

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: P529083

Luminaire Tested: **GALN-SA4B-727-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529083
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-727-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 9820 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

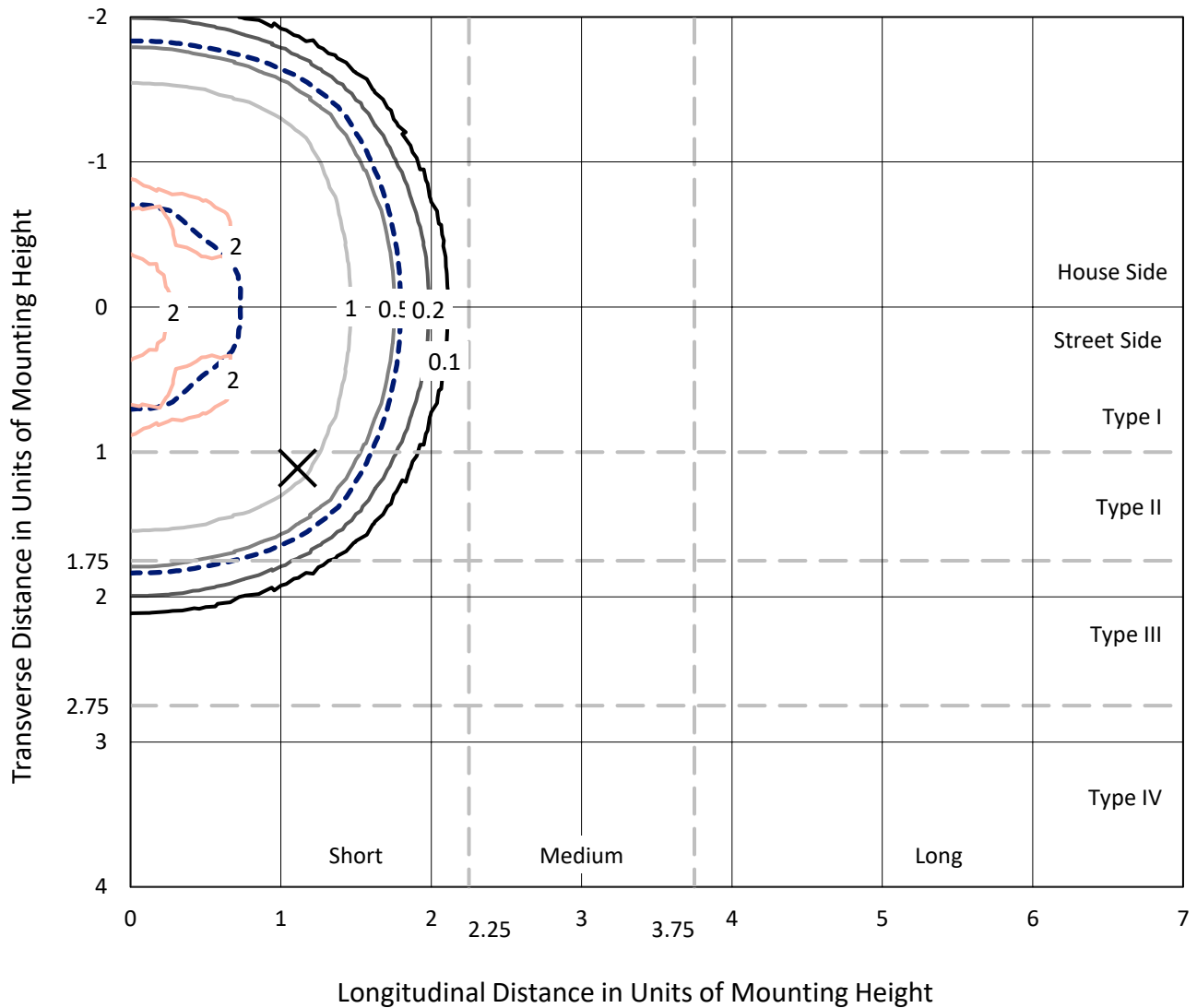
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

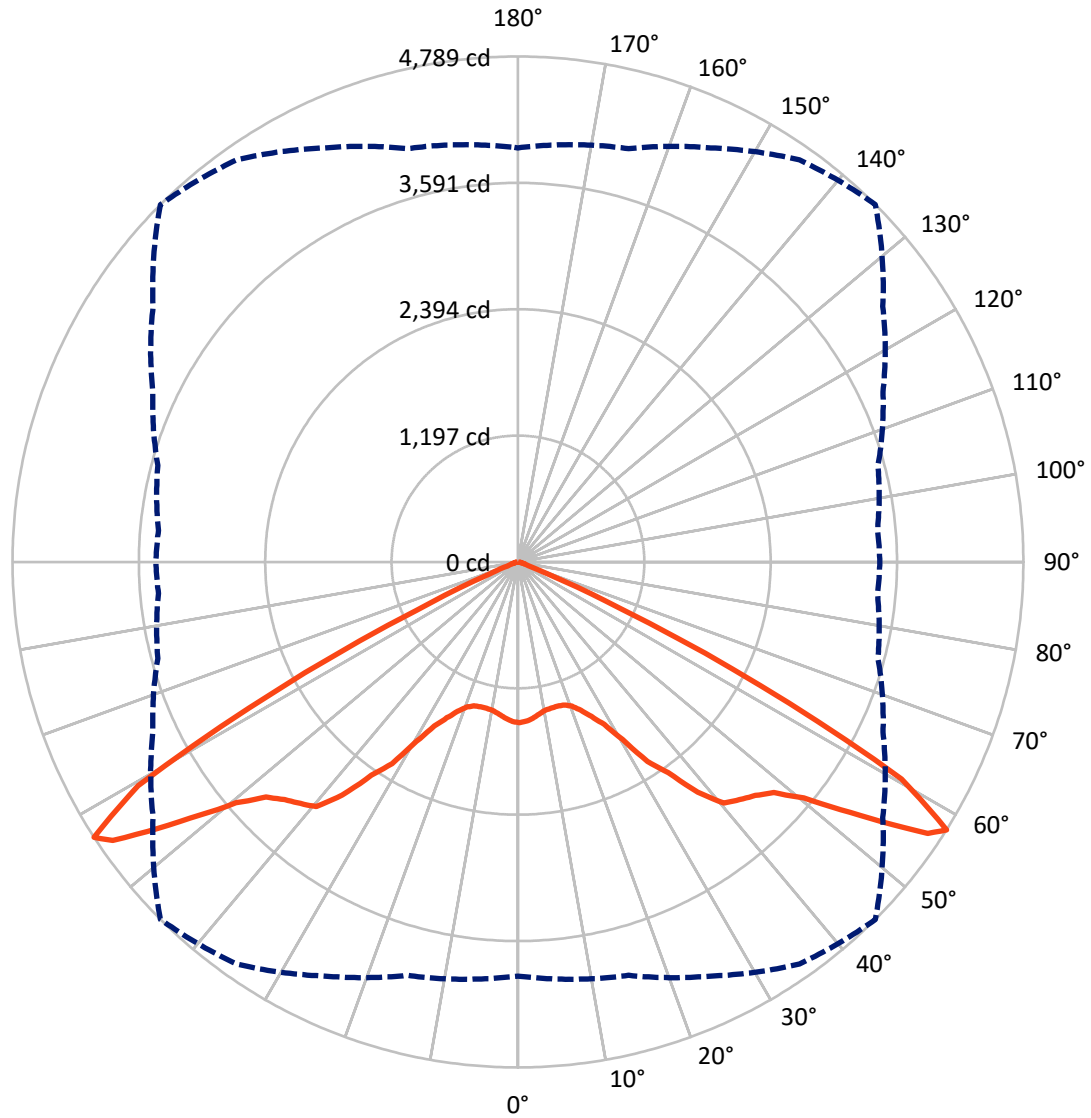
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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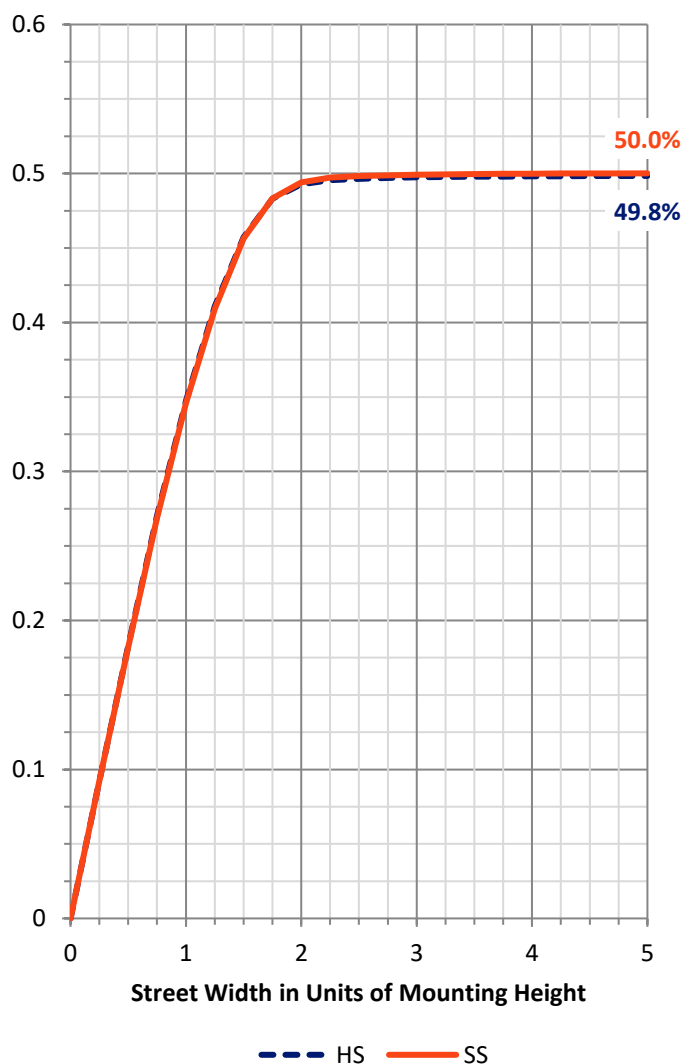
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4910.0	0.0	4910.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4910.0	0.0	4910.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9820.0	0.0	9820.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	1.4
10°-20°	404.6	4.1
20°-30°	746.8	7.6
30°-40°	1468.7	15.0
40°-50°	2392.1	24.4
50°-60°	3411.4	34.7
60°-70°	1181.1	12.0
70°-80°	63.4	0.6
80°-90°	11.9	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°	9820.0	100.0
0°-180°	9820.0	100.0

Coefficient of Utilization



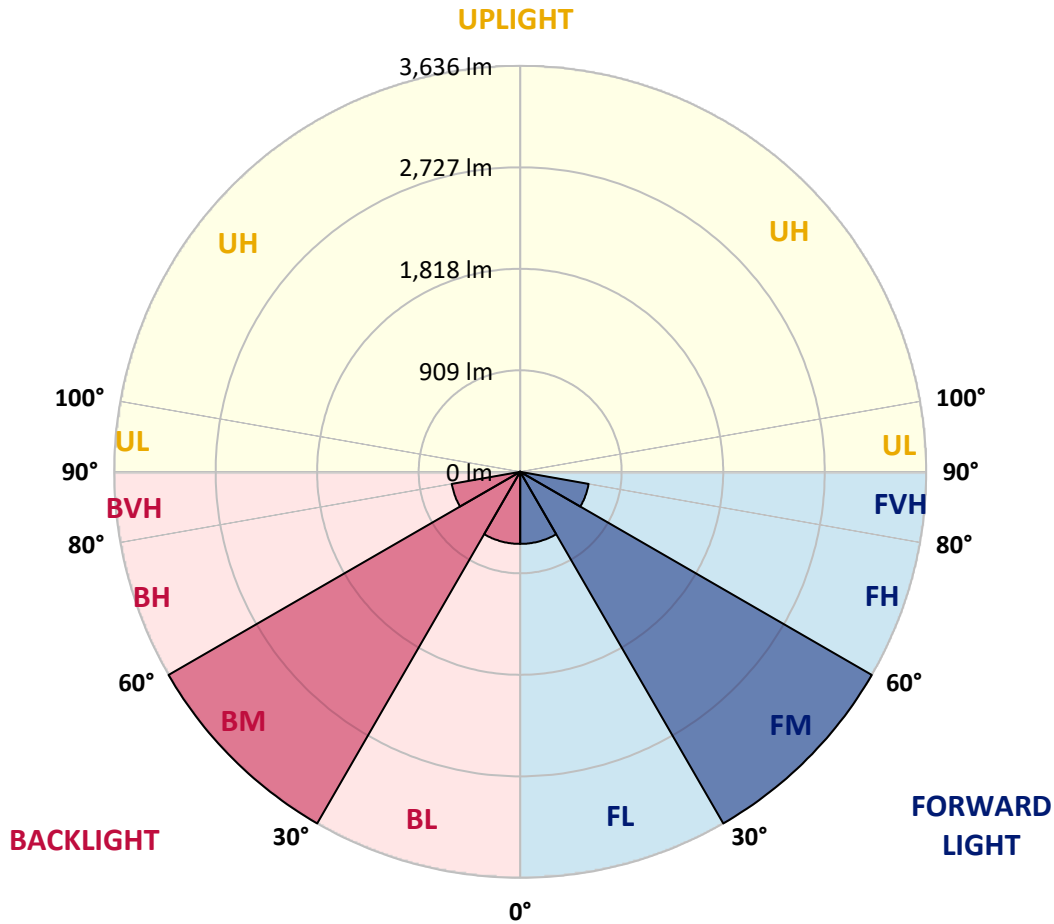
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	645.7	6.6			
FM (30°-60°)	3636.1	37.0			
FH (60°-80°)	622.2	6.3			G0/660
FVH (80°-90°)	5.9	0.1			G0/10
BL (0°-30°)	645.7	6.6	B2/1000		
BM (30°-60°)	3636.1	37.0	B3/5000		
BH (60°-80°)	622.2	6.3	B2/1000		G0/660
BVH (80°-90°)	5.9	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-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1523.2	1523.2	1523.2	1523.2	1523.2	1523.2	1523.2	1523.2	1523.2	1523.2	1523.2
2.5°	1519.1	1527.3	1517.0	1512.9	1510.9	1510.9	1504.8	1504.8	1502.7	1504.8	1496.6
5°	1494.5	1502.7	1502.7	1500.7	1488.4	1486.3	1480.2	1476.1	1478.1	1470.0	1476.1
7.5°	1470.0	1476.1	1467.9	1465.9	1461.8	1453.6	1451.5	1433.1	1435.2	1435.2	1439.2
10°	1465.9	1463.8	1451.5	1441.3	1429.0	1427.0	1420.8	1416.7	1416.7	1414.7	1420.8
12.5°	1465.9	1455.6	1453.6	1431.1	1410.6	1418.8	1402.4	1392.2	1406.5	1410.6	1418.8
15°	1463.8	1474.0	1439.2	1429.0	1414.7	1416.7	1402.4	1392.2	1400.3	1404.4	1410.6
17.5°	1476.1	1470.0	1459.7	1439.2	1433.1	1424.9	1406.5	1398.3	1398.3	1408.5	1410.6
20°	1508.9	1492.5	1472.0	1461.8	1467.9	1457.7	1435.2	1404.4	1412.6	1420.8	1427.0
22.5°	1539.6	1527.3	1512.9	1506.8	1541.6	1525.2	1486.3	1451.5	1439.2	1453.6	1463.8
25°	1598.9	1598.9	1572.3	1580.5	1619.4	1621.5	1576.4	1515.0	1506.8	1512.9	1517.0
27.5°	1719.7	1725.9	1703.3	1711.5	1727.9	1742.2	1703.3	1652.2	1633.7	1631.7	1637.8
30°	1850.8	1863.0	1861.0	1895.8	1942.9	1951.1	1893.7	1809.8	1754.5	1744.3	1752.5
32.5°	2022.7	2028.9	2024.8	2065.7	2192.6	2252.0	2102.6	1983.8	1910.1	1928.5	1910.1
35°	2346.2	2340.1	2295.0	2303.2	2407.6	2450.6	2307.3	2231.5	2196.7	2233.6	2225.4
37.5°	2624.6	2602.1	2565.3	2618.5	2727.0	2765.9	2616.4	2483.4	2419.9	2481.3	2507.9
40°	2860.1	2802.7	2751.6	2804.8	2950.1	3003.4	2784.3	2675.8	2651.2	2696.3	2753.6
42.5°	3058.7	3021.8	2954.2	2958.3	3054.6	3079.1	2903.1	2839.6	2815.0	2886.7	2915.3
45°	3199.9	3165.1	3101.6	3097.6	3171.3	3154.9	2997.2	2954.2	2968.6	3015.7	3030.0
47.5°	3271.6	3290.0	3253.1	3263.4	3302.3	3263.4	3138.5	3138.5	3105.7	3134.4	3120.1
50°	3478.3	3421.0	3468.1	3468.1	3509.1	3513.2	3388.3	3343.2	3255.2	3206.1	3206.1
52.5°	3719.9	3724.0	3742.4	3810.0	3879.6	3939.0	3760.9	3568.4	3421.0	3357.6	3349.4
55°	3918.5	3959.5	4033.2	4160.1	4360.7	4442.6	4135.5	3791.6	3611.4	3513.2	3492.7
56°	4027.0	3988.1	4115.1	4289.1	4551.1	4657.6	4196.9	3836.6	3638.0	3527.5	3525.4
57.5°	3922.6	3965.6	4053.6	4328.0	4649.4	4788.6	4219.5	3816.2	3531.6	3419.0	3429.2
60°	3097.6	3138.5	3257.2	3564.3	4068.0	4176.5	3570.5	3146.7	2892.8	2731.1	2733.1
62.5°	1752.5	1783.2	1875.3	2159.9	2473.1	2577.5	2225.4	1942.9	1766.8	1676.7	1648.1
65°	644.9	632.6	646.9	792.3	984.7	1072.8	925.4	782.1	689.9	657.2	644.9
67.5°	241.6	223.2	208.8	223.2	280.5	296.9	272.3	227.2	212.9	219.1	223.2
70°	149.5	141.3	112.6	106.5	104.4	102.4	108.5	114.6	131.0	153.5	157.6
72.5°	104.4	98.3	79.8	75.7	71.7	69.6	79.8	88.0	102.4	118.7	120.8
75°	40.9	43.0	40.9	45.0	47.1	49.1	57.3	63.5	69.6	69.6	67.6
77.5°	8.2	8.2	12.3	16.4	20.5	26.6	38.9	45.0	47.1	45.0	38.9
80°	0.0	0.0	4.1	8.2	16.4	22.5	34.8	38.9	43.0	38.9	30.7
82.5°	0.0	0.0	4.1	10.2	16.4	20.5	32.8	40.9	47.1	43.0	32.8
85°	0.0	0.0	4.1	8.2	12.3	14.3	14.3	10.2	10.2	6.1	4.1
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)