

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: P530175

Luminaire Tested: **GALN-SA5B-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530175  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-827-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10927 lumens  
Efficiency: N/A  
Efficacy: 53.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

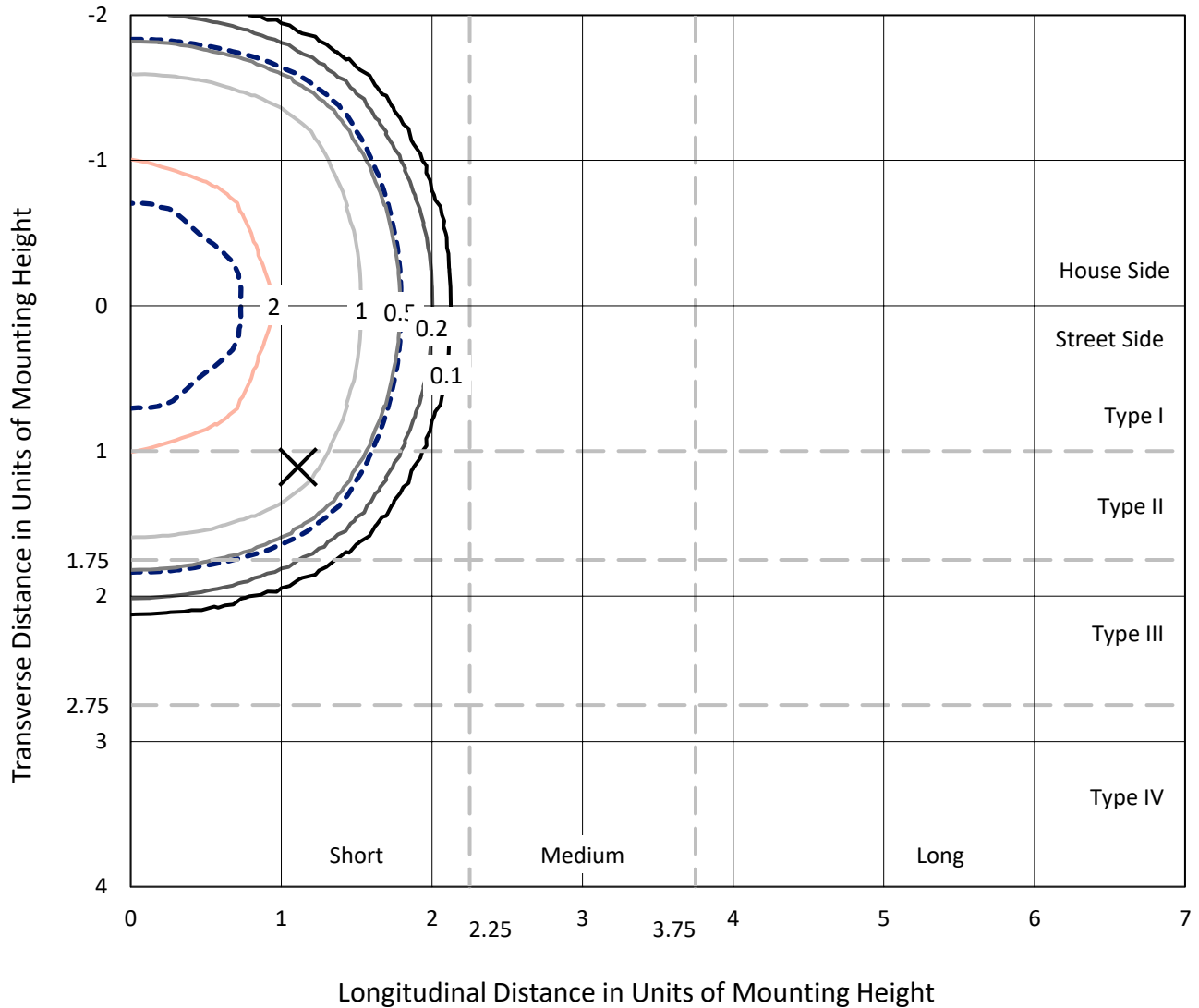
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

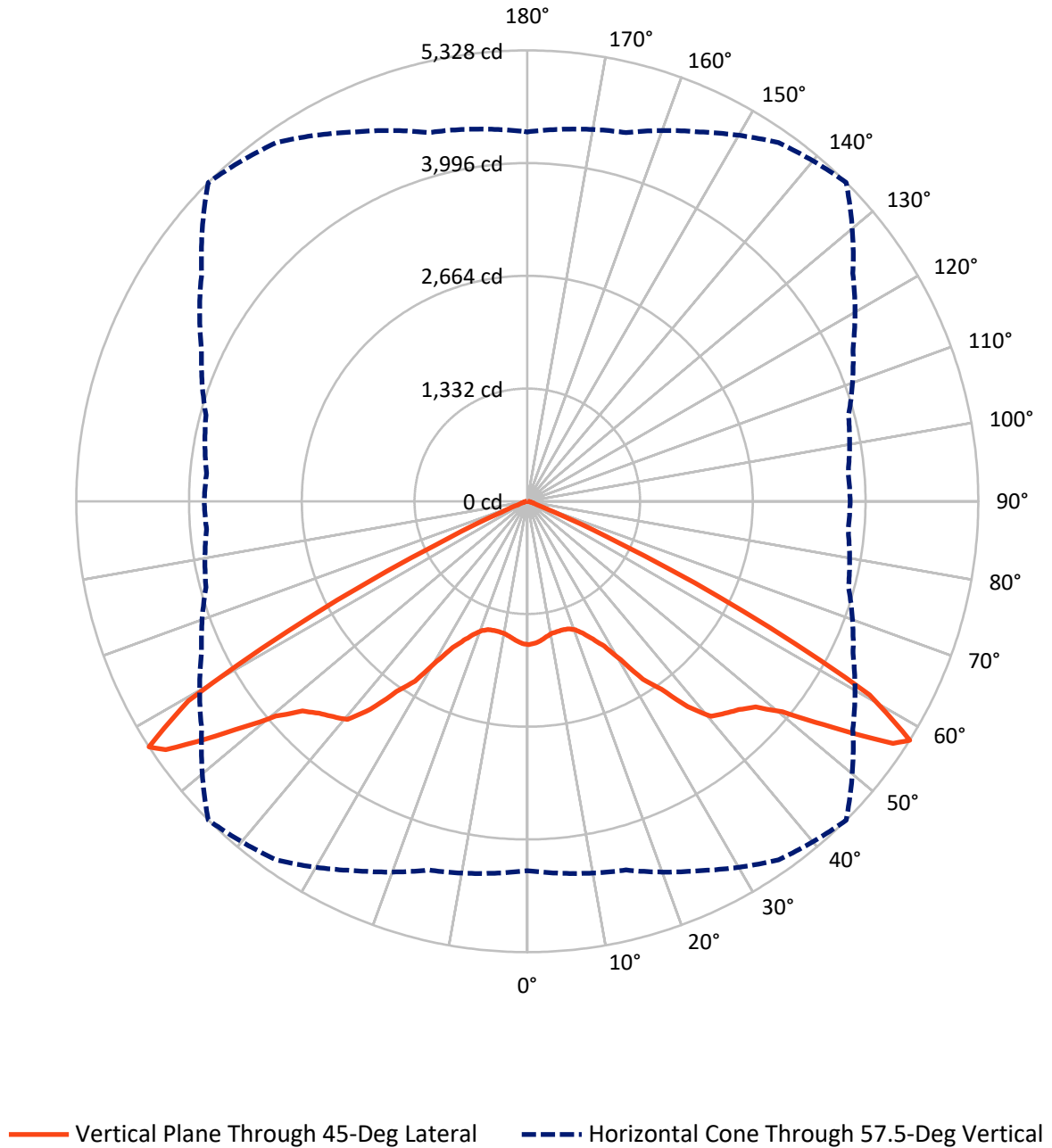
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	5463.5	0.0	5463.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5463.5	0.0	5463.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10927.0	0.0	10927.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.7	1.4
10°-20°	450.2	4.1
20°-30°	831.0	7.6
30°-40°	1634.3	15.0
40°-50°	2661.8	24.4
50°-60°	3796.0	34.7
60°-70°	1314.3	12.0
70°-80°	70.5	0.6
80°-90°	13.2	0.1
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°	10927.0	100.0
0°-180°	10927.0	100.0

**Coefficient of Utilization**



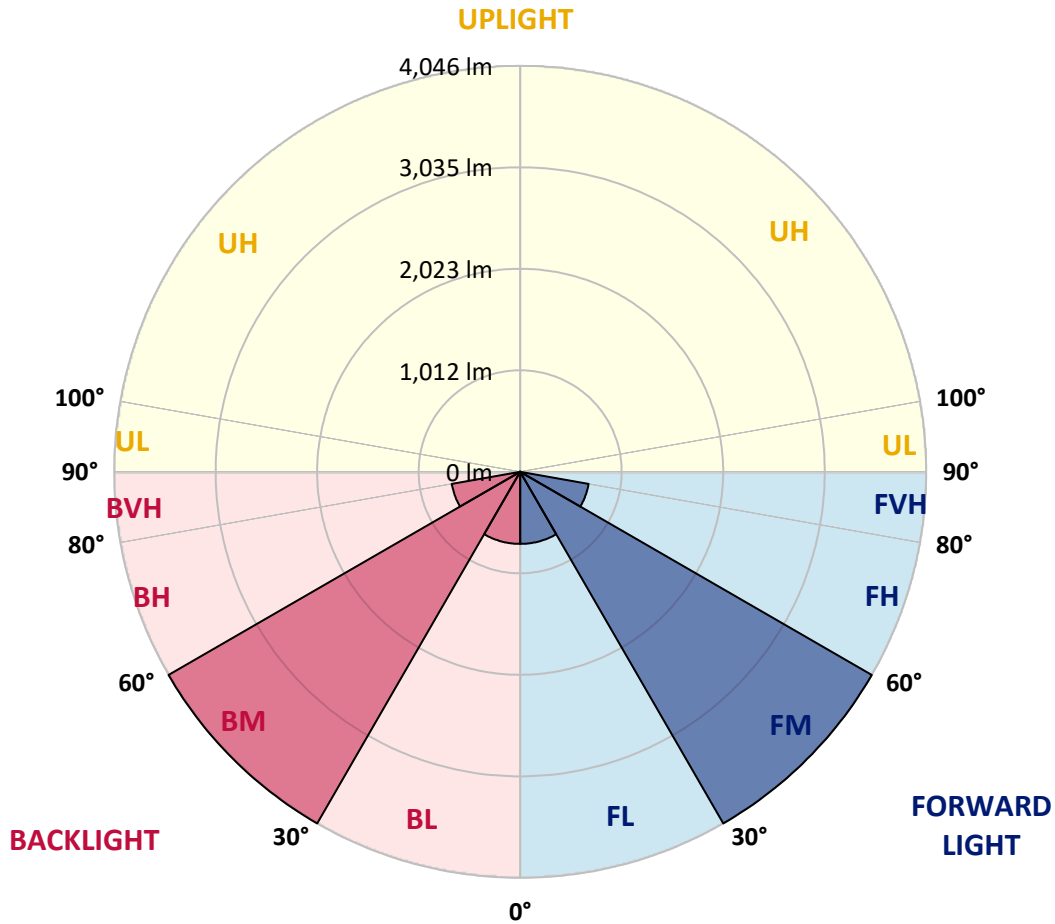
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	718.5	6.6			
FM (30°-60°)	4046.0	37.0			
FH (60°-80°)	692.4	6.3			G1/1800
FVH (80°-90°)	6.6	0.1			G0/10
BL (0°-30°)	718.5	6.6	B2/1000		
BM (30°-60°)	4046.0	37.0	B3/5000		
BH (60°-80°)	692.4	6.3	B2/1000		G1/1800
BVH (80°-90°)	6.6	0.1			G0/10
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°	1694.9	1694.9	1694.9	1694.9	1694.9	1694.9	1694.9	1694.9	1694.9	1694.9	1694.9
2.5°	1690.3	1699.4	1688.1	1683.5	1681.2	1681.2	1674.4	1674.4	1672.1	1674.4	1665.3
5°	1663.0	1672.1	1672.1	1669.8	1656.2	1653.9	1647.1	1642.5	1644.8	1635.7	1642.5
7.5°	1635.7	1642.5	1633.4	1631.1	1626.5	1617.4	1615.2	1594.7	1596.9	1596.9	1601.5
10°	1631.1	1628.8	1615.2	1603.8	1590.1	1587.8	1581.0	1576.4	1576.4	1574.2	1581.0
12.5°	1631.1	1619.7	1617.4	1592.4	1569.6	1578.7	1560.5	1549.1	1565.0	1569.6	1578.7
15°	1628.8	1640.2	1601.5	1590.1	1574.2	1576.4	1560.5	1549.1	1558.2	1562.8	1569.6
17.5°	1642.5	1635.7	1624.3	1601.5	1594.7	1585.5	1565.0	1555.9	1555.9	1567.3	1569.6
20°	1678.9	1660.7	1637.9	1626.5	1633.4	1622.0	1596.9	1562.8	1571.9	1581.0	1587.8
22.5°	1713.1	1699.4	1683.5	1676.7	1715.4	1697.2	1653.9	1615.2	1601.5	1617.4	1628.8
25°	1779.2	1779.2	1749.6	1758.7	1802.0	1804.2	1754.1	1685.8	1676.7	1683.5	1688.1
27.5°	1913.6	1920.4	1895.4	1904.5	1922.7	1938.6	1895.4	1838.4	1817.9	1815.6	1822.5
30°	2059.4	2073.1	2070.8	2109.5	2161.9	2171.0	2107.2	2013.8	1952.3	1940.9	1950.0
32.5°	2250.7	2257.6	2253.0	2298.6	2439.8	2505.9	2339.6	2207.5	2125.4	2146.0	2125.4
35°	2610.7	2603.8	2553.7	2562.8	2679.0	2726.9	2567.4	2483.1	2444.4	2485.4	2476.3
37.5°	2920.5	2895.4	2854.4	2913.7	3034.4	3077.7	2911.4	2763.3	2692.7	2761.0	2790.6
40°	3182.5	3118.7	3061.7	3121.0	3282.7	3341.9	3098.2	2977.5	2950.1	3000.2	3064.0
42.5°	3403.5	3362.4	3287.3	3291.8	3398.9	3426.2	3230.3	3159.7	3132.4	3212.1	3244.0
45°	3560.6	3521.9	3451.3	3446.7	3528.7	3510.5	3335.1	3287.3	3303.2	3355.6	3371.6
47.5°	3640.4	3660.9	3619.9	3631.3	3674.5	3631.3	3492.3	3492.3	3455.8	3487.7	3471.8
50°	3870.5	3806.7	3859.1	3859.1	3904.6	3909.2	3770.2	3720.1	3622.1	3567.5	3567.5
52.5°	4139.3	4143.8	4164.3	4239.5	4317.0	4383.0	4184.8	3970.7	3806.7	3736.1	3726.9
55°	4360.2	4405.8	4487.8	4629.1	4852.3	4943.4	4601.7	4219.0	4018.5	3909.2	3886.4
56°	4481.0	4437.7	4578.9	4772.6	5064.2	5182.6	4670.1	4269.1	4048.1	3925.1	3922.9
57.5°	4364.8	4412.6	4510.6	4815.9	5173.5	5328.4	4695.1	4246.3	3929.7	3804.4	3815.8
60°	3446.7	3492.3	3624.4	3966.1	4526.5	4647.3	3973.0	3501.4	3218.9	3039.0	3041.2
62.5°	1950.0	1984.2	2086.7	2403.4	2751.9	2868.1	2476.3	2161.9	1966.0	1865.7	1833.9
65°	717.6	703.9	719.9	881.6	1095.8	1193.7	1029.7	870.2	767.7	731.3	717.6
67.5°	268.8	248.3	232.4	248.3	312.1	330.3	303.0	252.9	236.9	243.8	248.3
70°	166.3	157.2	125.3	118.5	116.2	113.9	120.7	127.6	145.8	170.9	175.4
72.5°	116.2	109.3	88.8	84.3	79.7	77.5	88.8	98.0	113.9	132.1	134.4
75°	45.6	47.8	45.6	50.1	52.4	54.7	63.8	70.6	77.5	77.5	75.2
77.5°	9.1	9.1	13.7	18.2	22.8	29.6	43.3	50.1	52.4	50.1	43.3
80°	0.0	0.0	4.6	9.1	18.2	25.1	38.7	43.3	47.8	43.3	34.2
82.5°	0.0	0.0	4.6	11.4	18.2	22.8	36.4	45.6	52.4	47.8	36.4
85°	0.0	0.0	4.6	9.1	13.7	15.9	15.9	11.4	11.4	6.8	4.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)