

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: P451815

Luminaire Tested: **GALN-SA2D-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13578 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

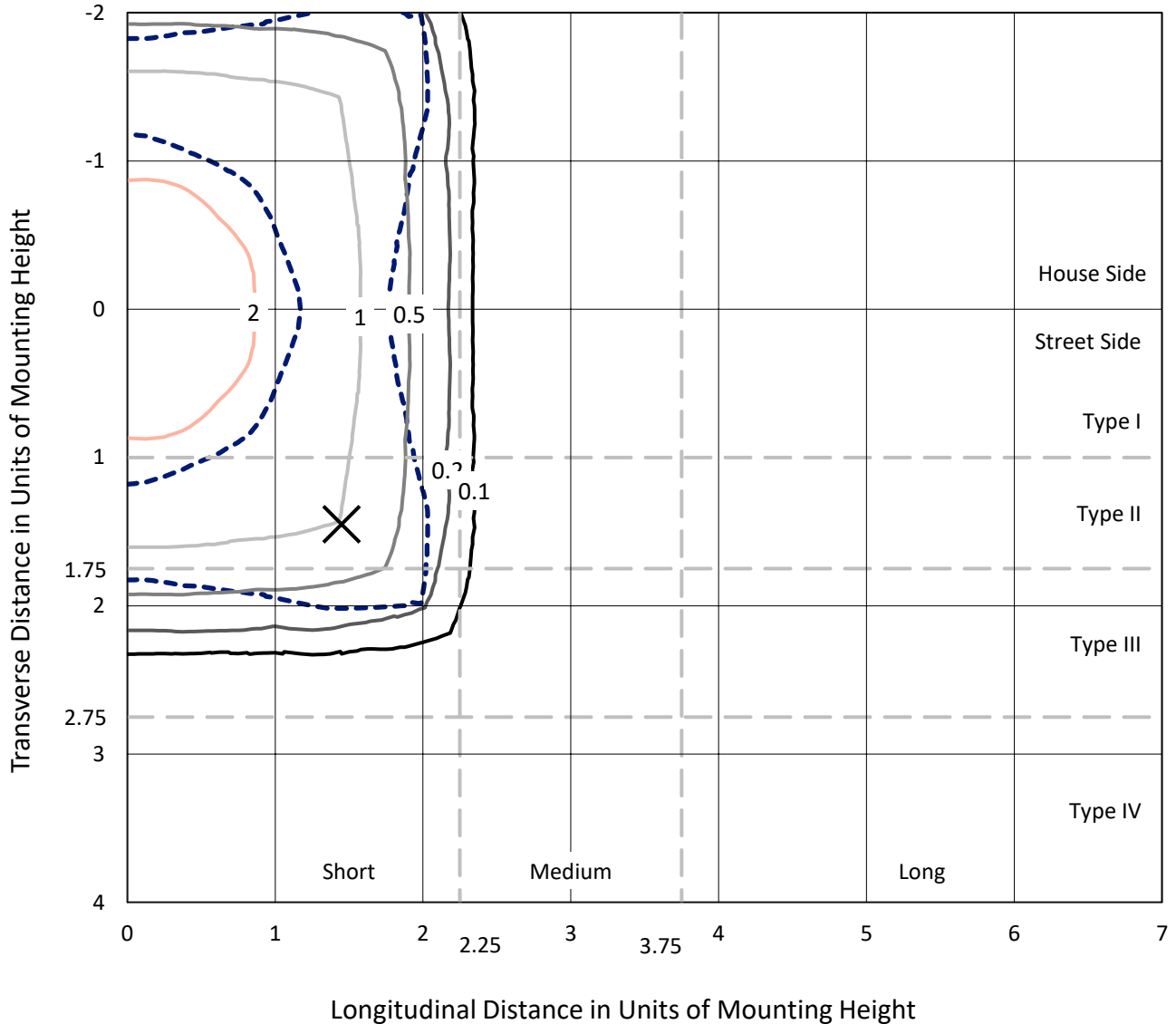
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

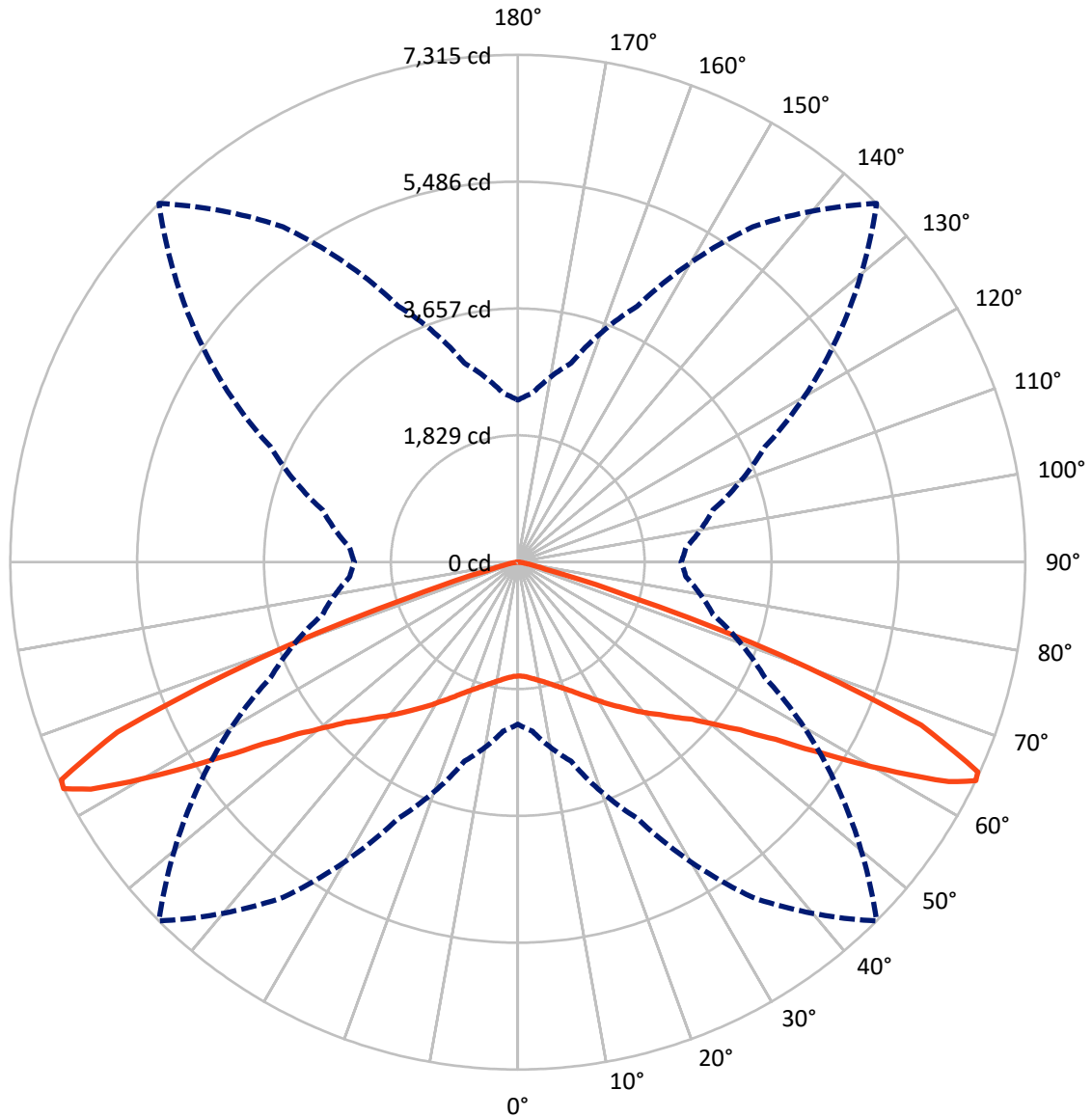
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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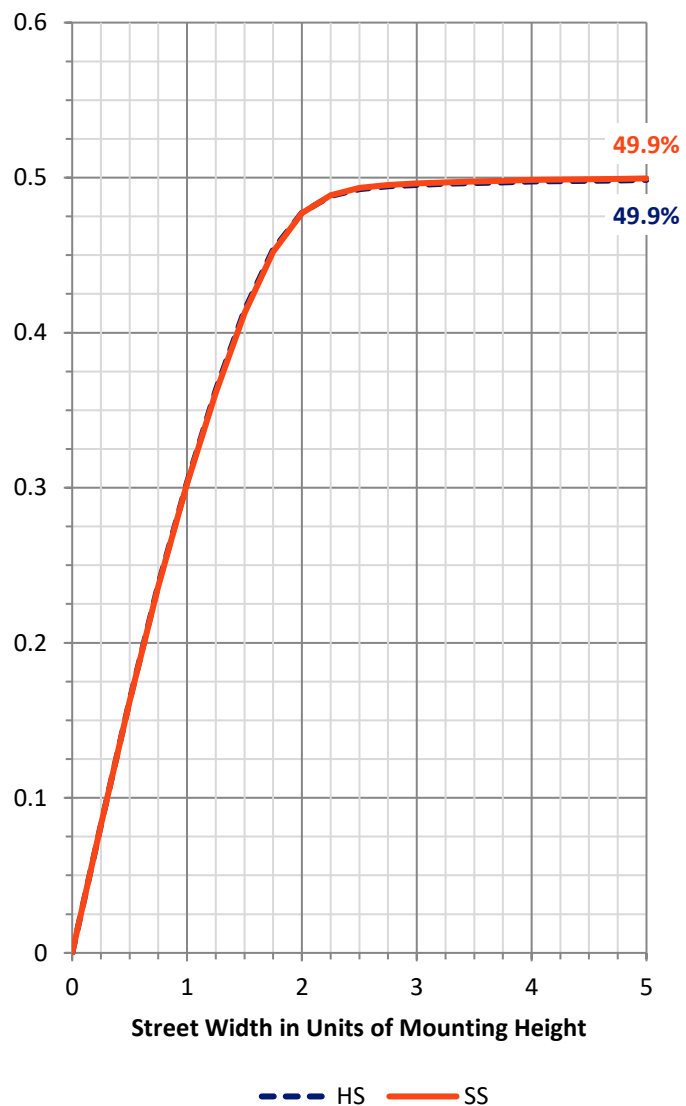
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6789.0	0.0	6789.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6789.0	0.0	6789.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13578.0	0.0	13578.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	1.2
10°-20°	520.1	3.8
20°-30°	982.8	7.2
30°-40°	1627.6	12.0
40°-50°	2540.9	18.7
50°-60°	3928.3	28.9
60°-70°	3387.3	24.9
70°-80°	383.9	2.8
80°-90°	46.0	0.3
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°	13578.0	100.0
0°-180°	13578.0	100.0

Coefficient of Utilization



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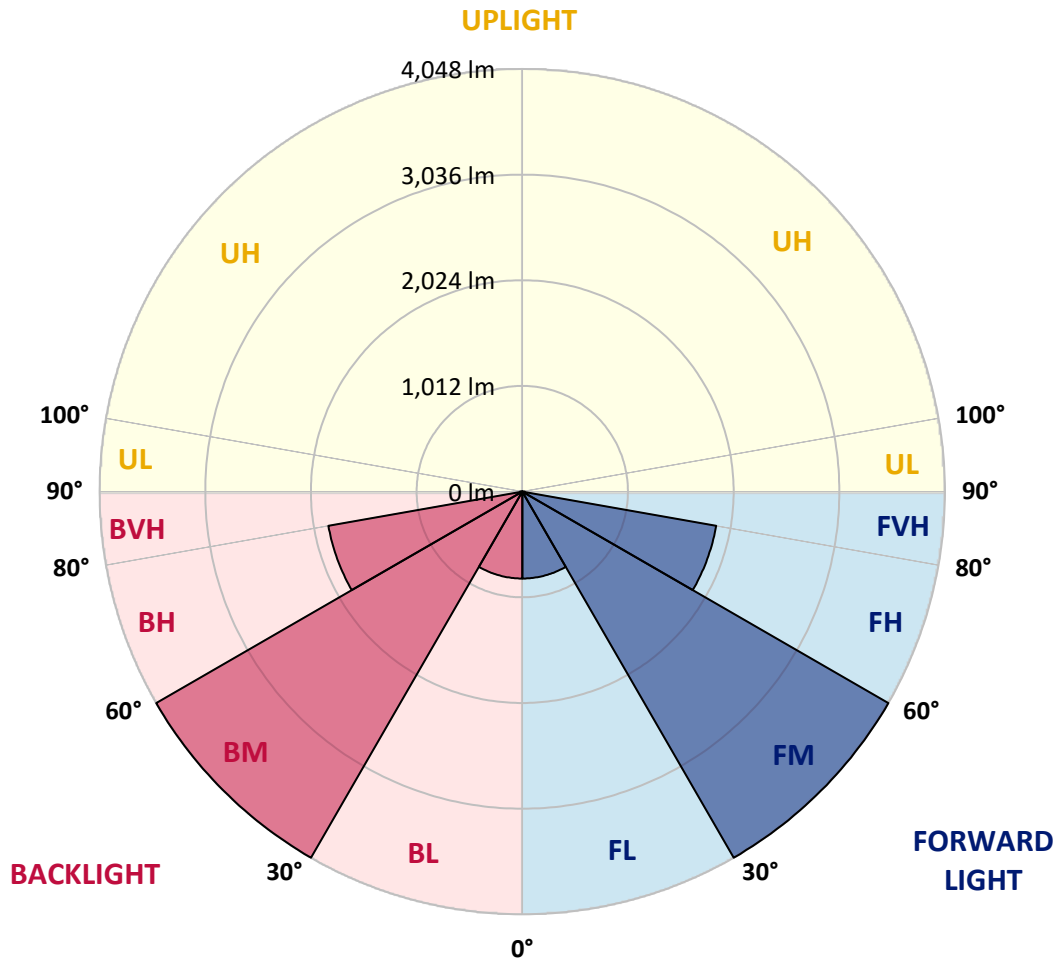
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	832.0	6.1			
FM	(30°-60°)	4048.4	29.8			
FH	(60°-80°)	1885.6	13.9			G2/5000
FVH	(80°-90°)	23.0	0.2			G1/100
BL	(0°-30°)	832.0	6.1	B2/1000		
BM	(30°-60°)	4048.4	29.8	B3/5000		
BH	(60°-80°)	1885.6	13.9	B3/2500		G2/5000
BVH	(80°-90°)	23.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1641.1	1641.1	1641.1	1641.1	1641.1	1641.1	1641.1	1641.1	1641.1	1641.1	1641.1
2.5°	1647.6	1651.2	1648.3	1647.6	1646.9	1646.9	1646.9	1647.6	1650.5	1652.6	1651.2
5°	1668.5	1671.3	1669.9	1669.2	1668.5	1669.2	1667.7	1667.0	1669.2	1669.2	1668.5
7.5°	1694.3	1697.9	1696.5	1697.9	1698.7	1699.4	1695.8	1692.9	1692.2	1694.3	1692.9
10°	1729.6	1732.5	1733.2	1733.9	1735.3	1734.6	1730.3	1725.3	1724.6	1723.8	1723.1
12.5°	1769.1	1771.3	1772.0	1774.9	1777.1	1777.8	1772.7	1768.4	1761.2	1762.7	1759.8
15°	1813.7	1818.0	1817.3	1821.6	1827.4	1828.8	1823.8	1816.6	1810.1	1806.5	1804.4
17.5°	1868.4	1871.3	1869.8	1874.1	1881.3	1884.9	1880.6	1871.3	1864.8	1856.9	1852.6
20°	1933.1	1938.1	1939.6	1939.6	1946.1	1949.7	1943.2	1940.3	1930.2	1924.5	1920.9
22.5°	2006.5	2008.6	2012.9	2017.3	2023.7	2022.3	2020.1	2015.8	2006.5	2001.4	1995.7
25°	2089.2	2091.3	2102.1	2111.5	2113.6	2112.2	2109.3	2107.1	2098.5	2087.0	2082.7
27.5°	2185.5	2189.9	2204.2	2212.9	2212.9	2213.6	2207.8	2215.0	2196.3	2182.7	2181.2
30°	2306.4	2309.2	2321.5	2330.1	2325.8	2322.2	2320.7	2327.9	2307.8	2283.3	2277.6
32.5°	2425.7	2435.8	2446.6	2465.3	2450.2	2443.7	2442.3	2447.3	2424.3	2397.0	2389.1
35°	2553.7	2560.9	2581.1	2596.9	2583.2	2568.1	2574.6	2590.4	2563.1	2526.4	2525.0
37.5°	2695.4	2701.9	2727.8	2744.3	2734.3	2708.4	2719.2	2737.9	2710.5	2665.2	2655.9
40°	2842.9	2856.5	2888.9	2906.1	2889.6	2855.1	2875.2	2895.3	2870.9	2818.4	2797.5
42.5°	3008.3	3029.8	3076.6	3085.2	3053.6	3006.8	3042.1	3074.4	3057.2	2996.8	2988.8
45°	3201.7	3214.7	3272.2	3290.9	3247.0	3188.8	3232.6	3291.6	3278.7	3208.9	3193.8
47.5°	3418.2	3430.4	3490.1	3518.1	3462.8	3384.4	3463.5	3540.4	3532.5	3457.7	3450.5
50°	3674.2	3677.1	3759.8	3791.4	3736.1	3668.4	3738.9	3834.6	3802.9	3707.3	3705.8
52.5°	3954.7	3958.3	4062.6	4123.7	4092.8	4016.5	4099.9	4158.2	4077.7	3952.5	3943.2
55°	4197.8	4215.7	4358.1	4520.7	4563.1	4507.7	4532.9	4505.6	4307.1	4131.6	4104.3
57.5°	4297.0	4332.2	4548.7	4852.2	5128.4	5210.3	5016.2	4755.8	4398.4	4150.3	4123.7
60°	4054.6	4092.8	4428.6	5004.7	5709.4	6065.4	5519.6	4798.3	4190.6	3841.8	3800.1
62.5°	3247.0	3257.8	3751.9	4645.8	6048.2	6970.1	5731.7	4436.5	3585.7	3111.8	3095.3
64°	2336.6	2447.3	2970.9	4073.3	5900.0	7314.6	5609.5	3929.5	2912.6	2432.9	2355.3
65°	1747.6	1777.8	2394.8	3478.6	5639.0	7288.7	5372.1	3444.8	2412.1	1861.9	1775.6
67.5°	660.2	663.8	883.9	1733.9	4014.4	6271.1	4099.9	1874.1	1016.2	735.0	708.4
70°	274.0	279.0	324.3	583.2	1725.3	4026.6	1977.0	676.0	371.8	301.3	297.0
72.5°	200.6	203.5	217.2	258.9	530.7	1653.4	650.1	286.9	217.9	194.9	192.7
75°	157.5	158.9	169.0	190.6	247.4	458.1	270.4	197.1	166.1	149.6	148.1
77.5°	120.1	123.7	130.9	145.3	166.1	217.2	179.1	147.4	128.0	114.3	112.2
80°	82.7	87.0	100.7	106.4	111.5	141.0	122.3	111.5	100.0	83.4	78.4
82.5°	51.1	53.9	67.6	72.6	70.5	79.1	78.4	79.8	71.2	51.8	48.2
85°	26.6	28.0	36.7	38.1	35.2	32.4	40.3	46.7	43.9	29.5	28.8
87.5°	5.8	6.5	7.9	7.2	7.9	7.9	10.1	15.1	15.8	10.1	9.3
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)