

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: P529135

Luminaire Tested: **GALN-SA4B-735-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529135
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-SA4B-735-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 10938 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

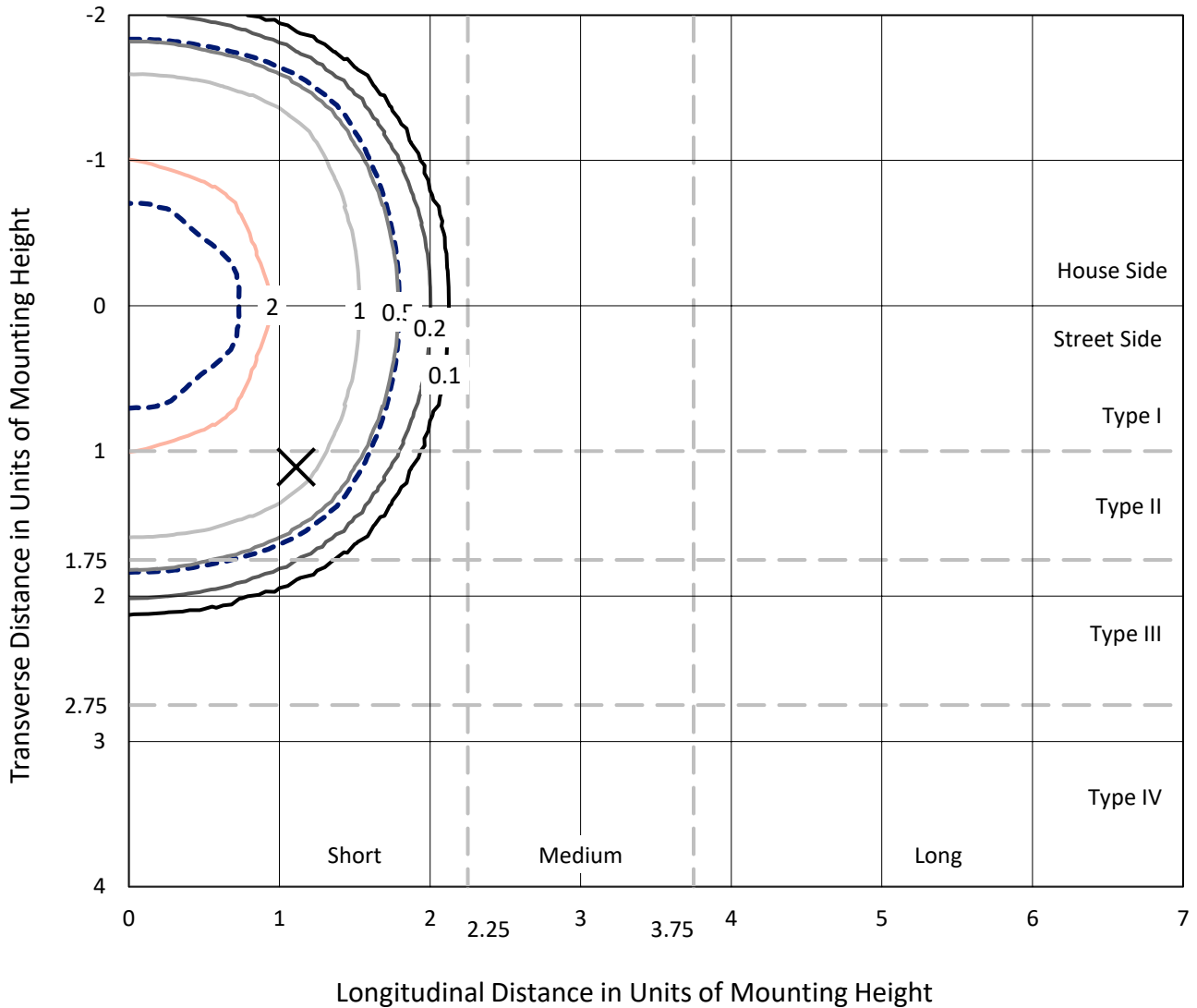
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

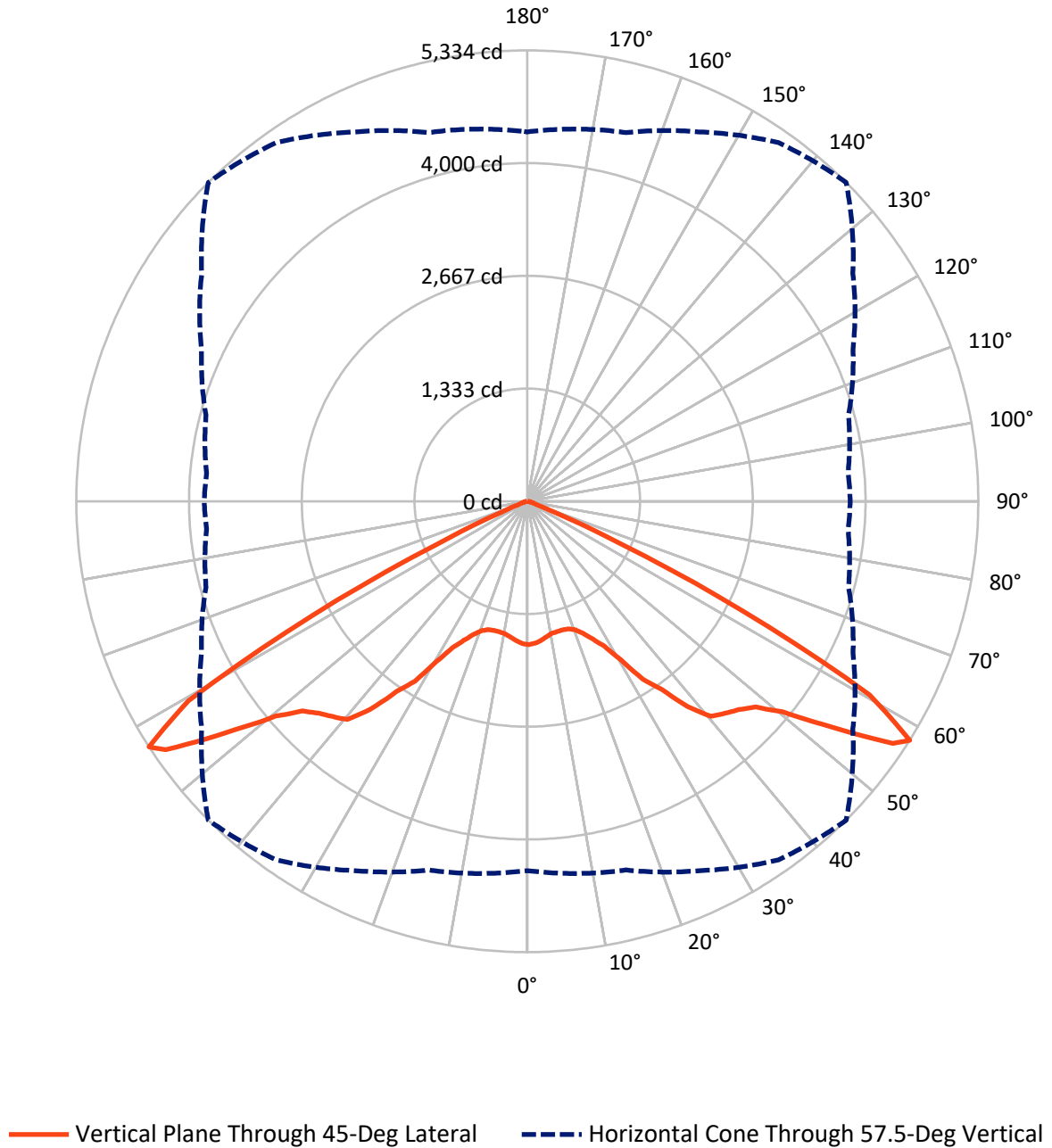
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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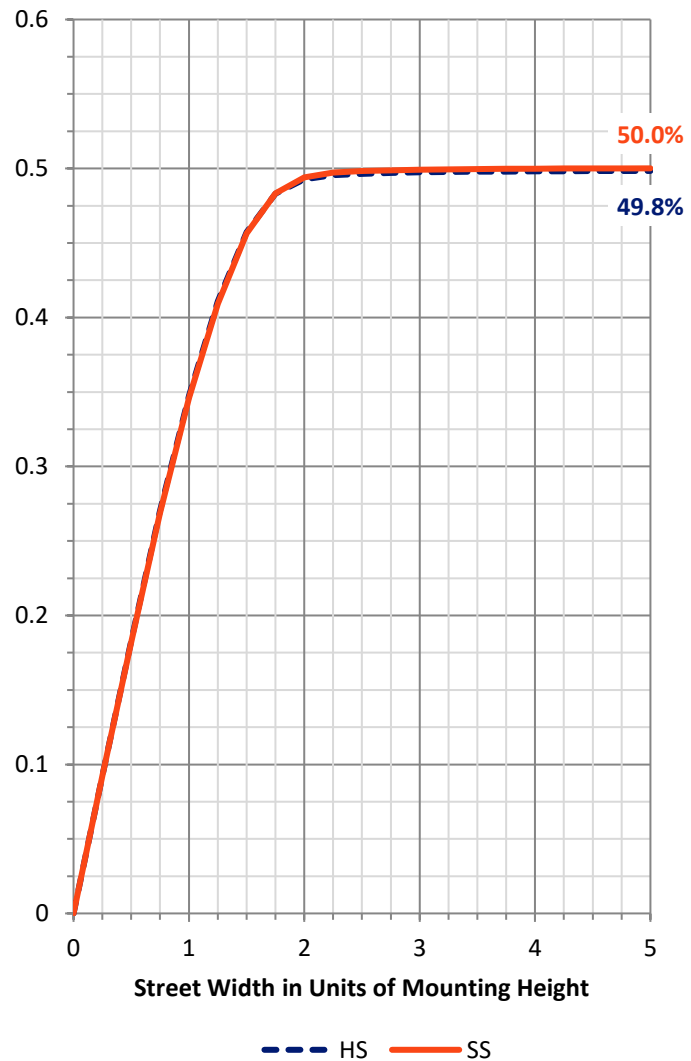
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5469.0	0.0	5469.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5469.0	0.0	5469.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10938.0	0.0	10938.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	1.4
10°-20°	450.7	4.1
20°-30°	831.8	7.6
30°-40°	1635.9	15.0
40°-50°	2664.4	24.4
50°-60°	3799.8	34.7
60°-70°	1315.6	12.0
70°-80°	70.6	0.6
80°-90°	13.3	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°	10938.0	100.0
0°-180°	10938.0	100.0



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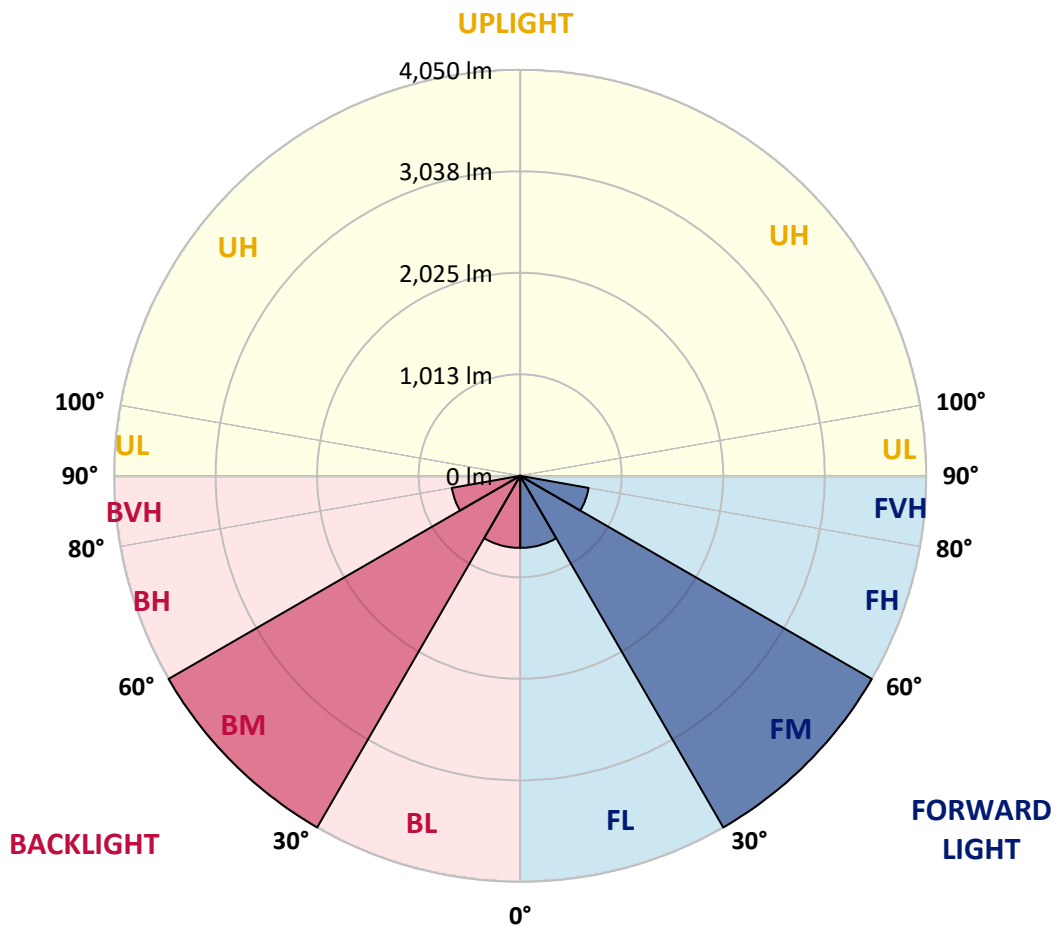
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	719.2	6.6			
FM (30°-60°)	4050.1	37.0			
FH (60°-80°)	693.1	6.3			G1/1800
FVH (80°-90°)	6.6	0.1			G0/10
BL (0°-30°)	719.2	6.6	B2/1000		
BM (30°-60°)	4050.1	37.0	B3/5000		
BH (60°-80°)	693.1	6.3	B2/1000		G1/1800
BVH (80°-90°)	6.6	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°	1696.6	1696.6	1696.6	1696.6	1696.6	1696.6	1696.6	1696.6	1696.6	1696.6	1696.6
2.5°	1692.0	1701.2	1689.8	1685.2	1682.9	1682.9	1676.1	1676.1	1673.8	1676.1	1667.0
5°	1664.7	1673.8	1673.8	1671.5	1657.8	1655.6	1648.7	1644.1	1646.4	1637.3	1644.1
7.5°	1637.3	1644.1	1635.0	1632.7	1628.2	1619.1	1616.8	1596.3	1598.5	1598.5	1603.1
10°	1632.7	1630.5	1616.8	1605.4	1591.7	1589.4	1582.6	1578.0	1578.0	1575.7	1582.6
12.5°	1632.7	1621.3	1619.1	1594.0	1571.2	1580.3	1562.1	1550.7	1566.6	1571.2	1580.3
15°	1630.5	1641.9	1603.1	1591.7	1575.7	1578.0	1562.1	1550.7	1559.8	1564.3	1571.2
17.5°	1644.1	1637.3	1625.9	1603.1	1596.3	1587.1	1566.6	1557.5	1557.5	1568.9	1571.2
20°	1680.6	1662.4	1639.6	1628.2	1635.0	1623.6	1598.5	1564.3	1573.5	1582.6	1589.4
22.5°	1714.8	1701.2	1685.2	1678.4	1717.1	1698.9	1655.6	1616.8	1603.1	1619.1	1630.5
25°	1781.0	1781.0	1751.3	1760.4	1803.8	1806.1	1755.9	1687.5	1678.4	1685.2	1689.8
27.5°	1915.5	1922.4	1897.3	1906.4	1924.6	1940.6	1897.3	1840.3	1819.7	1817.5	1824.3
30°	2061.5	2075.1	2072.9	2111.6	2164.1	2173.2	2109.3	2015.9	1954.3	1942.9	1952.0
32.5°	2253.0	2259.9	2255.3	2300.9	2442.3	2508.4	2341.9	2209.7	2127.6	2148.1	2127.6
35°	2613.3	2606.5	2556.3	2565.4	2681.7	2729.6	2570.0	2485.6	2446.8	2487.9	2478.8
37.5°	2923.4	2898.4	2857.3	2916.6	3037.5	3080.8	2914.3	2766.1	2695.4	2763.8	2793.5
40°	3185.7	3121.8	3064.8	3124.1	3286.0	3345.3	3101.3	2980.4	2953.1	3003.3	3067.1
42.5°	3406.9	3365.8	3290.6	3295.1	3402.3	3429.7	3233.6	3162.9	3135.5	3215.3	3247.3
45°	3564.2	3525.5	3454.8	3450.2	3532.3	3514.1	3338.5	3290.6	3306.5	3359.0	3375.0
47.5°	3644.0	3664.6	3623.5	3634.9	3678.2	3634.9	3495.8	3495.8	3459.3	3491.3	3475.3
50°	3874.4	3810.5	3863.0	3863.0	3908.6	3913.1	3774.0	3723.9	3625.8	3571.1	3571.1
52.5°	4143.4	4148.0	4168.5	4243.8	4321.3	4387.4	4189.0	3974.7	3810.5	3739.8	3730.7
55°	4364.6	4410.2	4492.3	4633.7	4857.2	4948.4	4606.4	4223.3	4022.6	3913.1	3890.3
56°	4485.5	4442.2	4583.6	4777.4	5069.3	5187.9	4674.8	4273.4	4052.2	3929.1	3926.8
57.5°	4369.2	4417.1	4515.1	4820.7	5178.7	5333.8	4699.9	4250.6	3933.6	3808.2	3819.6
60°	3450.2	3495.8	3628.1	3970.1	4531.1	4652.0	3977.0	3504.9	3222.2	3042.0	3044.3
62.5°	1952.0	1986.2	2088.8	2405.8	2754.7	2871.0	2478.8	2164.1	1968.0	1867.6	1835.7
65°	718.3	704.6	720.6	882.5	1096.9	1194.9	1030.7	871.1	768.5	732.0	718.3
67.5°	269.1	248.6	232.6	248.6	312.4	330.7	303.3	253.1	237.2	244.0	248.6
70°	166.5	157.3	125.4	118.6	116.3	114.0	120.9	127.7	145.9	171.0	175.6
72.5°	116.3	109.5	88.9	84.4	79.8	77.5	88.9	98.1	114.0	132.3	134.5
75°	45.6	47.9	45.6	50.2	52.4	54.7	63.9	70.7	77.5	77.5	75.3
77.5°	9.1	9.1	13.7	18.2	22.8	29.6	43.3	50.2	52.4	50.2	43.3
80°	0.0	0.0	4.6	9.1	18.2	25.1	38.8	43.3	47.9	43.3	34.2
82.5°	0.0	0.0	4.6	11.4	18.2	22.8	36.5	45.6	52.4	47.9	36.5
85°	0.0	0.0	4.6	9.1	13.7	16.0	16.0	11.4	11.4	6.8	4.6
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)