

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: P451990

Luminaire Tested: **GALN-SA2D-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451990
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-SA2D-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12938 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 125
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

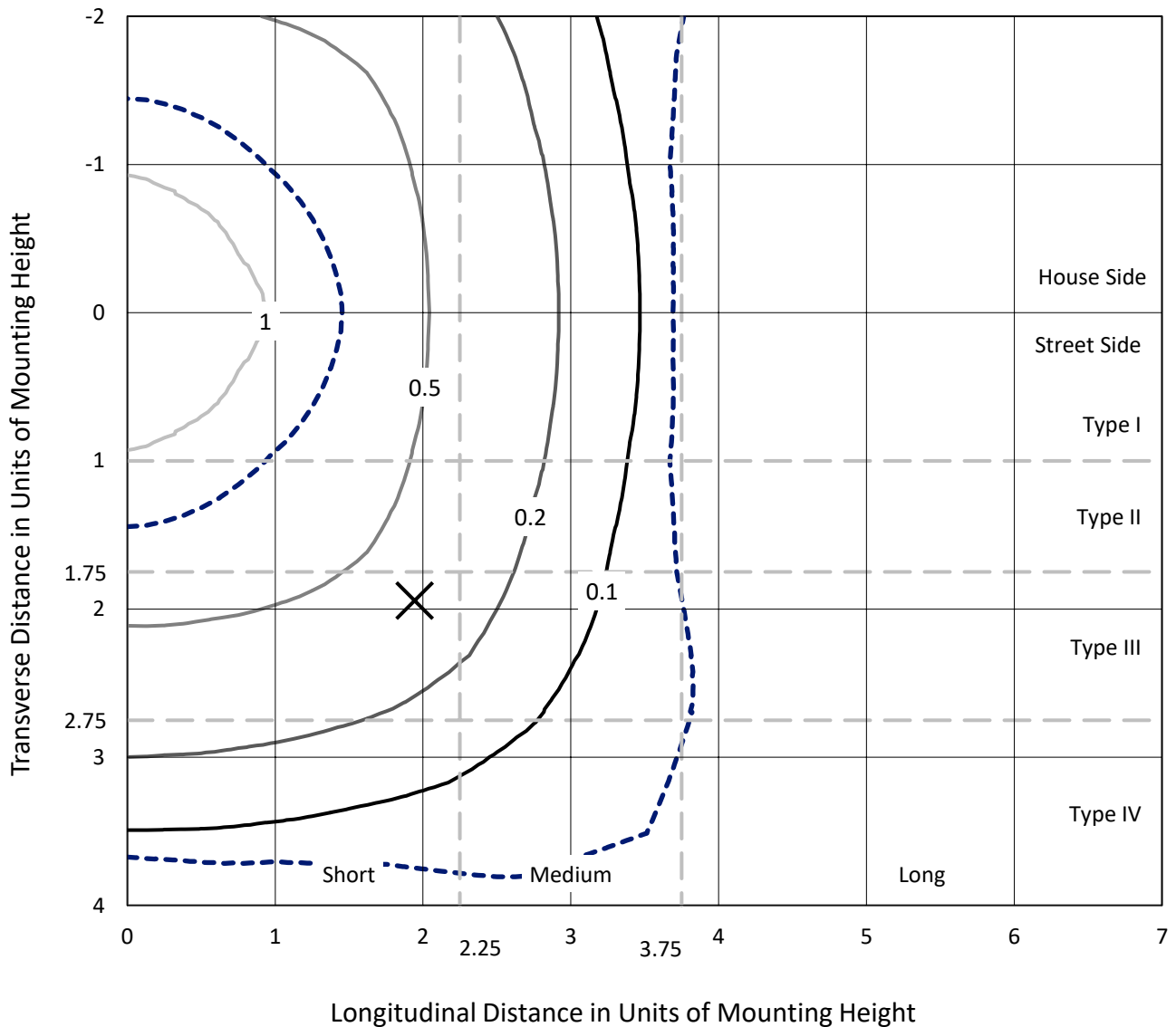




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Iso-Footcandle Lines of Horizontal Illumination

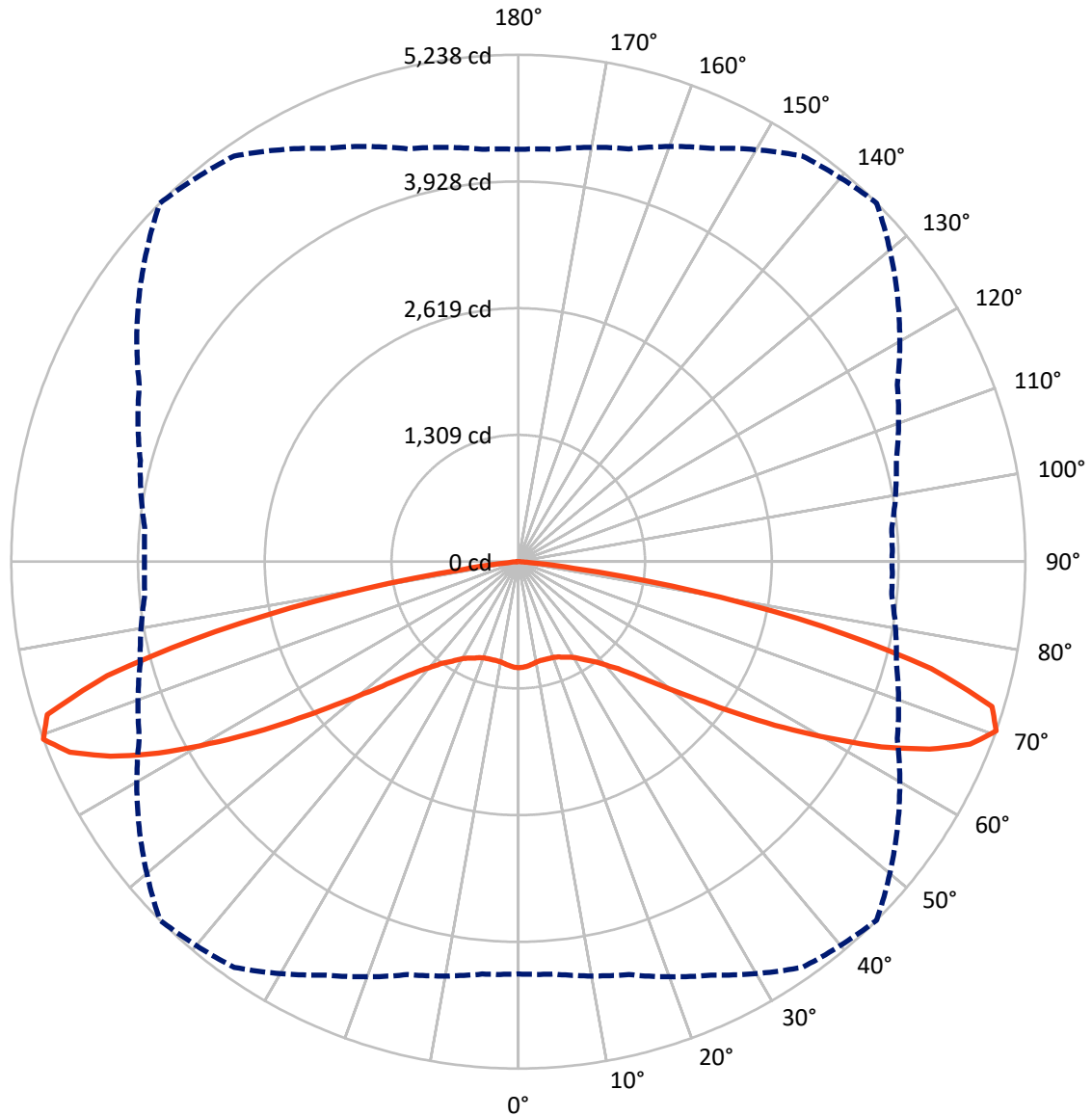
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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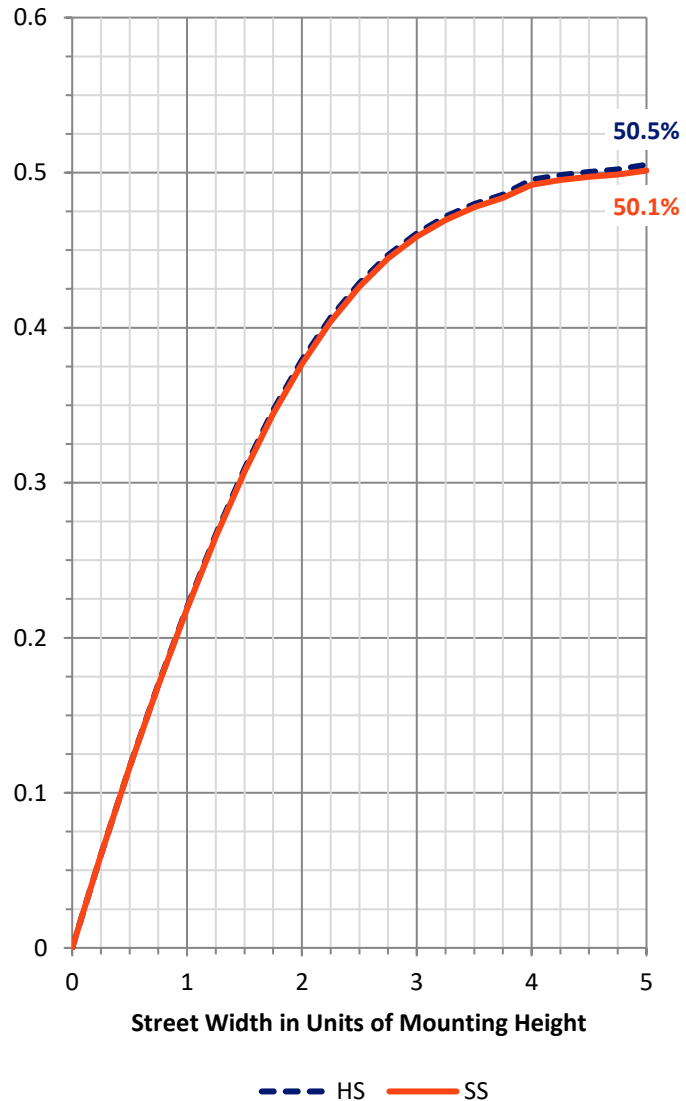
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6469.0	0.0	6469.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6469.0	0.0	6469.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12938.0	0.0	12938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	0.8
10°-20°	299.9	2.3
20°-30°	510.9	3.9
30°-40°	792.0	6.1
40°-50°	1333.0	10.3
50°-60°	2425.3	18.7
60°-70°	4105.9	31.7
70°-80°	3178.2	24.6
80°-90°	190.4	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°	12938.0	100.0
0°-180°	12938.0	100.0

Coefficient of Utilization



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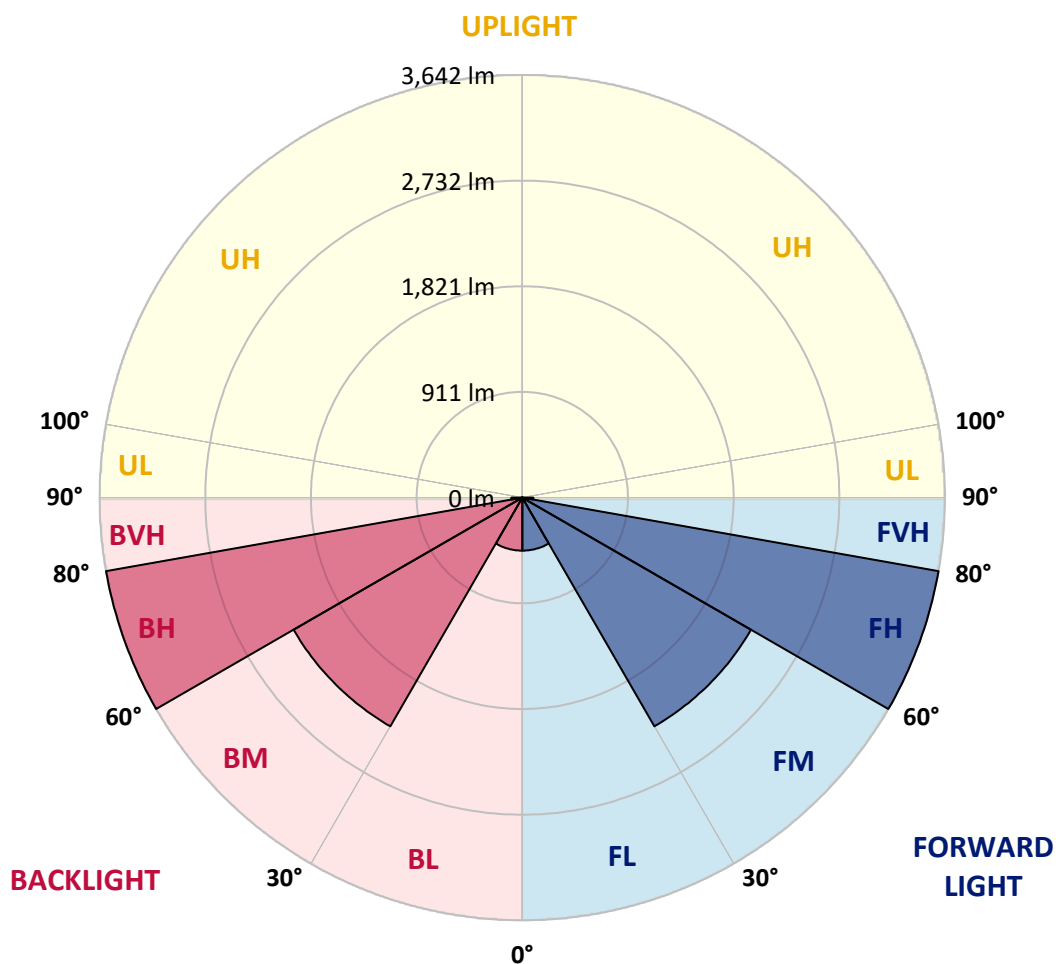
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	456.6	3.5			
FM (30°-60°)	2275.1	17.6			
FH (60°-80°)	3642.0	28.1			G2/5000
FVH (80°-90°)	95.2	0.7			G1/100
BL (0°-30°)	456.6	3.5	B1/500		
BM (30°-60°)	2275.1	17.6	B2/2500		
BH (60°-80°)	3642.0	28.1	B4/5000		G2/5000
BVH (80°-90°)	95.2	0.7			G1/100
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°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4
2.5°	1092.6	1093.3	1093.3	1091.9	1091.3	1091.3	1090.6	1090.6	1092.6	1093.3	1094.0
5°	1083.1	1083.1	1083.1	1082.4	1081.0	1081.0	1079.6	1079.6	1080.3	1082.4	1081.0
7.5°	1070.1	1071.4	1071.4	1068.7	1066.7	1066.7	1066.0	1066.7	1067.3	1069.4	1068.7
10°	1066.0	1066.7	1063.2	1058.5	1055.0	1053.0	1053.7	1055.0	1058.5	1059.8	1060.5
12.5°	1068.7	1068.7	1062.6	1055.7	1049.6	1046.8	1046.2	1050.9	1057.1	1061.2	1062.6
15°	1072.1	1070.8	1063.2	1054.4	1048.2	1047.5	1046.8	1050.3	1059.1	1067.3	1068.0
17.5°	1074.2	1073.5	1063.9	1053.0	1049.6	1049.6	1048.9	1051.6	1061.2	1071.4	1072.1
20°	1081.0	1079.0	1068.0	1056.4	1053.7	1055.0	1053.0	1056.4	1066.7	1079.0	1081.7
22.5°	1094.7	1092.6	1081.7	1070.1	1068.7	1068.7	1068.0	1071.4	1082.4	1095.4	1097.4
25°	1111.1	1109.0	1098.8	1090.6	1091.9	1094.7	1093.3	1094.0	1102.9	1113.8	1117.2
27.5°	1132.9	1129.5	1120.6	1113.8	1117.9	1117.9	1117.9	1117.2	1122.7	1132.9	1136.4
30°	1159.6	1158.2	1148.7	1148.0	1151.4	1148.0	1148.0	1148.7	1149.3	1158.9	1162.3
32.5°	1194.4	1191.7	1186.9	1185.6	1195.1	1197.9	1188.3	1179.4	1184.2	1193.8	1195.8
35°	1251.8	1247.7	1240.9	1233.4	1240.9	1253.9	1233.4	1226.6	1238.9	1251.8	1253.2
37.5°	1329.7	1327.7	1316.8	1303.1	1302.4	1316.1	1294.9	1294.2	1317.4	1333.2	1335.2
40°	1427.5	1429.5	1415.8	1402.9	1396.0	1407.0	1390.6	1396.7	1419.3	1437.0	1435.7
42.5°	1564.8	1557.3	1536.1	1523.8	1516.3	1512.2	1508.1	1517.7	1542.9	1562.1	1577.1
45°	1725.4	1722.6	1696.0	1681.0	1664.6	1658.4	1657.0	1674.1	1704.9	1728.1	1730.2
47.5°	1907.1	1901.0	1883.9	1868.2	1862.0	1854.5	1847.7	1860.7	1891.4	1907.8	1912.6
50°	2094.4	2095.7	2095.7	2093.0	2099.2	2100.5	2082.1	2086.9	2103.9	2102.6	2101.2
52.5°	2308.3	2315.8	2351.3	2354.7	2384.1	2403.9	2370.4	2350.6	2344.5	2307.6	2310.3
55°	2559.7	2566.5	2619.8	2673.1	2752.4	2785.9	2715.5	2654.0	2610.3	2554.2	2557.0
57.5°	2873.4	2876.8	2927.3	3029.8	3155.6	3234.1	3110.5	2988.8	2900.0	2846.7	2825.5
60°	3210.9	3214.3	3288.1	3413.2	3608.6	3704.3	3551.2	3352.4	3240.3	3159.0	3164.4
62.5°	3616.1	3629.8	3696.1	3868.3	4105.4	4212.7	4009.7	3743.9	3592.2	3491.1	3495.2
65°	4050.0	4073.3	4145.7	4335.0	4553.6	4669.1	4420.4	4113.6	3925.0	3801.3	3814.3
67.5°	4331.6	4352.1	4456.6	4665.7	4938.3	5034.0	4712.9	4355.5	4119.7	3972.1	3944.8
70°	4259.8	4276.9	4416.3	4712.9	5116.7	5237.6	4782.5	4319.9	4042.5	3872.4	3861.4
72.5°	3760.3	3724.8	3928.4	4354.1	4913.1	5116.0	4563.2	3945.5	3596.3	3421.4	3400.9
75°	2492.1	2569.3	2869.9	3371.5	4156.6	4408.1	3894.9	3167.9	2728.5	2582.9	2560.4
77.5°	833.0	892.4	1159.6	1911.2	2833.7	3211.6	2837.8	2071.8	1465.7	1180.8	1186.2
80°	220.7	218.0	282.2	525.5	1224.5	1860.0	1425.4	701.8	384.0	278.1	263.8
82.5°	79.3	88.8	114.1	145.5	324.6	578.1	407.9	196.8	144.2	106.6	103.2
85°	34.8	34.2	49.2	58.1	81.3	108.0	95.7	83.4	73.1	48.5	45.1
87.5°	7.5	7.5	11.6	8.9	14.3	14.3	17.8	21.2	21.9	14.3	11.6
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)