

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: P530201

Luminaire Tested: **GALN-SA5B-830-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530201
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-830-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 11811 lumens
Efficiency: N/A
Efficacy: 57.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

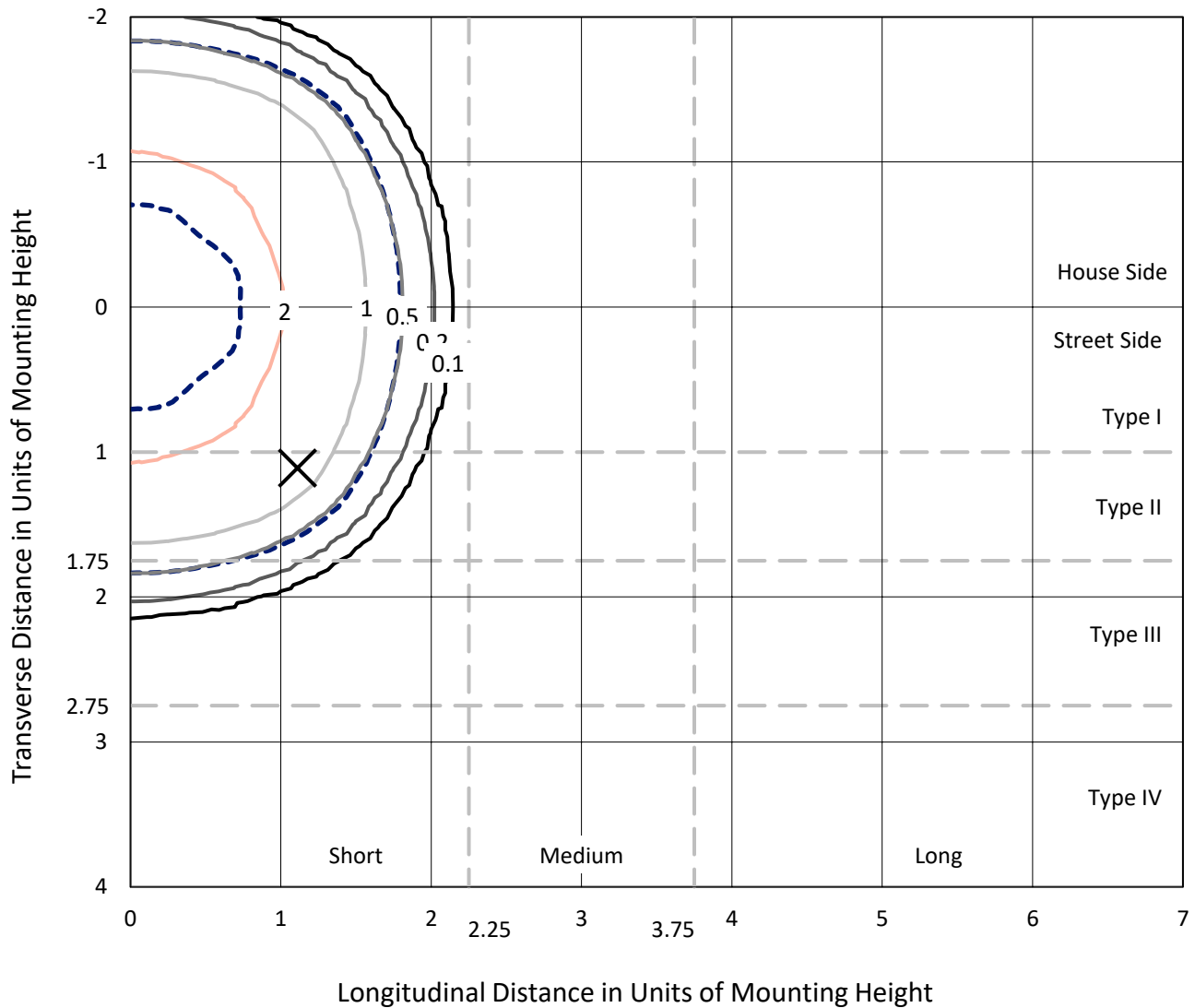
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

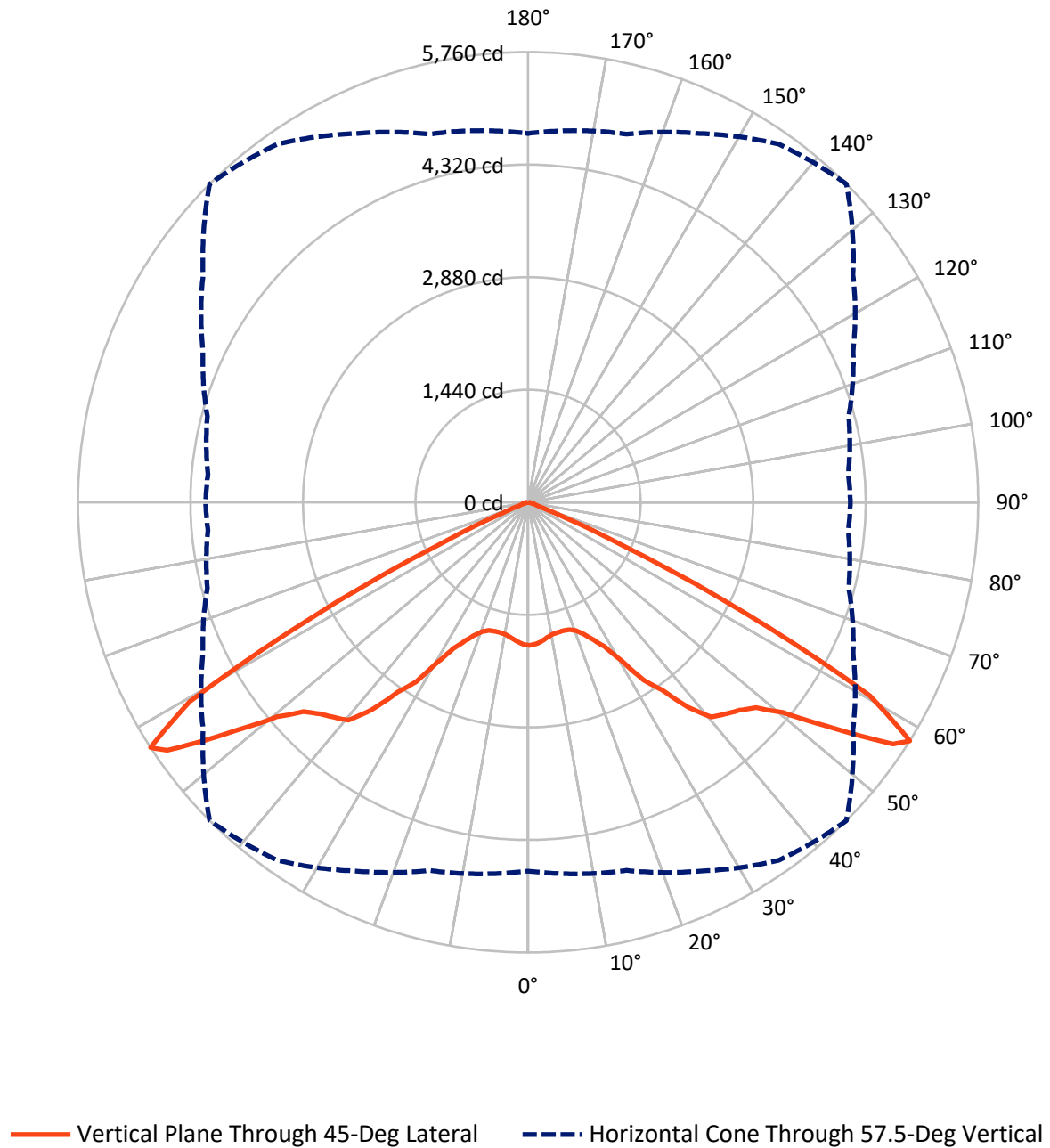
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	5905.5	0.0	5905.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5905.5	0.0	5905.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11811.0	0.0	11811.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	1.4
10°-20°	486.6	4.1
20°-30°	898.2	7.6
30°-40°	1766.5	15.0
40°-50°	2877.1	24.4
50°-60°	4103.1	34.7
60°-70°	1420.6	12.0
70°-80°	76.2	0.6
80°-90°	14.3	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°	11811.0	100.0
0°-180°	11811.0	100.0

Coefficient of Utilization



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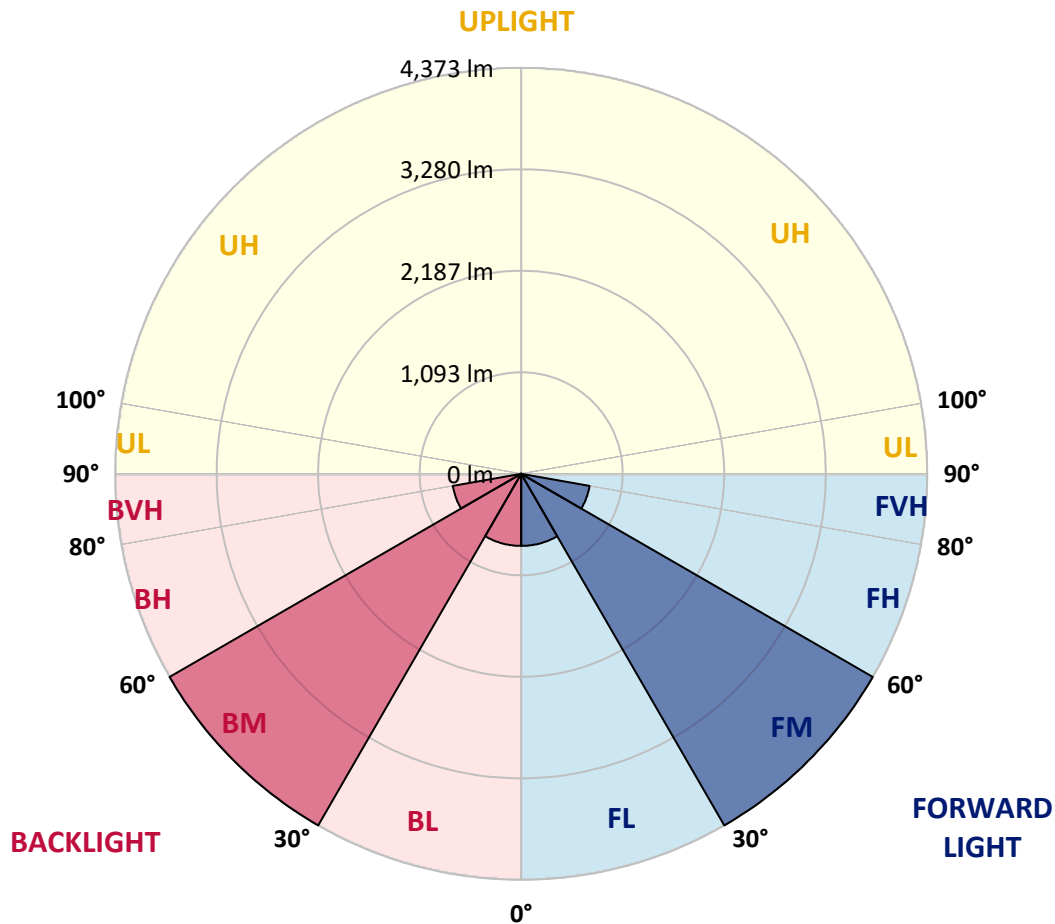
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	776.6	6.6			
FM	(30°-60°)	4373.3	37.0			
FH	(60°-80°)	748.4	6.3			G1/1800
FVH	(80°-90°)	7.2	0.1			G0/10
BL	(0°-30°)	776.6	6.6	B2/1000		
BM	(30°-60°)	4373.3	37.0	B3/5000		
BH	(60°-80°)	748.4	6.3	B2/1000		G1/1800
BVH	(80°-90°)	7.2	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°	1832.0	1832.0	1832.0	1832.0	1832.0	1832.0	1832.0	1832.0	1832.0	1832.0	1832.0
2.5°	1827.1	1836.9	1824.6	1819.7	1817.2	1817.2	1809.8	1809.8	1807.4	1809.8	1800.0
5°	1797.5	1807.4	1807.4	1804.9	1790.1	1787.7	1780.3	1775.4	1777.8	1768.0	1775.4
7.5°	1768.0	1775.4	1765.5	1763.1	1758.1	1748.3	1745.8	1723.7	1726.1	1726.1	1731.1
10°	1763.1	1760.6	1745.8	1733.5	1718.7	1716.3	1708.9	1704.0	1704.0	1701.5	1708.9
12.5°	1763.1	1750.8	1748.3	1721.2	1696.6	1706.4	1686.7	1674.4	1691.7	1696.6	1706.4
15°	1760.6	1772.9	1731.1	1718.7	1701.5	1704.0	1686.7	1674.4	1684.3	1689.2	1696.6
17.5°	1775.4	1768.0	1755.7	1731.1	1723.7	1713.8	1691.7	1681.8	1681.8	1694.1	1696.6
20°	1814.8	1795.1	1770.5	1758.1	1765.5	1753.2	1726.1	1689.2	1699.0	1708.9	1716.3
22.5°	1851.7	1836.9	1819.7	1812.3	1854.2	1834.5	1787.7	1745.8	1731.1	1748.3	1760.6
25°	1923.1	1923.1	1891.1	1901.0	1947.7	1950.2	1896.0	1822.2	1812.3	1819.7	1824.6
27.5°	2068.4	2075.8	2048.7	2058.5	2078.2	2095.5	2048.7	1987.1	1965.0	1962.5	1969.9
30°	2226.0	2240.8	2238.3	2280.2	2336.8	2346.6	2277.7	2176.7	2110.3	2097.9	2107.8
32.5°	2432.8	2440.2	2435.3	2484.5	2637.2	2708.6	2528.9	2386.0	2297.4	2319.6	2297.4
35°	2821.9	2814.5	2760.3	2770.2	2895.8	2947.5	2775.1	2684.0	2642.1	2686.5	2676.6
37.5°	3156.8	3129.7	3085.4	3149.4	3279.9	3326.7	3146.9	2986.9	2910.5	2984.4	3016.4
40°	3439.9	3371.0	3309.4	3373.5	3548.3	3612.3	3348.8	3218.3	3188.8	3243.0	3311.9
42.5°	3678.8	3634.5	3553.2	3558.1	3673.9	3703.4	3491.7	3415.3	3385.8	3472.0	3506.4
45°	3848.7	3806.8	3730.5	3725.6	3814.2	3794.5	3604.9	3553.2	3570.4	3627.1	3644.3
47.5°	3934.9	3957.0	3912.7	3925.0	3971.8	3925.0	3774.8	3774.8	3735.4	3769.9	3752.7
50°	4183.6	4114.6	4171.3	4171.3	4220.5	4225.4	4075.2	4021.1	3915.2	3856.1	3856.1
52.5°	4474.1	4479.1	4501.2	4582.5	4666.2	4737.6	4523.4	4291.9	4114.6	4038.3	4028.5
55°	4713.0	4762.2	4850.9	5003.6	5244.9	5343.4	4974.0	4560.3	4343.6	4225.4	4200.8
56°	4843.5	4796.7	4949.4	5158.7	5473.9	5601.9	5047.9	4614.5	4375.6	4242.7	4240.2
57.5°	4717.9	4769.6	4875.5	5205.5	5592.1	5759.5	5075.0	4589.9	4247.6	4112.2	4124.5
60°	3725.6	3774.8	3917.6	4287.0	4892.7	5023.3	4294.4	3784.7	3479.3	3284.8	3287.3
62.5°	2107.8	2144.7	2255.5	2597.8	2974.6	3100.1	2676.6	2336.8	2125.0	2016.7	1982.2
65°	775.6	760.9	778.1	952.9	1184.4	1290.3	1113.0	940.6	829.8	790.4	775.6
67.5°	290.6	268.4	251.2	268.4	337.3	357.0	327.5	273.3	256.1	263.5	268.4
70°	179.8	169.9	135.4	128.0	125.6	123.1	130.5	137.9	157.6	184.7	189.6
72.5°	125.6	118.2	96.0	91.1	86.2	83.7	96.0	105.9	123.1	142.8	145.3
75°	49.2	51.7	49.2	54.2	56.6	59.1	68.9	76.3	83.7	83.7	81.3
77.5°	9.8	9.8	14.8	19.7	24.6	32.0	46.8	54.2	56.6	54.2	46.8
80°	0.0	0.0	4.9	9.8	19.7	27.1	41.9	46.8	51.7	46.8	36.9
82.5°	0.0	0.0	4.9	12.3	19.7	24.6	39.4	49.2	56.6	51.7	39.4
85°	0.0	0.0	4.9	9.8	14.8	17.2	17.2	12.3	12.3	7.4	4.9
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)