

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: P651192

Luminaire Tested: **GALN-SA1D-840-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
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-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6571.6 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

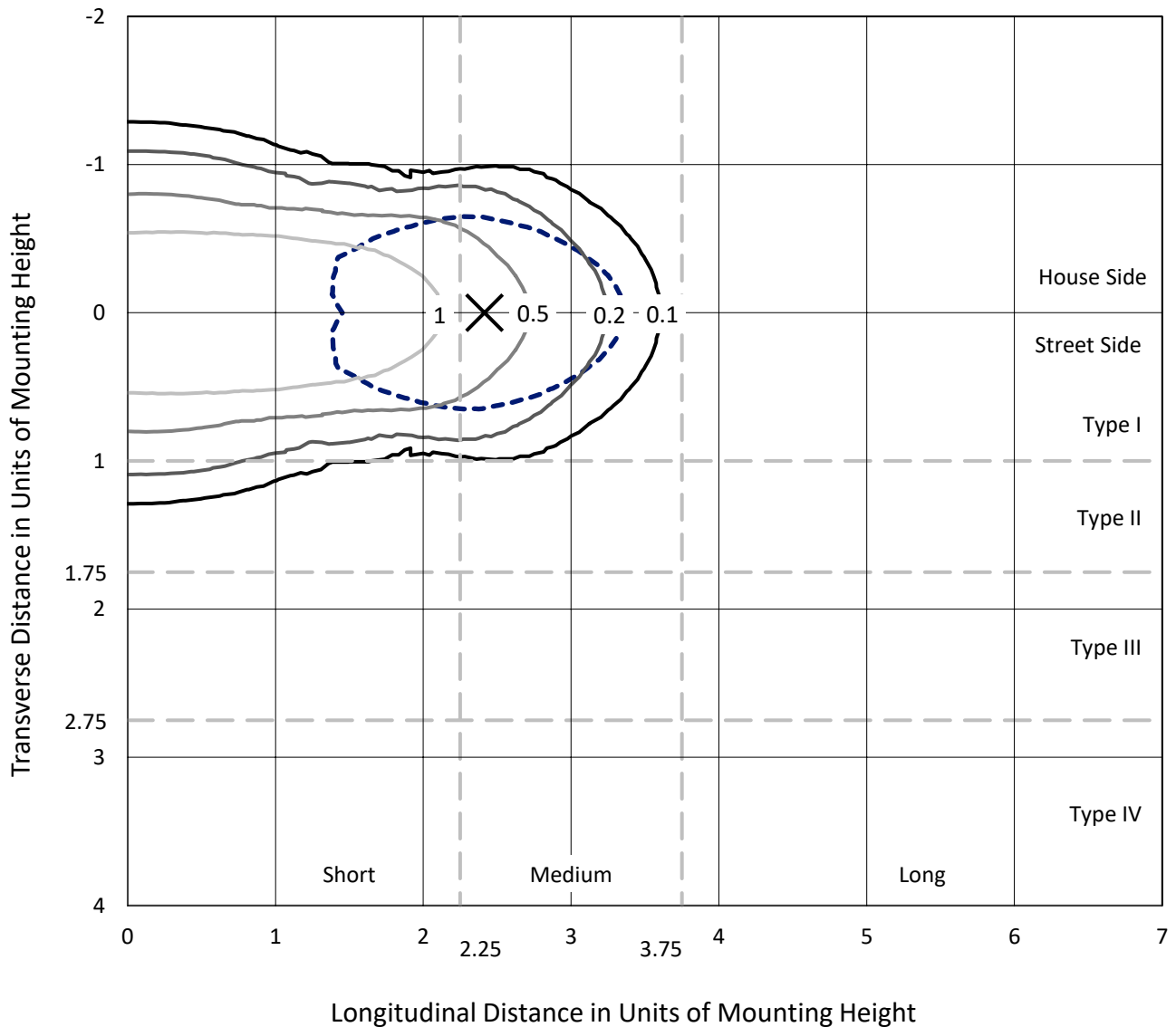
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

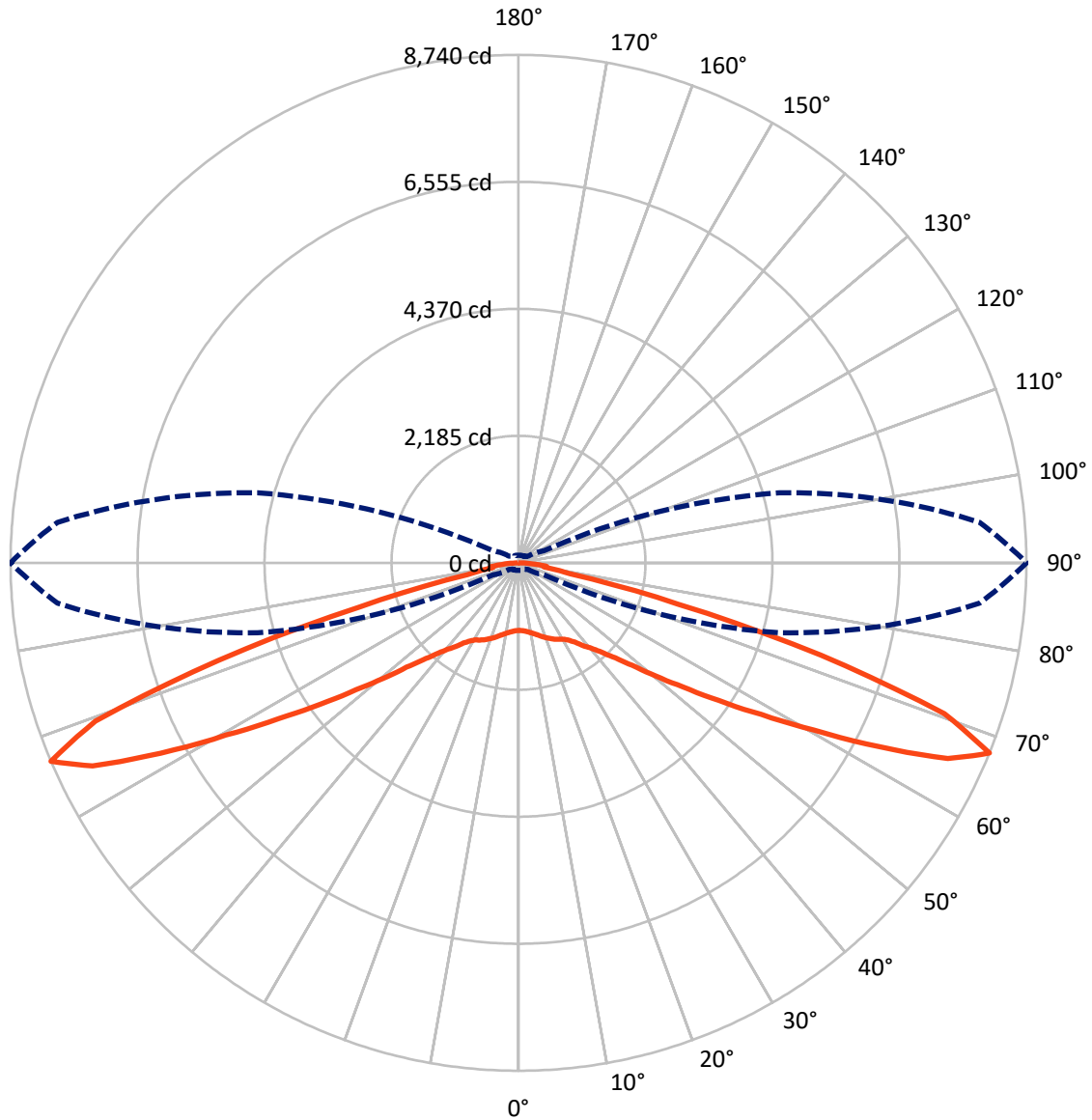
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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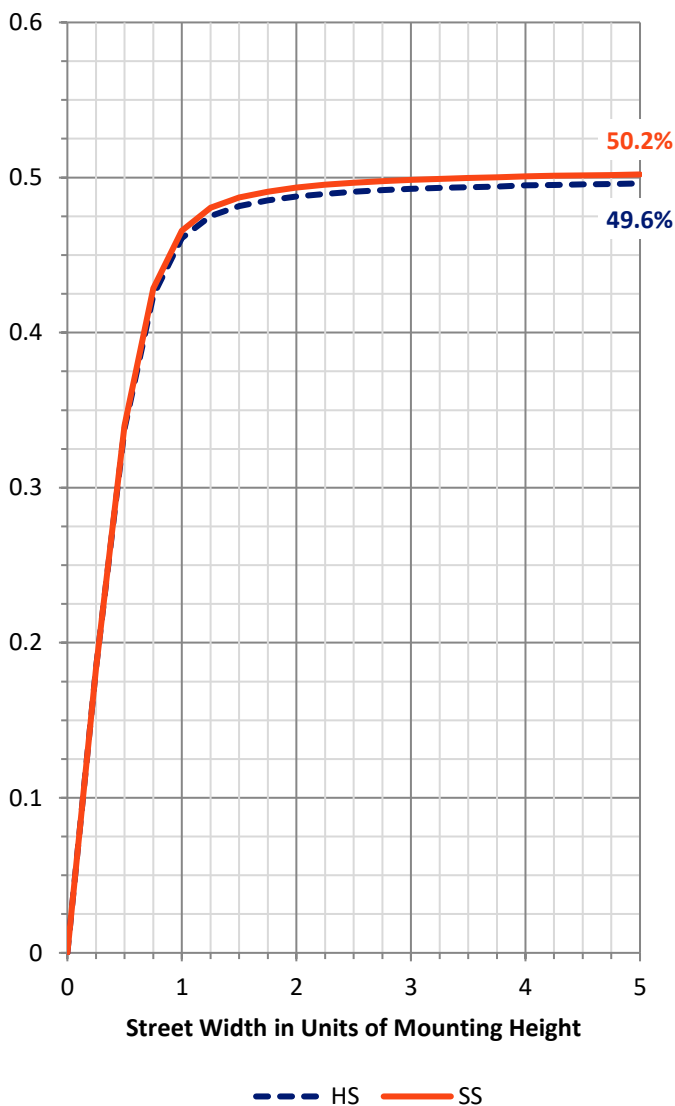
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3285.8	0.0	3285.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3285.8	0.0	3285.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	6571.6	0.0	6571.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	1.8
10°-20°	371.1	5.6
20°-30°	621.1	9.5
30°-40°	841.5	12.8
40°-50°	1065.9	16.2
50°-60°	1331.5	20.3
60°-70°	1565.1	23.8
70°-80°	598.7	9.1
80°-90°	60.7	0.9
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°	6571.6	100.0
0°-180°	6571.6	100.0

Coefficient of Utilization



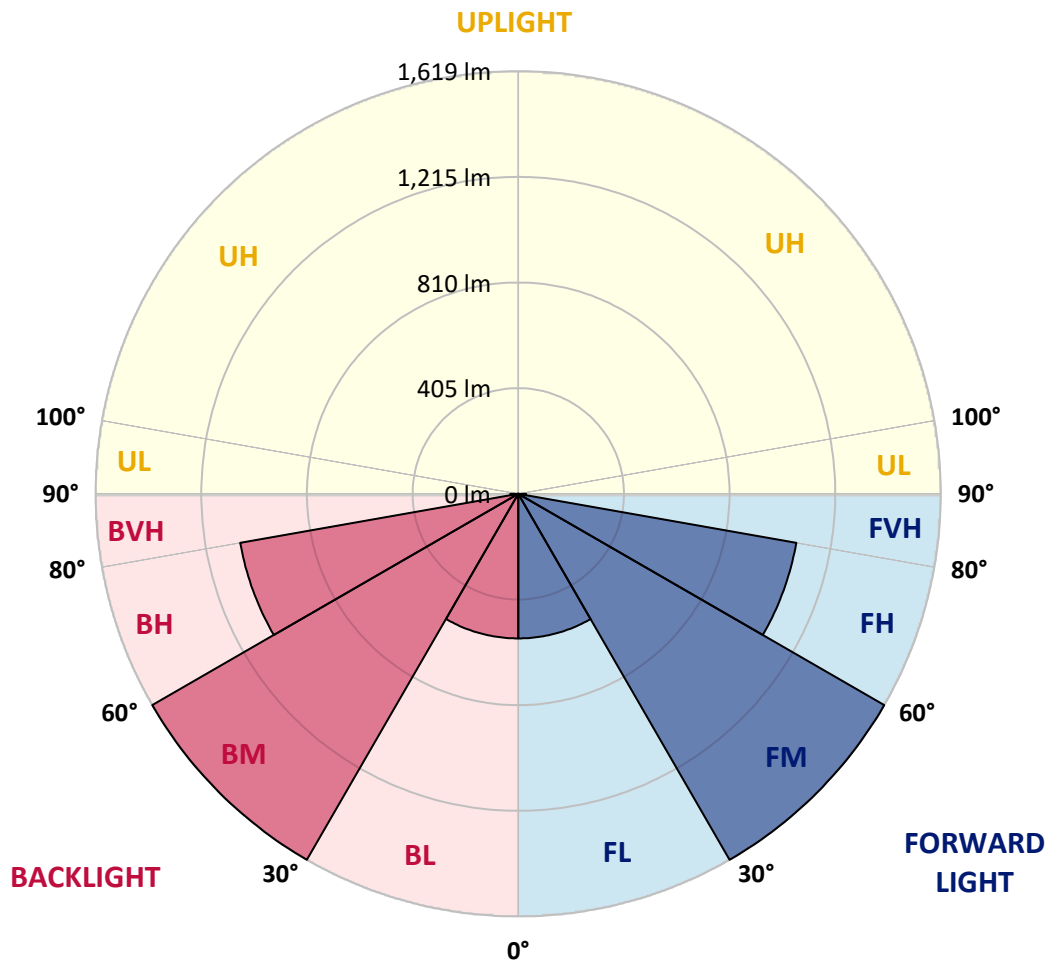
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	554.1	8.4			
FM (30°-60°)	1619.4	24.6			
FH (60°-80°)	1081.9	16.5			G1/1800
FVH (80°-90°)	30.3	0.5			G1/100
BL (0°-30°)	554.1	8.4	B2/1000		
BM (30°-60°)	1619.4	24.6	B2/2500		
BH (60°-80°)	1081.9	16.5	B3/2500		G3/2500
BVH (80°-90°)	30.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°	
0°	1163.4	1163.4	1163.4	1163.4	1163.4	1163.4	1163.4	1163.4	1163.4	1163.4	1163.4	1163.4
2.5°	1178.3	1177.6	1177.9	1177.6	1178.7	1177.9	1173.5	1169.9	1167.0	1167.4	1167.4	1166.3
5°	1203.4	1203.8	1204.1	1202.3	1204.8	1203.4	1196.5	1190.7	1184.9	1182.7	1182.7	1181.9
7.5°	1224.2	1225.9	1227.0	1228.9	1233.2	1233.2	1229.6	1221.2	1208.5	1201.2	1201.2	1200.9
10°	1244.8	1246.4	1249.6	1255.4	1262.7	1269.7	1268.1	1256.9	1240.6	1228.1	1228.1	1225.3
12.5°	1252.2	1254.0	1264.9	1281.6	1298.0	1311.5	1311.5	1302.4	1281.3	1262.3	1262.3	1256.9
15°	1226.7	1230.0	1249.6	1285.3	1328.2	1357.7	1364.3	1351.5	1328.9	1299.8	1299.8	1293.3
17.5°	1176.1	1184.1	1212.9	1265.6	1336.9	1398.1	1417.0	1410.9	1381.7	1344.6	1344.6	1336.9
20°	1121.9	1130.6	1161.2	1231.1	1329.7	1421.7	1476.7	1478.1	1442.1	1388.2	1388.2	1377.0
22.5°	1062.2	1068.7	1108.1	1189.9	1307.8	1427.2	1528.0	1553.1	1504.4	1431.9	1431.9	1415.9
25°	995.2	1002.6	1043.7	1132.1	1266.7	1421.0	1574.9	1630.3	1569.5	1478.5	1478.5	1458.1
27.5°	931.2	934.1	978.2	1068.1	1212.5	1405.0	1609.5	1701.2	1641.5	1517.1	1517.1	1491.3
30°	869.7	876.7	915.6	1004.3	1150.2	1373.7	1639.4	1782.0	1719.0	1557.4	1557.4	1524.4
32.5°	804.6	812.9	855.1	945.0	1088.1	1326.8	1657.5	1870.4	1827.2	1623.0	1623.0	1587.6
35°	742.0	747.5	790.0	877.3	1027.3	1272.2	1660.8	1970.1	1966.5	1722.3	1722.3	1675.4
37.5°	677.9	685.9	728.9	812.6	962.9	1214.3	1644.4	2076.0	2134.6	1860.2	1860.2	1809.7
40°	616.5	623.3	665.6	750.0	889.7	1143.8	1605.5	2172.8	2330.7	2002.2	2002.2	1930.4
42.5°	549.5	551.3	597.5	683.4	818.0	1061.8	1549.5	2259.1	2549.5	2192.5	2192.5	2103.3
45°	473.4	478.2	521.1	605.5	735.8	970.2	1473.4	2330.4	2826.8	2456.3	2456.3	2334.8
47.5°	397.4	401.4	440.7	524.0	645.9	865.0	1356.2	2393.0	3111.3	2791.4	2791.4	2632.1
50°	323.1	325.3	357.3	431.2	544.7	754.4	1211.0	2413.0	3433.0	3265.9	3265.9	3062.5
52.5°	255.5	258.7	283.1	340.9	436.6	623.7	1054.2	2363.5	3808.6	3828.6	3828.6	3541.8
55°	207.1	208.1	226.3	269.0	341.4	486.9	865.0	2225.6	4212.5	4549.4	4549.4	4183.7
57.5°	178.3	179.0	189.2	212.9	262.7	367.2	671.0	1964.7	4575.3	5394.0	5394.0	4923.9
60°	161.9	162.3	168.1	181.9	208.1	281.7	480.7	1596.4	4933.3	6334.0	6334.0	5843.8
62.5°	151.7	151.7	155.8	163.4	176.1	216.1	348.3	1151.7	5178.6	7287.8	7287.8	6977.7
65°	142.0	142.0	144.8	150.3	157.2	176.9	257.3	751.1	5172.4	7982.4	7982.4	8118.2
67.5°	130.6	130.6	132.8	138.3	142.3	152.1	198.7	492.0	4646.2	7967.1	7967.1	8740.4
70°	117.2	117.2	120.1	124.8	128.1	134.3	156.8	336.6	3413.4	6802.7	6802.7	7773.2
72.5°	103.7	104.1	105.9	110.6	113.2	116.8	130.3	235.8	2093.8	4632.1	4632.1	5435.1
75°	88.8	89.5	91.3	96.0	98.2	99.7	109.9	168.1	1059.3	2497.4	2497.4	2843.5
77.5°	71.7	73.2	74.3	79.3	80.8	83.0	90.6	121.5	465.1	897.3	897.3	905.3
80°	52.4	54.2	57.5	62.2	63.3	64.8	69.1	86.2	210.7	409.7	409.7	445.1
82.5°	38.6	41.1	37.1	43.3	43.3	41.5	48.8	57.9	96.8	405.8	405.8	485.4
85°	21.1	21.4	19.3	22.2	23.6	23.3	25.8	28.4	46.9	270.7	270.7	279.1
87.5°	5.1	5.5	5.8	6.9	8.4	8.4	9.1	8.0	15.3	87.7	87.7	50.2
90°	0.0	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)