

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: P451819

Luminaire Tested: **GALN-SA2D-727-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451819
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-SA2D-727-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 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: 13423 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

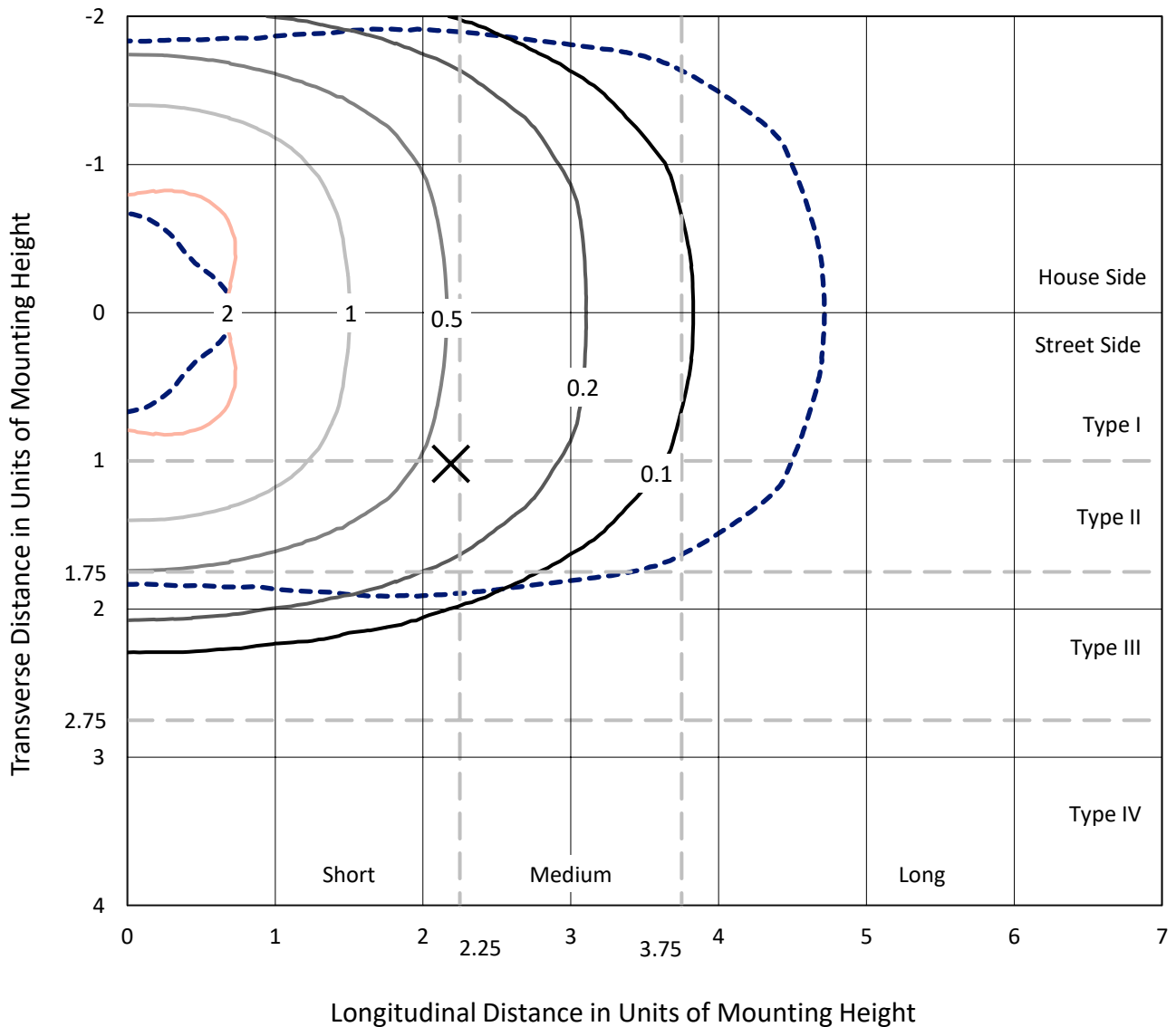
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

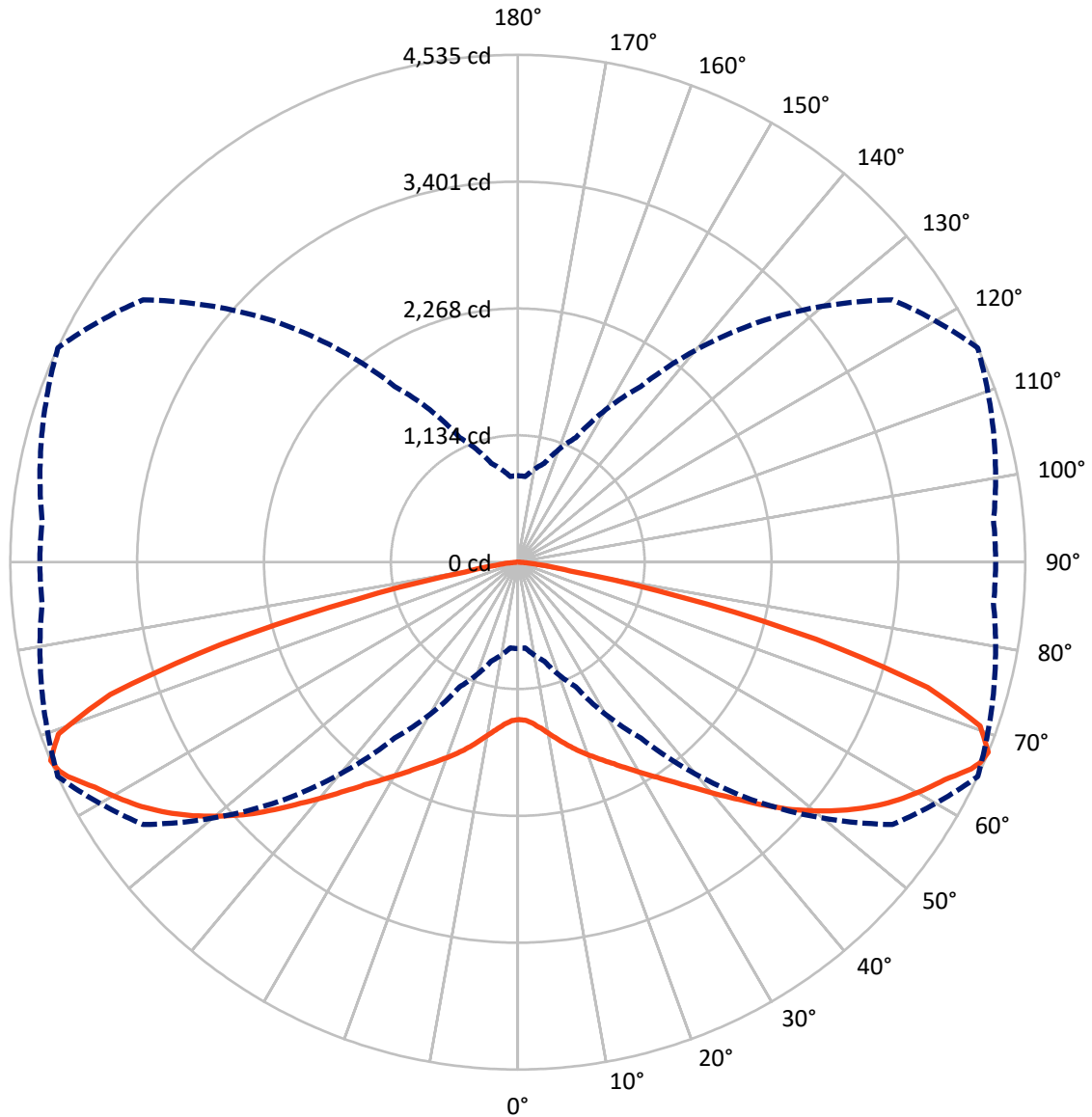
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	6711.5	0.0	6711.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6711.5	0.0	6711.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13423.0	0.0	13423.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	1.0
10°-20°	464.1	3.5
20°-30°	907.8	6.8
30°-40°	1544.1	11.5
40°-50°	2443.8	18.2
50°-60°	3240.4	24.1
60°-70°	3056.7	22.8
70°-80°	1511.1	11.3
80°-90°	116.5	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°	13423.0	100.0
0°-180°	13423.0	100.0

Coefficient of Utilization



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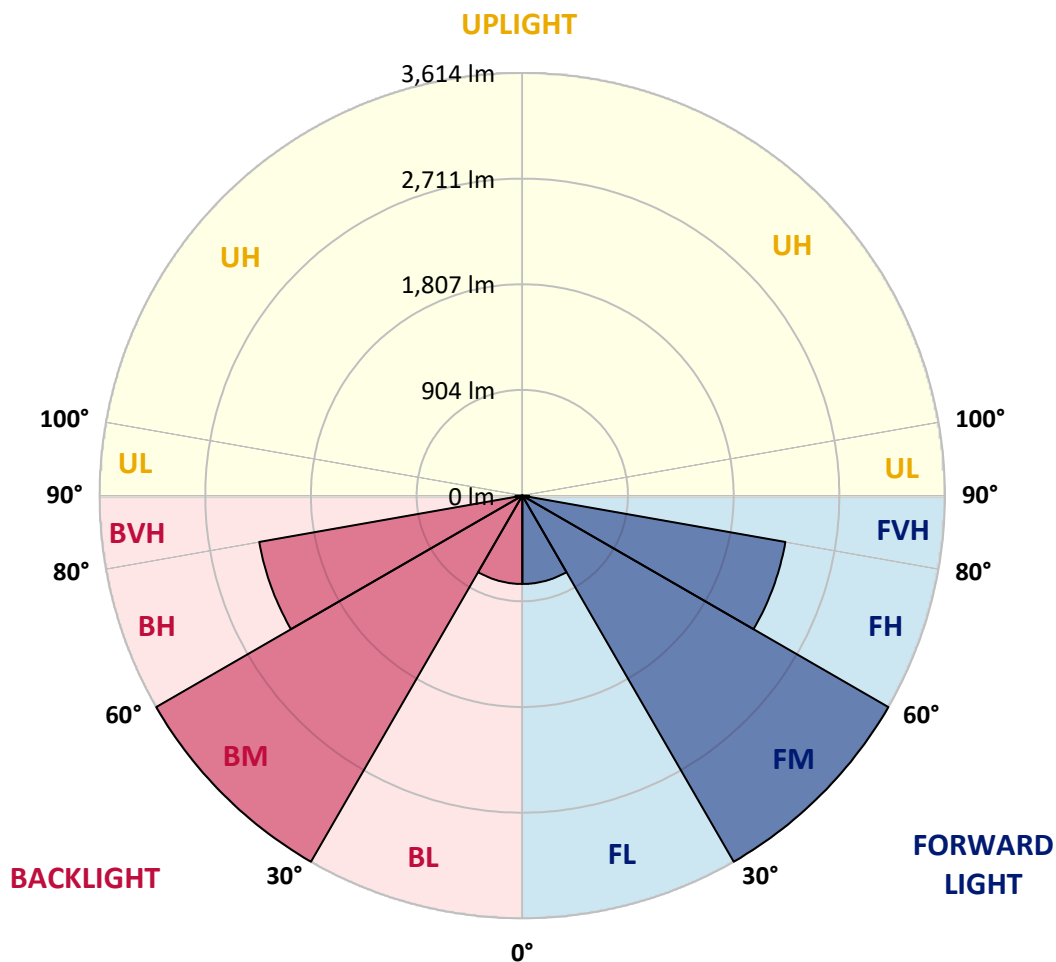
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	755.3	5.6			
FM	(30°-60°)	3614.1	26.9			
FH	(60°-80°)	2283.9	17.0			G2/5000
FVH	(80°-90°)	58.2	0.4			G1/100
BL	(0°-30°)	755.3	5.6	B2/1000		
BM	(30°-60°)	3614.1	26.9	B3/5000		
BH	(60°-80°)	2283.9	17.0	B3/2500		G3/2500
BVH	(80°-90°)	58.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1405.9	1405.9	1405.9	1405.9	1405.9	1405.9	1405.9	1405.9	1405.9	1405.9	1405.9
2.5°	1398.7	1400.2	1401.6	1403.8	1406.7	1411.0	1413.9	1416.0	1421.8	1422.5	1421.8
5°	1393.7	1395.2	1398.7	1405.2	1414.6	1427.5	1437.6	1449.8	1459.2	1465.6	1464.2
7.5°	1393.0	1395.9	1401.6	1415.3	1433.3	1455.6	1478.6	1499.4	1517.4	1531.8	1529.6
10°	1404.5	1408.1	1417.4	1437.6	1465.6	1498.0	1530.4	1561.3	1587.2	1605.9	1612.3
12.5°	1423.9	1426.8	1444.1	1474.3	1514.5	1554.8	1591.5	1629.6	1665.6	1697.2	1697.2
15°	1457.7	1462.8	1484.3	1528.2	1577.8	1624.6	1662.0	1702.2	1741.1	1777.0	1787.8
17.5°	1504.5	1511.7	1544.0	1600.1	1663.4	1706.5	1741.8	1774.9	1808.7	1843.2	1848.2
20°	1568.5	1575.7	1618.8	1686.4	1761.2	1813.0	1836.7	1844.6	1861.2	1894.2	1898.6
22.5°	1655.5	1662.7	1710.9	1787.1	1870.5	1926.6	1936.7	1918.0	1913.7	1939.6	1942.4
25°	1754.0	1760.5	1815.9	1897.8	1984.1	2045.3	2042.4	1996.4	1970.5	1986.3	1990.6
27.5°	1864.8	1874.1	1930.2	2015.1	2108.6	2162.5	2153.9	2087.0	2031.6	2028.7	2030.2
30°	2006.4	2016.5	2069.7	2151.0	2243.0	2292.7	2274.7	2184.8	2099.2	2070.4	2070.4
32.5°	2156.0	2181.2	2235.1	2320.0	2391.9	2427.9	2400.5	2292.7	2179.0	2138.8	2136.6
35°	2350.9	2364.6	2417.8	2500.5	2554.4	2582.5	2530.0	2414.2	2283.3	2235.8	2229.4
37.5°	2541.5	2553.0	2614.8	2693.9	2759.4	2757.9	2686.7	2558.7	2412.8	2359.5	2355.2
40°	2736.4	2748.6	2819.1	2891.7	2957.2	2951.4	2865.1	2722.0	2566.7	2507.0	2518.5
42.5°	2905.4	2919.0	2998.9	3102.4	3161.4	3160.0	3060.0	2898.9	2737.1	2683.9	2693.9
45°	3059.3	3071.5	3164.3	3282.9	3369.2	3380.0	3270.7	3100.3	2934.1	2865.8	2868.7
47.5°	3167.9	3190.9	3288.0	3423.9	3541.1	3579.2	3472.1	3305.2	3113.9	3042.7	3047.0
50°	3250.6	3264.9	3370.7	3525.3	3673.4	3752.5	3666.2	3495.1	3293.7	3218.2	3228.3
52.5°	3260.6	3277.9	3393.0	3571.3	3761.2	3881.3	3838.8	3680.6	3477.1	3399.4	3421.0
55°	3178.6	3188.7	3326.1	3542.5	3795.7	3976.9	3987.7	3853.2	3651.9	3592.9	3607.3
57.5°	2944.9	2970.8	3144.8	3408.1	3748.2	4028.0	4099.2	4010.0	3828.8	3770.5	3793.5
60°	2561.6	2587.5	2762.3	3095.9	3569.1	4004.2	4191.2	4148.8	3989.1	3942.4	3954.6
62.5°	2007.2	2005.0	2221.5	2630.7	3213.2	3887.7	4259.5	4282.5	4147.3	4088.4	4107.1
65°	1300.9	1307.4	1516.7	1957.5	2676.0	3591.4	4274.6	4453.0	4302.7	4213.5	4227.2
66°	1046.4	1065.8	1243.4	1649.7	2402.0	3397.3	4229.3	4503.3	4350.1	4242.3	4248.7
67.5°	772.4	768.8	914.8	1228.3	1918.0	3028.3	4087.7	4535.0	4404.1	4268.2	4271.0
70°	440.8	440.1	491.9	674.6	1127.6	2132.3	3445.5	4383.2	4513.4	4361.7	4353.7
72.5°	322.2	320.0	327.2	372.5	550.2	1076.6	2376.8	3830.9	4457.3	4346.6	4324.3
75°	270.4	269.0	267.5	273.3	308.5	487.6	1261.4	2755.8	3867.6	4079.7	4056.7
77.5°	220.8	220.8	221.5	220.1	221.5	256.7	522.8	1477.1	2355.2	2629.2	2693.2
80°	172.6	171.9	184.1	179.1	167.6	164.7	231.6	475.4	781.7	777.4	641.5
82.5°	127.3	118.7	140.2	136.6	123.7	105.0	135.2	202.8	261.1	169.7	125.9
85°	80.5	79.8	99.2	90.6	75.5	49.6	64.7	87.0	107.9	65.4	53.2
87.5°	14.4	13.7	31.6	23.0	23.0	14.4	18.0	23.7	35.2	24.5	18.0
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)