

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: P647323

Luminaire Tested: **GALN-SA3D-835-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-835-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18655.7 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

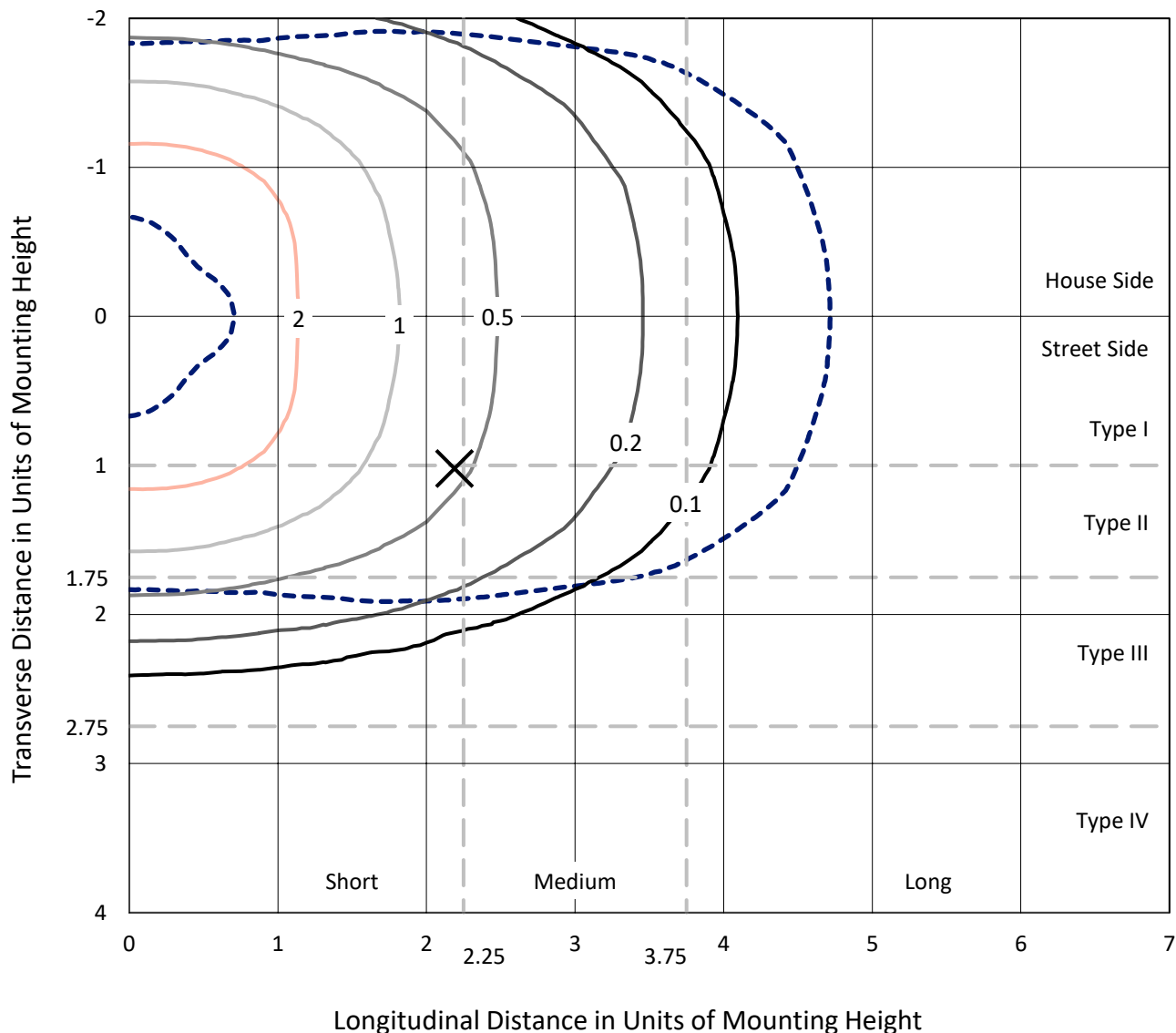
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

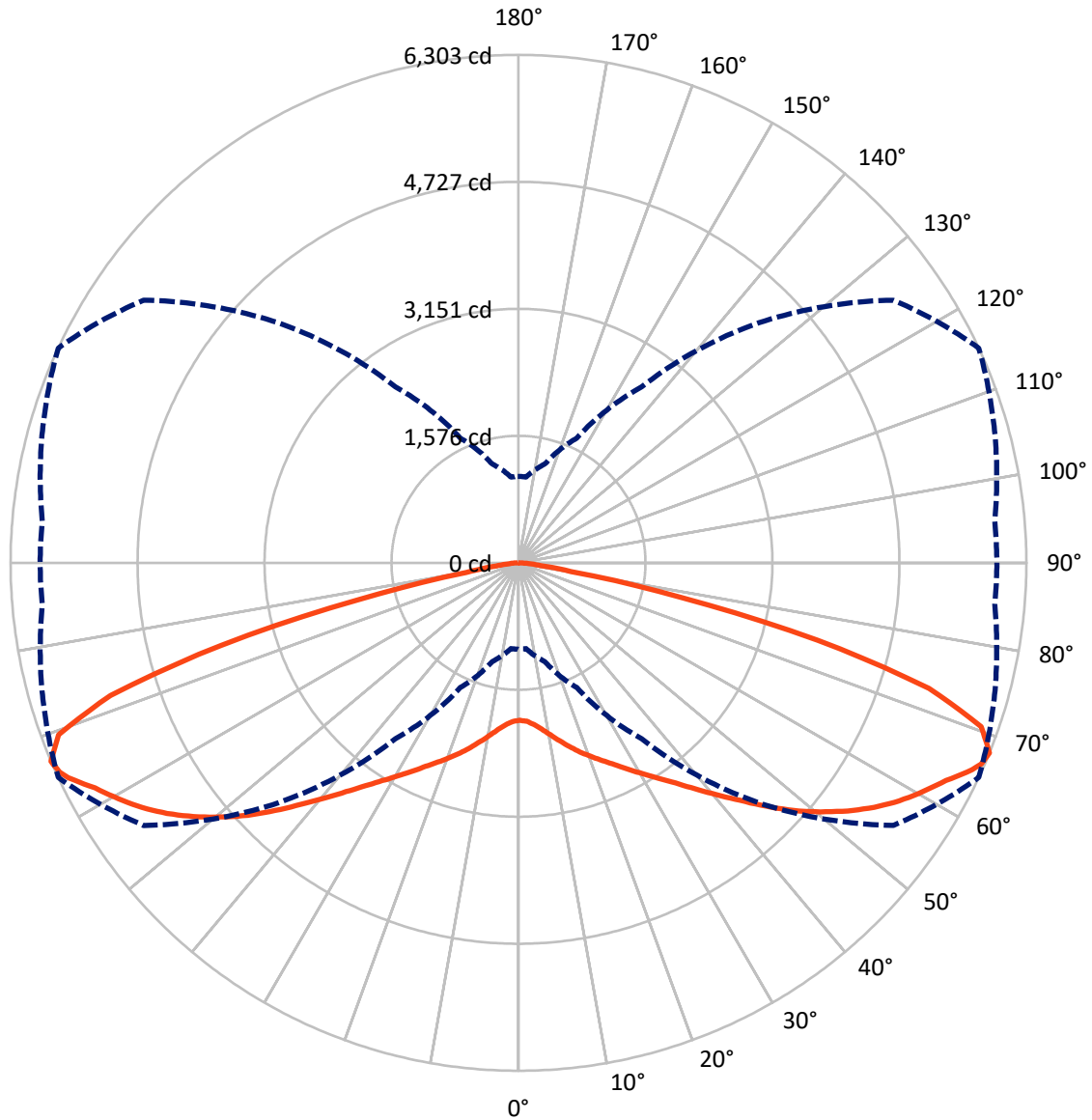
× Max cd
 - - - 1/2 Max cd



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

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CATALOG NUMBER: GALN-SA3D-835-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9327.9	0.0	9327.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9327.9	0.0	9327.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	18655.7	0.0	18655.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.7	1.0
10°-20°	645.0	3.5
20°-30°	1261.7	6.8
30°-40°	2146.0	11.5
40°-50°	3396.4	18.2
50°-60°	4503.6	24.1
60°-70°	4248.3	22.8
70°-80°	2100.1	11.3
80°-90°	161.9	0.9
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°	18655.7	100.0
0°-180°	18655.7	100.0

Coefficient of Utilization

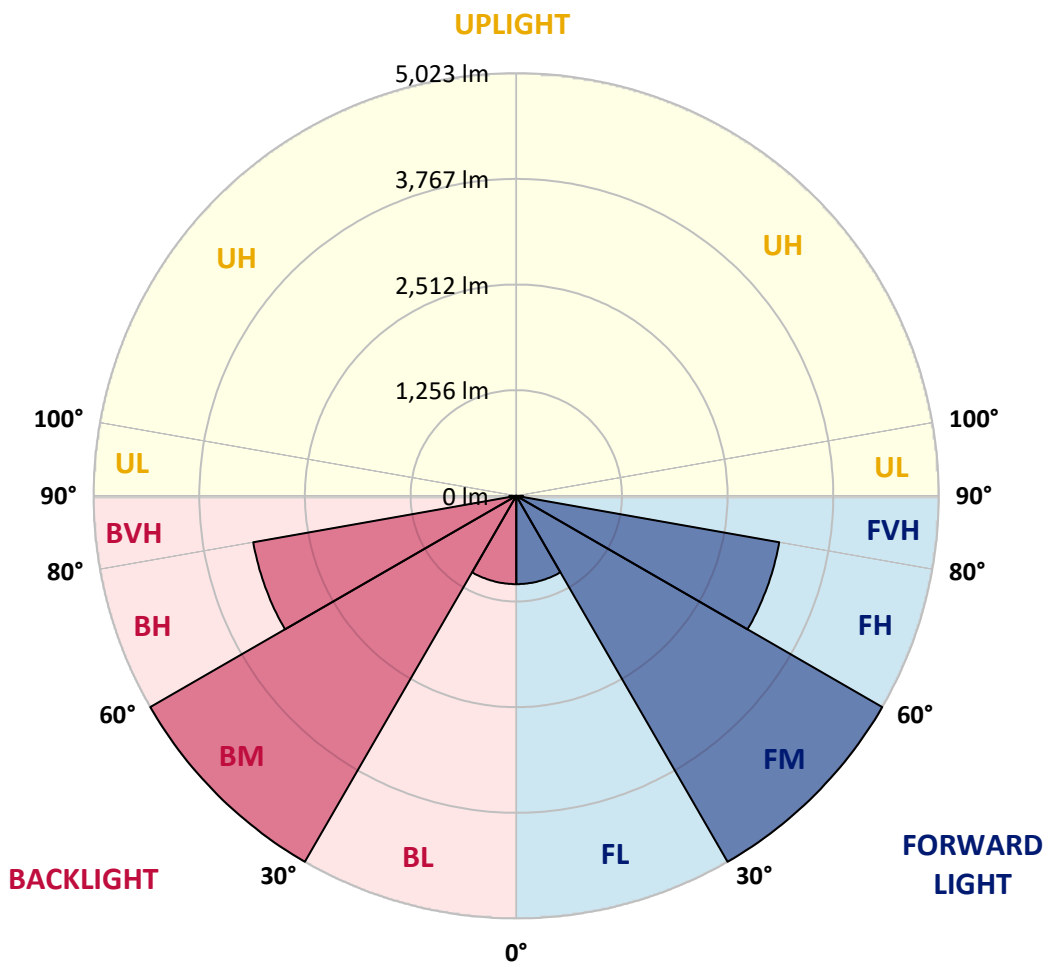


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1049.7	5.6			
FM (30°-60°)	5023.0	26.9			
FH (60°-80°)	3174.2	17.0			G2/5000
FVH (80°-90°)	80.9	0.4			G1/100
BL (0°-30°)	1049.7	5.6	B3/2500		
BM (30°-60°)	5023.0	26.9	B4/8500		
BH (60°-80°)	3174.2	17.0	B4/5000		G4/5000
BVH (80°-90°)	80.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1954.1	1954.1	1954.1	1954.1	1954.1	1954.1	1954.1	1954.1	1954.1	1954.1	1954.1
2.5°	1944.0	1946.1	1948.0	1951.0	1955.0	1961.0	1965.0	1968.0	1976.0	1977.0	1976.0
5°	1937.1	1939.0	1944.0	1953.0	1966.0	1984.0	1998.0	2015.0	2028.0	2037.0	2035.0
7.5°	1936.0	1940.0	1948.0	1967.1	1992.0	2023.0	2055.0	2084.0	2108.9	2129.0	2125.9
10°	1952.0	1957.0	1970.0	1998.0	2037.0	2082.0	2126.9	2169.9	2205.9	2231.9	2240.9
12.5°	1979.0	1983.0	2007.0	2049.0	2104.9	2160.9	2211.9	2264.9	2314.9	2358.8	2358.8
15°	2026.0	2033.0	2063.0	2124.0	2192.9	2257.9	2309.8	2365.8	2419.8	2469.7	2484.8
17.5°	2090.9	2100.9	2146.0	2223.9	2311.9	2371.8	2420.8	2466.8	2513.7	2561.7	2568.7
20°	2180.0	2189.9	2249.9	2343.8	2447.8	2519.8	2552.7	2563.7	2586.7	2632.7	2638.7
22.5°	2300.8	2310.9	2377.8	2483.8	2599.7	2677.7	2691.6	2665.6	2659.7	2695.6	2699.6
25°	2437.8	2446.8	2523.8	2637.7	2757.6	2842.6	2838.6	2774.6	2738.6	2760.6	2766.7
27.5°	2591.7	2604.7	2682.6	2800.6	2930.5	3005.5	2993.5	2900.5	2823.6	2819.6	2821.6
30°	2788.6	2802.6	2876.6	2989.5	3117.4	3186.4	3161.4	3036.5	2917.5	2877.6	2877.6
32.5°	2996.5	3031.5	3106.5	3224.4	3324.3	3374.3	3336.4	3186.4	3028.5	2972.5	2969.5
35°	3267.4	3286.3	3360.3	3475.3	3550.2	3589.2	3516.2	3355.3	3173.4	3107.4	3098.5
37.5°	3532.3	3548.2	3634.2	3744.1	3835.1	3833.1	3734.1	3556.2	3353.4	3279.4	3273.3
40°	3803.1	3820.1	3918.1	4019.0	4110.0	4102.0	3982.0	3783.1	3567.2	3484.3	3500.2
42.5°	4038.0	4057.0	4167.9	4311.8	4393.8	4391.8	4252.9	4029.0	3804.1	3730.1	3744.1
45°	4251.8	4268.8	4397.8	4562.7	4682.7	4697.7	4545.7	4308.8	4077.9	3983.0	3987.0
47.5°	4402.8	4434.8	4569.7	4758.6	4921.5	4974.6	4825.6	4593.7	4327.9	4228.9	4234.9
50°	4517.8	4537.7	4684.7	4899.5	5105.5	5215.4	5095.5	4857.6	4577.7	4472.8	4486.7
52.5°	4531.8	4555.7	4715.6	4963.5	5227.4	5394.3	5335.4	5115.4	4832.6	4724.6	4754.6
55°	4417.8	4431.8	4622.7	4923.6	5275.4	5527.3	5542.2	5355.3	5075.5	4993.5	5013.5
57.5°	4093.0	4128.9	4370.8	4736.6	5209.4	5598.2	5697.2	5573.2	5321.3	5240.4	5272.4
60°	3560.2	3596.2	3839.0	4302.8	4960.5	5565.3	5825.1	5766.1	5544.3	5479.3	5496.3
62.5°	2789.6	2786.6	3087.4	3656.1	4465.8	5403.3	5920.0	5952.1	5764.1	5682.2	5708.1
65°	1808.1	1817.1	2107.9	2720.6	3719.2	4991.5	5941.0	6188.9	5980.0	5856.1	5875.1
66°	1454.3	1481.3	1728.2	2292.9	3338.3	4721.6	5878.1	6258.9	6046.0	5896.1	5905.1
67.5°	1073.5	1068.5	1271.4	1707.2	2665.6	4208.9	5681.1	6302.8	6120.9	5932.0	5936.1
70°	612.7	611.7	683.6	937.6	1567.3	2963.5	4788.6	6092.0	6272.8	6062.0	6050.9
72.5°	447.8	444.7	454.8	517.7	764.6	1496.2	3303.3	5324.3	6194.9	6041.0	6010.0
75°	375.8	373.8	371.8	379.8	428.8	677.7	1753.1	3830.1	5375.3	5670.2	5638.2
77.5°	306.9	306.9	307.9	305.8	307.9	356.8	726.6	2052.9	3273.3	3654.2	3743.1
80°	239.9	238.9	255.9	248.8	232.9	228.9	321.8	660.7	1086.5	1080.5	891.5
82.5°	176.9	164.9	194.9	189.9	171.9	146.0	187.9	281.9	362.8	235.9	174.9
85°	112.0	111.0	138.0	125.9	104.9	69.0	90.0	121.0	149.9	91.0	74.0
87.5°	20.0	19.0	44.0	31.9	31.9	20.0	25.0	33.0	48.9	34.0	25.0
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)