

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: P646821

Luminaire Tested: **GALN-SA3C-835-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646821
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-SA3C-835-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17199.4 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

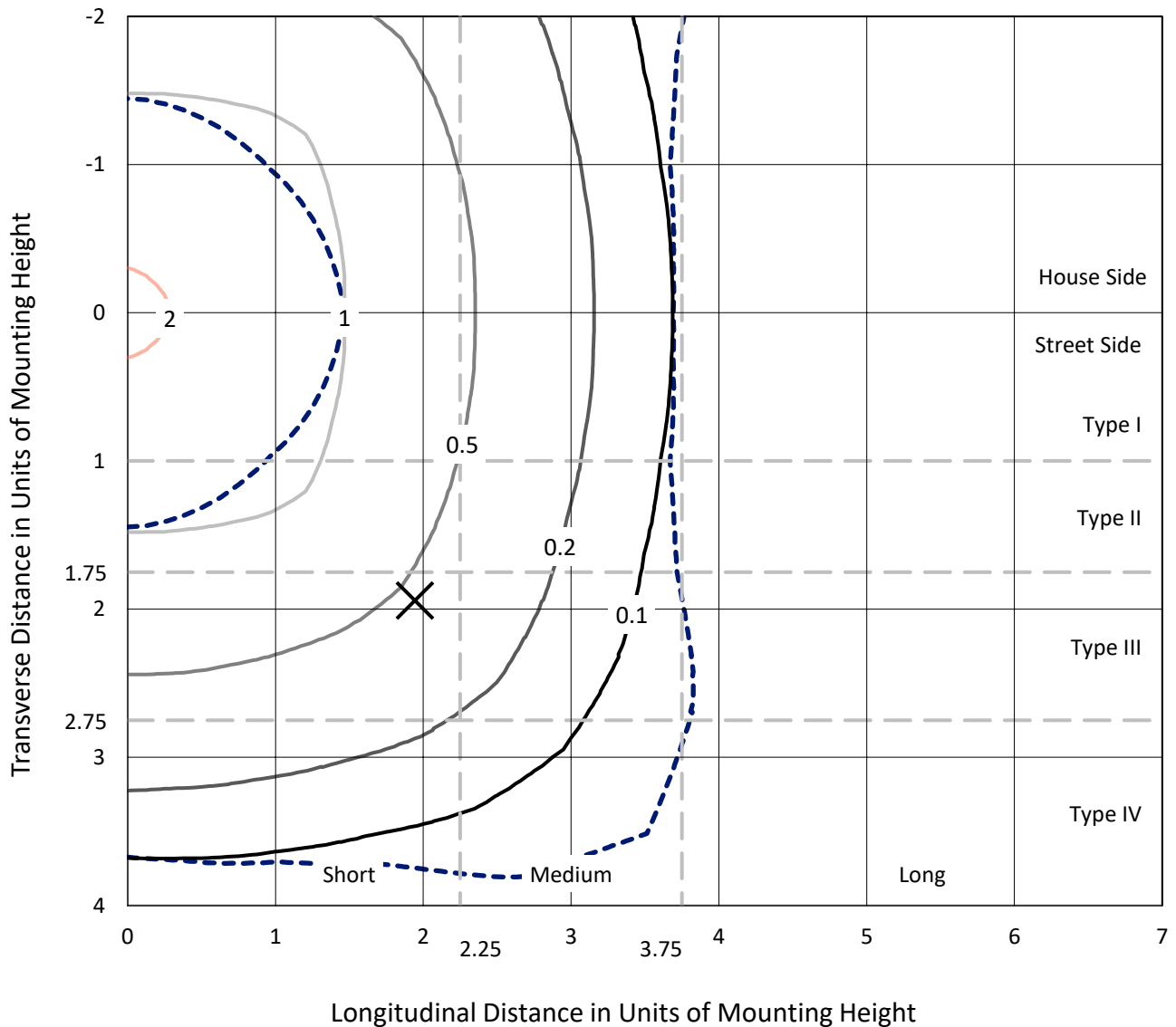
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

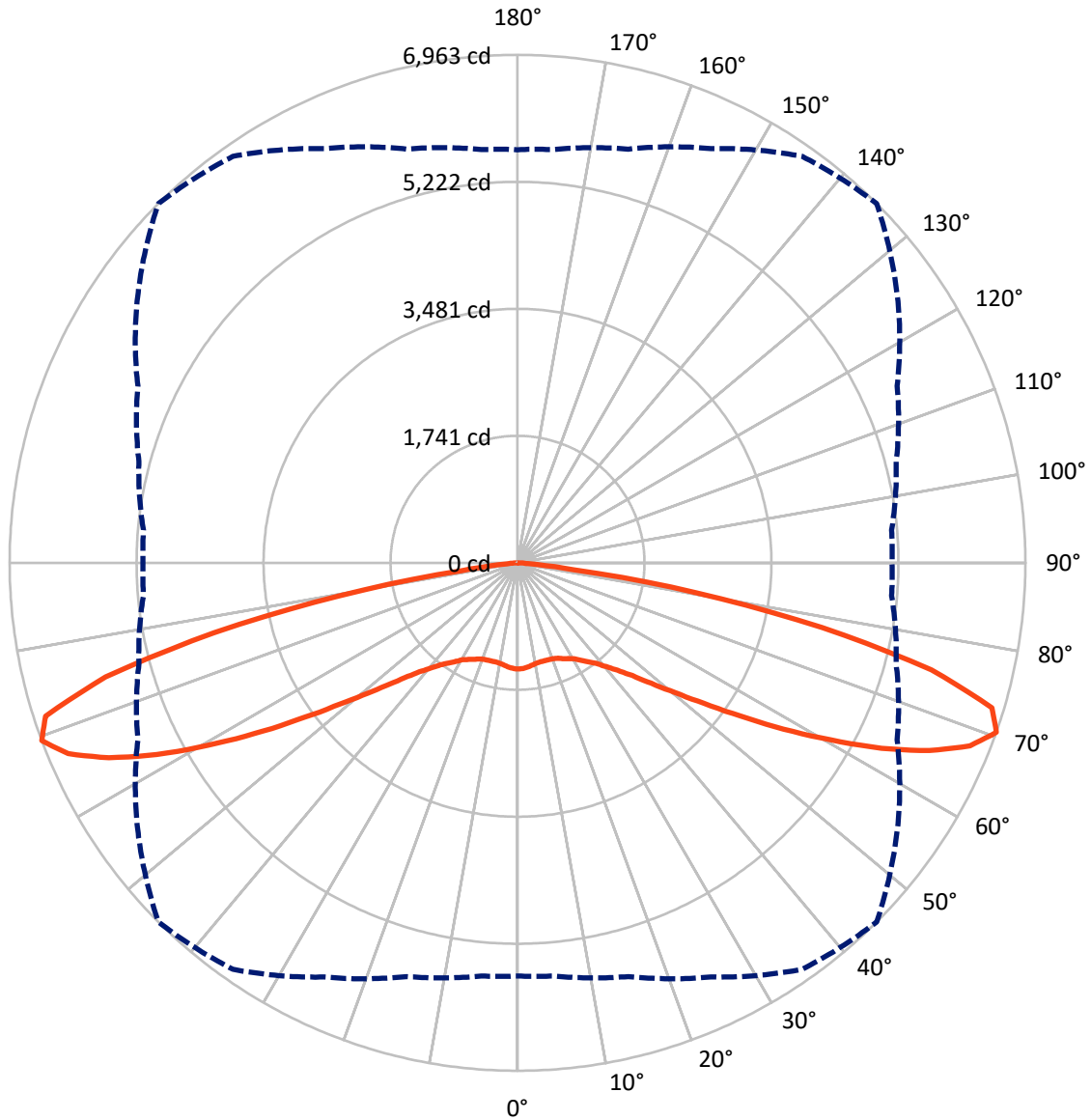
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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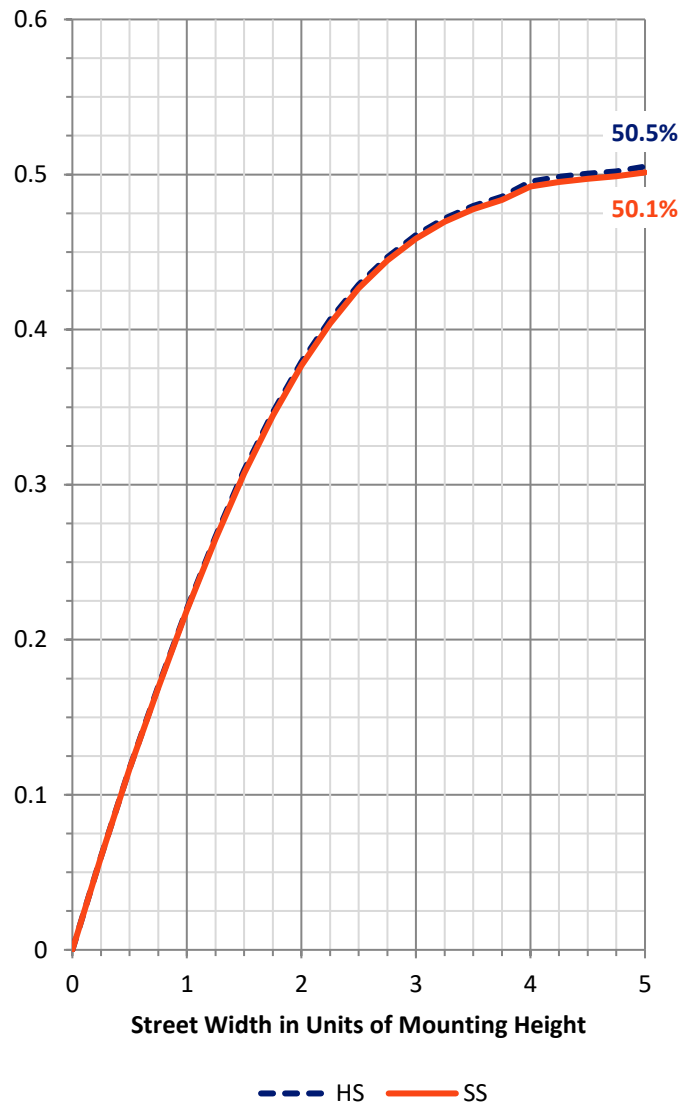
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8599.7	0.0	8599.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8599.7	0.0	8599.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	17199.4	0.0	17199.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.2	0.8
10°-20°	398.7	2.3
20°-30°	679.2	3.9
30°-40°	1052.8	6.1
40°-50°	1772.0	10.3
50°-60°	3224.1	18.7
60°-70°	5458.3	31.7
70°-80°	4224.9	24.6
80°-90°	253.2	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°	17199.4	100.0
0°-180°	17199.4	100.0

Coefficient of Utilization



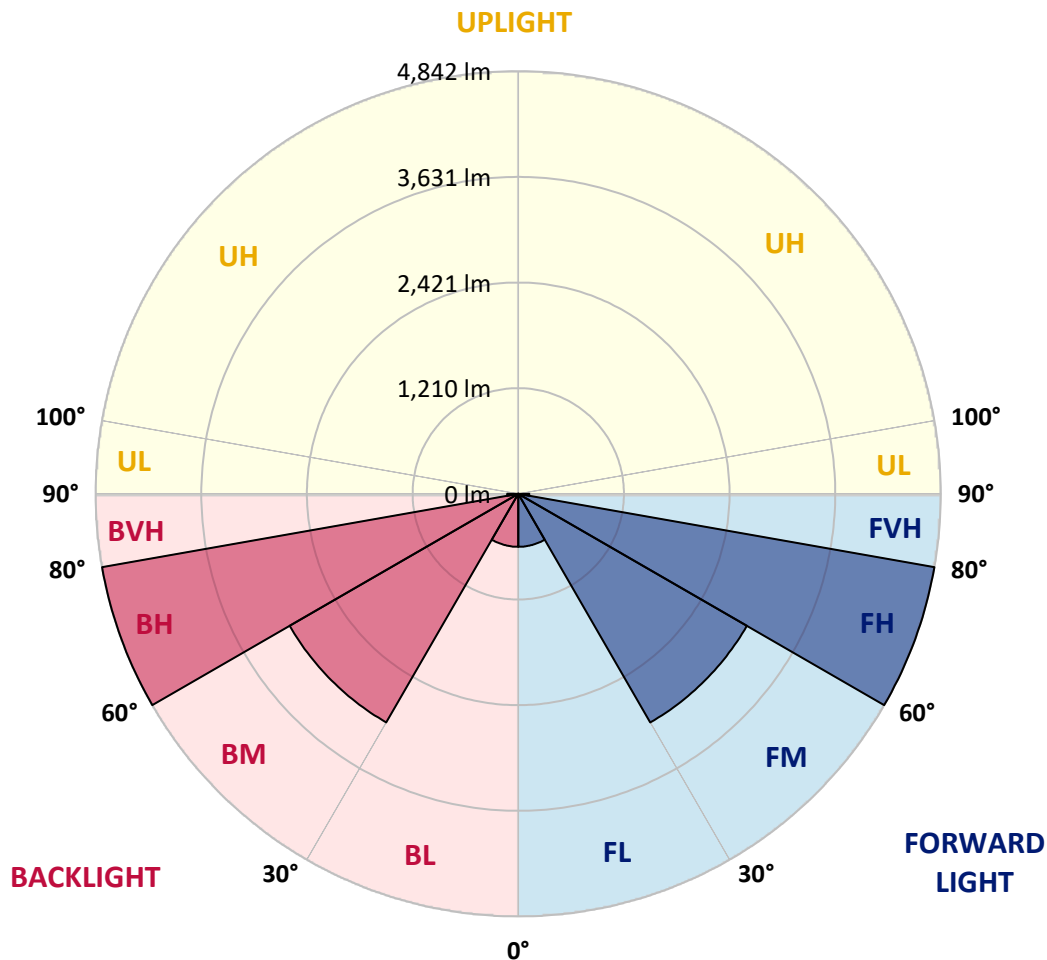
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	607.0	3.5			
FM (30°-60°)	3024.4	17.6			
FH (60°-80°)	4841.6	28.2			G2/5000
FVH (80°-90°)	126.6	0.7			G2/225
BL (0°-30°)	607.0	3.5	B2/1000		
BM (30°-60°)	3024.4	17.6	B3/5000		
BH (60°-80°)	4841.6	28.2	B4/5000		G2/5000
BVH (80°-90°)	126.6	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°	1456.1	1456.1	1456.1	1456.1	1456.1	1456.1	1456.1	1456.1	1456.1	1456.1	1456.1
2.5°	1452.5	1453.4	1453.4	1451.6	1450.7	1450.7	1449.8	1449.8	1452.5	1453.4	1454.3
5°	1439.8	1439.8	1439.8	1438.8	1437.0	1437.0	1435.2	1435.2	1436.2	1438.8	1437.0
7.5°	1422.6	1424.4	1424.4	1420.7	1418.0	1418.0	1417.1	1418.0	1418.9	1421.6	1420.7
10°	1417.1	1418.0	1413.5	1407.1	1402.5	1399.8	1400.7	1402.5	1407.1	1408.9	1409.8
12.5°	1420.7	1420.7	1412.5	1403.4	1395.3	1391.6	1390.8	1397.1	1405.3	1410.7	1412.5
15°	1425.2	1423.4	1413.5	1401.6	1393.4	1392.6	1391.6	1396.2	1408.0	1418.9	1419.8
17.5°	1428.0	1427.1	1414.3	1399.8	1395.3	1395.3	1394.4	1398.0	1410.7	1424.4	1425.2
20°	1437.0	1434.3	1419.8	1404.4	1400.7	1402.5	1399.8	1404.4	1418.0	1434.3	1438.0
22.5°	1455.2	1452.5	1438.0	1422.6	1420.7	1420.7	1419.8	1424.4	1438.8	1456.1	1458.9
25°	1477.1	1474.3	1460.7	1449.8	1451.6	1455.2	1453.4	1454.3	1466.2	1480.7	1485.2
27.5°	1506.1	1501.6	1489.7	1480.7	1486.1	1486.1	1486.1	1485.2	1492.5	1506.1	1510.6
30°	1541.5	1539.7	1527.0	1526.1	1530.6	1526.1	1526.1	1527.0	1527.9	1540.6	1545.2
32.5°	1587.8	1584.2	1577.8	1576.0	1588.8	1592.4	1579.7	1567.9	1574.2	1586.9	1589.6
35°	1664.2	1658.7	1649.6	1639.6	1649.6	1666.9	1639.6	1630.5	1646.9	1664.2	1666.0
37.5°	1767.7	1765.0	1750.5	1732.3	1731.4	1749.5	1721.3	1720.5	1751.3	1772.2	1775.0
40°	1897.6	1900.3	1882.2	1864.9	1855.8	1870.4	1848.6	1856.7	1886.7	1910.4	1908.5
42.5°	2080.2	2070.2	2042.1	2025.7	2015.7	2010.3	2004.8	2017.6	2051.1	2076.6	2096.6
45°	2293.6	2290.0	2254.6	2234.6	2212.8	2204.6	2202.8	2225.5	2266.4	2297.3	2300.1
47.5°	2535.3	2527.1	2504.4	2483.5	2475.4	2465.4	2456.3	2473.5	2514.4	2536.2	2542.6
50°	2784.2	2786.0	2786.0	2782.4	2790.5	2792.3	2767.8	2774.2	2796.9	2795.1	2793.3
52.5°	3068.5	3078.5	3125.7	3130.3	3169.3	3195.7	3151.2	3124.9	3116.7	3067.6	3071.2
55°	3402.8	3411.9	3482.7	3553.6	3659.0	3703.5	3609.9	3528.2	3470.0	3395.6	3399.2
57.5°	3819.8	3824.3	3891.5	4027.8	4194.9	4299.4	4134.9	3973.3	3855.2	3784.3	3756.1
60°	4268.5	4273.1	4371.2	4537.4	4797.2	4924.4	4720.9	4456.5	4307.5	4199.5	4206.7
62.5°	4807.2	4825.3	4913.5	5142.4	5457.6	5600.2	5330.4	4977.1	4775.4	4640.9	4646.4
65°	5384.0	5414.8	5511.1	5762.8	6053.5	6207.0	5876.3	5468.5	5217.8	5053.3	5070.6
67.5°	5758.3	5785.5	5924.5	6202.5	6564.9	6692.1	6265.1	5790.1	5476.6	5280.4	5244.1
70°	5662.9	5685.6	5870.9	6265.1	6802.0	6962.7	6357.8	5742.8	5374.0	5147.8	5133.3
72.5°	4998.8	4951.6	5222.3	5788.2	6531.2	6801.1	6066.2	5245.0	4780.8	4548.3	4521.0
75°	3312.9	3415.5	3815.2	4482.0	5525.7	5860.0	5177.7	4211.3	3627.2	3433.7	3403.7
77.5°	1107.3	1186.3	1541.5	2540.8	3767.1	4269.4	3772.5	2754.2	1948.5	1569.7	1577.0
80°	293.4	289.8	375.1	698.5	1627.9	2472.6	1894.9	932.9	510.5	369.7	350.6
82.5°	105.4	118.1	151.7	193.5	431.5	768.5	542.3	261.6	191.7	141.7	137.2
85°	46.4	45.4	65.4	77.2	108.1	143.5	127.2	110.8	97.2	64.5	60.0
87.5°	10.0	10.0	15.4	11.8	19.1	19.1	23.6	28.2	29.0	19.1	15.4
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)