

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: P528793

Luminaire Tested: **GALN-SA3D-830-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528793
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-830-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 11013 lumens
Efficiency: N/A
Efficacy: 59.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

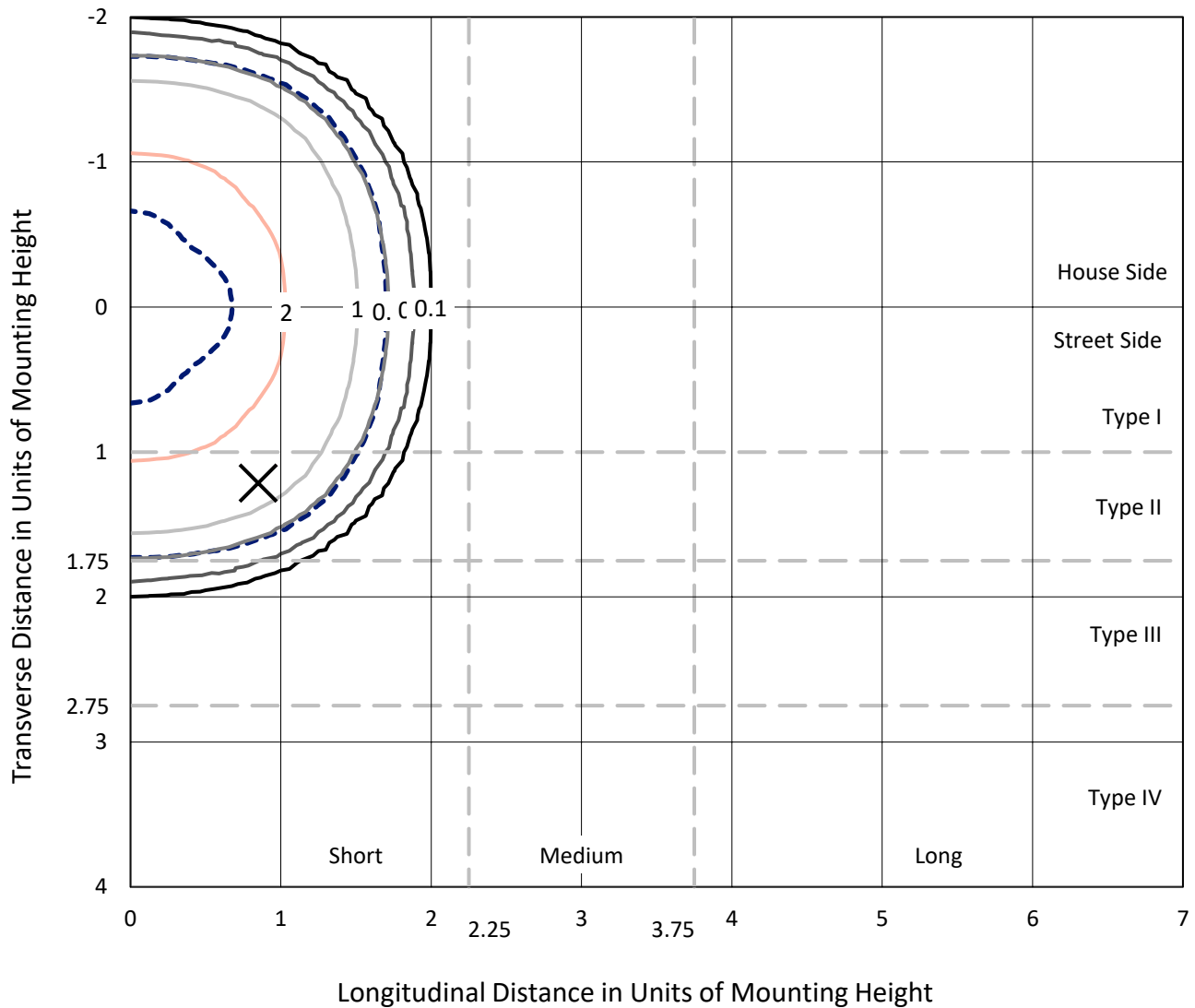
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

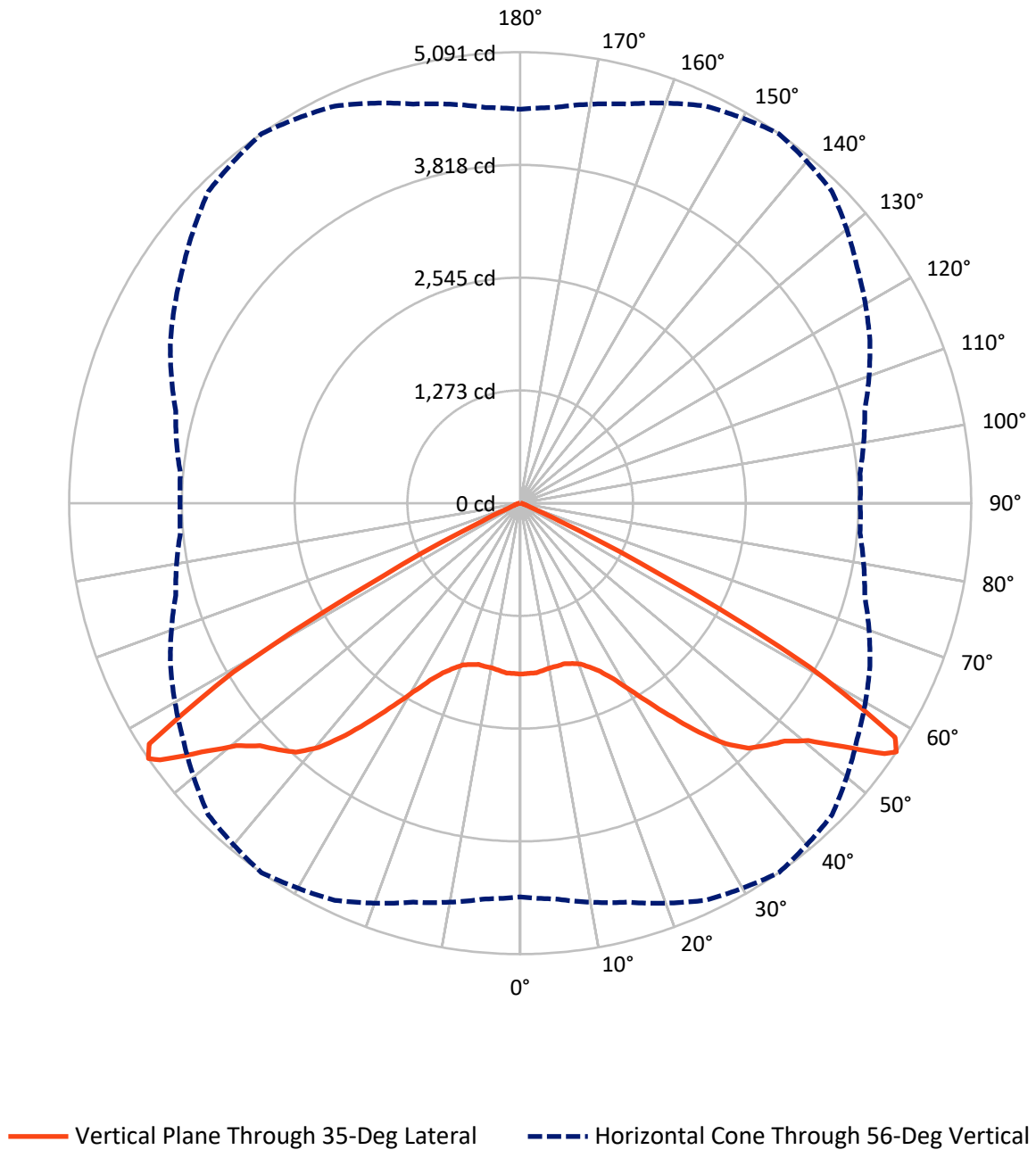
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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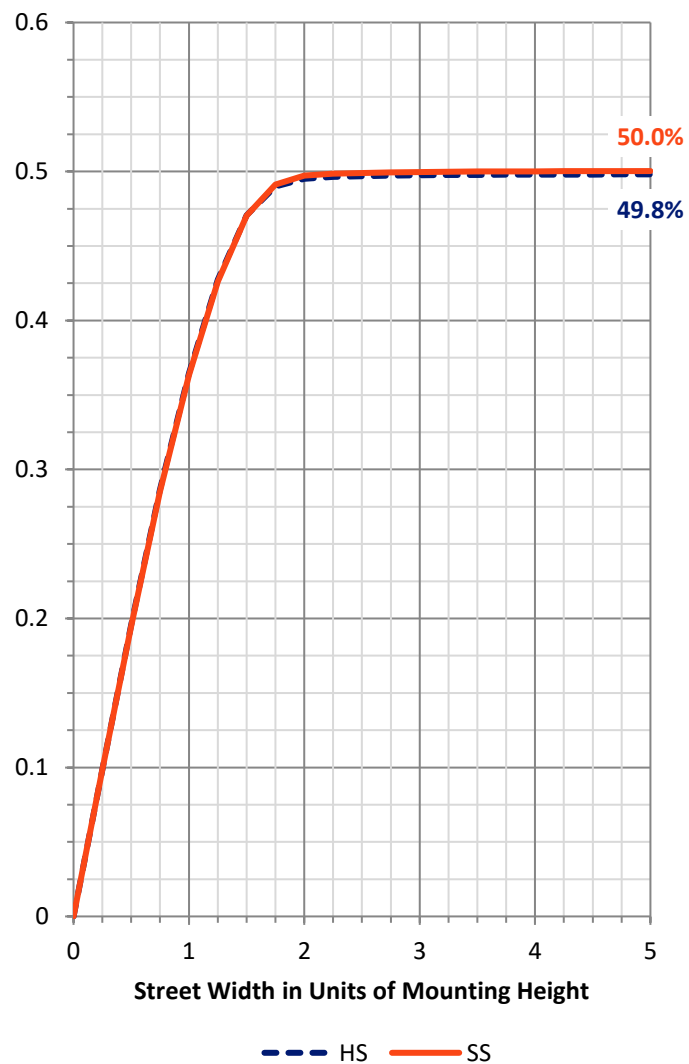
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5506.5	0.0	5506.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5506.5	0.0	5506.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11013.0	0.0	11013.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.4	1.6
10°-20°	529.5	4.8
20°-30°	958.8	8.7
30°-40°	1778.0	16.1
40°-50°	2918.5	26.5
50°-60°	3759.9	34.1
60°-70°	828.6	7.5
70°-80°	48.1	0.4
80°-90°	10.1	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°	11013.0	100.0
0°-180°	11013.0	100.0

Coefficient of Utilization



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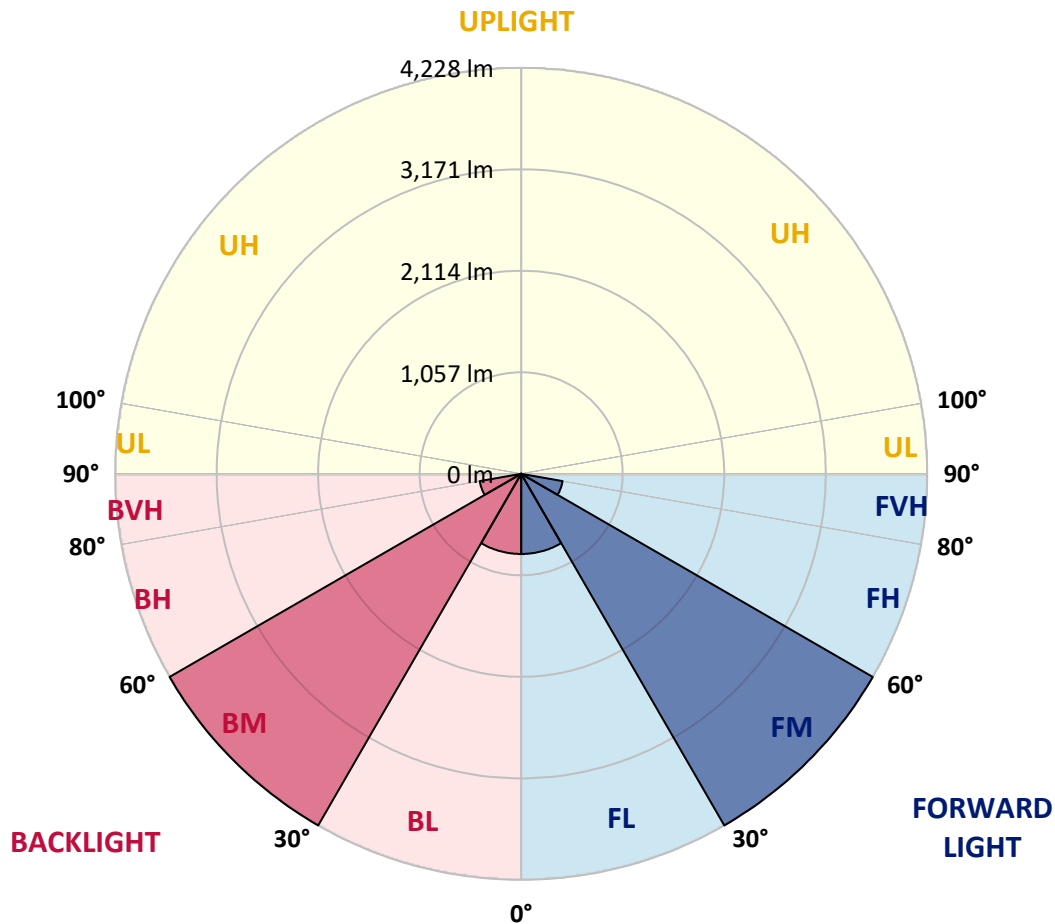
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	834.8	7.6			
FM	(30°-60°)	4228.2	38.4			
FH	(60°-80°)	438.4	4.0			G0/660
FVH	(80°-90°)	5.1	0.0			G0/10
BL	(0°-30°)	834.8	7.6	B2/1000		
BM	(30°-60°)	4228.2	38.4	B3/5000		
BH	(60°-80°)	438.4	4.0	B1/500		G0/660
BVH	(80°-90°)	5.1	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°	1929.7	1929.7	1929.7	1929.7	1929.7	1929.7	1929.7	1929.7	1929.7	1929.7	1929.7
2.5°	1933.7	1933.7	1935.7	1937.7	1923.7	1917.7	1919.7	1915.7	1913.7	1919.7	1919.7
5°	1927.7	1927.7	1921.7	1923.7	1923.7	1905.8	1905.8	1909.8	1909.8	1897.8	1893.8
7.5°	1911.8	1907.8	1899.8	1909.8	1903.8	1903.8	1889.8	1879.8	1875.8	1883.8	1875.8
10°	1877.8	1879.8	1887.8	1891.8	1887.8	1899.8	1875.8	1861.9	1847.9	1841.9	1841.9
12.5°	1861.9	1873.8	1861.9	1871.8	1885.8	1875.8	1861.9	1851.9	1831.9	1823.9	1823.9
15°	1859.9	1867.9	1871.8	1885.8	1879.8	1883.8	1855.9	1843.9	1814.0	1800.0	1794.0
17.5°	1857.9	1867.9	1873.8	1899.8	1903.8	1905.8	1883.8	1847.9	1822.0	1808.0	1794.0
20°	1879.8	1883.8	1895.8	1921.7	1937.7	1965.6	1925.7	1887.8	1831.9	1816.0	1810.0
22.5°	1907.8	1927.7	1939.7	1967.6	2009.5	2033.5	1981.6	1933.7	1875.8	1855.9	1831.9
25°	1997.6	1993.6	2013.5	2071.4	2105.3	2123.3	2081.4	2011.5	1935.7	1911.8	1915.7
27.5°	2109.3	2113.3	2131.3	2195.1	2245.0	2273.0	2223.1	2131.3	2057.4	2017.5	2013.5
30°	2255.0	2251.0	2271.0	2356.8	2446.6	2488.5	2400.7	2292.9	2221.1	2169.2	2181.2
32.5°	2408.7	2410.6	2466.5	2544.3	2690.0	2771.8	2630.2	2498.5	2390.7	2354.8	2336.8
35°	2636.1	2646.1	2690.0	2809.8	2971.4	3077.2	2921.5	2763.9	2640.1	2574.3	2582.3
37.5°	2917.5	2907.5	2981.4	3111.1	3280.7	3358.5	3226.8	3047.2	2921.5	2877.6	2905.5
40°	3216.9	3226.8	3264.7	3382.5	3572.1	3624.0	3428.4	3330.6	3220.8	3198.9	3232.8
42.5°	3516.2	3510.2	3538.1	3643.9	3781.6	3745.7	3629.9	3572.1	3494.2	3450.3	3496.2
45°	3735.7	3725.7	3777.6	3849.5	3899.3	3831.5	3779.6	3759.7	3719.7	3671.8	3713.8
47.5°	3949.2	3941.2	3991.1	4011.1	4015.1	3925.3	3935.3	3971.2	3871.4	3771.6	3819.5
50°	4130.8	4116.9	4178.7	4222.6	4212.6	4069.0	4104.9	4069.0	3913.3	3795.6	3777.6
52.5°	4434.2	4440.1	4506.0	4585.8	4561.9	4442.1	4390.3	4226.6	4027.1	3921.3	3859.4
55°	4625.7	4595.8	4709.5	4963.0	4990.9	4867.2	4637.7	4396.2	4096.9	3967.2	3951.2
56°	4446.1	4484.0	4663.6	4947.0	5090.7	4976.9	4643.7	4354.3	4025.1	3849.5	3837.5
57.5°	3989.1	3969.2	4212.6	4599.8	4990.9	4943.0	4480.1	4055.0	3671.8	3474.3	3450.3
60°	2482.5	2540.4	2753.9	3232.8	3755.7	3779.6	3320.6	2955.4	2508.4	2332.8	2374.7
62.5°	971.8	922.0	1055.7	1412.9	1772.1	1851.9	1678.3	1394.9	1145.5	971.8	959.9
65°	225.5	219.5	247.5	341.2	476.9	552.8	524.8	377.2	277.4	263.4	243.5
67.5°	127.7	127.7	121.7	121.7	133.7	141.7	135.7	133.7	139.7	145.7	143.7
70°	89.8	87.8	83.8	85.8	81.8	81.8	87.8	97.8	105.8	105.8	107.8
72.5°	53.9	53.9	53.9	59.9	59.9	59.9	65.9	73.8	75.8	73.8	71.8
75°	23.9	23.9	27.9	33.9	37.9	39.9	45.9	49.9	53.9	49.9	45.9
77.5°	6.0	6.0	10.0	14.0	18.0	22.0	29.9	35.9	37.9	35.9	29.9
80°	2.0	2.0	4.0	10.0	18.0	22.0	29.9	31.9	33.9	29.9	23.9
82.5°	2.0	2.0	4.0	10.0	14.0	18.0	23.9	27.9	29.9	25.9	23.9
85°	0.0	2.0	4.0	8.0	12.0	16.0	16.0	12.0	10.0	6.0	8.0
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)