

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: P648414

Luminaire Tested: **GALN-SA5B-835-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648414
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-835-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 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: 11638.5 lumens
Efficiency: N/A
Efficacy: 57.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

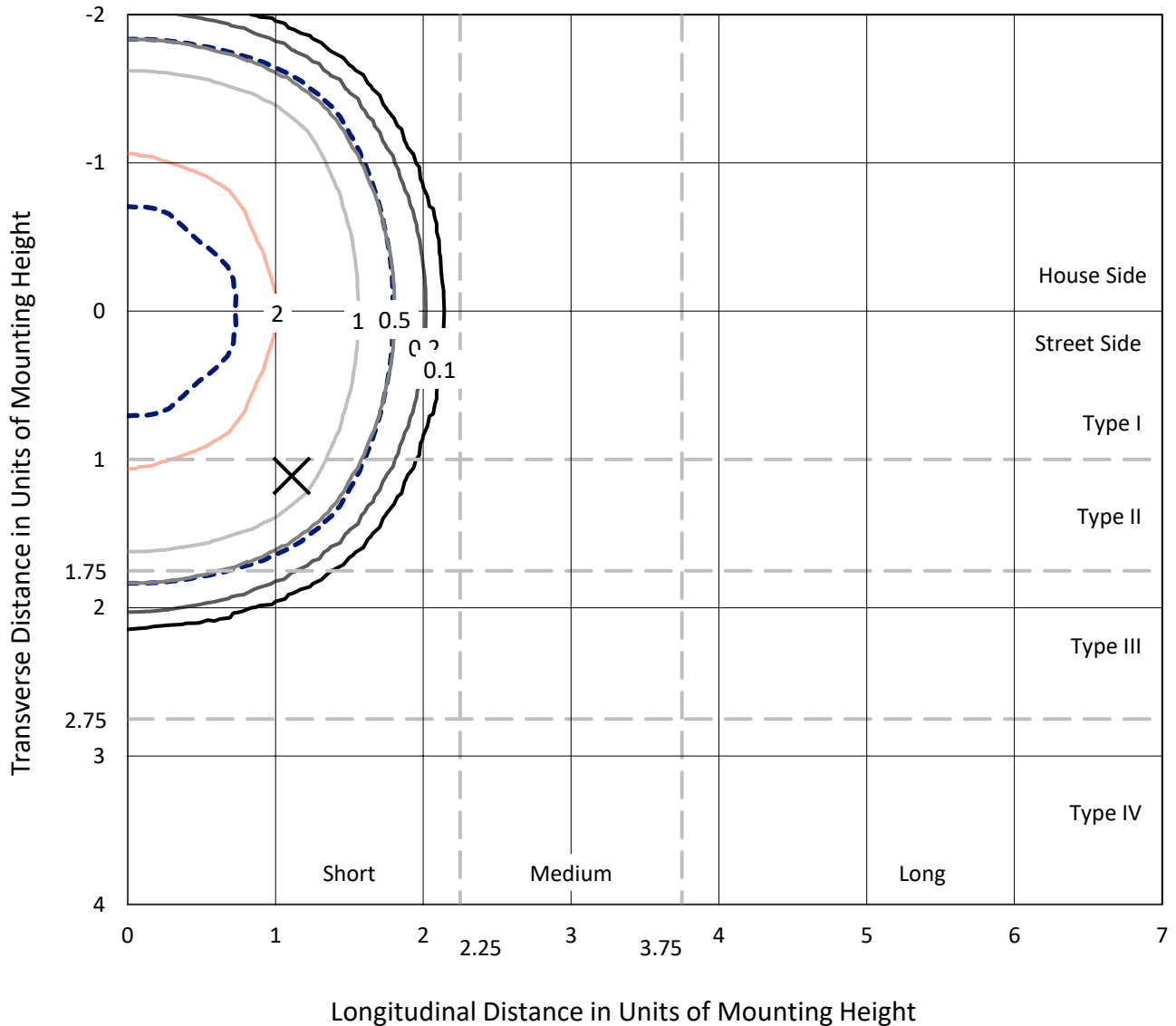
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

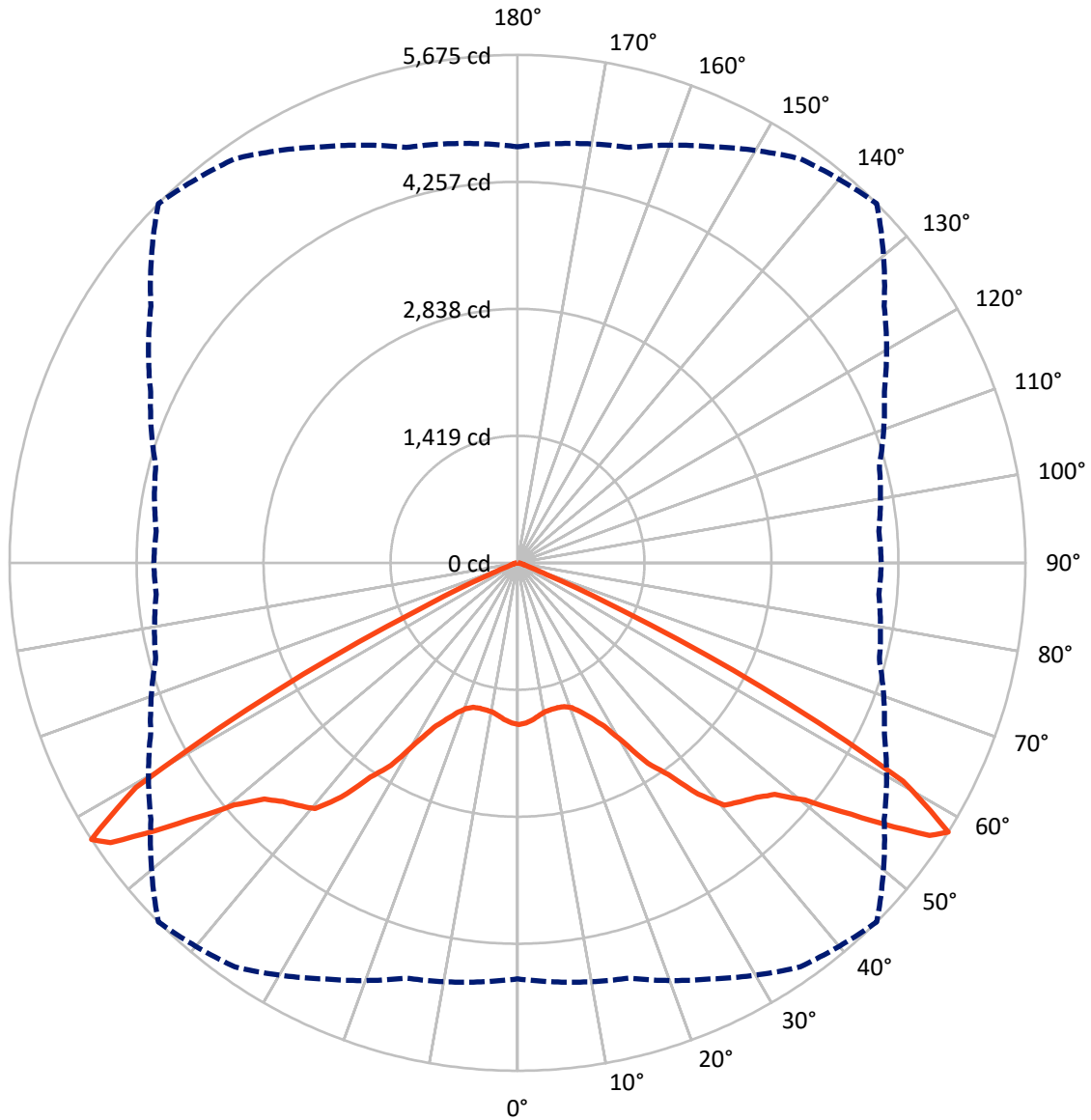
× Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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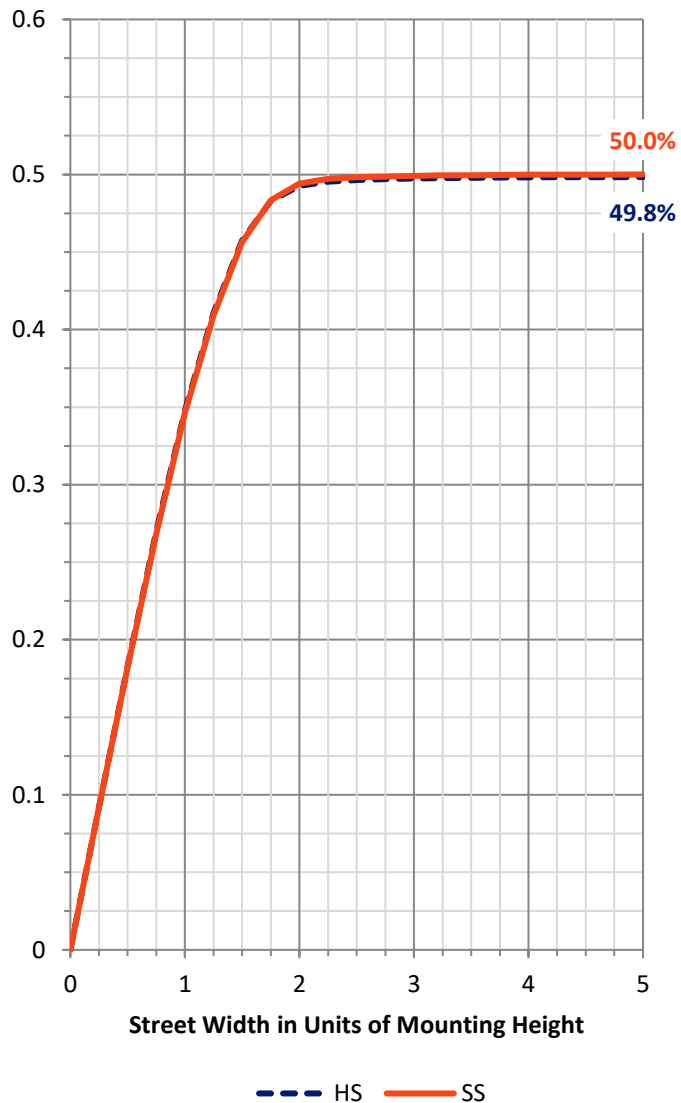
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5819.3	0.0	5819.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5819.3	0.0	5819.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	11638.5	0.0	11638.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	1.4
10°-20°	479.5	4.1
20°-30°	885.1	7.6
30°-40°	1740.7	15.0
40°-50°	2835.1	24.4
50°-60°	4043.2	34.7
60°-70°	1399.9	12.0
70°-80°	75.1	0.6
80°-90°	14.1	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°	11638.5	100.0
0°-180°	11638.5	100.0

Coefficient of Utilization

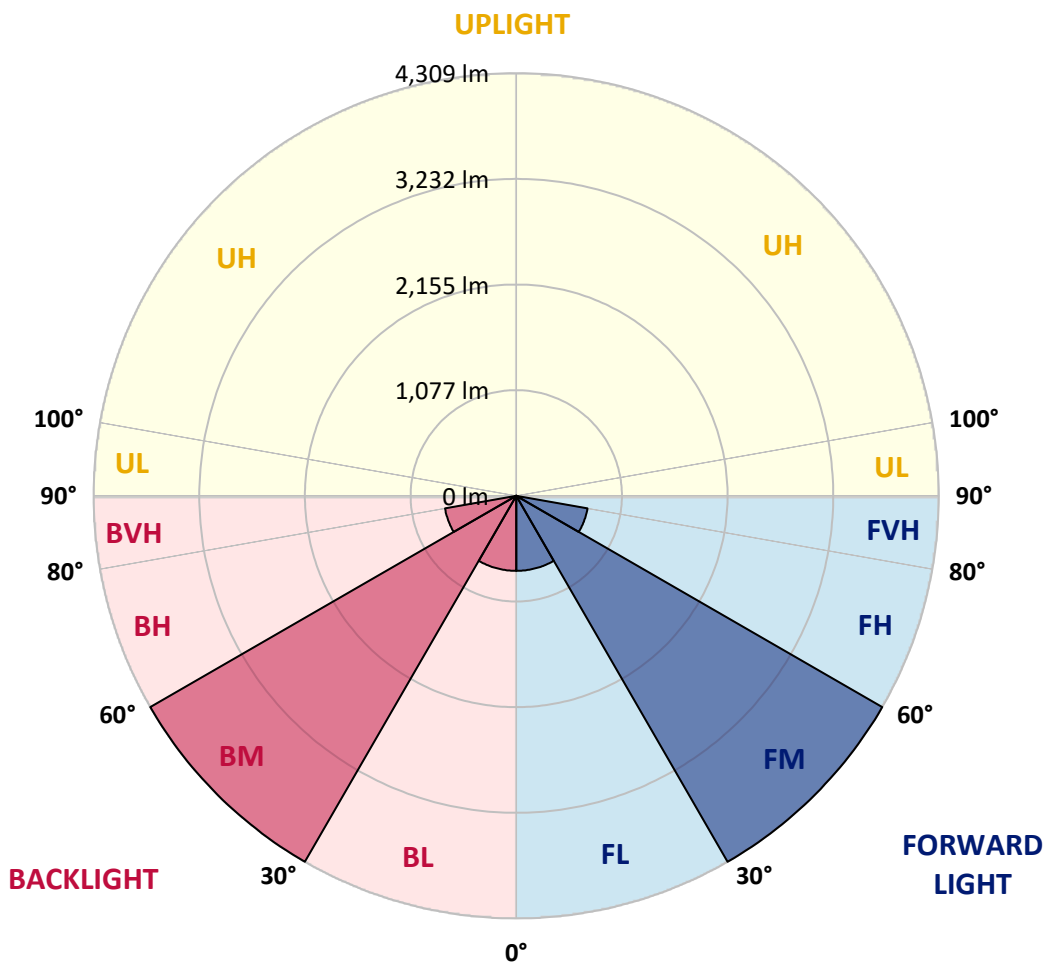


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	765.3	6.6			
FM (30°-60°)	4309.5	37.0			
FH (60°-80°)	737.5	6.3			G1/1800
FVH (80°-90°)	7.1	0.1			G0/10
BL (0°-30°)	765.3	6.6	B2/1000		
BM (30°-60°)	4309.5	37.0	B3/5000		
BH (60°-80°)	737.5	6.3	B2/1000		G1/1800
BVH (80°-90°)	7.1	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°	1805.3	1805.3	1805.3	1805.3	1805.3	1805.3	1805.3	1805.3	1805.3	1805.3	1805.3
2.5°	1800.4	1810.1	1798.0	1793.1	1790.7	1790.7	1783.4	1783.4	1781.0	1783.4	1773.7
5°	1771.3	1781.0	1781.0	1778.6	1764.0	1761.6	1754.3	1749.5	1751.9	1742.2	1749.5
7.5°	1742.2	1749.5	1739.7	1737.3	1732.5	1722.8	1720.3	1698.5	1700.9	1700.9	1705.8
10°	1737.3	1734.9	1720.3	1708.2	1693.6	1691.2	1683.9	1679.1	1679.1	1676.6	1683.9
12.5°	1737.3	1725.2	1722.8	1696.1	1671.8	1681.5	1662.1	1649.9	1666.9	1671.8	1681.5
15°	1734.9	1747.0	1705.8	1693.6	1676.6	1679.1	1662.1	1649.9	1659.6	1664.5	1671.8
17.5°	1749.5	1742.2	1730.0	1705.8	1698.5	1688.8	1666.9	1657.2	1657.2	1669.4	1671.8
20°	1788.3	1768.9	1744.6	1732.5	1739.7	1727.6	1700.9	1664.5	1674.2	1683.9	1691.2
22.5°	1824.7	1810.1	1793.1	1785.9	1827.1	1807.7	1761.6	1720.3	1705.8	1722.8	1734.9
25°	1895.0	1895.0	1863.5	1873.2	1919.3	1921.7	1868.3	1795.6	1785.9	1793.1	1798.0
27.5°	2038.2	2045.5	2018.8	2028.5	2047.9	2064.8	2018.8	1958.1	1936.3	1933.9	1941.1
30°	2193.5	2208.1	2205.6	2246.9	2302.6	2312.4	2244.5	2145.0	2079.4	2067.3	2077.0
32.5°	2397.3	2404.6	2399.7	2448.3	2598.7	2669.1	2491.9	2351.2	2263.8	2285.7	2263.8
35°	2780.7	2773.4	2720.0	2729.7	2853.5	2904.5	2734.5	2644.8	2603.6	2647.2	2637.5
37.5°	3110.7	3084.0	3040.3	3103.4	3232.0	3278.1	3101.0	2943.2	2868.1	2940.8	2972.3
40°	3389.7	3321.8	3261.1	3324.2	3496.5	3559.5	3300.0	3171.3	3142.2	3195.6	3263.5
42.5°	3625.1	3581.4	3501.3	3506.2	3620.2	3649.3	3440.7	3365.4	3336.4	3421.2	3455.2
45°	3792.5	3751.3	3676.0	3671.2	3758.6	3739.1	3552.3	3501.3	3518.3	3574.1	3591.1
47.5°	3877.4	3899.3	3855.6	3867.7	3913.8	3867.7	3719.7	3719.7	3680.9	3714.9	3697.9
50°	4122.5	4054.5	4110.4	4110.4	4158.9	4163.8	4015.7	3962.4	3858.0	3799.7	3799.7
52.5°	4408.8	4413.7	4435.5	4515.6	4598.1	4668.4	4457.3	4229.2	4054.5	3979.4	3969.7
55°	4644.1	4692.7	4780.1	4930.5	5168.3	5265.4	4901.3	4493.7	4280.2	4163.8	4139.5
56°	4772.8	4726.7	4877.1	5083.3	5393.9	5520.1	4974.2	4547.1	4311.7	4180.8	4178.3
57.5°	4649.0	4700.0	4804.3	5129.4	5510.4	5675.4	5000.9	4522.8	4185.6	4052.1	4064.2
60°	3671.2	3719.7	3860.4	4224.4	4821.3	4949.9	4231.6	3729.4	3428.5	3236.8	3239.3
62.5°	2077.0	2113.4	2222.6	2559.9	2931.1	3054.9	2637.5	2302.6	2094.0	1987.3	1953.3
65°	764.3	749.8	766.7	939.1	1167.1	1271.4	1096.7	926.9	817.7	778.9	764.3
67.5°	286.3	264.5	247.5	264.5	332.4	351.8	322.8	269.4	252.4	259.6	264.5
70°	177.1	167.4	133.4	126.1	123.7	121.3	128.6	135.9	155.3	182.0	186.8
72.5°	123.7	116.4	94.7	89.8	85.0	82.5	94.7	104.4	121.3	140.7	143.1
75°	48.5	51.0	48.5	53.4	55.8	58.3	68.0	75.2	82.5	82.5	80.1
77.5°	9.7	9.7	14.6	19.4	24.3	31.6	46.1	53.4	55.8	53.4	46.1
80°	0.0	0.0	4.9	9.7	19.4	26.7	41.3	46.1	51.0	46.1	36.4
82.5°	0.0	0.0	4.9	12.1	19.4	24.3	38.8	48.5	55.8	51.0	38.8
85°	0.0	0.0	4.9	9.7	14.6	17.0	17.0	12.1	12.1	7.3	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)