

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: P647308

Luminaire Tested: **GALN-SA3D-835-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647308
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-835-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 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: 10852.4 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

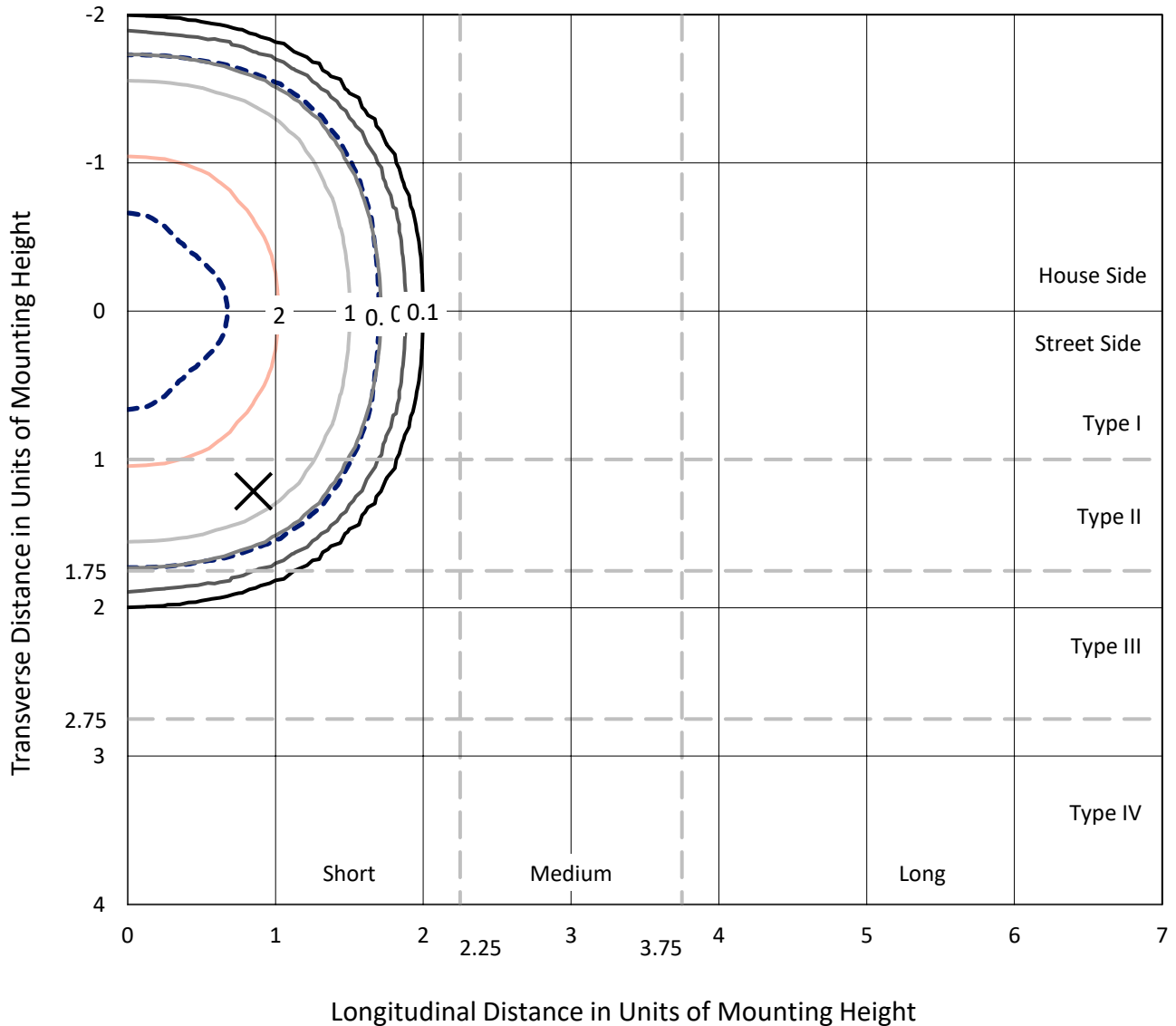
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

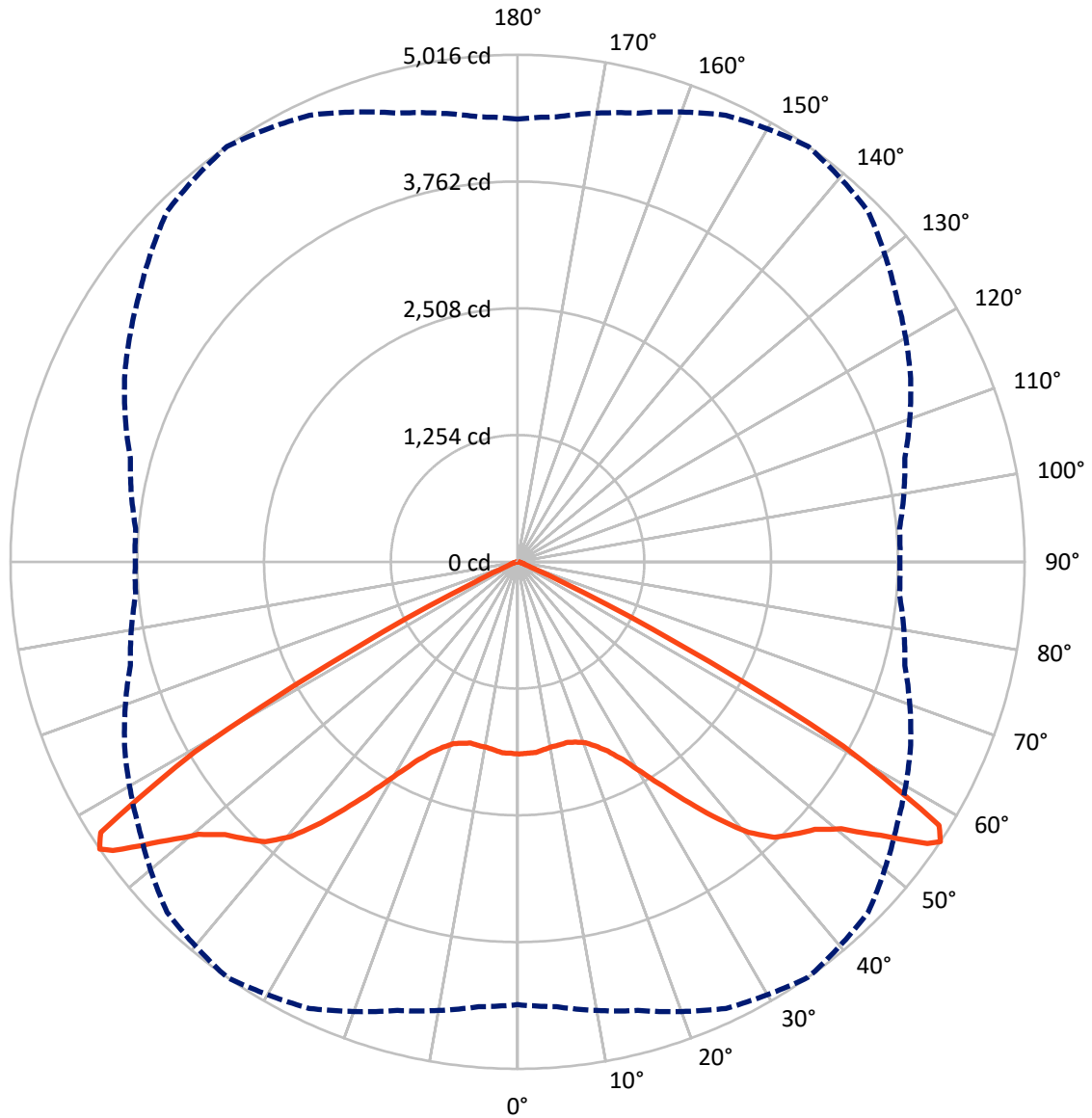
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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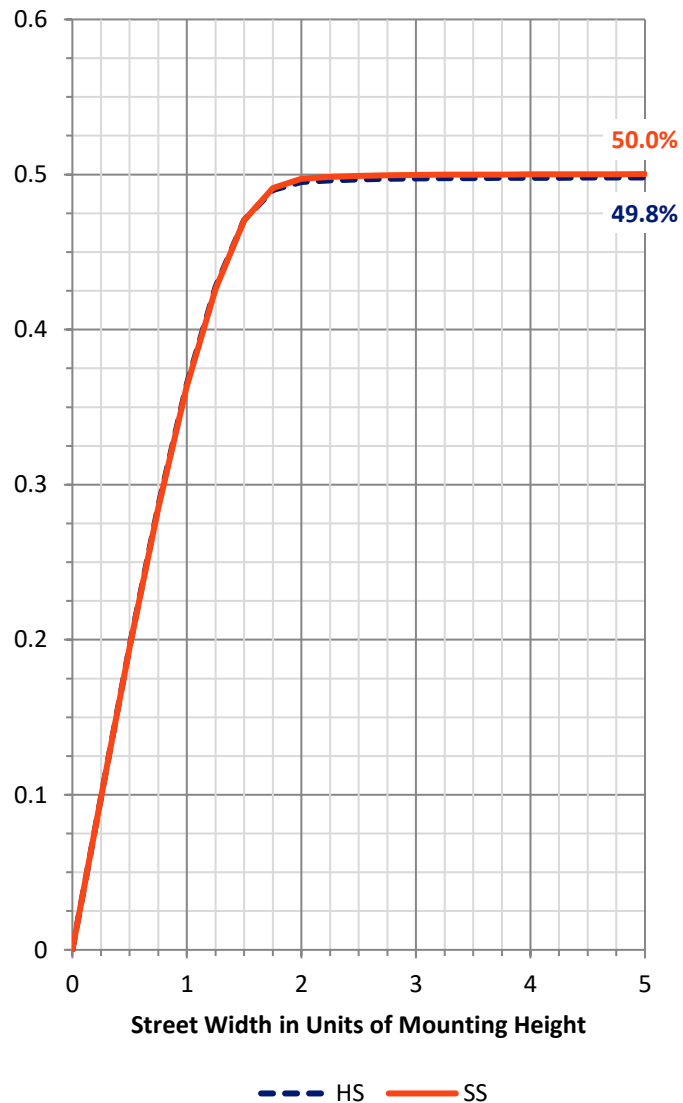
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5426.2	0.0	5426.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5426.2	0.0	5426.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	10852.4	0.0	10852.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.7	1.6
10°-20°	521.8	4.8
20°-30°	944.9	8.7
30°-40°	1752.1	16.1
40°-50°	2876.0	26.5
50°-60°	3705.1	34.1
60°-70°	816.6	7.5
70°-80°	47.4	0.4
80°-90°	10.0	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°	10852.4	100.0
0°-180°	10852.4	100.0

Coefficient of Utilization

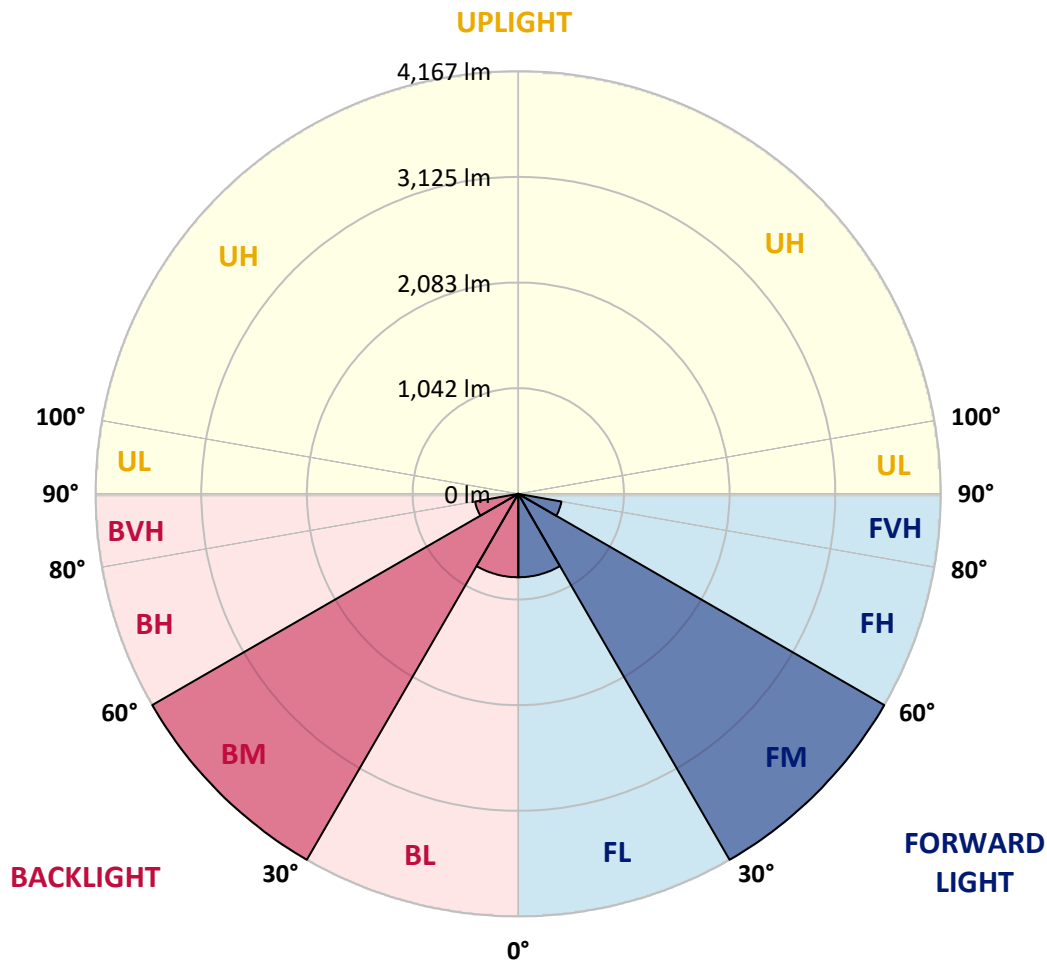


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	822.7	7.6			
FM (30°-60°)	4166.6	38.4			
FH (60°-80°)	432.0	4.0			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	822.7	7.6	B2/1000		
BM (30°-60°)	4166.6	38.4	B3/5000		
BH (60°-80°)	432.0	4.0	B1/500		G0/660
BVH (80°-90°)	5.0	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°	1901.6	1901.6	1901.6	1901.6	1901.6	1901.6	1901.6	1901.6	1901.6	1901.6	1901.6
2.5°	1905.5	1905.5	1907.5	1909.4	1895.6	1889.8	1891.7	1887.8	1885.9	1891.7	1891.7
5°	1899.6	1899.6	1893.7	1895.6	1895.6	1877.9	1877.9	1881.9	1881.9	1870.1	1866.2
7.5°	1883.9	1879.9	1872.1	1881.9	1876.0	1876.0	1862.2	1852.4	1848.5	1856.3	1848.5
10°	1850.5	1852.4	1860.3	1864.2	1860.3	1872.1	1848.5	1834.7	1820.9	1815.1	1815.1
12.5°	1834.7	1846.5	1834.7	1844.5	1858.3	1848.5	1834.7	1824.9	1805.2	1797.4	1797.4
15°	1832.8	1840.6	1844.5	1858.3	1852.4	1856.3	1828.8	1817.0	1787.5	1773.7	1767.9
17.5°	1830.8	1840.6	1846.5	1872.1	1876.0	1877.9	1856.3	1820.9	1795.4	1781.6	1767.9
20°	1852.4	1856.3	1868.2	1893.7	1909.4	1937.0	1897.6	1860.3	1805.2	1789.5	1783.6
22.5°	1879.9	1899.6	1911.4	1938.9	1980.2	2003.9	1952.7	1905.5	1848.5	1828.8	1805.2
25°	1968.5	1964.5	1984.2	2041.2	2074.6	2092.3	2051.0	1982.2	1907.5	1883.9	1887.8
27.5°	2078.6	2082.5	2100.2	2163.1	2212.3	2239.8	2190.7	2100.2	2027.4	1988.1	1984.2
30°	2222.1	2218.2	2237.8	2322.4	2410.9	2452.2	2365.7	2259.5	2188.6	2137.5	2149.3
32.5°	2373.5	2375.5	2430.5	2507.2	2650.8	2731.4	2591.8	2462.0	2355.8	2320.4	2302.7
35°	2597.7	2607.5	2650.8	2768.8	2928.0	3032.3	2878.9	2723.6	2601.6	2536.8	2544.6
37.5°	2874.9	2865.2	2937.9	3065.7	3232.9	3309.6	3179.8	3002.8	2878.9	2835.6	2863.2
40°	3170.0	3179.8	3217.1	3333.2	3520.0	3571.1	3378.4	3282.0	3173.9	3152.3	3185.6
42.5°	3464.9	3459.0	3486.5	3590.8	3726.5	3691.1	3577.0	3520.0	3443.2	3400.0	3445.3
45°	3681.2	3671.4	3722.5	3793.3	3842.5	3775.6	3724.5	3704.8	3665.5	3618.3	3659.6
47.5°	3891.7	3883.8	3932.9	3952.6	3956.5	3868.0	3877.9	3913.3	3814.9	3716.6	3763.8
50°	4070.6	4056.8	4117.8	4161.0	4151.2	4009.6	4045.0	4009.6	3856.2	3740.2	3722.5
52.5°	4369.5	4375.4	4440.2	4518.9	4495.4	4377.4	4326.2	4164.9	3968.3	3864.1	3803.1
55°	4558.2	4528.8	4640.8	4890.6	4918.1	4796.2	4570.1	4332.1	4037.1	3909.4	3893.6
56°	4381.3	4418.6	4595.7	4874.9	5016.4	4904.4	4575.9	4290.8	3966.4	3793.3	3781.5
57.5°	3931.0	3911.3	4151.2	4532.7	4918.1	4871.0	4414.7	3995.9	3618.3	3423.6	3400.0
60°	2446.2	2503.3	2713.7	3185.6	3700.8	3724.5	3272.2	2912.4	2471.9	2298.8	2340.1
62.5°	957.7	908.5	1040.3	1392.3	1746.2	1824.9	1653.8	1374.6	1128.8	957.7	945.9
65°	222.2	216.3	243.8	336.3	470.0	544.7	517.2	371.7	273.3	259.6	239.9
67.5°	125.8	125.8	120.0	120.0	131.8	139.6	133.7	131.8	137.7	143.5	141.6
70°	88.5	86.5	82.6	84.6	80.6	80.6	86.5	96.4	104.2	104.2	106.2
72.5°	53.1	53.1	53.1	59.0	59.0	59.0	64.9	72.7	74.7	72.7	70.8
75°	23.6	23.6	27.6	33.4	37.3	39.3	45.3	49.2	53.1	49.2	45.3
77.5°	5.9	5.9	9.9	13.8	17.7	21.6	29.5	35.4	37.3	35.4	29.5
80°	2.0	2.0	3.9	9.9	17.7	21.6	29.5	31.5	33.4	29.5	23.6
82.5°	2.0	2.0	3.9	9.9	13.8	17.7	23.6	27.6	29.5	25.5	23.6
85°	0.0	2.0	3.9	7.8	11.8	15.7	15.7	11.8	9.9	5.9	7.8
87.5°	0.0	0.0	2.0	2.0	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)