

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: P453353

Luminaire Tested: **GALN-SA4B-827-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453353
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17319 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

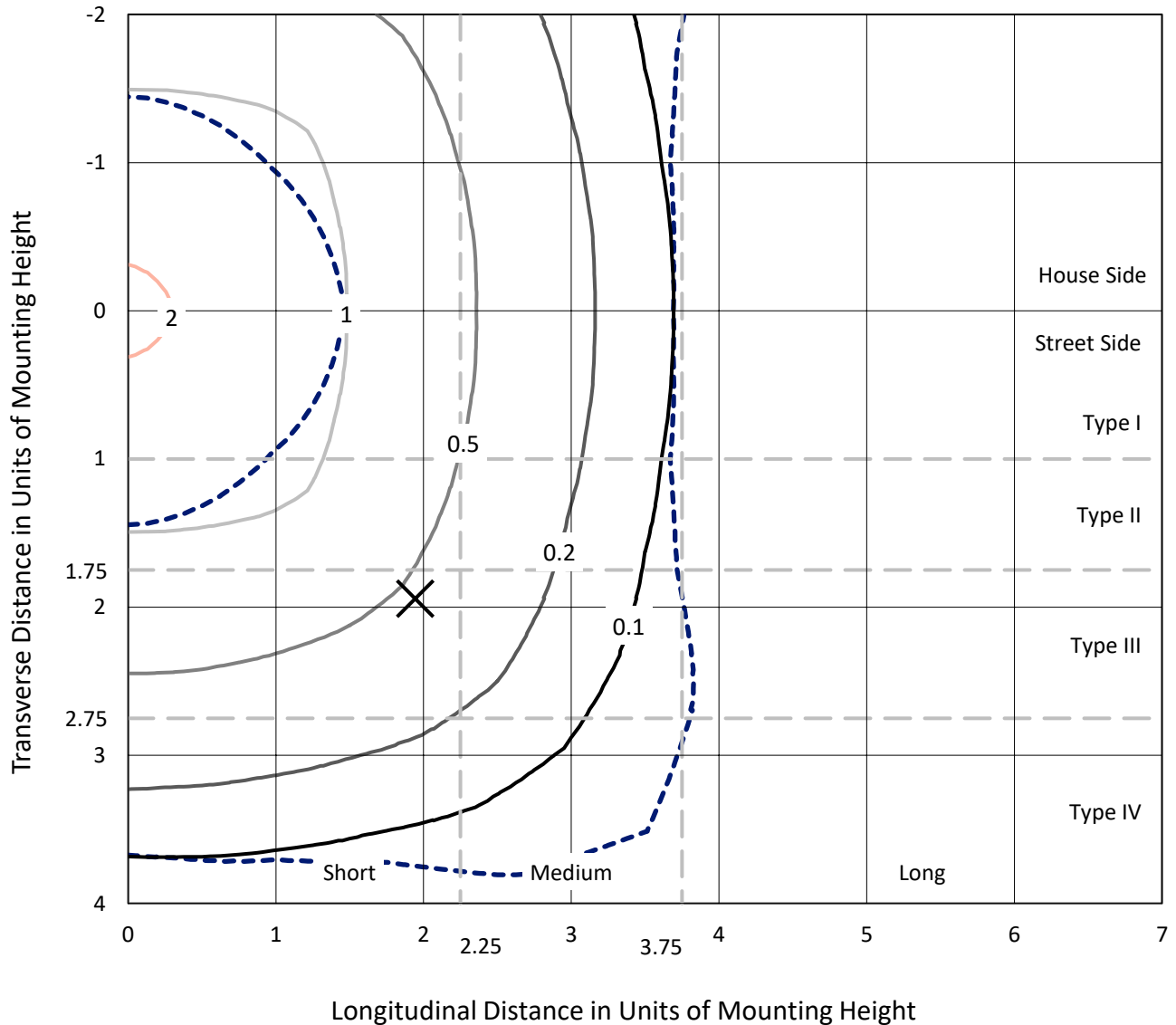
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

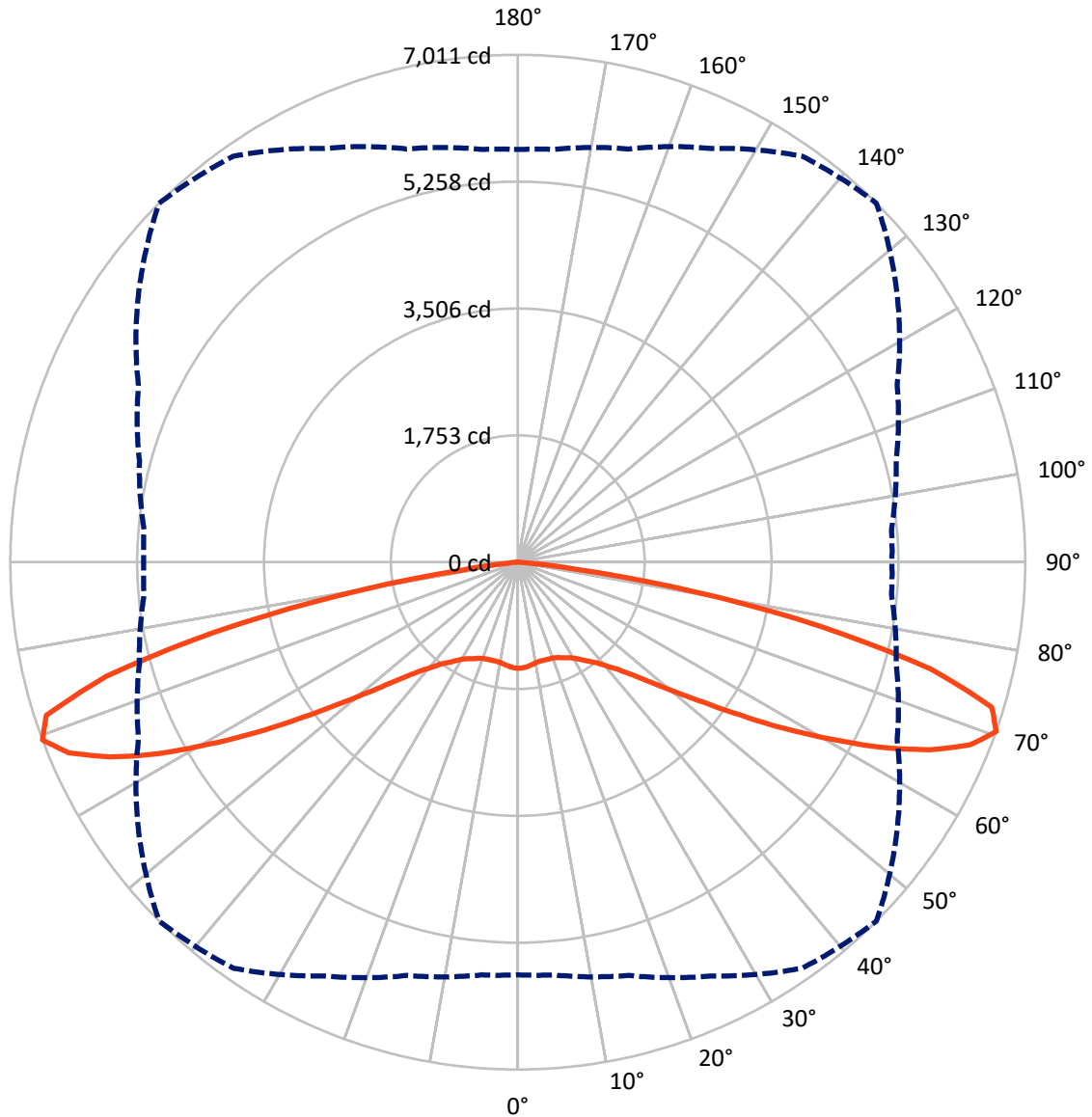
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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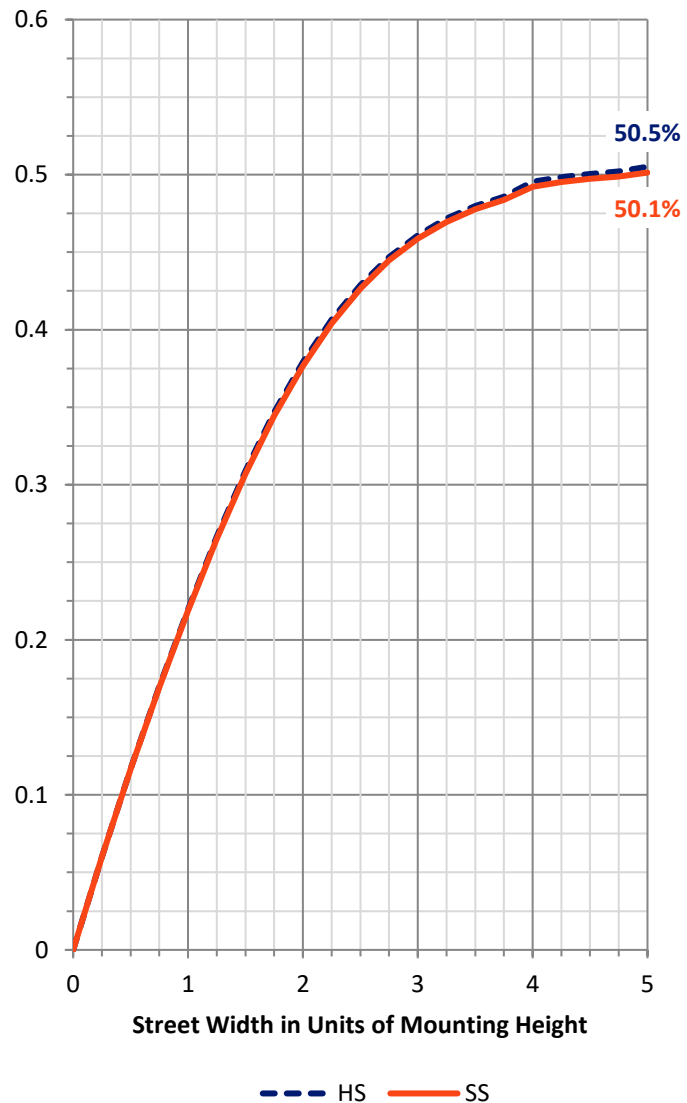
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8659.5	0.0	8659.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8659.5	0.0	8659.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17319.0	0.0	17319.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	0.8
10°-20°	401.4	2.3
20°-30°	684.0	3.9
30°-40°	1060.1	6.1
40°-50°	1784.3	10.3
50°-60°	3246.5	18.7
60°-70°	5496.3	31.7
70°-80°	4254.3	24.6
80°-90°	254.9	1.5
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°	17319.0	100.0
0°-180°	17319.0	100.0



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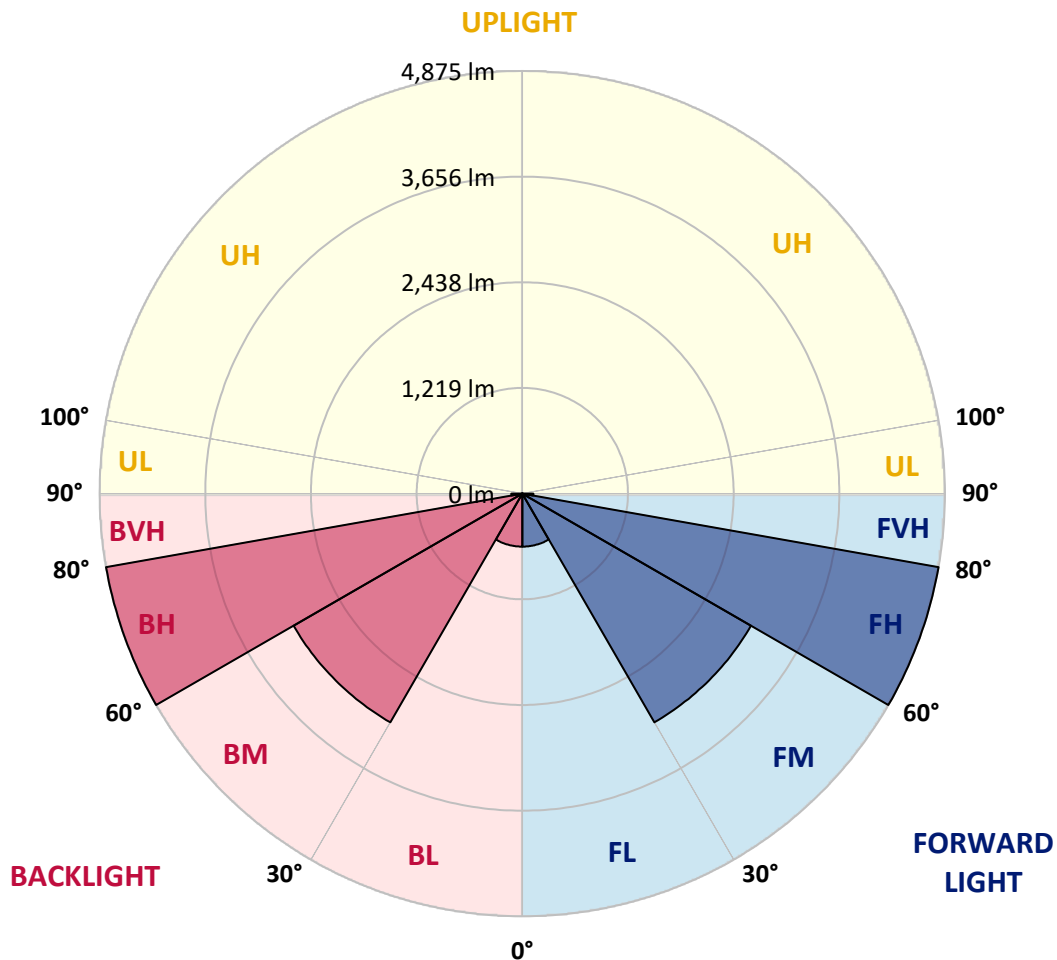
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	611.3	3.5			
FM (30°-60°)	3045.5	17.6			
FH (60°-80°)	4875.3	28.1			G2/5000
FVH (80°-90°)	127.5	0.7			G2/225
BL (0°-30°)	611.3	3.5	B2/1000		
BM (30°-60°)	3045.5	17.6	B3/5000		
BH (60°-80°)	4875.3	28.1	B4/5000		G2/5000
BVH (80°-90°)	127.5	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1466.3	1466.3	1466.3	1466.3	1466.3	1466.3	1466.3	1466.3	1466.3	1466.3	1466.3
2.5°	1462.6	1463.5	1463.5	1461.7	1460.8	1460.8	1459.9	1459.9	1462.6	1463.5	1464.4
5°	1449.8	1449.8	1449.8	1448.9	1447.1	1447.1	1445.2	1445.2	1446.1	1448.9	1447.1
7.5°	1432.4	1434.3	1434.3	1430.6	1427.8	1427.8	1426.9	1427.8	1428.8	1431.5	1430.6
10°	1426.9	1427.8	1423.3	1416.9	1412.3	1409.6	1410.5	1412.3	1416.9	1418.7	1419.6
12.5°	1430.6	1430.6	1422.4	1413.2	1405.0	1401.3	1400.4	1406.8	1415.0	1420.5	1422.4
15°	1435.2	1433.3	1423.3	1411.4	1403.2	1402.2	1401.3	1405.9	1417.8	1428.8	1429.7
17.5°	1437.9	1437.0	1424.2	1409.6	1405.0	1405.0	1404.1	1407.7	1420.5	1434.3	1435.2
20°	1447.1	1444.3	1429.7	1414.1	1410.5	1412.3	1409.6	1414.1	1427.8	1444.3	1448.0
22.5°	1465.4	1462.6	1448.0	1432.4	1430.6	1430.6	1429.7	1434.3	1448.9	1466.3	1469.0
25°	1487.3	1484.6	1470.8	1459.9	1461.7	1465.4	1463.5	1464.4	1476.3	1491.0	1495.5
27.5°	1516.6	1512.0	1500.1	1491.0	1496.5	1496.5	1496.5	1495.5	1502.9	1516.6	1521.1
30°	1552.2	1550.4	1537.6	1536.7	1541.3	1536.7	1536.7	1537.6	1538.5	1551.3	1555.9
32.5°	1598.9	1595.2	1588.8	1587.0	1599.8	1603.5	1590.7	1578.8	1585.2	1598.0	1600.7
35°	1675.7	1670.2	1661.1	1651.0	1661.1	1678.5	1651.0	1641.9	1658.4	1675.7	1677.6
37.5°	1780.0	1777.3	1762.6	1744.3	1743.4	1761.7	1733.4	1732.4	1763.5	1784.6	1787.3
40°	1910.8	1913.6	1895.3	1877.9	1868.7	1883.4	1861.4	1869.6	1899.8	1923.6	1921.8
42.5°	2094.7	2084.6	2056.2	2039.8	2029.7	2024.2	2018.7	2031.6	2065.4	2091.0	2111.1
45°	2309.6	2306.0	2270.3	2250.2	2228.2	2220.0	2218.1	2241.0	2282.2	2313.3	2316.0
47.5°	2552.9	2544.7	2521.8	2500.8	2492.6	2482.5	2473.4	2490.7	2531.9	2553.8	2560.2
50°	2803.6	2805.4	2805.4	2801.7	2810.0	2811.8	2787.1	2793.5	2816.4	2814.5	2812.7
52.5°	3089.9	3099.9	3147.5	3152.1	3191.4	3217.9	3173.1	3146.6	3138.3	3088.9	3092.6
55°	3426.5	3435.6	3507.0	3578.3	3684.4	3729.2	3635.0	3552.7	3494.2	3419.2	3422.8
57.5°	3846.3	3850.9	3918.6	4055.8	4224.1	4329.3	4163.7	4000.9	3882.0	3810.6	3782.3
60°	4298.2	4302.8	4401.5	4568.9	4830.5	4958.6	4753.7	4487.5	4337.5	4228.7	4236.0
62.5°	4840.6	4858.9	4947.6	5178.1	5495.5	5639.1	5367.5	5011.6	4808.6	4673.2	4678.7
65°	5421.4	5452.5	5549.5	5802.9	6095.6	6250.2	5917.2	5506.5	5254.0	5088.5	5105.9
67.5°	5798.3	5825.7	5965.7	6245.6	6610.5	6738.6	6308.7	5830.3	5514.7	5317.2	5280.6
70°	5702.2	5725.1	5911.7	6308.7	6849.3	7011.2	6402.0	5782.7	5411.4	5183.6	5169.0
72.5°	5033.6	4986.0	5258.6	5828.5	6576.7	6848.4	6108.4	5281.5	4814.1	4579.9	4552.5
75°	3335.9	3439.3	3841.7	4513.1	5564.1	5900.7	5213.8	4240.6	3652.4	3457.6	3427.4
77.5°	1115.0	1194.6	1552.2	2558.4	3793.3	4299.1	3798.8	2773.4	1962.0	1580.6	1587.9
80°	295.4	291.8	377.8	703.4	1639.1	2489.8	1908.1	939.4	514.1	372.3	353.1
82.5°	106.1	118.9	152.8	194.8	434.5	773.8	546.1	263.4	193.0	142.7	138.1
85°	46.6	45.7	65.9	77.7	108.8	144.5	128.1	111.6	97.9	64.9	60.4
87.5°	10.1	10.1	15.5	11.9	19.2	19.2	23.8	28.4	29.3	19.2	15.5
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)