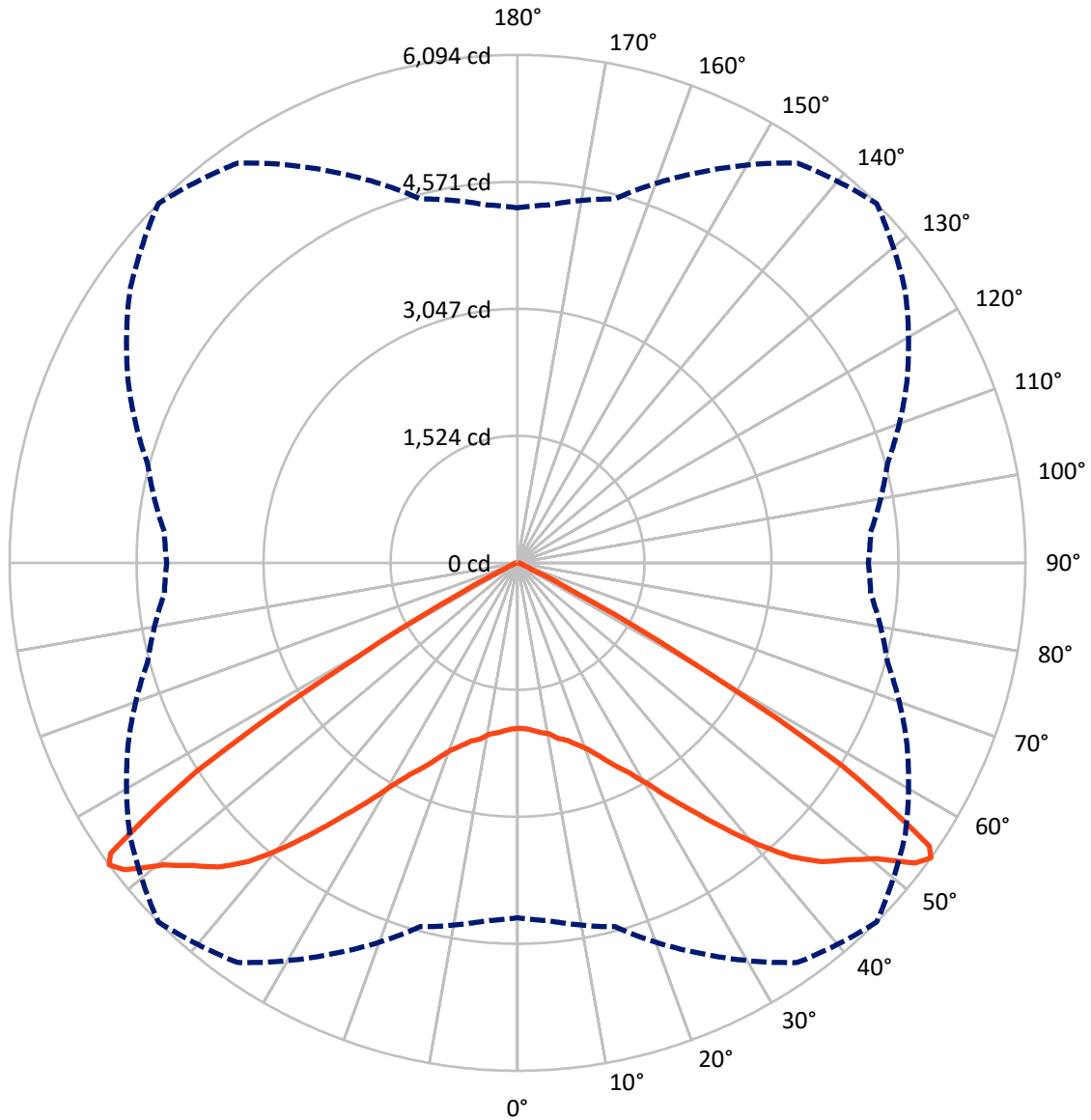
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6054.1	0.0	6054.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6054.1	0.0	6054.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	12108.3	0.0	12108.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.3	1.6
10°-20°	629.3	5.2
20°-30°	1233.4	10.2
30°-40°	2217.9	18.3
40°-50°	3796.5	31.4
50°-60°	3673.5	30.3
60°-70°	314.5	2.6
70°-80°	37.2	0.3
80°-90°	11.7	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°	12108.3	100.0
0°-180°	12108.3	100.0

Coefficient of Utilization

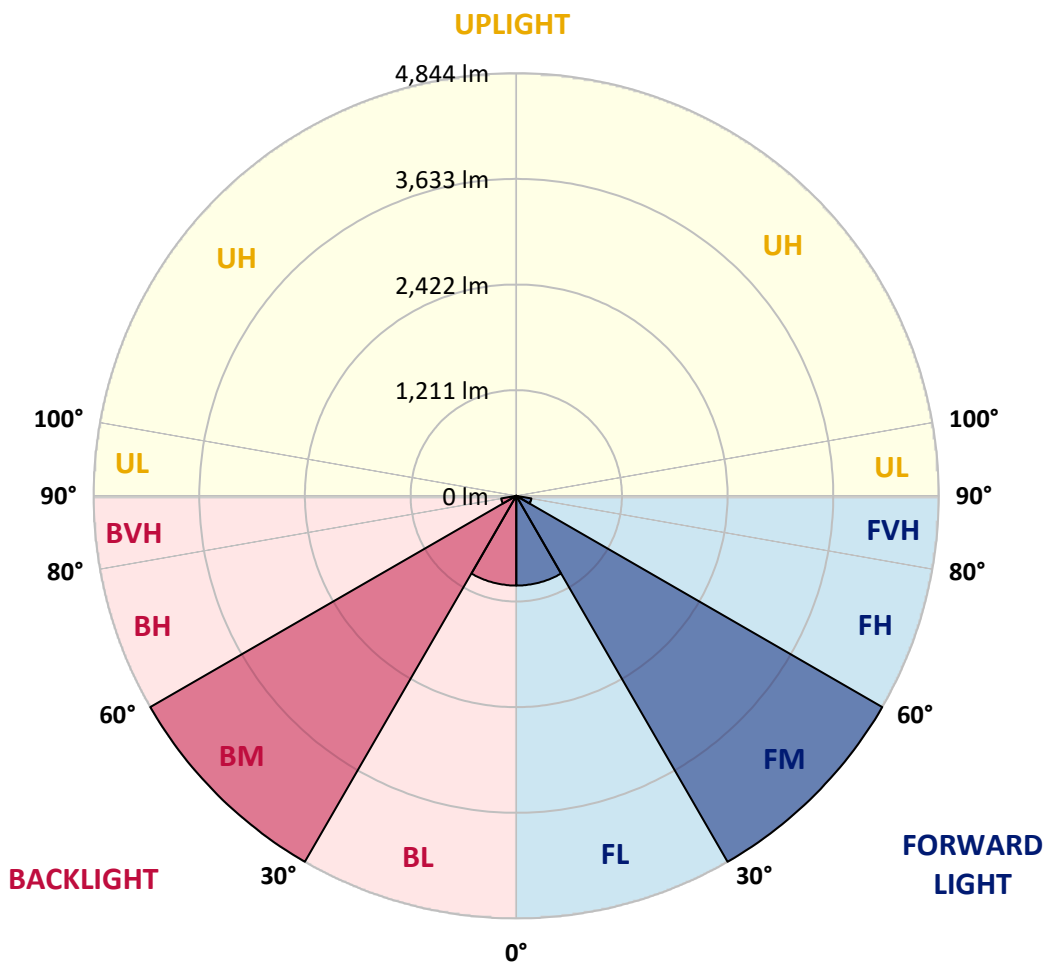


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1028.5	8.5			
FM (30°-60°)	4844.0	40.0			
FH (60°-80°)	175.9	1.5			G0/660
FVH (80°-90°)	5.8	0.0			G0/10
BL (0°-30°)	1028.5	8.5	B3/2500		
BM (30°-60°)	4844.0	40.0	B3/5000		
BH (60°-80°)	175.9	1.5	B1/500		G0/660
BVH (80°-90°)	5.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4
2.5°	1995.0	2006.5	1998.8	2004.6	2004.6	1995.0	2000.7	1977.7	1993.0	1981.5	1983.5
5°	2025.7	2023.7	2023.7	2025.7	2018.0	2021.9	2014.2	2006.5	2000.7	1993.0	2016.1
7.5°	2064.1	2064.1	2050.6	2054.4	2050.6	2056.4	2041.0	2025.7	2019.9	2014.2	2010.4
10°	2100.5	2096.6	2090.9	2108.1	2094.8	2087.1	2079.4	2069.8	2048.7	2041.0	2033.4
12.5°	2154.2	2152.3	2144.6	2161.9	2154.2	2161.9	2133.1	2108.1	2104.3	2079.4	2092.8
15°	2217.5	2234.8	2221.3	2221.3	2217.5	2207.9	2196.4	2184.9	2150.4	2140.8	2142.7
17.5°	2300.0	2294.2	2296.1	2296.1	2315.3	2290.4	2267.3	2238.6	2221.3	2215.6	2196.4
20°	2378.6	2386.3	2384.4	2397.8	2409.3	2382.4	2357.5	2353.7	2305.7	2313.4	2286.5
22.5°	2516.7	2511.0	2520.6	2530.2	2522.5	2518.7	2495.7	2466.8	2424.6	2405.5	2401.6
25°	2662.5	2653.0	2635.7	2658.7	2670.2	2687.5	2643.3	2628.0	2562.8	2534.0	2535.9
27.5°	2787.2	2800.6	2819.8	2829.4	2858.2	2852.5	2821.8	2771.9	2722.0	2689.4	2668.3
30°	2957.9	2965.6	2998.2	3011.7	3061.5	3074.9	3027.0	2969.4	2881.2	2839.0	2814.1
32.5°	3115.2	3169.0	3167.0	3234.2	3314.8	3370.3	3284.1	3195.8	3107.6	3057.7	3013.5
35°	3370.3	3360.8	3416.4	3487.4	3617.9	3681.1	3587.2	3485.4	3351.2	3270.6	3236.1
37.5°	3608.2	3612.1	3686.8	3800.1	3949.7	4047.5	3965.0	3798.1	3660.0	3556.5	3508.5
40°	3953.5	3961.2	4037.9	4166.4	4335.2	4440.7	4344.9	4176.1	3991.9	3911.3	3911.3
42.5°	4358.3	4390.8	4440.7	4552.0	4703.6	4820.5	4734.3	4601.8	4415.8	4312.2	4327.6
45°	4774.5	4789.8	4822.5	4987.5	5058.4	5116.0	5035.4	4974.0	4849.4	4722.7	4701.6
47.5°	5163.9	5169.7	5265.6	5317.4	5373.0	5325.0	5376.9	5296.3	5156.2	5033.5	5008.5
50°	5336.5	5327.0	5463.1	5620.5	5662.7	5578.2	5534.2	5480.5	5267.5	5119.8	5054.6
52.5°	4834.0	4889.6	5142.8	5580.2	5910.1	5981.1	5724.0	5476.6	5079.6	4791.8	4747.6
54°	4258.5	4310.3	4519.4	5167.7	5854.5	6094.2	5680.0	5154.3	4594.2	4252.8	4208.6
55°	3688.8	3631.2	4011.1	4672.9	5593.6	5994.5	5505.4	4738.1	4097.4	3784.7	3723.3
57.5°	1996.9	2006.5	2326.8	2952.1	3930.5	4596.1	4059.0	3205.4	2420.8	2069.8	2039.1
60°	633.1	648.4	788.4	1193.1	1877.9	2242.4	1922.1	1287.2	890.0	713.6	684.8
62.5°	197.6	205.2	224.4	333.8	514.1	734.7	575.5	345.3	257.1	235.9	239.8
65°	120.8	120.8	122.8	130.4	153.5	178.4	172.7	151.5	145.8	142.0	140.0
67.5°	78.6	76.7	80.6	86.3	90.1	92.1	97.8	103.6	101.6	97.8	97.8
70°	47.9	46.0	49.9	57.6	59.4	63.3	69.1	76.7	74.8	70.9	72.9
72.5°	26.9	26.9	28.7	34.5	40.2	44.1	49.9	55.6	57.6	55.6	55.6
75°	9.6	11.5	15.3	21.1	24.9	30.7	36.4	42.2	47.9	44.1	42.2
77.5°	3.8	3.8	7.7	13.4	19.2	24.9	34.5	40.2	44.1	40.2	36.4
80°	1.9	1.9	5.7	11.5	17.2	23.0	28.7	34.5	36.4	32.6	28.7
82.5°	1.9	1.9	5.7	11.5	17.2	21.1	30.7	34.5	38.4	34.5	28.7
85°	0.0	1.9	5.7	11.5	15.3	17.2	17.2	11.5	9.6	5.7	5.7
87.5°	0.0	0.0	1.9	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)