

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: P452892

Luminaire Tested: **GALN-SA3D-827-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452892
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-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17515 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

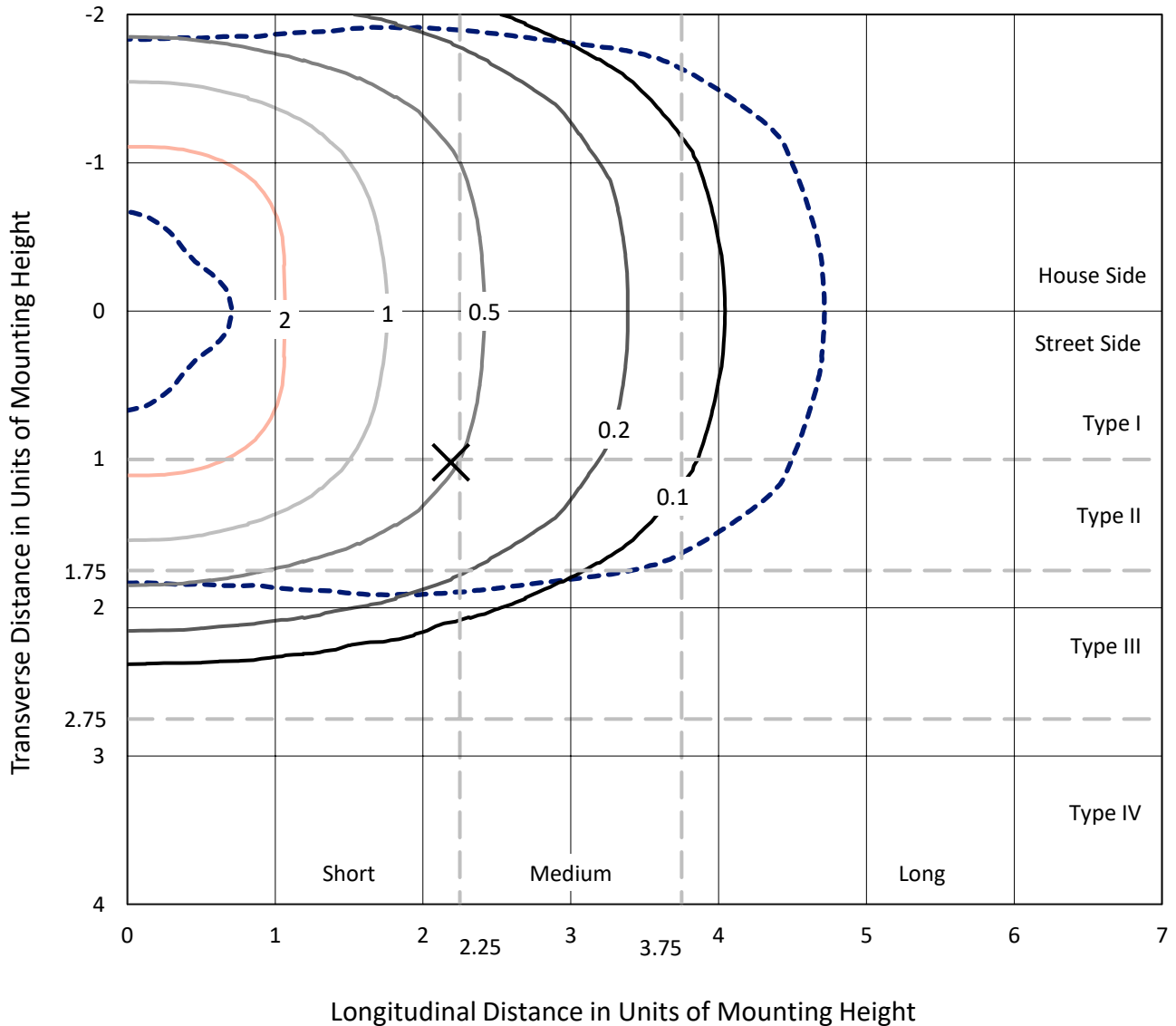
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

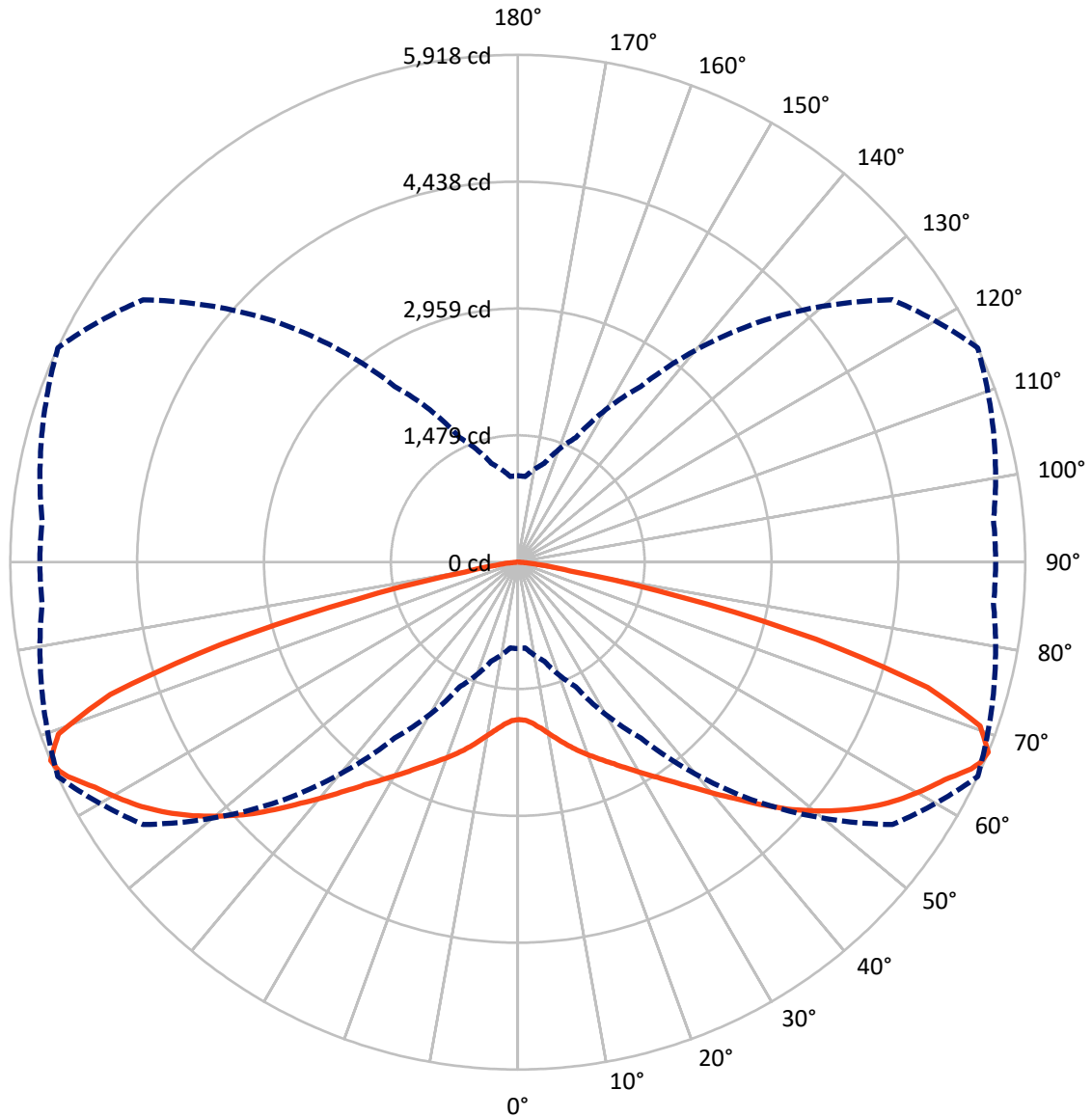
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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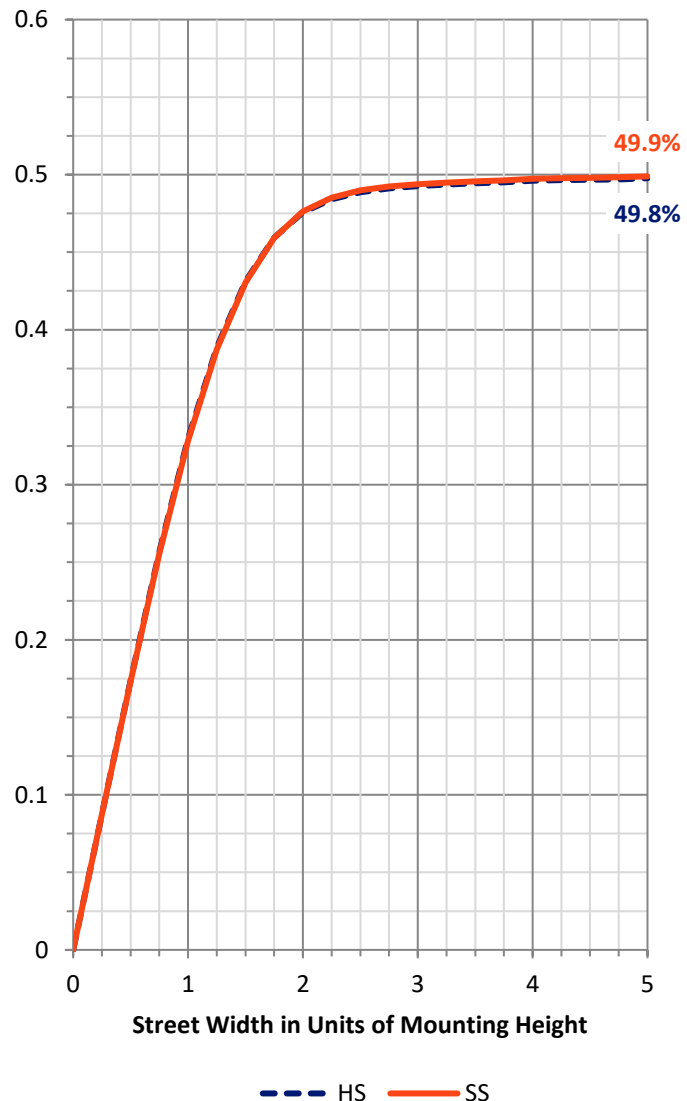
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8757.5	0.0	8757.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8757.5	0.0	8757.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17515.0	0.0	17515.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.9	1.0
10°-20°	605.6	3.5
20°-30°	1184.5	6.8
30°-40°	2014.8	11.5
40°-50°	3188.8	18.2
50°-60°	4228.2	24.1
60°-70°	3988.5	22.8
70°-80°	1971.7	11.3
80°-90°	152.0	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°	17515.0	100.0
0°-180°	17515.0	100.0



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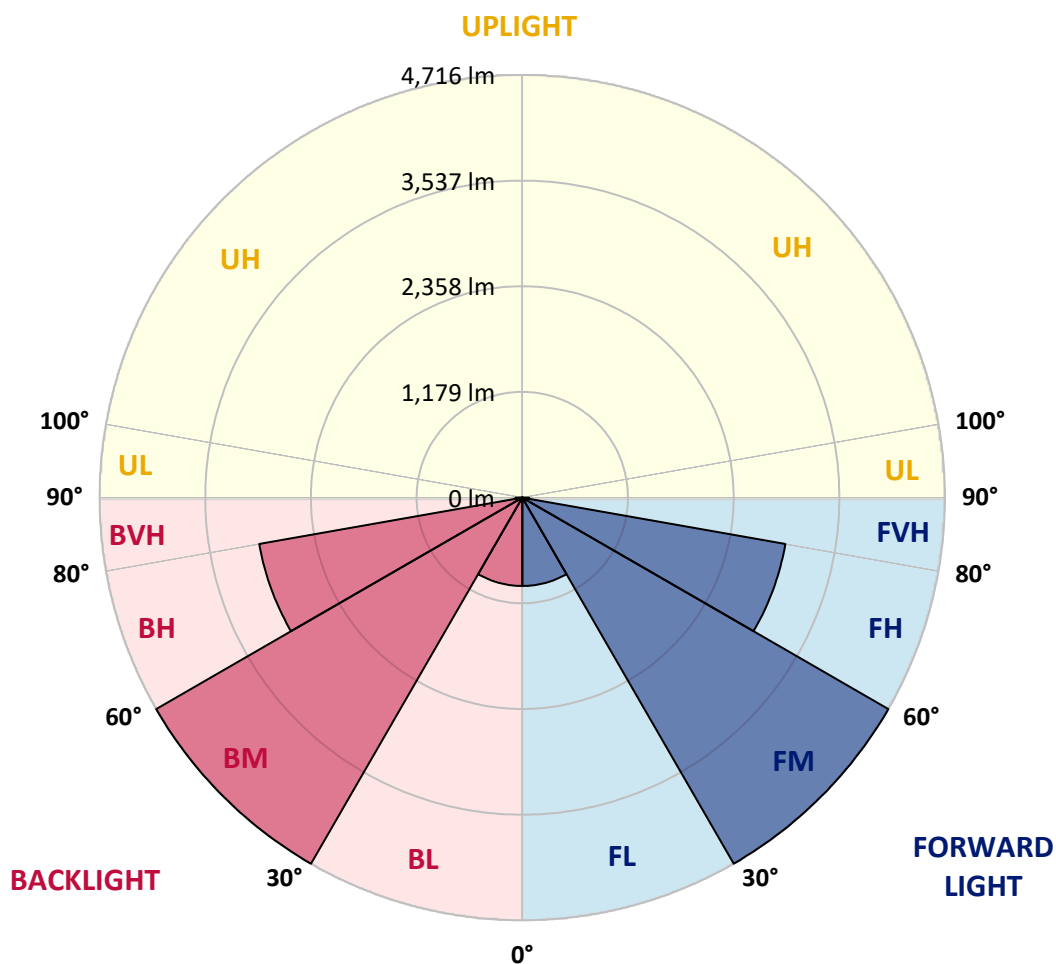
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	985.5	5.6			
FM	(30°-60°)	4715.9	26.9			
FH	(60°-80°)	2980.1	17.0			G2/5000
FVH	(80°-90°)	76.0	0.4			G1/100
BL	(0°-30°)	985.5	5.6	B2/1000		
BM	(30°-60°)	4715.9	26.9	B3/5000		
BH	(60°-80°)	2980.1	17.0	B4/5000		G4/5000
BVH	(80°-90°)	76.0	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°	1834.5	1834.5	1834.5	1834.5	1834.5	1834.5	1834.5	1834.5	1834.5	1834.5	1834.5
2.5°	1825.2	1827.0	1828.9	1831.7	1835.5	1841.1	1844.9	1847.7	1855.2	1856.1	1855.2
5°	1818.6	1820.5	1825.2	1833.6	1845.8	1862.7	1875.8	1891.8	1904.0	1912.4	1910.6
7.5°	1817.7	1821.4	1828.9	1846.7	1870.2	1899.3	1929.3	1956.5	1980.0	1998.8	1995.9
10°	1832.7	1837.4	1849.6	1875.8	1912.4	1954.7	1996.9	2037.2	2071.0	2095.4	2103.9
12.5°	1858.0	1861.8	1884.3	1923.7	1976.2	2028.8	2076.6	2126.4	2173.3	2214.6	2214.6
15°	1902.1	1908.7	1936.8	1994.1	2058.8	2119.8	2168.6	2221.2	2271.8	2318.7	2332.8
17.5°	1963.1	1972.5	2014.7	2087.9	2170.5	2226.8	2272.8	2315.9	2360.0	2405.1	2411.6
20°	2046.6	2056.0	2112.3	2200.5	2298.1	2365.7	2396.6	2407.0	2428.5	2471.7	2477.3
22.5°	2160.2	2169.5	2232.4	2331.9	2440.7	2513.9	2527.1	2502.7	2497.0	2530.8	2534.6
25°	2288.7	2297.2	2369.4	2476.4	2589.0	2668.8	2665.0	2605.0	2571.2	2591.8	2597.4
27.5°	2433.2	2445.4	2518.6	2629.4	2751.3	2821.7	2810.5	2723.2	2650.9	2647.2	2649.1
30°	2618.1	2631.2	2700.7	2806.7	2926.8	2991.6	2968.1	2850.8	2739.1	2701.6	2701.6
32.5°	2813.3	2846.1	2916.5	3027.2	3121.1	3168.0	3132.3	2991.6	2843.3	2790.8	2787.9
35°	3067.6	3085.4	3154.8	3262.8	3333.1	3369.7	3301.2	3150.2	2979.4	2917.4	2909.0
37.5°	3316.3	3331.3	3412.0	3515.2	3600.6	3598.7	3505.8	3338.8	3148.3	3078.8	3073.2
40°	3570.6	3586.5	3678.5	3773.2	3858.6	3851.1	3738.5	3551.8	3349.1	3271.2	3286.2
42.5°	3791.1	3808.9	3913.1	4048.2	4125.1	4123.3	3992.8	3782.6	3571.5	3502.1	3515.2
45°	3991.9	4007.8	4128.9	4283.7	4396.3	4410.4	4267.8	4045.4	3828.6	3739.5	3743.2
47.5°	4133.6	4163.6	4290.3	4467.6	4620.6	4670.3	4530.5	4312.8	4063.2	3970.3	3975.9
50°	4241.5	4260.3	4398.2	4600.0	4793.3	4896.5	4783.9	4560.5	4297.8	4199.3	4212.4
52.5°	4254.6	4277.2	4427.3	4660.0	4907.8	5064.5	5009.1	4802.7	4537.1	4435.7	4463.9
55°	4147.7	4160.8	4340.0	4622.5	4952.8	5189.3	5203.3	5027.9	4765.1	4688.2	4706.9
57.5°	3842.7	3876.5	4103.6	4447.0	4890.9	5255.9	5348.8	5232.4	4996.0	4920.0	4950.0
60°	3342.5	3376.3	3604.3	4039.7	4657.2	5224.9	5468.9	5413.5	5205.2	5144.2	5160.2
62.5°	2619.0	2616.2	2898.7	3432.6	4192.7	5072.9	5558.1	5588.1	5411.7	5334.7	5359.1
65°	1697.5	1706.0	1979.1	2554.3	3491.7	4686.3	5577.8	5810.5	5614.4	5498.0	5515.8
66°	1365.3	1390.7	1622.5	2152.7	3134.2	4432.9	5518.6	5876.2	5676.3	5535.5	5544.0
67.5°	1007.8	1003.1	1193.6	1602.8	2502.7	3951.5	5333.8	5917.5	5746.7	5569.3	5573.1
70°	575.2	574.3	641.9	880.2	1471.4	2782.3	4495.8	5719.5	5889.3	5691.3	5681.0
72.5°	420.4	417.6	427.0	486.1	717.9	1404.8	3101.4	4998.8	5816.1	5671.6	5642.5
75°	352.8	351.0	349.1	356.6	402.6	636.2	1645.9	3595.9	5046.6	5323.5	5293.4
77.5°	288.1	288.1	289.0	287.1	289.0	335.0	682.2	1927.4	3073.2	3430.7	3514.3
80°	225.2	224.3	240.2	233.7	218.6	214.9	302.2	620.3	1020.0	1014.4	837.0
82.5°	166.1	154.8	183.0	178.3	161.4	137.0	176.4	264.6	340.6	221.5	164.2
85°	105.1	104.2	129.5	118.2	98.5	64.7	84.5	113.5	140.8	85.4	69.4
87.5°	18.8	17.8	41.3	30.0	30.0	18.8	23.5	31.0	46.0	31.9	23.5
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)