

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: P647201

Luminaire Tested: **GALN-SA1D-835-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-835-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4210.2 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

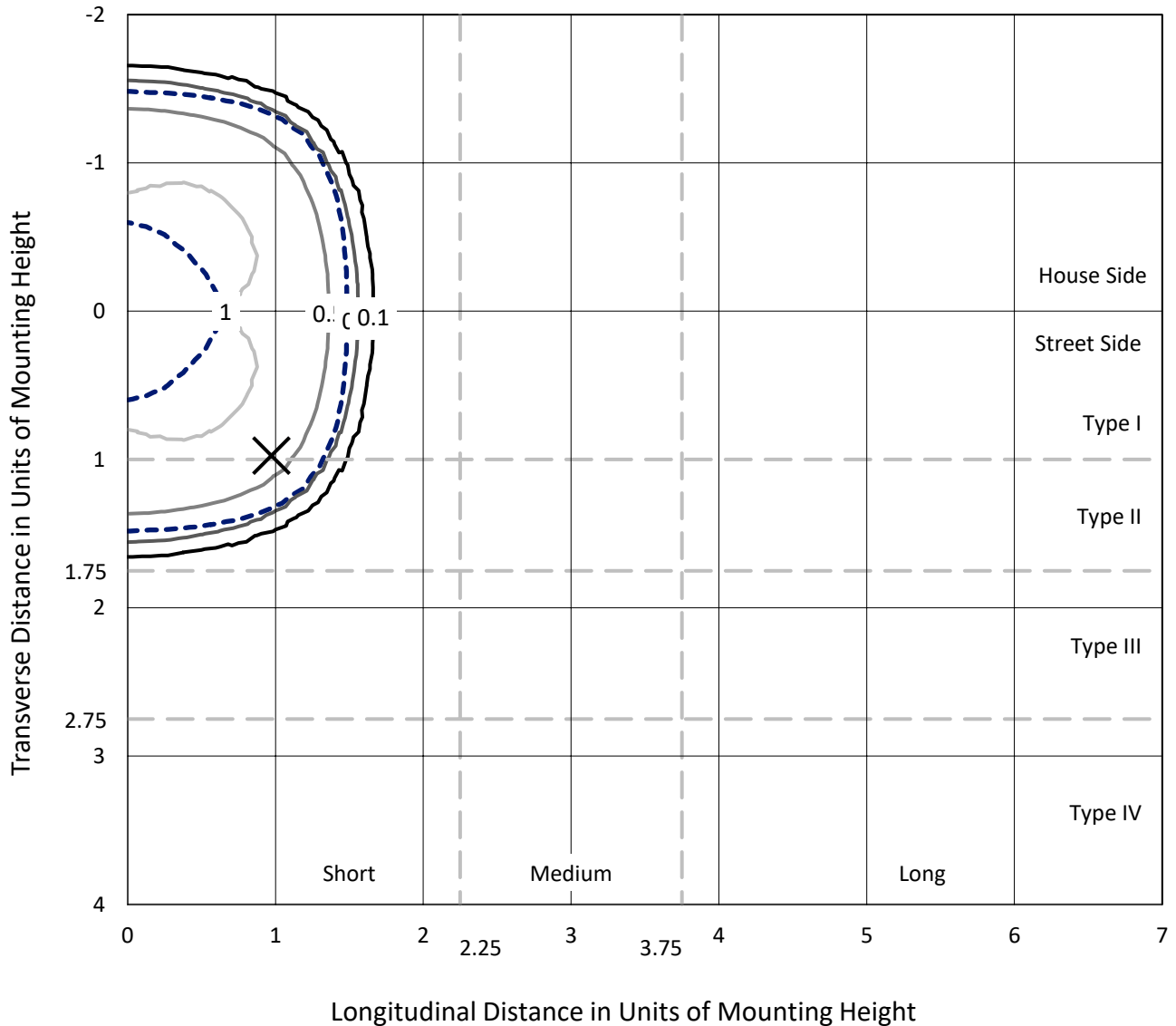
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

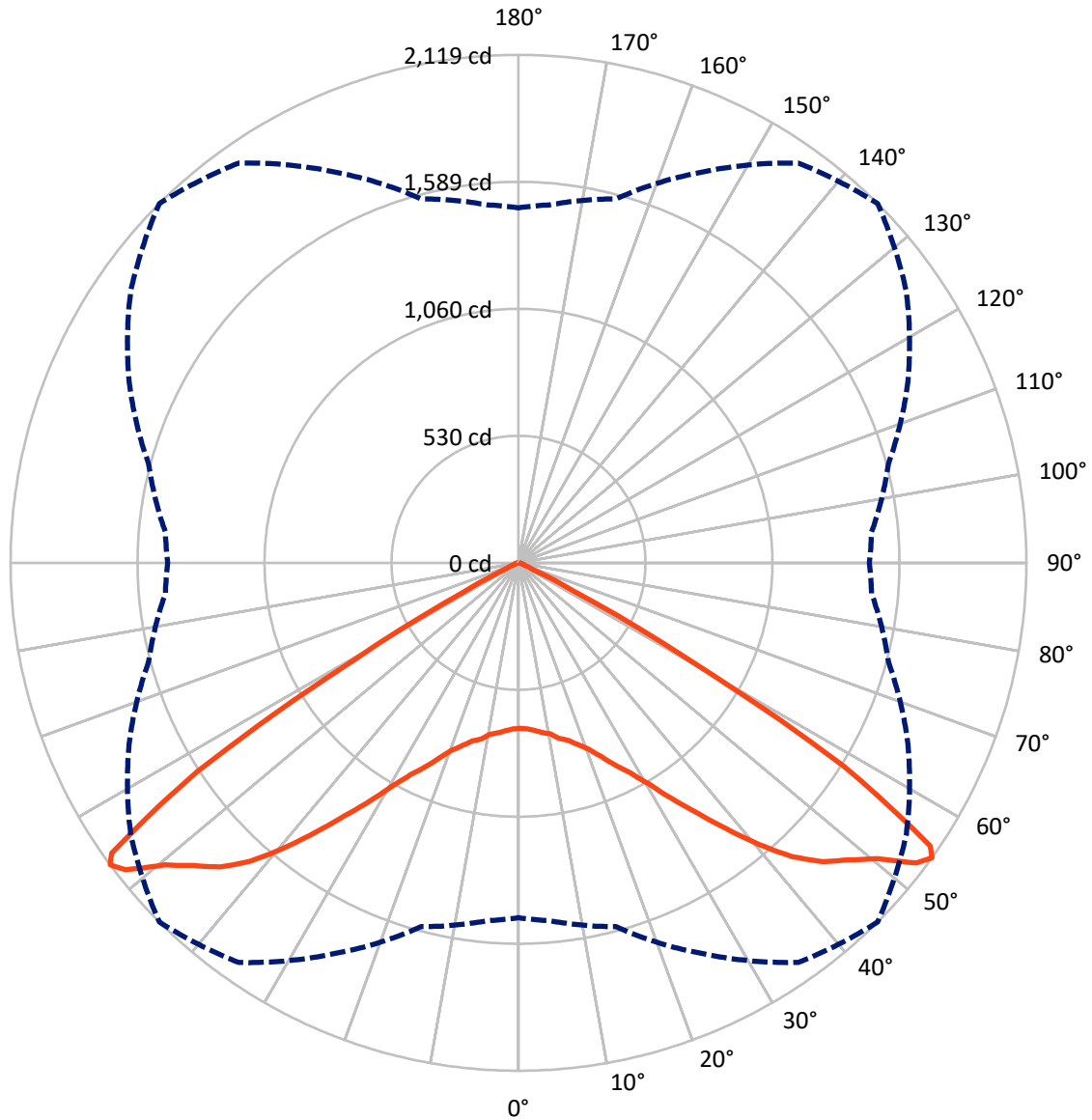
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2105.1	0.0	2105.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2105.1	0.0	2105.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	4210.2	0.0	4210.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	1.6
10°-20°	218.8	5.2
20°-30°	428.9	10.2
30°-40°	771.2	18.3
40°-50°	1320.1	31.4
50°-60°	1277.3	30.3
60°-70°	109.3	2.6
70°-80°	13.0	0.3
80°-90°	4.1	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°	4210.2	100.0
0°-180°	4210.2	100.0

Coefficient of Utilization

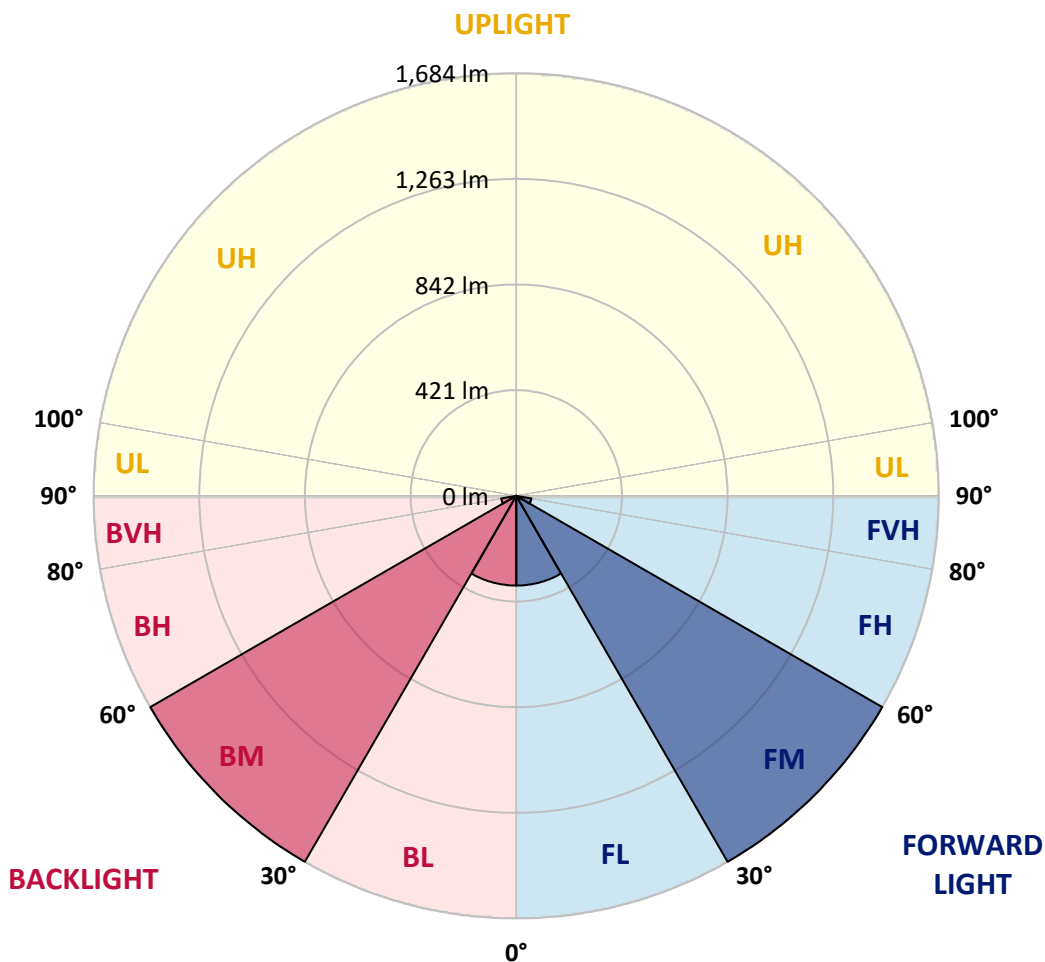


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	357.6	8.5			
FM (30°-60°)	1684.3	40.0			
FH (60°-80°)	61.1	1.5			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	357.6	8.5	B1/500		
BM (30°-60°)	1684.3	40.0	B2/2500		
BH (60°-80°)	61.1	1.5	B0/110		G0/660
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	690.4	690.4	690.4	690.4	690.4	690.4	690.4	690.4	690.4	690.4	690.4
2.5°	693.7	697.7	695.0	697.0	697.0	693.7	695.7	687.7	693.0	689.0	689.7
5°	704.3	703.7	703.7	704.3	701.6	703.0	700.3	697.7	695.7	693.0	701.0
7.5°	717.7	717.7	713.0	714.3	713.0	715.0	709.7	704.3	702.4	700.3	699.0
10°	730.4	729.1	727.0	733.0	728.3	725.7	723.0	719.7	712.4	709.7	707.0
12.5°	749.0	748.4	745.7	751.7	749.0	751.7	741.7	733.0	731.7	723.0	727.7
15°	771.0	777.0	772.4	772.4	771.0	767.7	763.7	759.7	747.7	744.4	745.0
17.5°	799.8	797.7	798.4	798.4	805.1	796.4	788.4	778.4	772.4	770.4	763.7
20°	827.1	829.7	829.0	833.7	837.7	828.4	819.7	818.4	801.7	804.4	795.1
22.5°	875.1	873.1	876.4	879.8	877.1	875.8	867.8	857.8	843.1	836.4	835.1
25°	925.8	922.5	916.4	924.5	928.5	934.4	919.1	913.8	891.1	881.1	881.7
27.5°	969.1	973.8	980.5	983.8	993.9	991.8	981.2	963.8	946.5	935.1	927.8
30°	1028.5	1031.2	1042.5	1047.2	1064.5	1069.2	1052.5	1032.5	1001.8	987.1	978.5
32.5°	1083.2	1101.8	1101.2	1124.5	1152.6	1171.9	1141.9	1111.2	1080.5	1063.2	1047.8
35°	1171.9	1168.5	1187.9	1212.6	1258.0	1280.0	1247.3	1211.9	1165.3	1137.2	1125.2
37.5°	1254.6	1255.9	1281.9	1321.3	1373.4	1407.4	1378.7	1320.7	1272.6	1236.6	1219.9
40°	1374.7	1377.4	1404.0	1448.7	1507.4	1544.1	1510.7	1452.1	1388.0	1360.0	1360.0
42.5°	1515.4	1526.8	1544.1	1582.8	1635.5	1676.2	1646.2	1600.1	1535.4	1499.4	1504.8
45°	1660.1	1665.5	1676.8	1734.2	1758.9	1778.9	1750.9	1729.5	1686.2	1642.1	1634.8
47.5°	1795.6	1797.5	1830.9	1848.9	1868.2	1851.6	1869.6	1841.5	1792.9	1750.2	1741.5
50°	1855.6	1852.3	1899.6	1954.3	1968.9	1939.6	1924.3	1905.6	1831.6	1780.2	1757.5
52.5°	1680.9	1700.2	1788.2	1940.3	2055.0	2079.7	1990.3	1904.3	1766.2	1666.1	1650.8
54°	1480.7	1498.7	1571.4	1796.9	2035.6	2119.0	1975.0	1792.2	1597.5	1478.7	1463.3
55°	1282.6	1262.6	1394.7	1624.8	1945.0	2084.3	1914.3	1647.5	1424.7	1316.0	1294.6
57.5°	694.4	697.7	809.1	1026.5	1366.6	1598.1	1411.4	1114.5	841.7	719.7	709.0
60°	220.1	225.4	274.1	414.8	653.0	779.7	668.3	447.6	309.5	248.1	238.1
62.5°	68.7	71.3	78.1	116.0	178.8	255.5	200.1	120.0	89.3	82.1	83.4
65°	42.0	42.0	42.7	45.3	53.3	62.0	60.1	52.7	50.7	49.3	48.7
67.5°	27.3	26.7	28.0	30.0	31.3	32.0	34.0	36.0	35.3	34.0	34.0
70°	16.7	16.0	17.3	20.0	20.7	22.0	24.0	26.7	26.0	24.7	25.4
72.5°	9.3	9.3	10.0	12.0	14.0	15.3	17.3	19.3	20.0	19.3	19.3
75°	3.4	4.0	5.3	7.4	8.7	10.6	12.7	14.6	16.7	15.3	14.6
77.5°	1.3	1.3	2.7	4.7	6.7	8.7	12.0	14.0	15.3	14.0	12.7
80°	0.7	0.7	2.0	4.0	6.0	8.0	10.0	12.0	12.7	11.4	10.0
82.5°	0.7	0.7	2.0	4.0	6.0	7.4	10.6	12.0	13.3	12.0	10.0
85°	0.0	0.7	2.0	4.0	5.3	6.0	6.0	4.0	3.4	2.0	2.0
87.5°	0.0	0.0	0.7	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)