

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: P527676

Luminaire Tested: **GALN-SA2D-727-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-727-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11483 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

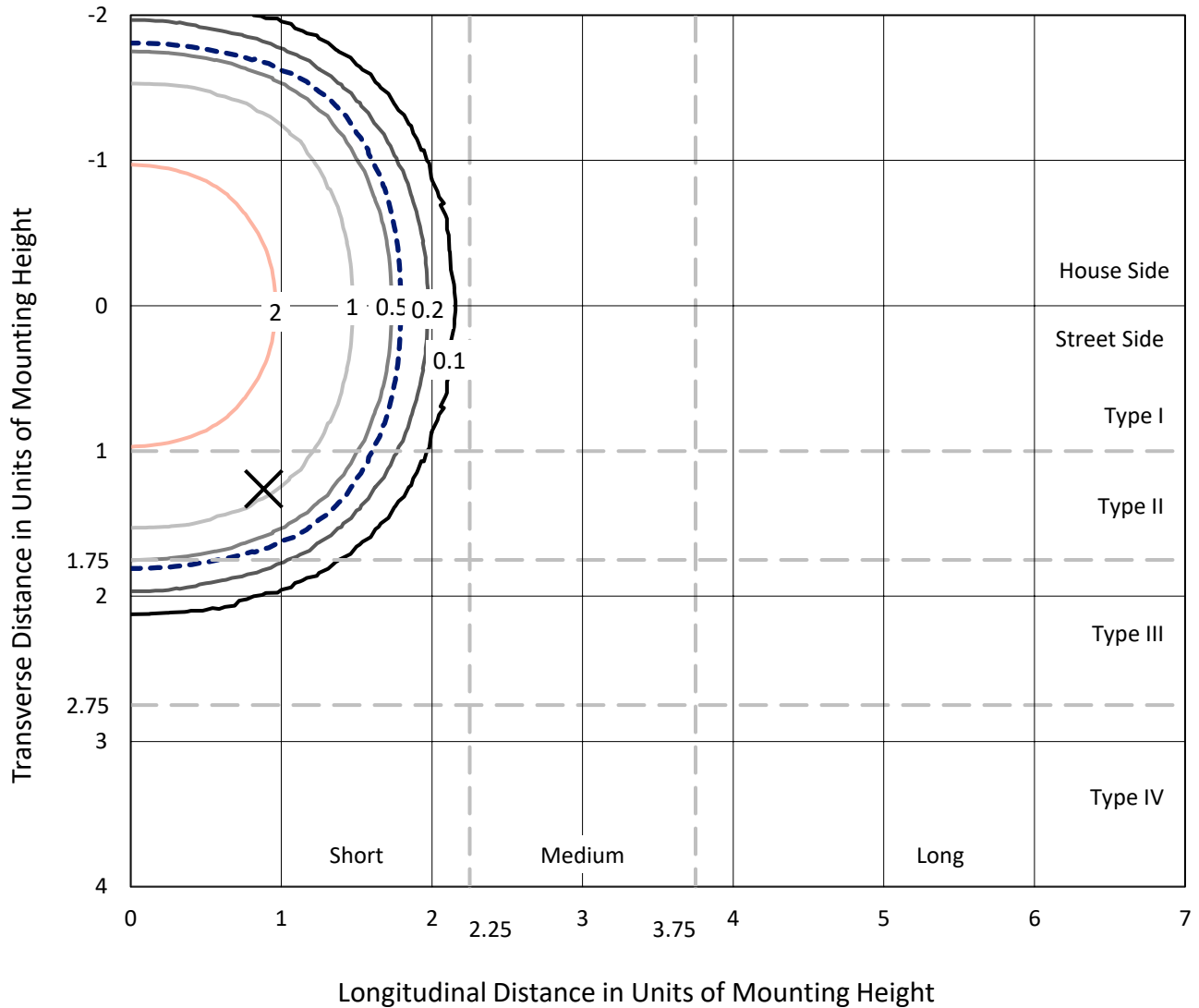
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527676
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Iso-Footcandle Lines of Horizontal Illumination

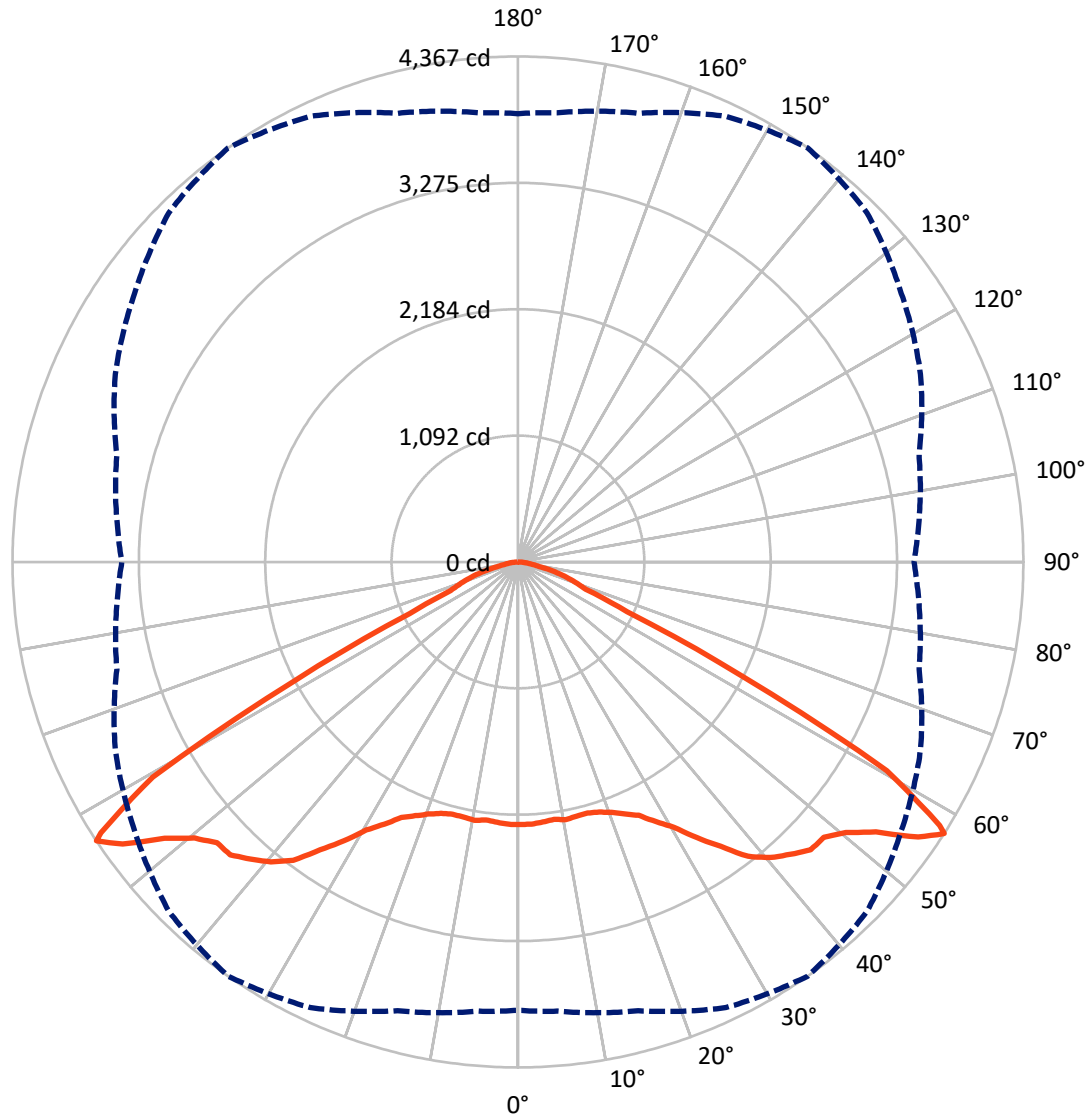
× Max cd
 - - - 1/2 Max cd



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 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5741.5	0.0	5741.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5741.5	0.0	5741.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11483.0	0.0	11483.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.0	1.9
10°-20°	636.8	5.5
20°-30°	1112.1	9.7
30°-40°	1822.2	15.9
40°-50°	2671.8	23.3
50°-60°	3365.3	29.3
60°-70°	1265.7	11.0
70°-80°	336.5	2.9
80°-90°	57.7	0.5
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°	11483.0	100.0
0°-180°	11483.0	100.0

Coefficient of Utilization



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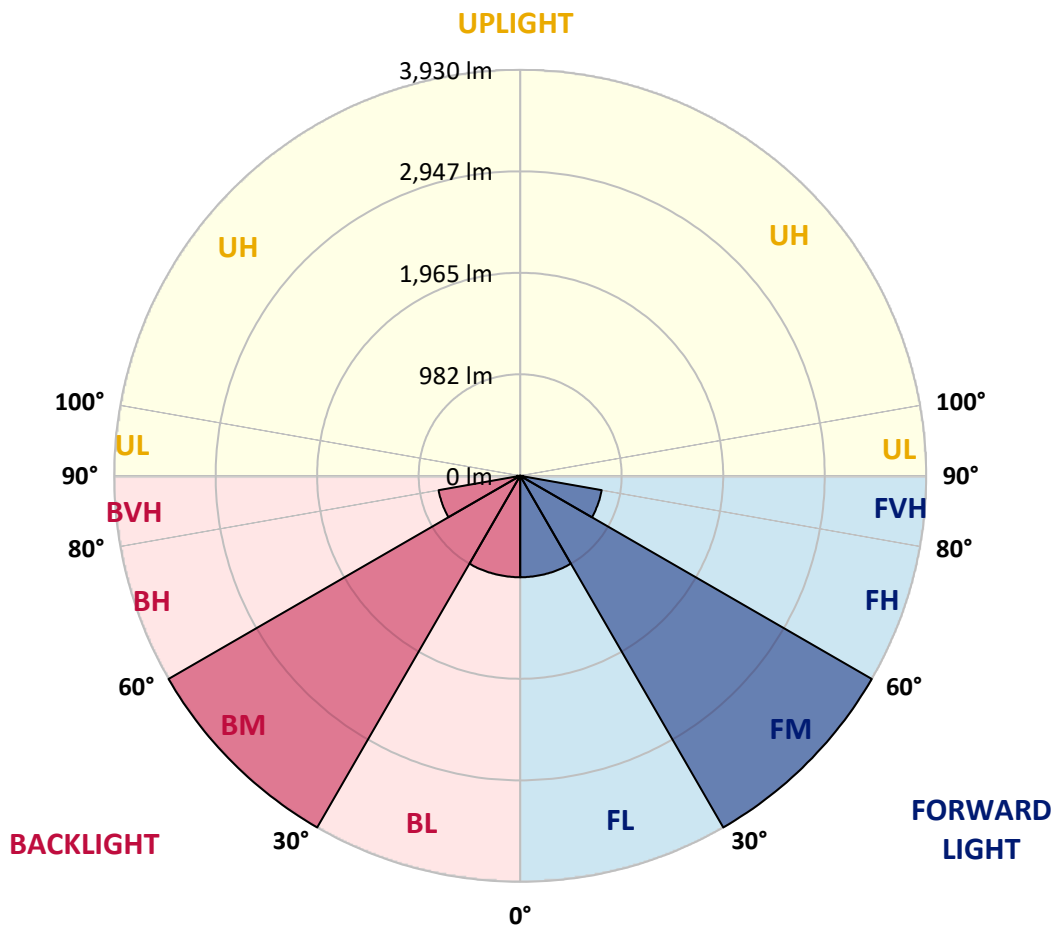
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	981.9	8.6			
FM (30°-60°)	3929.6	34.2			
FH (60°-80°)	801.1	7.0			G1/1800
FVH (80°-90°)	28.8	0.3			G1/100
BL (0°-30°)	981.9	8.6	B2/1000		
BM (30°-60°)	3929.6	34.2	B3/5000		
BH (60°-80°)	801.1	7.0	B2/1000		G1/1800
BVH (80°-90°)	28.8	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°	2267.8	2267.8	2267.8	2267.8	2267.8	2267.8	2267.8	2267.8	2267.8	2267.8	2267.8
2.5°	2256.5	2279.1	2269.2	2263.6	2267.8	2260.7	2249.4	2262.1	2259.3	2248.0	2243.8
5°	2250.8	2267.8	2256.5	2267.8	2256.5	2276.3	2270.6	2249.4	2274.9	2250.8	2259.3
7.5°	2246.6	2252.2	2255.1	2249.4	2245.2	2269.2	2256.5	2246.6	2232.4	2228.2	2235.3
10°	2236.7	2250.8	2229.6	2257.9	2263.6	2246.6	2246.6	2228.2	2216.9	2209.8	2233.9
12.5°	2262.1	2238.1	2235.3	2249.4	2253.7	2260.7	2240.9	2231.0	2209.8	2212.6	2208.4
15°	2232.4	2242.3	2243.8	2246.6	2250.8	2267.8	2249.4	2228.2	2219.7	2190.0	2192.8
17.5°	2243.8	2233.9	2243.8	2276.3	2270.6	2283.4	2263.6	2231.0	2211.2	2194.2	2216.9
20°	2263.6	2259.3	2263.6	2303.2	2310.2	2321.6	2304.6	2274.9	2236.7	2216.9	2228.2
22.5°	2284.8	2282.0	2284.8	2323.0	2364.0	2378.2	2361.2	2291.9	2272.1	2235.3	2222.5
25°	2323.0	2325.8	2355.5	2398.0	2424.8	2451.7	2420.6	2371.1	2307.4	2284.8	2257.9
27.5°	2407.9	2414.9	2431.9	2494.2	2540.9	2564.9	2521.0	2453.1	2413.5	2366.8	2359.8
30°	2512.6	2512.6	2542.3	2596.0	2659.7	2696.5	2642.7	2562.1	2514.0	2488.5	2472.9
32.5°	2651.2	2635.6	2647.0	2741.7	2840.8	2871.9	2799.7	2700.7	2624.3	2590.4	2579.0
35°	2770.0	2779.9	2805.4	2907.3	3017.6	3089.8	2976.6	2847.8	2770.0	2738.9	2733.3
37.5°	2924.2	2941.2	2954.0	3094.0	3227.0	3253.9	3144.9	3041.7	2946.9	2921.4	2907.3
40°	3142.1	3130.8	3135.0	3238.3	3358.6	3375.5	3268.0	3194.5	3116.6	3101.1	3101.1
42.5°	3321.8	3309.0	3323.2	3361.4	3453.3	3440.6	3381.2	3327.4	3294.9	3277.9	3294.9
45°	3430.7	3427.9	3453.3	3481.6	3546.7	3504.3	3457.6	3466.1	3435.0	3406.7	3405.2
47.5°	3549.6	3531.2	3562.3	3604.7	3555.2	3535.4	3532.6	3551.0	3541.1	3491.5	3476.0
50°	3607.6	3600.5	3650.0	3699.5	3672.6	3627.4	3637.3	3667.0	3539.6	3473.2	3435.0
52.5°	3763.2	3764.6	3859.4	3886.3	3874.9	3808.4	3829.7	3749.0	3599.1	3505.7	3509.9
55°	4007.9	3998.0	4104.1	4183.3	4196.1	4111.2	4009.3	3896.2	3708.0	3613.2	3584.9
57°	3873.5	3896.2	4013.6	4248.4	4367.3	4266.8	4044.7	3838.2	3587.7	3473.2	3422.2
57.5°	3693.9	3730.6	3934.4	4170.6	4295.1	4286.6	4000.8	3730.6	3507.1	3328.9	3333.1
60°	2706.4	2713.4	2897.4	3272.3	3661.3	3669.8	3321.8	2963.9	2714.9	2521.0	2547.9
62.5°	1427.5	1460.0	1533.6	1834.9	2171.6	2253.7	2042.9	1859.0	1643.9	1496.8	1510.9
65°	755.5	751.2	786.6	871.5	1037.0	1079.4	1051.1	905.4	830.4	806.4	807.8
67.5°	614.0	621.1	616.8	621.1	632.4	650.8	646.5	652.2	656.4	663.5	662.1
70°	520.6	520.6	523.4	524.9	524.9	533.4	543.3	561.6	563.1	570.1	573.0
72.5°	410.3	407.4	411.7	421.6	423.0	430.1	444.2	455.5	459.8	459.8	451.3
75°	278.7	281.5	287.2	295.7	304.2	316.9	328.2	335.3	338.1	333.9	329.6
77.5°	157.0	159.9	164.1	176.8	186.7	198.1	210.8	217.9	224.9	226.4	217.9
80°	93.4	93.4	100.4	110.3	121.7	133.0	144.3	152.8	155.6	155.6	151.4
82.5°	56.6	58.0	63.7	73.6	83.5	90.5	100.4	107.5	113.2	111.8	108.9
85°	29.7	29.7	35.4	43.9	50.9	58.0	58.0	53.8	50.9	43.9	41.0
87.5°	9.9	8.5	11.3	11.3	9.9	11.3	11.3	12.7	12.7	12.7	12.7
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)