

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: P528767

Luminaire Tested: **GALN-SA3D-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-827-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10188 lumens
Efficiency: N/A
Efficacy: 55.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

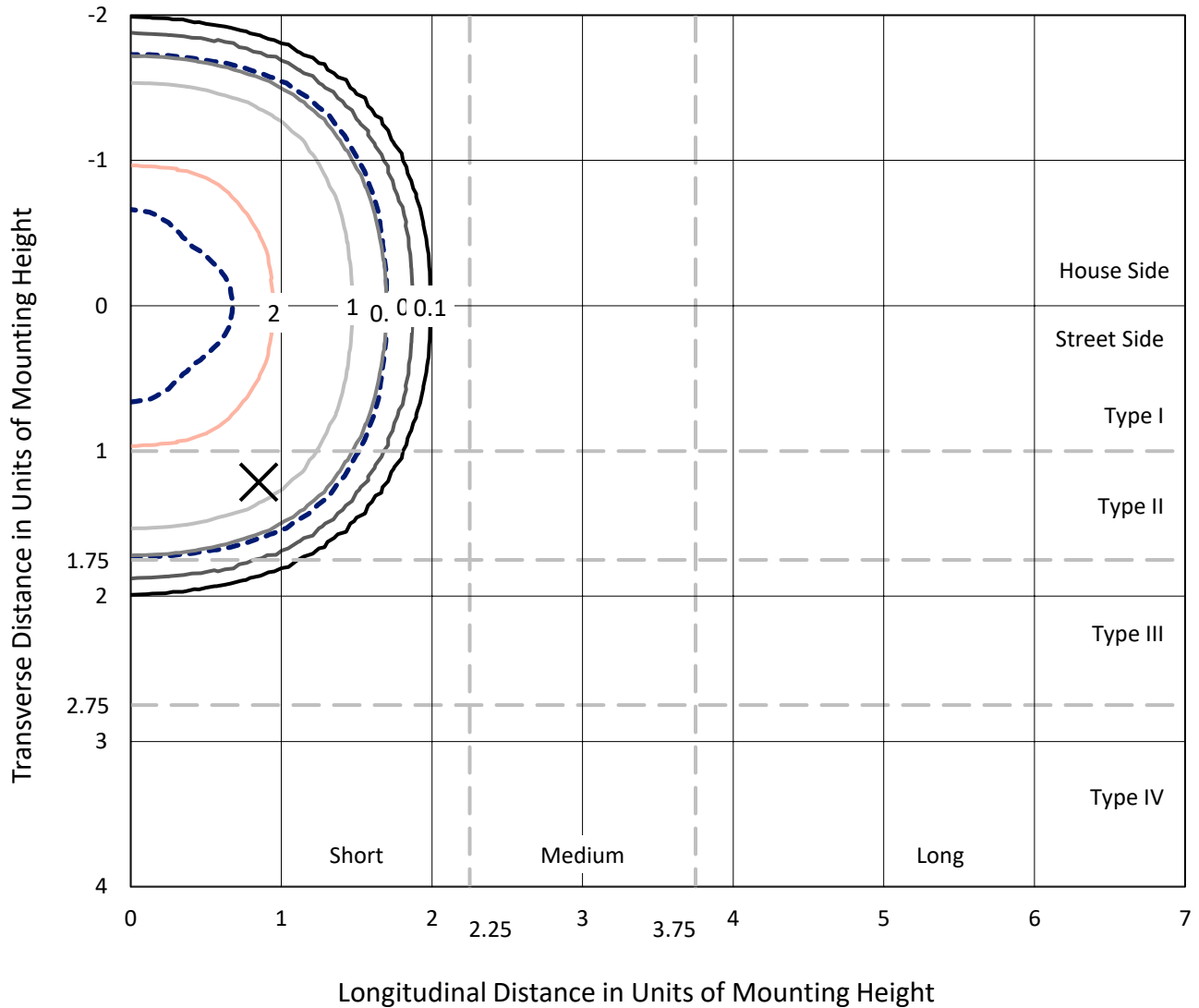
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

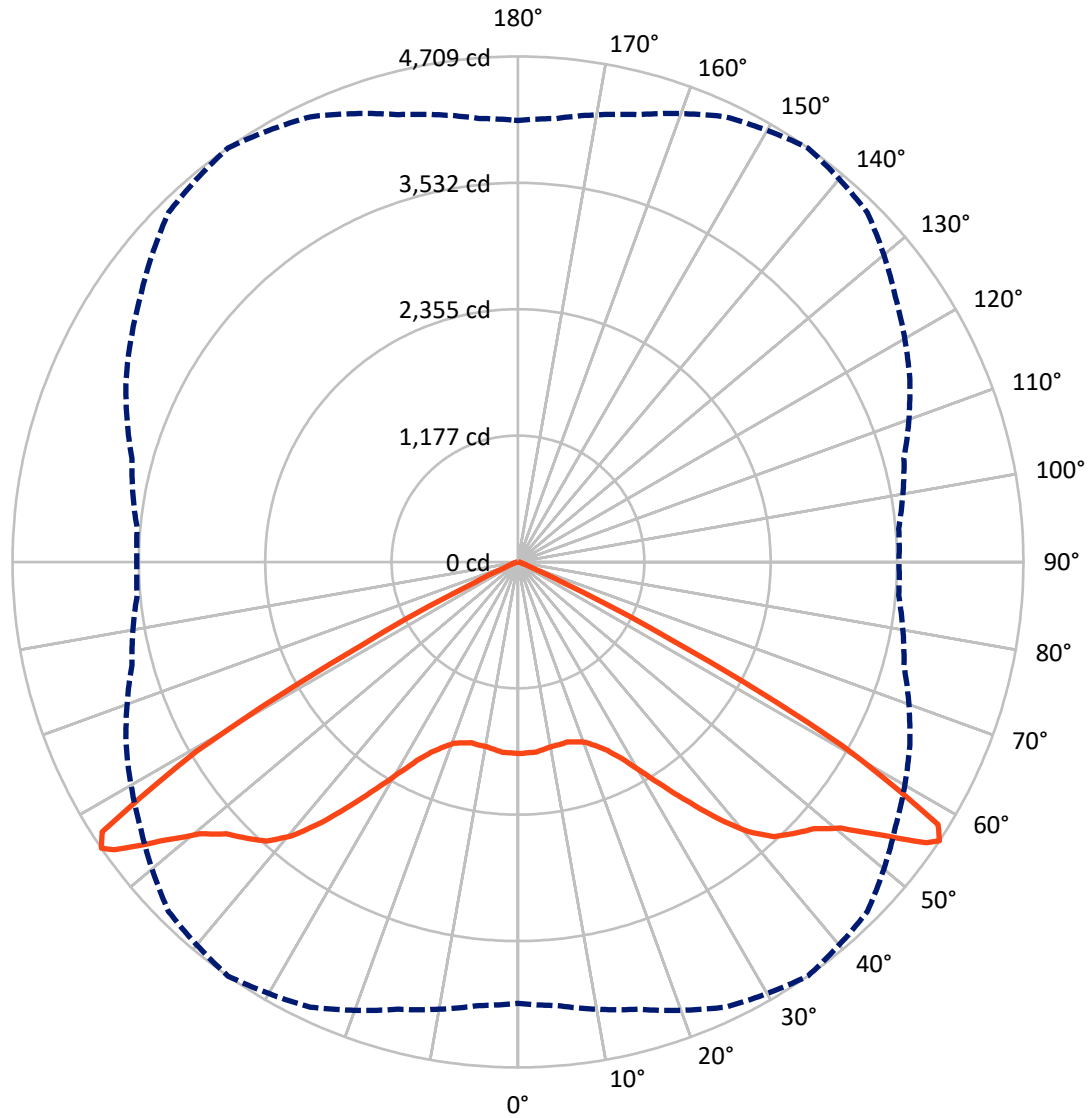
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5094.0	0.0	5094.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5094.0	0.0	5094.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10188.0	0.0	10188.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	1.6
10°-20°	489.8	4.8
20°-30°	887.0	8.7
30°-40°	1644.8	16.1
40°-50°	2699.9	26.5
50°-60°	3478.2	34.1
60°-70°	766.6	7.5
70°-80°	44.5	0.4
80°-90°	9.4	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°	10188.0	100.0
0°-180°	10188.0	100.0

Coefficient of Utilization

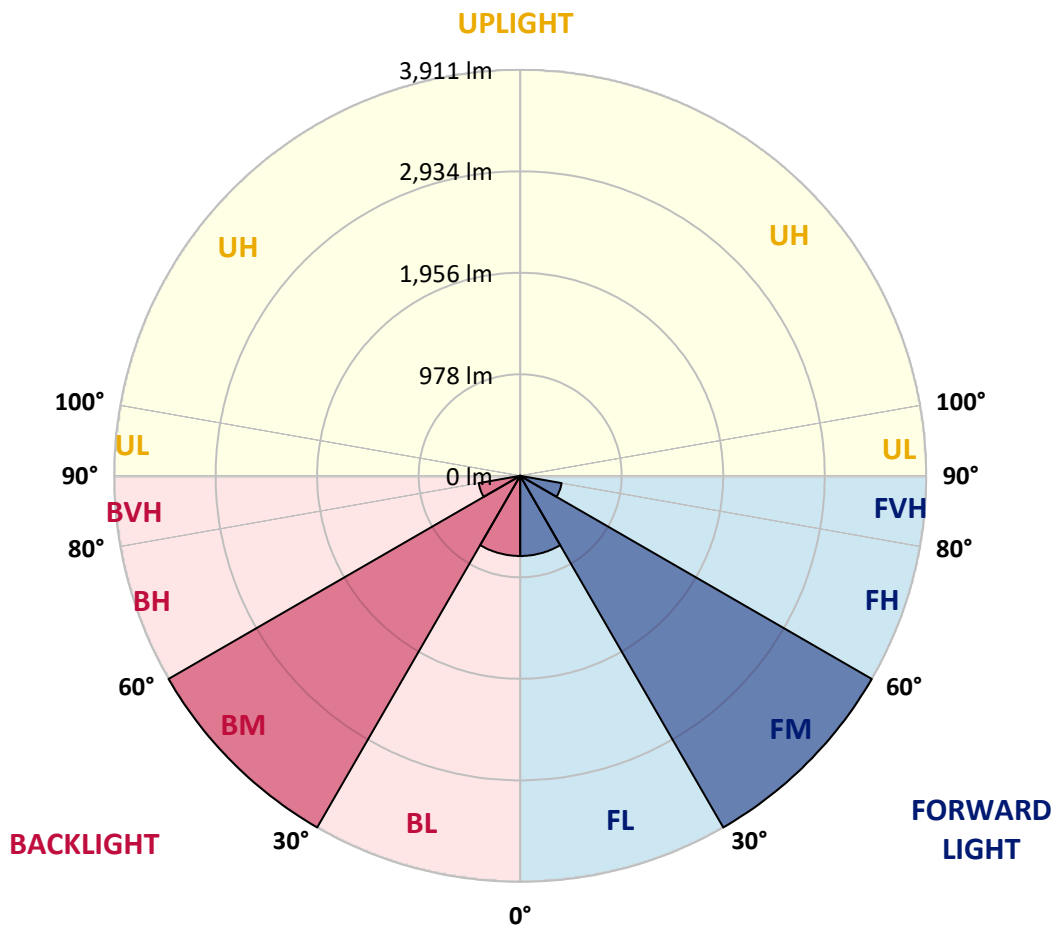


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	772.3	7.6			
FM (30°-60°)	3911.5	38.4			
FH (60°-80°)	405.5	4.0			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	772.3	7.6	B2/1000		
BM (30°-60°)	3911.5	38.4	B3/5000		
BH (60°-80°)	405.5	4.0	B1/500		G0/660
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1785.2	1785.2	1785.2	1785.2	1785.2	1785.2	1785.2	1785.2	1785.2	1785.2	1785.2
2.5°	1788.8	1788.8	1790.7	1792.5	1779.6	1774.1	1775.9	1772.2	1770.4	1775.9	1775.9
5°	1783.3	1783.3	1777.8	1779.6	1779.6	1763.0	1763.0	1766.7	1766.7	1755.6	1751.9
7.5°	1768.5	1764.8	1757.5	1766.7	1761.2	1761.2	1748.2	1739.0	1735.3	1742.7	1735.3
10°	1737.2	1739.0	1746.4	1750.1	1746.4	1757.5	1735.3	1722.4	1709.5	1703.9	1703.9
12.5°	1722.4	1733.5	1722.4	1731.6	1744.5	1735.3	1722.4	1713.2	1694.7	1687.3	1687.3
15°	1720.5	1727.9	1731.6	1744.5	1739.0	1742.7	1716.9	1705.8	1678.1	1665.2	1659.6
17.5°	1718.7	1727.9	1733.5	1757.5	1761.2	1763.0	1742.7	1709.5	1685.5	1672.5	1659.6
20°	1739.0	1742.7	1753.8	1777.8	1792.5	1818.4	1781.5	1746.4	1694.7	1679.9	1674.4
22.5°	1764.8	1783.3	1794.4	1820.2	1859.0	1881.2	1833.2	1788.8	1735.3	1716.9	1694.7
25°	1847.9	1844.2	1862.7	1916.2	1947.6	1964.2	1925.5	1860.8	1790.7	1768.5	1772.2
27.5°	1951.3	1955.0	1971.6	2030.7	2076.8	2102.7	2056.5	1971.6	1903.3	1866.4	1862.7
30°	2086.1	2082.4	2100.8	2180.2	2263.3	2302.1	2220.8	2121.1	2054.7	2006.7	2017.8
32.5°	2228.2	2230.1	2281.8	2353.7	2488.5	2564.2	2433.1	2311.3	2211.6	2178.4	2161.8
35°	2438.7	2447.9	2488.5	2599.3	2748.8	2846.7	2702.7	2556.8	2442.4	2381.4	2388.8
37.5°	2699.0	2689.7	2758.0	2878.0	3035.0	3106.9	2985.1	2819.0	2702.7	2662.0	2687.9
40°	2975.9	2985.1	3020.2	3129.1	3304.5	3352.5	3171.6	3081.1	2979.6	2959.3	2990.6
42.5°	3252.8	3247.2	3273.1	3370.9	3498.3	3465.1	3358.0	3304.5	3232.5	3191.9	3234.3
45°	3455.9	3446.6	3494.6	3561.1	3607.2	3544.5	3496.5	3478.0	3441.1	3396.8	3435.5
47.5°	3653.4	3646.0	3692.2	3710.6	3714.3	3631.2	3640.5	3673.7	3581.4	3489.1	3533.4
50°	3821.4	3808.5	3865.7	3906.3	3897.1	3764.2	3797.4	3764.2	3620.2	3511.2	3494.6
52.5°	4102.0	4107.5	4168.4	4242.3	4220.1	4109.4	4061.4	3910.0	3725.4	3627.5	3570.3
55°	4279.2	4251.5	4356.7	4591.2	4617.0	4502.6	4290.3	4066.9	3790.0	3670.0	3655.2
56°	4113.1	4148.1	4314.3	4576.4	4709.3	4604.1	4295.8	4028.1	3723.5	3561.1	3550.0
57.5°	3690.3	3671.8	3897.1	4255.2	4617.0	4572.7	4144.4	3751.2	3396.8	3214.0	3191.9
60°	2296.5	2350.1	2547.6	2990.6	3474.3	3496.5	3071.9	2734.0	2320.5	2158.1	2196.8
62.5°	899.0	852.9	976.6	1307.0	1639.3	1713.2	1552.6	1290.4	1059.6	899.0	888.0
65°	208.6	203.1	228.9	315.7	441.2	511.4	485.5	348.9	256.6	243.7	225.2
67.5°	118.1	118.1	112.6	112.6	123.7	131.1	125.5	123.7	129.2	134.8	132.9
70°	83.1	81.2	77.5	79.4	75.7	75.7	81.2	90.5	97.8	97.8	99.7
72.5°	49.8	49.8	49.8	55.4	55.4	55.4	60.9	68.3	70.2	68.3	66.5
75°	22.2	22.2	25.8	31.4	35.1	36.9	42.5	46.2	49.8	46.2	42.5
77.5°	5.5	5.5	9.2	12.9	16.6	20.3	27.7	33.2	35.1	33.2	27.7
80°	1.8	1.8	3.7	9.2	16.6	20.3	27.7	29.5	31.4	27.7	22.2
82.5°	1.8	1.8	3.7	9.2	12.9	16.6	22.2	25.8	27.7	24.0	22.2
85°	0.0	1.8	3.7	7.4	11.1	14.8	14.8	11.1	9.2	5.5	7.4
87.5°	0.0	0.0	1.8	1.8	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)