

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: P527840

Luminaire Tested: **GALN-SA2D-827-U-RW-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527840  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-827-U-RW-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10021 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

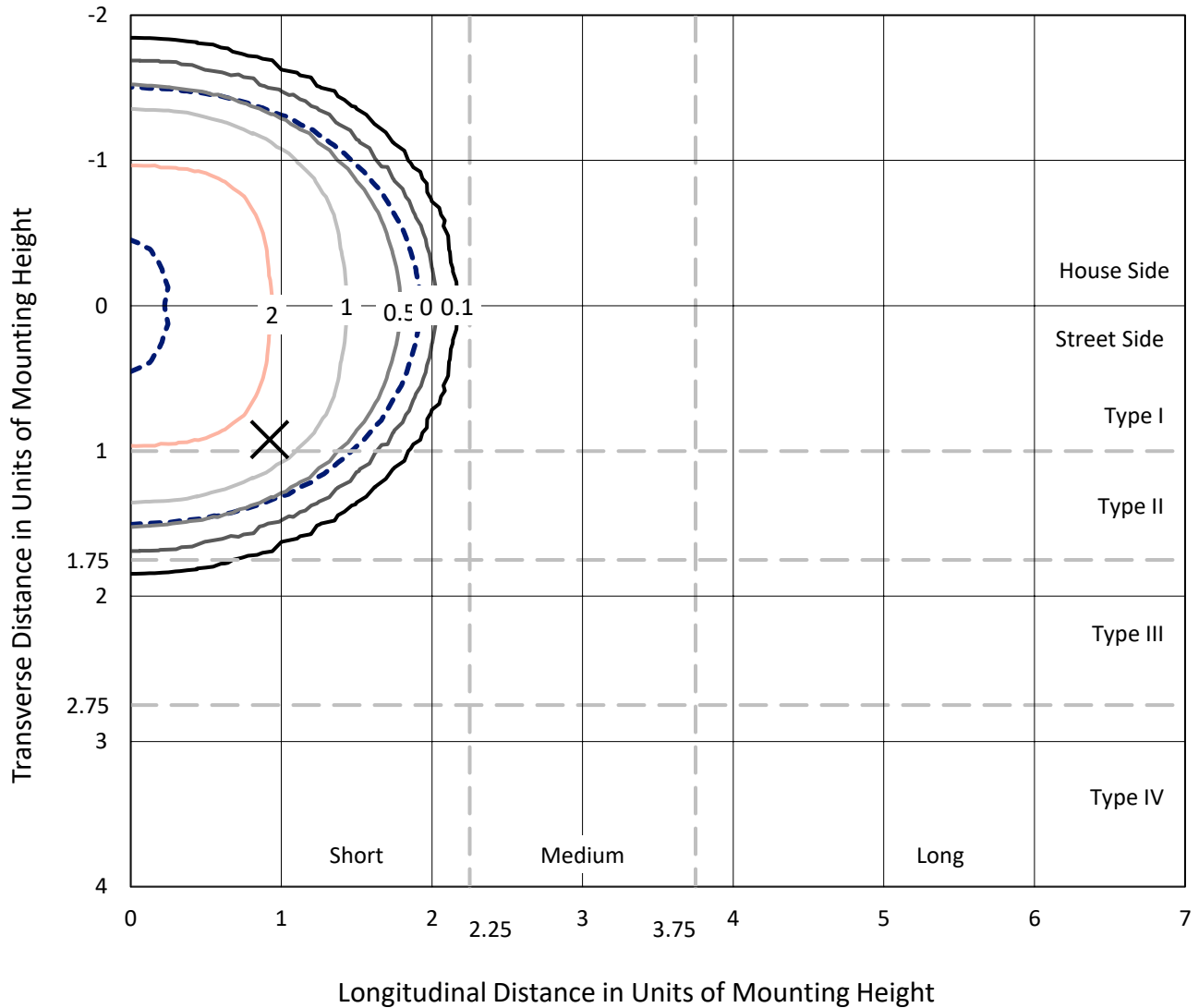
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

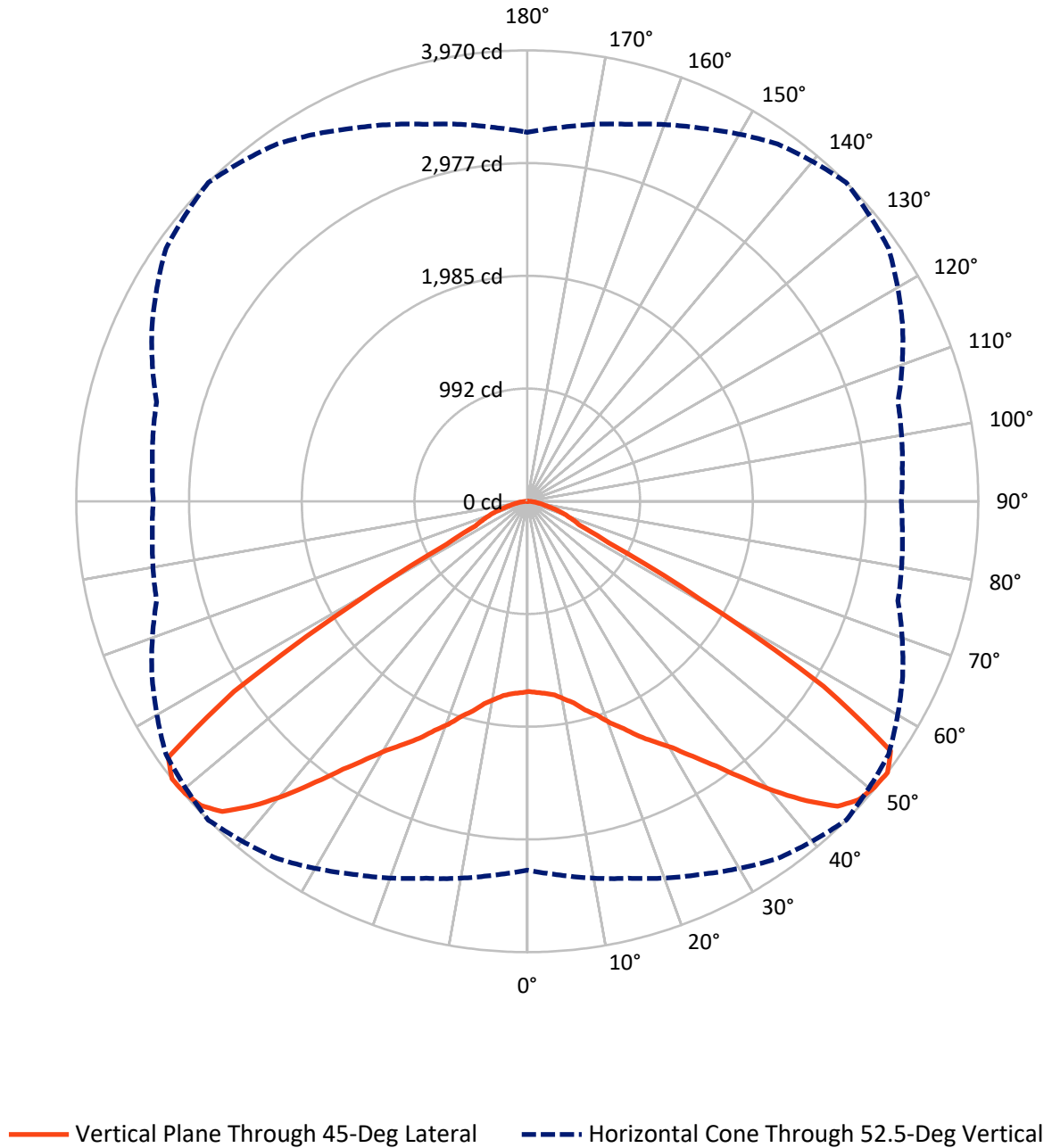
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5010.5	0.0	5010.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5010.5	0.0	5010.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10021.0	0.0	10021.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.6	1.6
10°-20°	540.8	5.4
20°-30°	1029.6	10.3
30°-40°	1767.9	17.6
40°-50°	2717.3	27.1
50°-60°	2759.3	27.5
60°-70°	769.0	7.7
70°-80°	226.9	2.3
80°-90°	45.7	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°	10021.0	100.0
0°-180°	10021.0	100.0

**Coefficient of Utilization**



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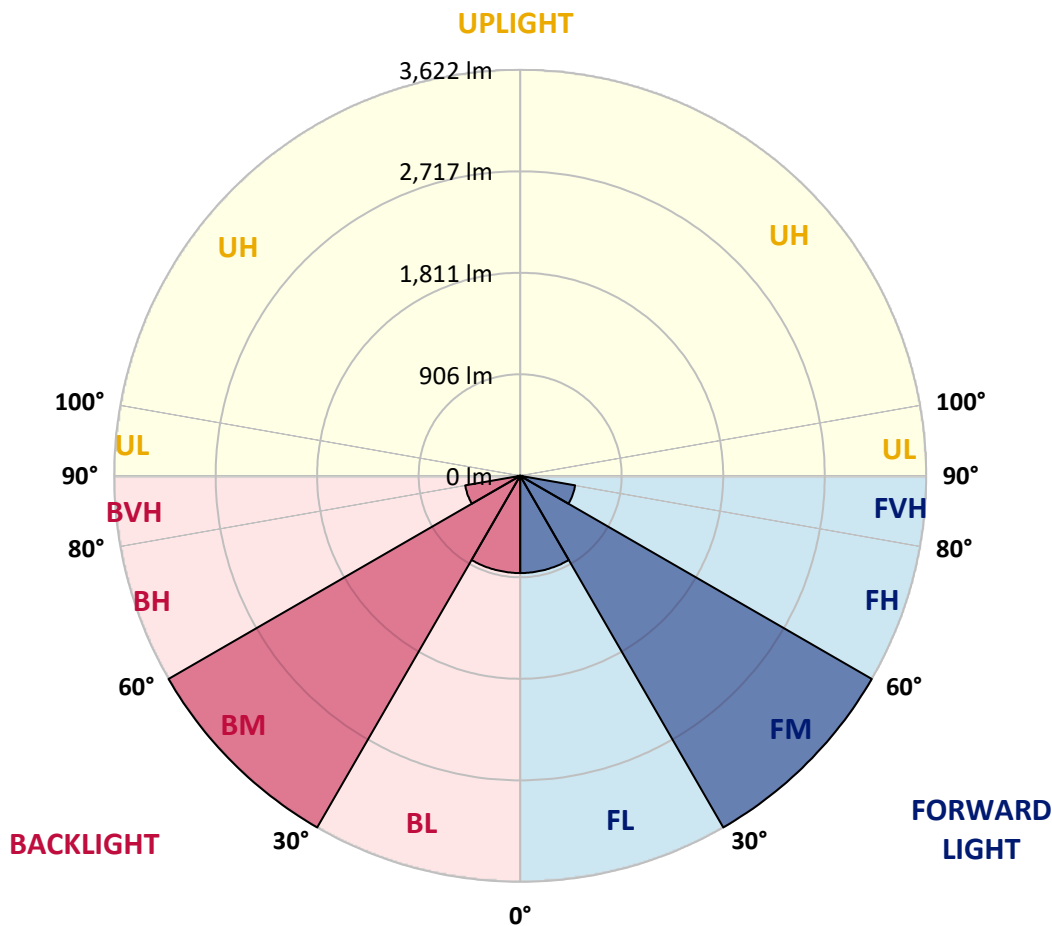
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	867.5	8.7			
FM (30°-60°)	3622.3	36.1			
FH (60°-80°)	497.9	5.0			G0/660
FVH (80°-90°)	22.8	0.2			G1/100
BL (0°-30°)	867.5	8.7	B2/1000		
BM (30°-60°)	3622.3	36.1	B3/5000		
BH (60°-80°)	497.9	5.0	B1/500		G0/660
BVH (80°-90°)	22.8	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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1675.1	1675.1	1675.1	1675.1	1675.1	1675.1	1675.1	1675.1	1675.1	1675.1	1675.1
2.5°	1678.9	1661.5	1667.7	1671.4	1687.6	1686.3	1682.6	1687.6	1692.6	1693.8	1691.3
5°	1677.6	1665.2	1670.2	1673.9	1690.1	1698.8	1696.3	1717.4	1732.3	1728.6	1747.3
7.5°	1667.7	1675.1	1668.9	1687.6	1701.3	1722.4	1744.8	1764.7	1783.3	1804.5	1808.2
10°	1690.1	1690.1	1701.3	1716.2	1752.2	1768.4	1800.7	1829.3	1865.4	1890.3	1880.3
12.5°	1713.7	1717.4	1717.4	1756.0	1785.8	1821.9	1851.7	1890.3	1941.3	1971.1	1986.0
15°	1737.3	1739.8	1752.2	1804.5	1849.2	1906.5	1933.8	1968.6	1997.2	2053.2	2054.4
17.5°	1758.5	1772.1	1809.5	1867.9	1923.9	1978.6	2022.1	2058.2	2083.0	2105.4	2100.5
20°	1838.1	1848.0	1886.6	1945.0	2028.3	2081.8	2096.7	2102.9	2119.1	2163.9	2150.2
22.5°	1915.2	1918.9	1955.0	2044.5	2102.9	2173.8	2190.0	2186.3	2192.5	2203.7	2223.6
25°	1994.7	2001.0	2050.7	2126.6	2208.7	2293.2	2306.9	2278.3	2269.6	2282.0	2283.3
27.5°	2096.7	2098.0	2161.4	2227.3	2320.6	2400.2	2421.3	2398.9	2357.9	2367.8	2384.0
30°	2226.1	2217.4	2280.8	2375.3	2473.5	2518.3	2554.4	2543.2	2498.4	2489.7	2476.0
32.5°	2375.3	2377.8	2435.0	2538.2	2602.9	2677.5	2716.0	2697.4	2668.8	2653.9	2662.6
35°	2585.5	2596.7	2635.2	2721.0	2825.5	2862.8	2923.7	2883.9	2809.3	2828.0	2844.1
37.5°	2758.3	2790.7	2862.8	2964.8	3026.9	3095.3	3117.7	3064.3	3009.5	2987.2	3040.6
40°	3023.2	3013.3	3092.9	3194.8	3286.9	3355.3	3326.7	3273.2	3137.6	3138.9	3153.8
42.5°	3250.8	3255.8	3316.7	3438.6	3564.2	3606.5	3515.7	3385.1	3234.6	3218.5	3250.8
45°	3442.3	3462.2	3497.0	3659.9	3783.1	3829.1	3661.2	3507.0	3305.5	3238.4	3291.8
47.5°	3510.7	3543.0	3618.9	3768.1	3890.0	3927.3	3793.0	3571.6	3371.4	3262.0	3290.6
50°	3520.7	3509.5	3633.8	3770.6	3877.6	3958.4	3840.3	3618.9	3355.3	3298.1	3289.3
52.5°	3248.3	3303.0	3436.1	3623.9	3840.3	3969.6	3882.5	3645.0	3377.6	3313.0	3291.8
55°	2629.0	2564.3	2806.8	3122.7	3520.7	3880.1	3867.6	3658.7	3391.3	3337.8	3309.2
57.5°	1467.5	1486.1	1622.9	1966.1	2479.8	3076.7	3438.6	3514.4	3385.1	3354.0	3368.9
60°	679.0	685.2	743.7	904.1	1222.5	1744.8	2221.1	2704.9	2927.5	2972.2	2972.2
62.5°	506.1	503.7	518.6	547.2	614.3	802.1	1070.7	1455.0	1761.0	1974.9	2030.8
65°	457.6	456.4	463.9	473.8	478.8	504.9	564.6	682.7	782.2	839.4	829.5
67.5°	400.4	399.2	401.7	407.9	416.6	430.3	445.2	470.1	504.9	502.4	496.2
70°	323.3	323.3	327.1	332.0	342.0	358.2	375.6	393.0	422.8	429.0	427.8
72.5°	238.8	235.0	242.5	252.5	262.4	282.3	301.0	317.1	338.3	344.5	342.0
75°	151.7	154.2	159.2	170.4	187.8	201.5	221.4	235.0	248.7	253.7	254.9
77.5°	84.6	87.1	95.8	109.4	126.8	141.8	159.2	170.4	179.1	180.3	181.6
80°	51.0	52.2	60.9	73.4	88.3	104.5	118.1	129.3	136.8	133.1	131.8
82.5°	31.1	32.3	39.8	51.0	63.4	75.9	90.8	100.7	108.2	103.2	98.2
85°	16.2	17.4	23.6	31.1	41.0	47.3	47.3	42.3	41.0	38.6	37.3
87.5°	5.0	5.0	6.2	7.5	6.2	7.5	8.7	9.9	9.9	11.2	9.9
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)