

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: P651166

Luminaire Tested: **GALN-SA1D-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651166
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-SA1D-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6889.5 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

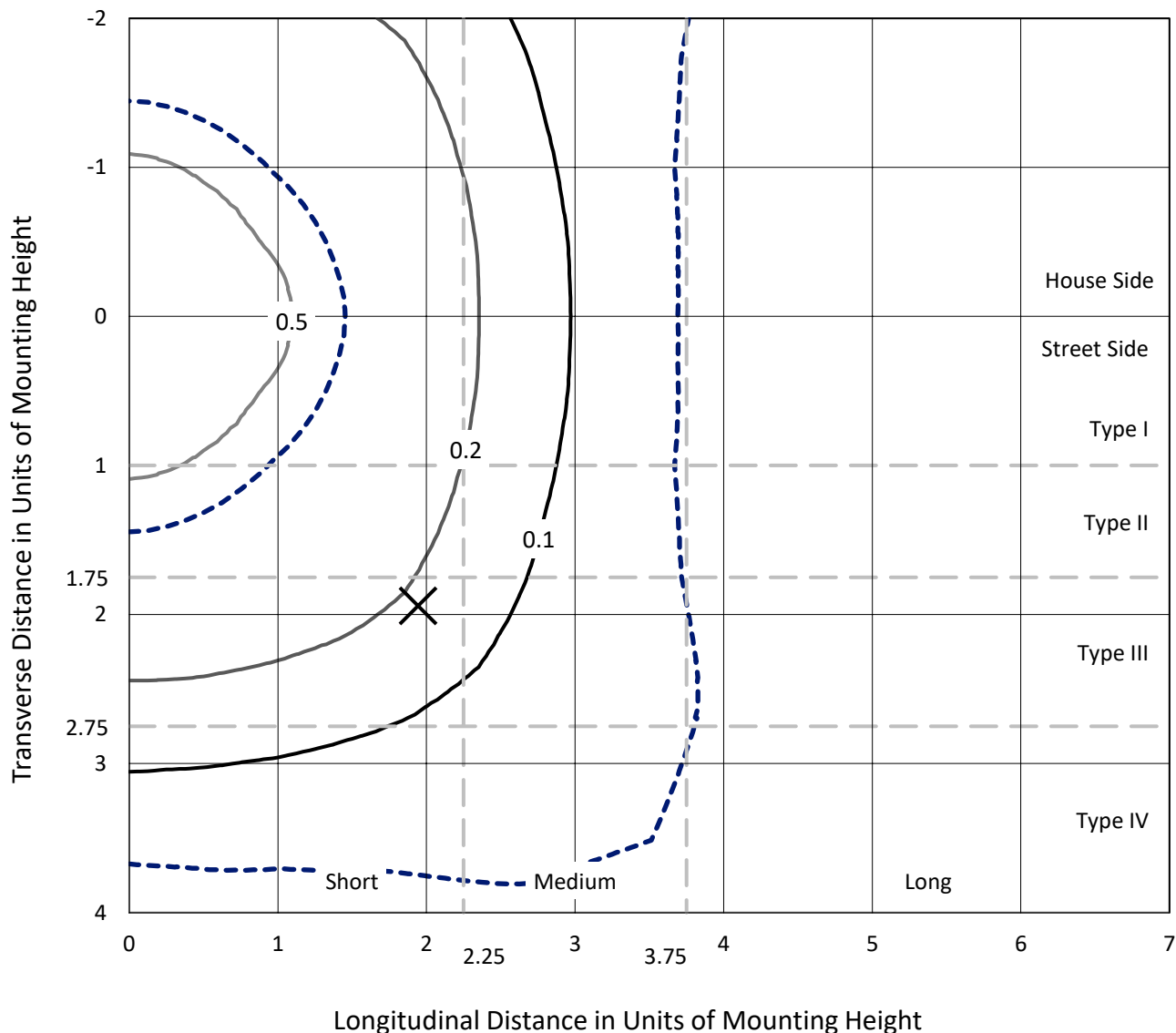
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

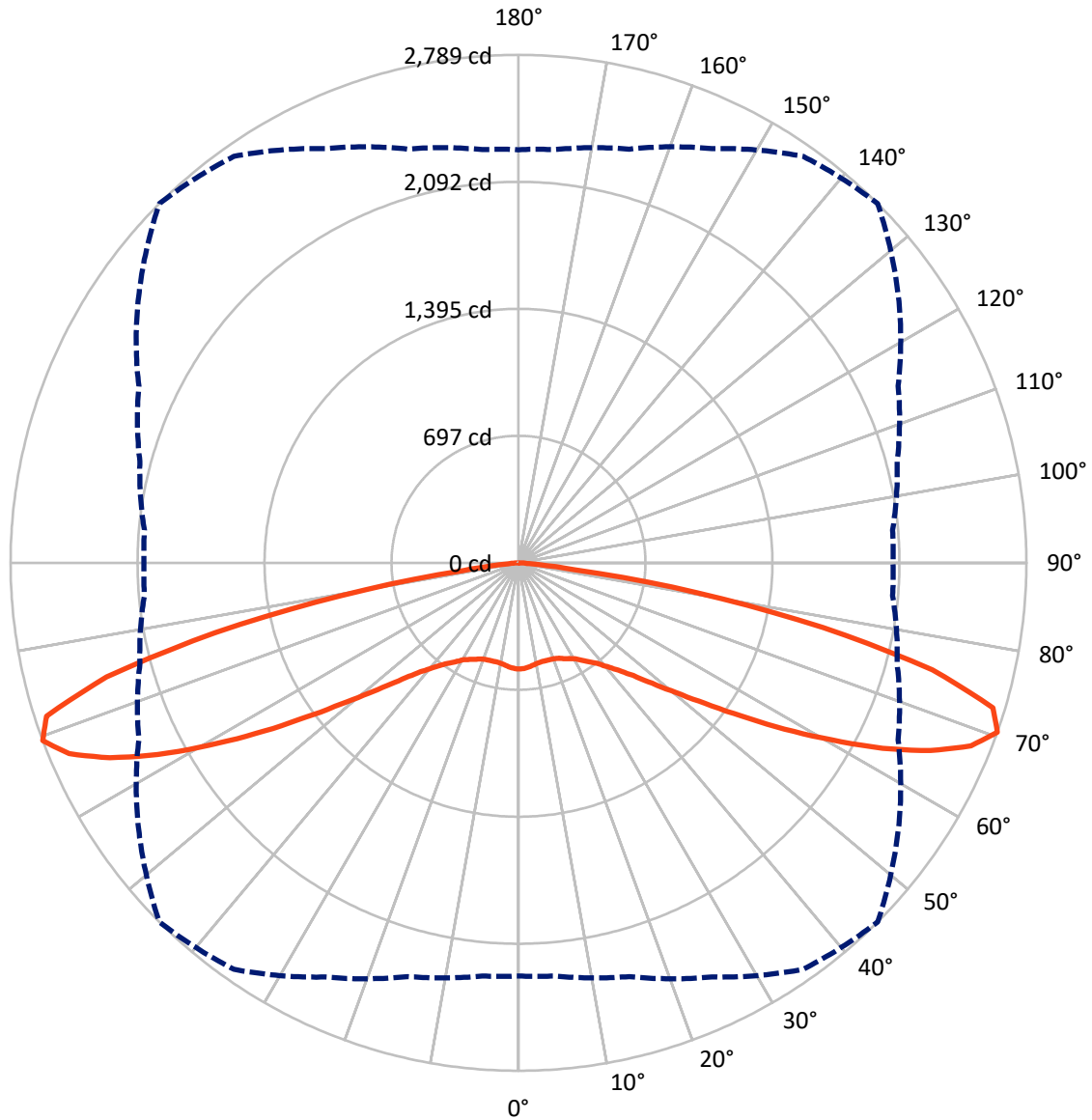
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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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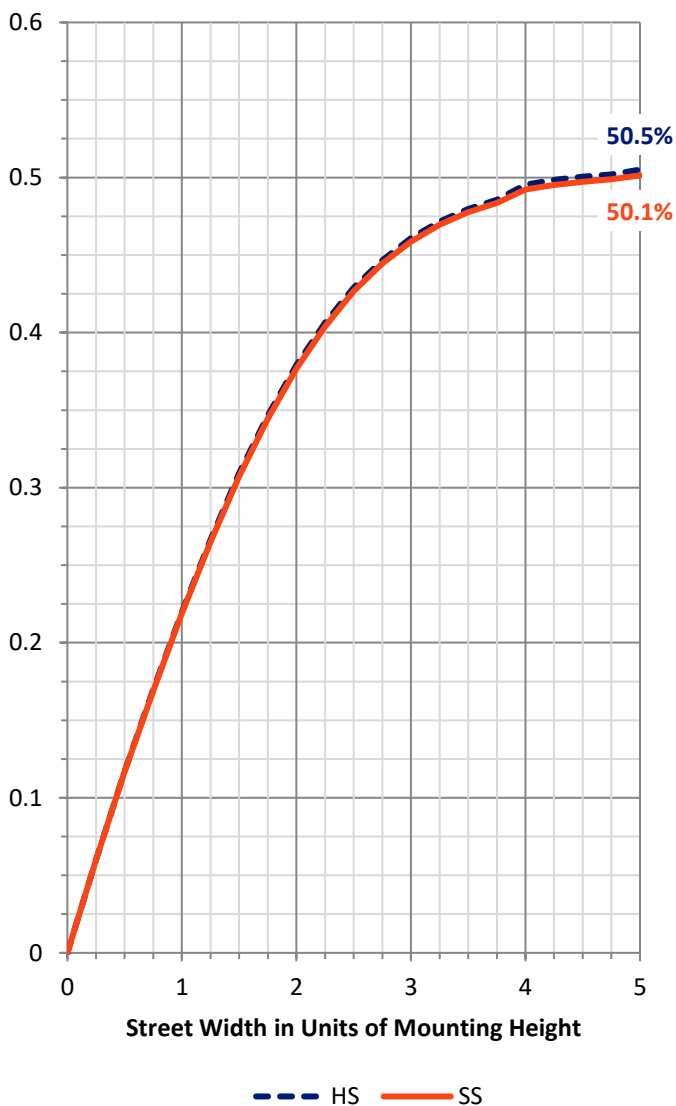
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3444.7	0.0	3444.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3444.7	0.0	3444.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	6889.5	0.0	6889.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	0.8
10°-20°	159.7	2.3
20°-30°	272.1	3.9
30°-40°	421.7	6.1
40°-50°	709.8	10.3
50°-60°	1291.5	18.7
60°-70°	2186.4	31.7
70°-80°	1692.4	24.6
80°-90°	101.4	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°	6889.5	100.0
0°-180°	6889.5	100.0



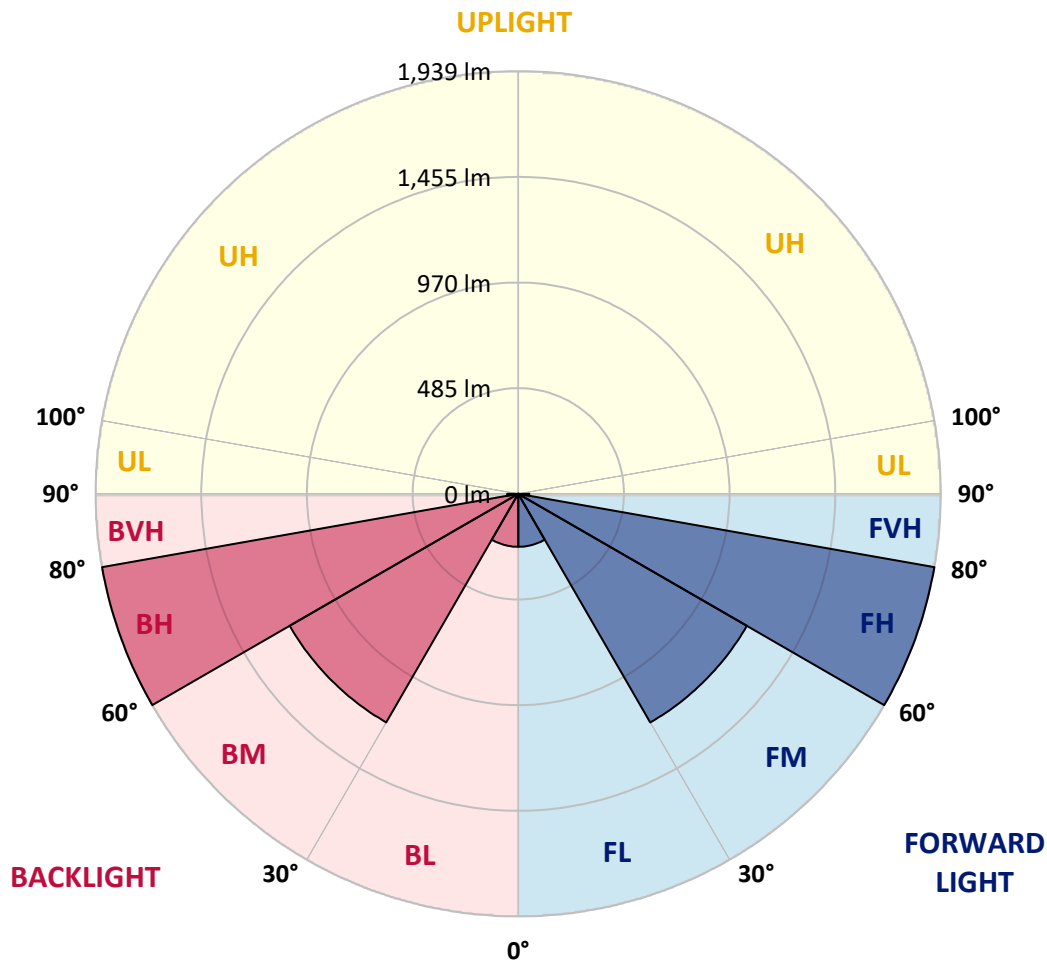
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	243.2	3.5			
FM (30°-60°)	1211.5	17.6			
FH (60°-80°)	1939.4	28.1			G2/5000
FVH (80°-90°)	50.7	0.7			G1/100
BL (0°-30°)	243.2	3.5	B1/500		
BM (30°-60°)	1211.5	17.6	B2/2500		
BH (60°-80°)	1939.4	28.1	B3/2500		G2/5000
BVH (80°-90°)	50.7	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3
2.5°	581.8	582.2	582.2	581.5	581.1	581.1	580.7	580.7	581.8	582.2	582.6
5°	576.8	576.8	576.8	576.3	575.7	575.7	574.9	574.9	575.2	576.3	575.7
7.5°	569.8	570.5	570.5	569.1	568.0	568.0	567.6	568.0	568.3	569.4	569.1
10°	567.6	568.0	566.2	563.6	561.8	560.7	561.1	561.8	563.6	564.4	564.7
12.5°	569.1	569.1	565.8	562.2	558.9	557.4	557.1	559.6	562.9	565.1	565.8
15°	570.9	570.2	566.2	561.5	558.2	557.8	557.4	559.3	564.0	568.3	568.7
17.5°	572.0	571.6	566.6	560.7	558.9	558.9	558.5	560.0	565.1	570.5	570.9
20°	575.7	574.6	568.7	562.5	561.1	561.8	560.7	562.5	568.0	574.6	576.0
22.5°	582.9	581.8	576.0	569.8	569.1	569.1	568.7	570.5	576.3	583.3	584.4
25°	591.6	590.6	585.1	580.7	581.5	582.9	582.2	582.6	587.3	593.1	594.9
27.5°	603.2	601.5	596.8	593.1	595.3	595.3	595.3	594.9	597.9	603.2	605.1
30°	617.5	616.8	611.7	611.3	613.1	611.3	611.3	611.7	612.0	617.1	619.0
32.5°	636.0	634.6	632.0	631.3	636.4	637.9	632.8	628.1	630.6	635.7	636.8
35°	666.6	664.4	660.8	656.8	660.8	667.7	656.8	653.1	659.7	666.6	667.3
37.5°	708.1	707.0	701.1	693.9	693.5	700.8	689.5	689.2	701.6	709.9	711.0
40°	760.1	761.2	754.0	747.0	743.4	749.2	740.5	743.8	755.7	765.2	764.5
42.5°	833.3	829.2	818.0	811.4	807.4	805.3	803.1	808.1	821.6	831.8	839.8
45°	918.8	917.3	903.1	895.1	886.4	883.1	882.4	891.5	907.9	920.2	921.3
47.5°	1015.6	1012.3	1003.1	994.8	991.5	987.5	983.9	990.8	1007.2	1015.9	1018.5
50°	1115.3	1116.0	1116.0	1114.5	1117.8	1118.5	1108.7	1111.2	1120.4	1119.6	1118.9
52.5°	1229.1	1233.2	1252.1	1253.8	1269.5	1280.1	1262.3	1251.7	1248.5	1228.8	1230.2
55°	1363.0	1366.7	1395.1	1423.5	1465.7	1483.5	1446.0	1413.2	1390.0	1360.1	1361.6
57.5°	1530.0	1531.9	1558.8	1613.4	1680.3	1722.2	1656.3	1591.6	1544.2	1515.9	1504.5
60°	1709.8	1711.6	1751.0	1817.5	1921.6	1972.5	1891.0	1785.1	1725.5	1682.2	1685.0
62.5°	1925.6	1932.9	1968.2	2059.9	2186.1	2243.2	2135.1	1993.6	1912.9	1859.0	1861.2
65°	2156.7	2169.0	2207.5	2308.4	2424.8	2486.3	2353.9	2190.5	2090.1	2024.2	2031.1
67.5°	2306.5	2317.5	2373.1	2484.5	2629.6	2680.6	2509.6	2319.3	2193.7	2115.1	2100.6
70°	2268.3	2277.4	2351.7	2509.6	2724.7	2789.0	2546.7	2300.4	2152.6	2062.0	2056.2
72.5°	2002.3	1983.4	2091.9	2318.6	2616.2	2724.3	2429.9	2101.0	1915.0	1821.9	1810.9
75°	1327.0	1368.1	1528.3	1795.3	2213.4	2347.3	2074.1	1686.9	1452.9	1375.5	1363.4
77.5°	443.5	475.2	617.5	1017.7	1508.9	1710.2	1511.1	1103.2	780.5	628.7	631.7
80°	117.5	116.1	150.3	279.8	652.0	990.4	759.0	373.7	204.5	148.1	140.4
82.5°	42.2	47.3	60.8	77.5	172.8	307.8	217.2	104.8	76.8	56.8	54.9
85°	18.6	18.2	26.2	30.9	43.3	57.5	51.0	44.4	38.9	25.8	24.1
87.5°	4.0	4.0	6.2	4.7	7.7	7.7	9.4	11.3	11.6	7.7	6.2
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)