

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: P529139

Luminaire Tested: **GALN-SA4B-735-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-735-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13552 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

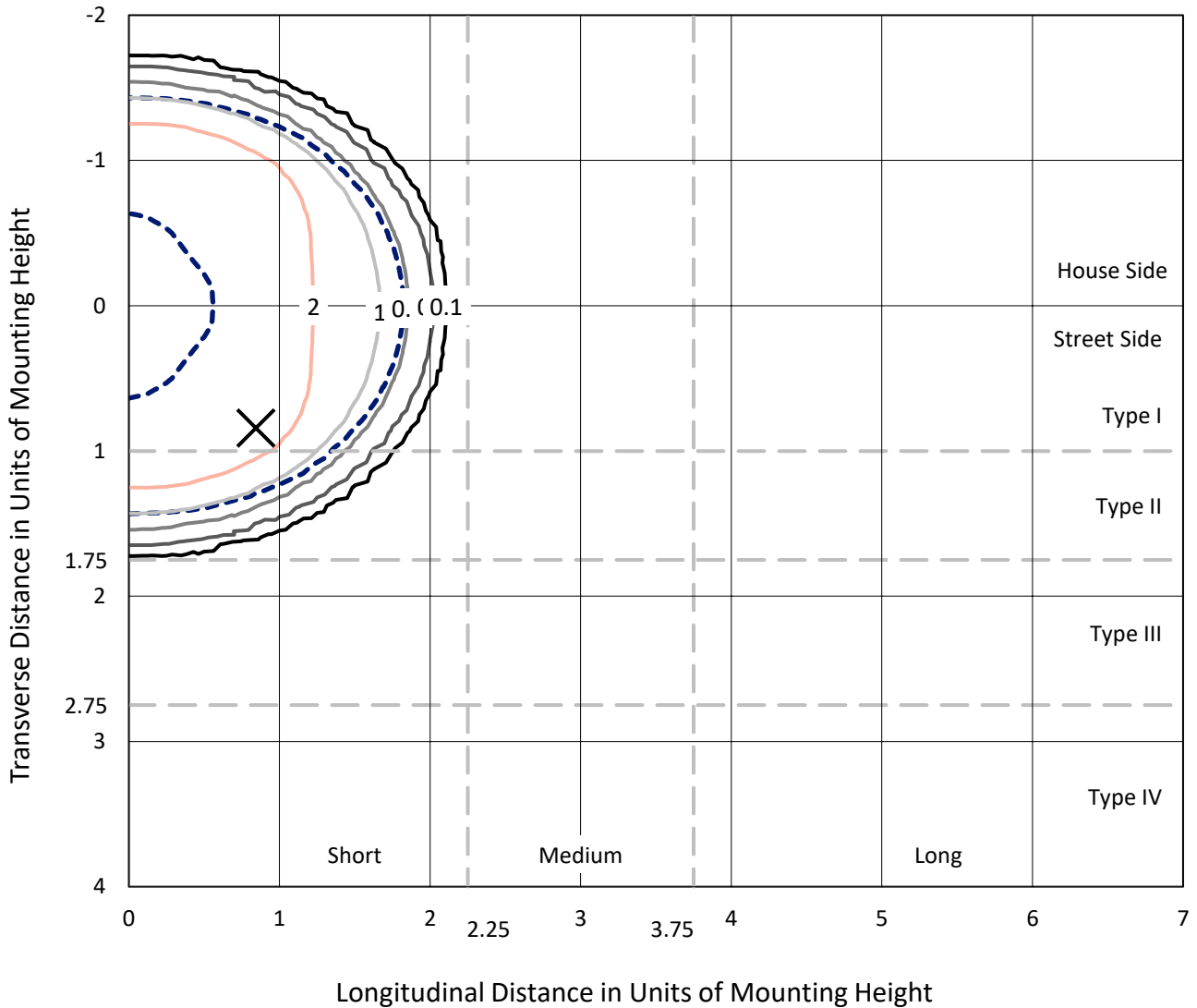
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

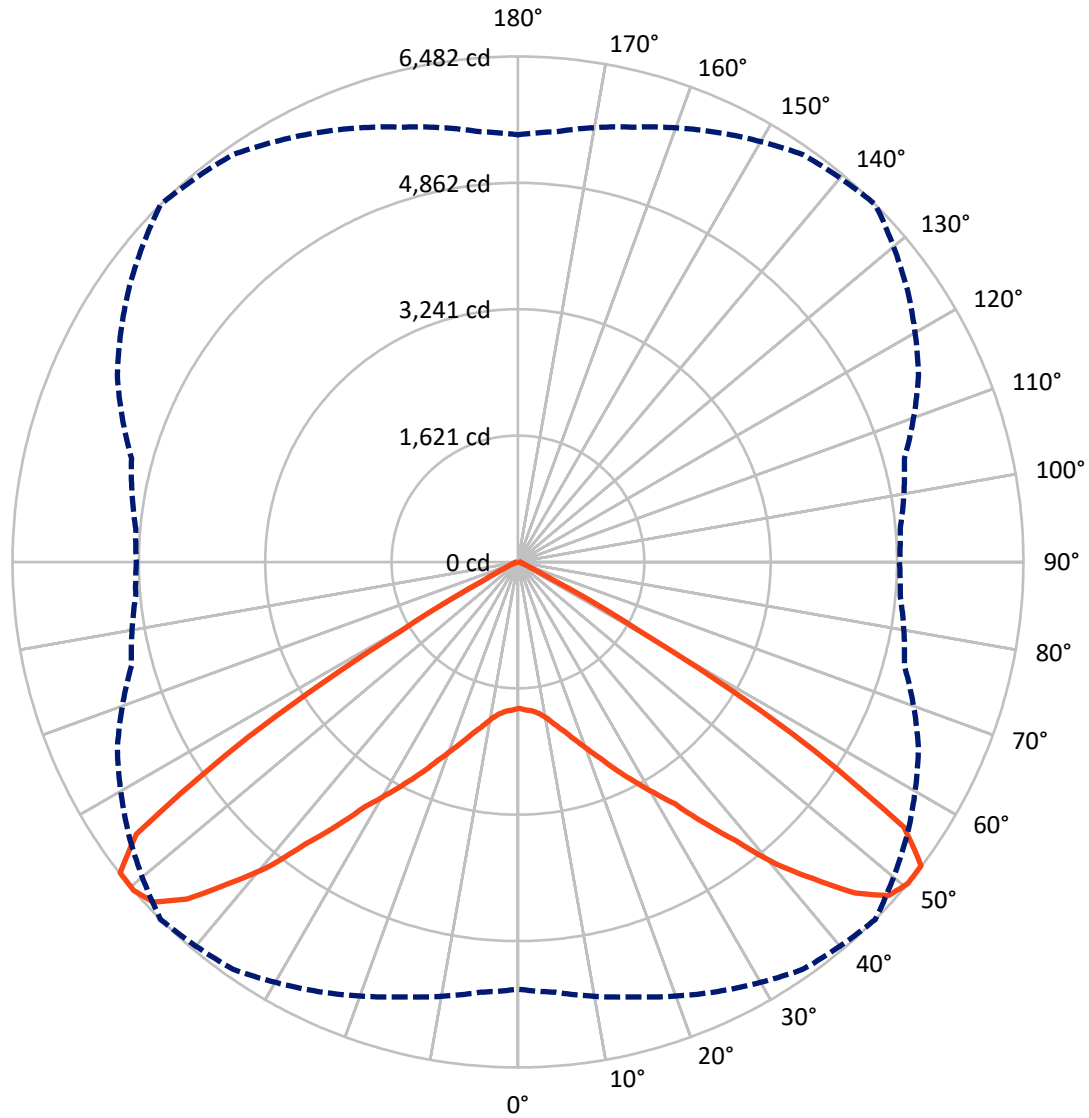
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6776.0	0.0	6776.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6776.0	0.0	6776.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13552.0	0.0	13552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.9	1.4
10°-20°	644.2	4.8
20°-30°	1315.8	9.7
30°-40°	2509.1	18.5
40°-50°	4228.3	31.2
50°-60°	4032.4	29.8
60°-70°	562.9	4.2
70°-80°	53.8	0.4
80°-90°	18.6	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°	13552.0	100.0
0°-180°	13552.0	100.0

Coefficient of Utilization



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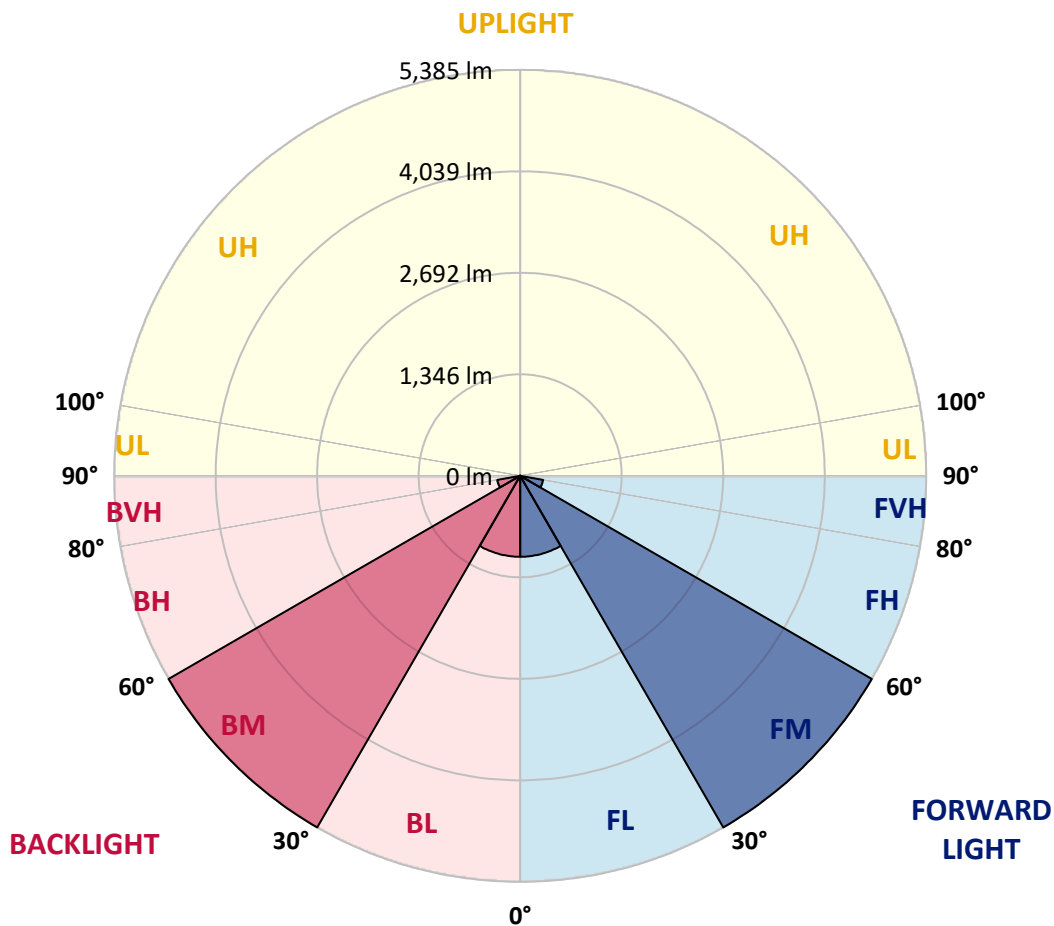
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1073.4	7.9			
FM (30°-60°)	5384.9	39.7			
FH (60°-80°)	308.4	2.3			G0/660
FVH (80°-90°)	9.3	0.1			G0/10
BL (0°-30°)	1073.4	7.9	B3/2500		
BM (30°-60°)	5384.9	39.7	B4/8500		
BH (60°-80°)	308.4	2.3	B1/500		G0/660
BVH (80°-90°)	9.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1878.8	1878.8	1878.8	1878.8	1878.8	1878.8	1878.8	1878.8	1878.8	1878.8	1878.8
2.5°	1872.0	1872.0	1869.7	1888.0	1878.8	1899.4	1897.1	1903.9	1910.8	1908.5	1926.7
5°	1856.0	1853.8	1853.8	1874.3	1894.8	1917.6	1938.1	1951.8	1974.6	1974.6	1997.4
7.5°	1872.0	1860.6	1876.6	1885.7	1924.4	1963.2	1997.4	2024.8	2077.2	2095.4	2088.6
10°	1876.6	1890.2	1901.6	1929.0	1976.9	2036.2	2065.8	2134.2	2193.5	2234.5	2243.7
12.5°	1906.2	1926.7	1958.6	2024.8	2068.1	2145.6	2186.7	2252.8	2334.9	2380.5	2412.4
15°	1963.2	1970.0	2011.1	2095.4	2188.9	2259.6	2323.5	2371.3	2451.2	2503.6	2505.9
17.5°	2036.2	2065.8	2122.8	2202.6	2300.7	2405.5	2455.7	2508.2	2537.8	2608.5	2624.4
20°	2182.1	2186.7	2241.4	2346.3	2469.4	2565.2	2601.6	2629.0	2617.6	2690.6	2704.2
22.5°	2318.9	2323.5	2391.9	2533.2	2665.5	2747.6	2763.5	2747.6	2713.4	2765.8	2770.4
25°	2458.0	2499.0	2549.2	2690.6	2854.7	2964.2	2966.5	2923.1	2852.5	2861.6	2884.4
27.5°	2674.6	2704.2	2756.7	2886.7	3066.8	3189.9	3169.4	3117.0	3025.7	3032.6	3025.7
30°	2927.7	2955.1	2998.4	3164.8	3297.1	3431.6	3461.3	3411.1	3274.3	3244.6	3278.8
32.5°	3233.2	3272.0	3351.8	3504.6	3616.3	3698.4	3718.9	3700.7	3573.0	3561.6	3584.4
35°	3604.9	3657.3	3730.3	3864.8	3956.0	4104.3	4104.3	4042.7	3926.4	3940.1	3937.8
37.5°	3997.1	4074.6	4188.6	4325.4	4448.6	4528.4	4503.3	4450.8	4334.5	4304.9	4334.5
40°	4489.6	4528.4	4672.0	4849.9	5000.3	5091.6	4984.4	4870.4	4592.2	4635.5	4715.3
42.5°	4938.8	5000.3	5109.8	5305.9	5476.9	5552.1	5424.5	5198.7	4863.5	4829.3	4888.6
45°	5321.8	5388.0	5531.6	5812.1	5992.2	6058.3	5775.6	5410.8	5027.7	4941.1	4966.1
47.5°	5577.2	5611.4	5812.1	6078.9	6243.0	6393.5	5987.6	5556.7	5105.2	4941.1	4931.9
50°	5479.2	5538.5	5773.3	6076.6	6375.3	6482.4	6094.8	5668.4	5130.3	4920.5	4893.2
52.5°	4865.8	4968.4	5230.6	5638.8	6090.3	6473.3	6243.0	5631.9	5121.2	4941.1	4982.1
55°	3386.0	3388.3	3707.5	4309.5	5107.5	6010.5	6026.4	5673.0	5180.5	5068.8	5071.0
57.5°	1361.2	1429.6	1673.6	2277.9	3014.3	4127.1	4906.9	5262.6	5187.3	5160.0	5230.6
60°	344.3	346.6	421.8	643.0	1060.3	1769.4	2569.7	3477.2	4003.9	4184.1	4209.1
62.5°	175.6	177.9	196.1	228.0	289.6	474.3	843.7	1338.4	1903.9	2191.2	2266.5
65°	143.6	143.6	155.0	171.0	173.3	182.4	218.9	312.4	453.7	515.3	522.2
67.5°	109.4	109.4	118.6	127.7	132.2	130.0	125.4	130.0	157.3	150.5	145.9
70°	68.4	70.7	75.2	84.4	88.9	91.2	93.5	98.0	111.7	116.3	111.7
72.5°	41.0	41.0	43.3	50.2	57.0	61.6	68.4	73.0	79.8	91.2	88.9
75°	18.2	18.2	22.8	29.6	36.5	43.3	50.2	57.0	61.6	68.4	70.7
77.5°	4.6	6.8	11.4	20.5	27.4	36.5	45.6	52.4	57.0	57.0	54.7
80°	2.3	2.3	9.1	16.0	29.6	38.8	50.2	54.7	61.6	57.0	50.2
82.5°	2.3	2.3	9.1	16.0	27.4	38.8	52.4	59.3	63.8	57.0	47.9
85°	0.0	2.3	6.8	13.7	22.8	27.4	22.8	16.0	9.1	9.1	6.8
87.5°	0.0	0.0	2.3	2.3	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)