

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: P947207

Luminaire Tested: **GALN-SB2C-850-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-850-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14752 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

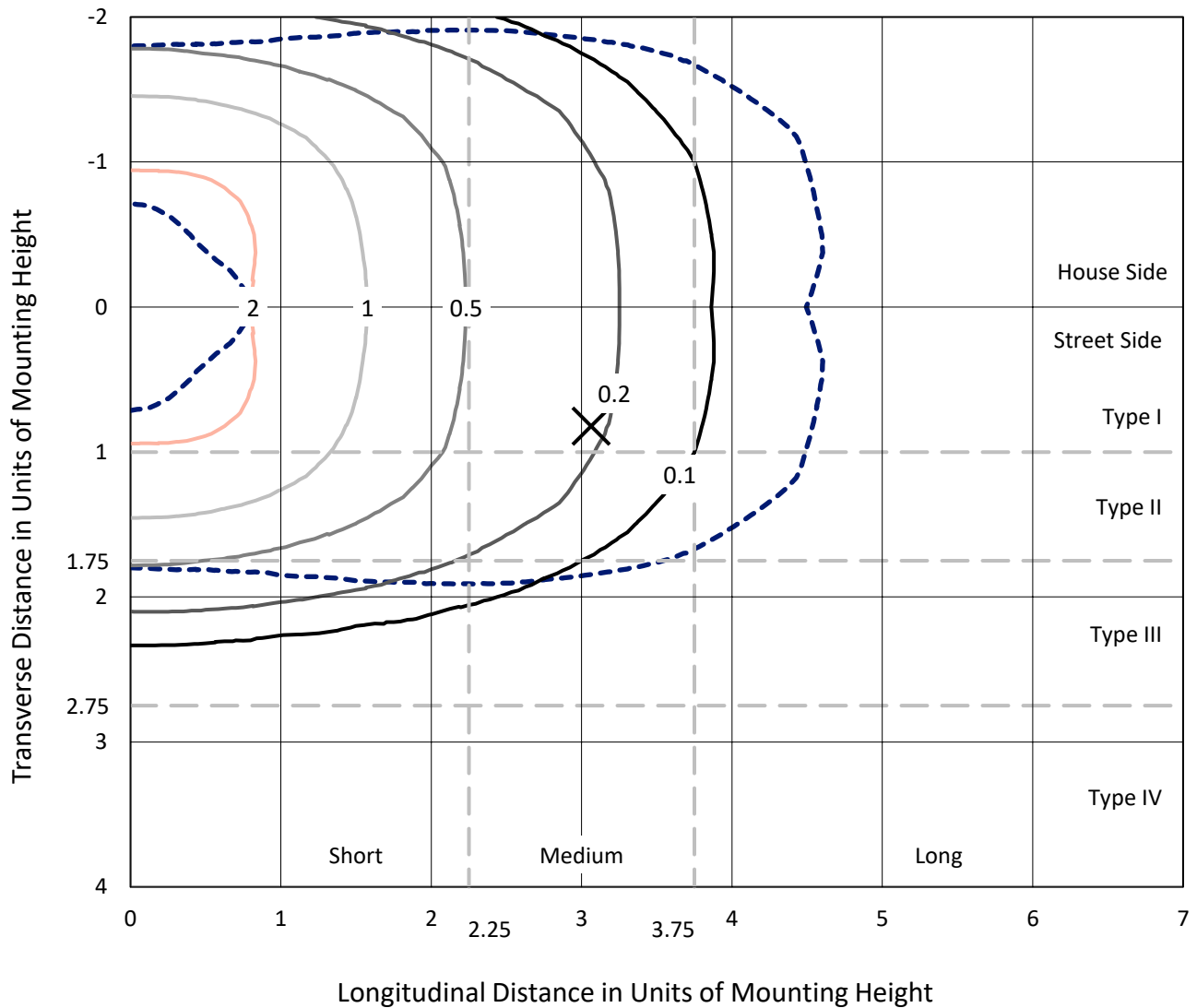
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

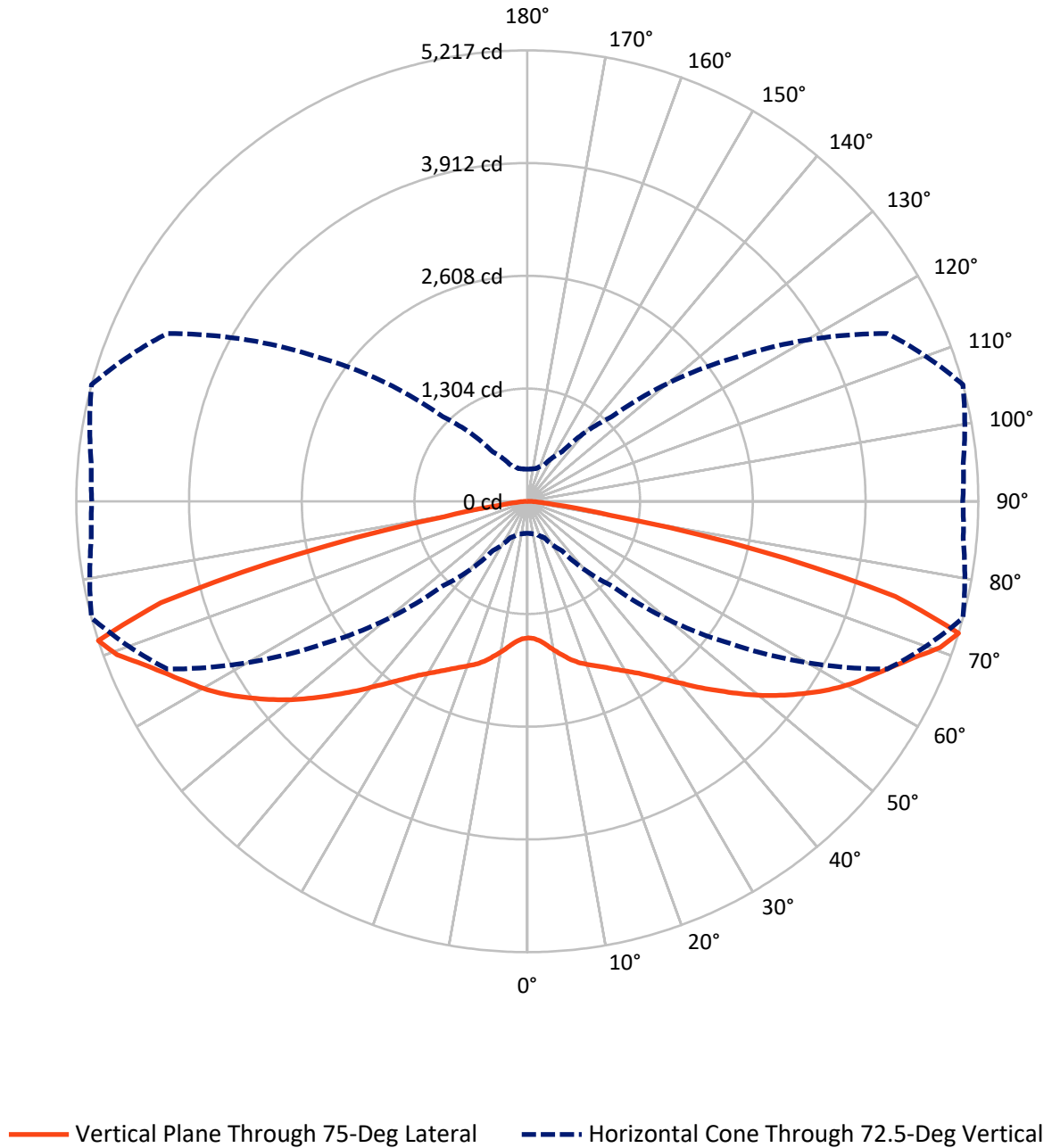
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7376.0	0.0	7376.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7376.0	0.0	7376.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14752.0	0.0	14752.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	1.0
10°-20°	510.5	3.5
20°-30°	986.5	6.7
30°-40°	1665.8	11.3
40°-50°	2641.8	17.9
50°-60°	3537.0	24.0
60°-70°	3366.1	22.8
70°-80°	1756.5	11.9
80°-90°	133.0	0.9
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°	14752.0	100.0
0°-180°	14752.0	100.0

Coefficient of Utilization



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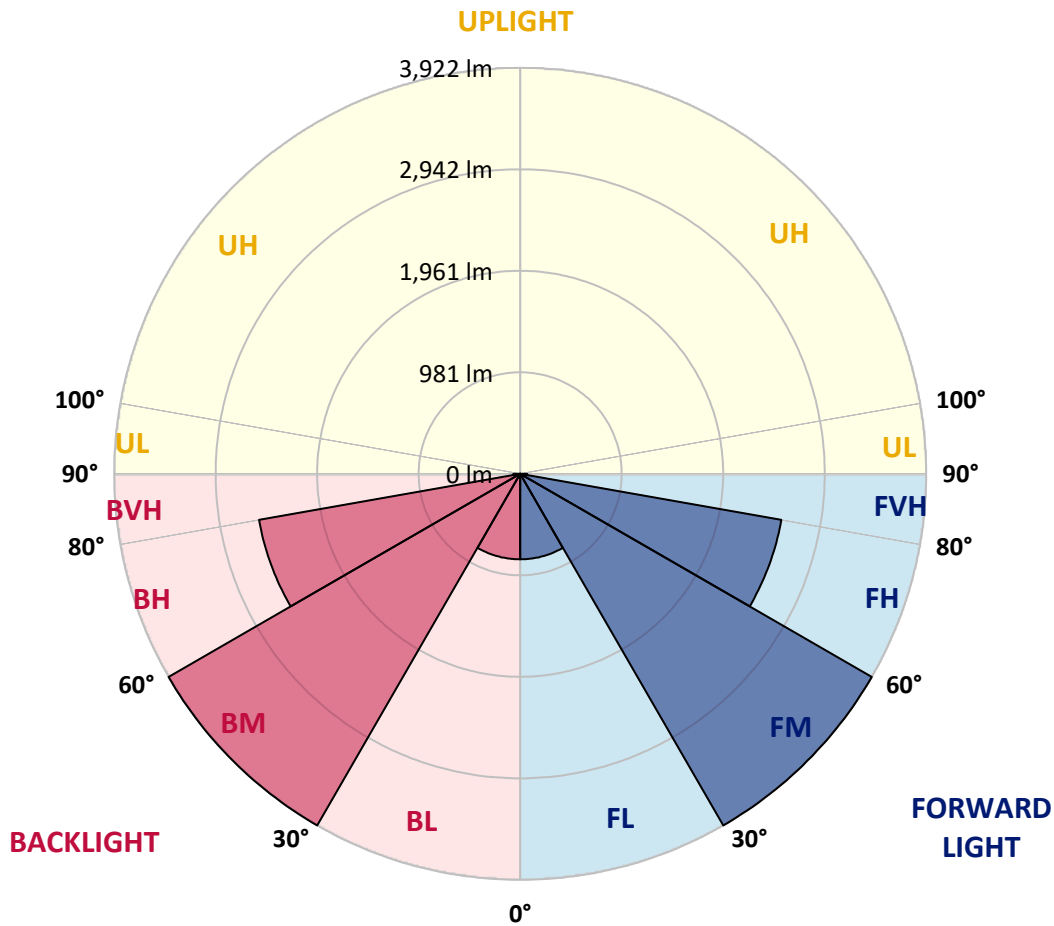
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	825.9	5.6			
FM (30°-60°)	3922.3	26.6			
FH (60°-80°)	2561.3	17.4			G2/5000
FVH (80°-90°)	66.5	0.5			G1/100
BL (0°-30°)	825.9	5.6	B2/1000		
BM (30°-60°)	3922.3	26.6	B3/5000		
BH (60°-80°)	2561.3	17.4	B4/5000		G4/5000
BVH (80°-90°)	66.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1580.2	1580.2	1580.2	1580.2	1580.2	1580.2	1580.2	1580.2	1580.2	1580.2
2.5°	1580.2	1578.7	1580.2	1581.7	1581.0	1581.0	1584.7	1587.0	1591.5	1590.7
5°	1569.7	1568.9	1574.9	1581.7	1587.0	1596.0	1607.3	1615.6	1626.1	1628.4
7.5°	1564.4	1562.1	1572.7	1584.7	1601.3	1623.9	1645.7	1668.3	1686.4	1692.4
10°	1568.2	1568.9	1583.2	1605.8	1632.2	1663.8	1694.7	1733.1	1758.7	1764.7
12.5°	1585.5	1584.0	1608.1	1644.2	1680.4	1720.3	1756.5	1798.6	1826.5	1840.8
15°	1617.1	1614.1	1648.0	1701.5	1754.2	1800.9	1830.3	1870.2	1902.6	1920.6
17.5°	1654.8	1656.3	1700.7	1770.0	1839.3	1892.0	1919.9	1940.2	1965.1	1980.9
20°	1721.1	1724.1	1773.8	1855.9	1935.0	1995.2	2017.8	2010.3	2017.1	2029.1
22.5°	1809.9	1811.4	1867.2	1956.0	2038.9	2105.2	2120.2	2089.4	2070.5	2078.8
25°	1913.1	1922.9	1978.6	2069.8	2154.9	2218.2	2224.9	2178.2	2131.5	2133.8
27.5°	2038.9	2047.9	2104.4	2194.8	2281.4	2336.4	2335.7	2273.1	2204.6	2187.3
30°	2175.2	2185.0	2243.0	2336.4	2417.0	2465.2	2454.7	2380.1	2282.2	2249.8
32.5°	2337.2	2343.2	2401.9	2495.3	2569.9	2608.3	2586.5	2494.6	2372.6	2335.7
35°	2533.0	2542.0	2585.7	2673.8	2739.4	2771.0	2734.1	2625.6	2488.6	2447.1
37.5°	2756.7	2750.7	2800.4	2878.7	2932.9	2952.5	2902.1	2773.3	2621.1	2572.2
40°	2990.2	2987.2	3041.4	3116.7	3146.1	3158.1	3083.6	2942.7	2774.0	2721.3
42.5°	3201.8	3199.6	3272.6	3356.2	3391.6	3378.1	3283.9	3122.7	2951.0	2890.8
45°	3371.3	3368.3	3457.9	3575.4	3644.7	3622.1	3495.6	3321.6	3130.3	3067.8
47.5°	3501.6	3503.1	3599.5	3744.9	3866.2	3874.4	3711.7	3524.2	3327.6	3256.8
50°	3595.8	3600.3	3703.5	3864.6	4030.3	4103.4	3932.4	3732.1	3531.7	3451.9
52.5°	3619.1	3627.4	3751.7	3940.7	4135.8	4275.1	4156.9	3931.7	3725.3	3649.2
55°	3494.8	3511.4	3668.8	3934.7	4200.6	4388.1	4354.2	4134.3	3920.4	3842.0
57.5°	3209.4	3232.7	3416.5	3763.7	4186.3	4465.7	4507.1	4328.6	4115.5	4040.1
60°	2809.4	2837.3	3013.5	3392.4	3984.4	4494.3	4614.8	4517.7	4294.7	4221.7
62.5°	2206.1	2242.3	2453.2	2897.5	3558.1	4361.0	4706.7	4688.6	4455.9	4364.8
65°	1415.3	1453.7	1675.9	2200.8	2989.4	3952.8	4735.3	4855.1	4626.1	4498.8
67.5°	853.4	870.7	980.7	1333.9	2185.0	3337.4	4492.8	5039.6	4825.0	4666.8
70°	546.1	555.9	621.4	783.3	1235.2	2435.1	3891.8	5074.3	5066.0	4839.3
72.5°	370.6	373.6	390.9	464.0	699.0	1383.6	2870.4	4593.7	5216.6	5061.5
75°	271.2	287.7	315.6	328.4	396.9	691.4	1645.0	3227.4	4396.4	4464.2
77.5°	201.9	202.6	241.0	256.1	283.2	368.3	696.0	1801.6	2729.6	2865.9
80°	171.0	161.9	161.2	206.4	213.2	229.7	311.1	622.1	977.6	592.8
82.5°	142.4	132.6	119.8	161.2	145.4	140.8	134.8	253.1	311.1	152.9
85°	99.4	94.9	90.4	105.4	82.9	70.8	64.8	118.3	131.1	64.8
87.5°	42.9	44.4	45.2	46.7	34.6	24.9	24.9	33.1	33.1	25.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1580.2
1590.0
1628.4
1693.9
1770.8
1846.8
1927.4
1988.4
2038.1
2084.8
2137.6
2192.6
2253.6
2344.7
2453.2
2581.2
2738.6
2905.8
3082.1
3277.9
3476.0
3668.8
3863.9
4057.5
4237.5
4375.3
4514.7
4678.8
4837.8
5037.4
4300.0
2556.3
448.2
130.3
57.2
18.8
0.0

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