

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: P451047

Luminaire Tested: **GALN-SA1D-827-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451047
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-827-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5744 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

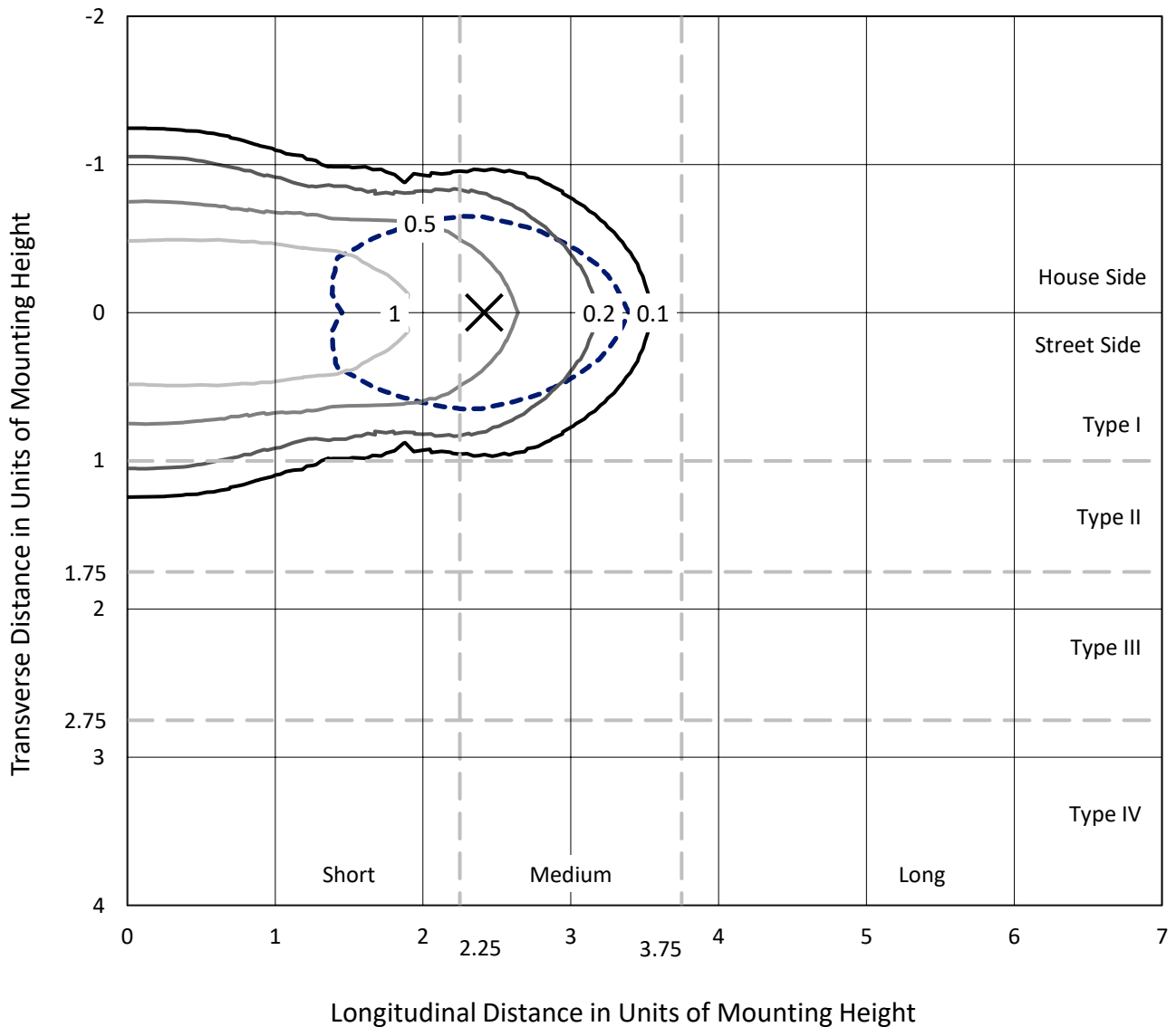
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

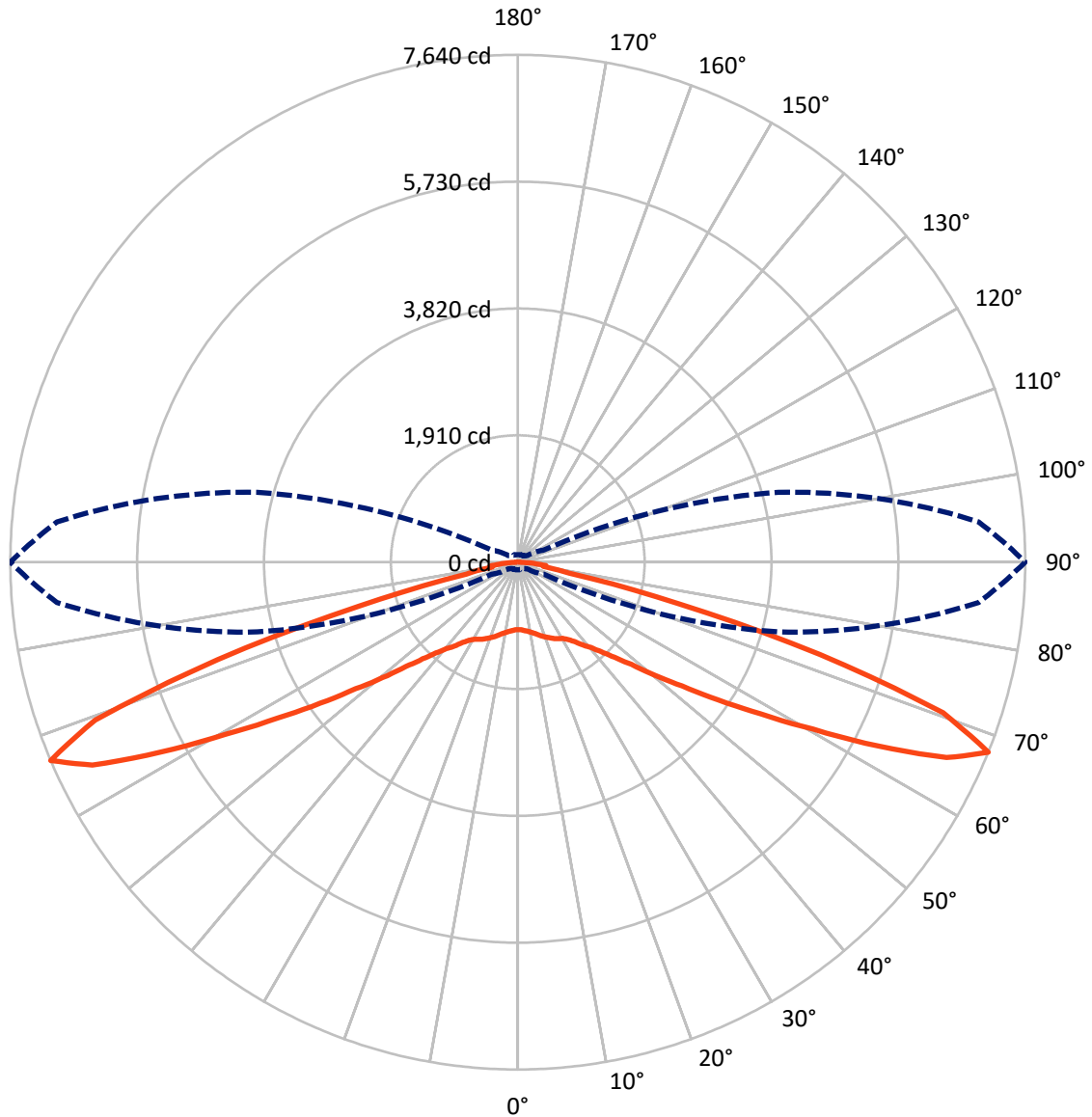
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	2872.0	0.0	2872.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2872.0	0.0	2872.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5744.0	0.0	5744.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	1.8
10°-20°	324.4	5.6
20°-30°	542.9	9.5
30°-40°	735.5	12.8
40°-50°	931.6	16.2
50°-60°	1163.8	20.3
60°-70°	1368.0	23.8
70°-80°	523.3	9.1
80°-90°	53.0	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°	5744.0	100.0
0°-180°	5744.0	100.0



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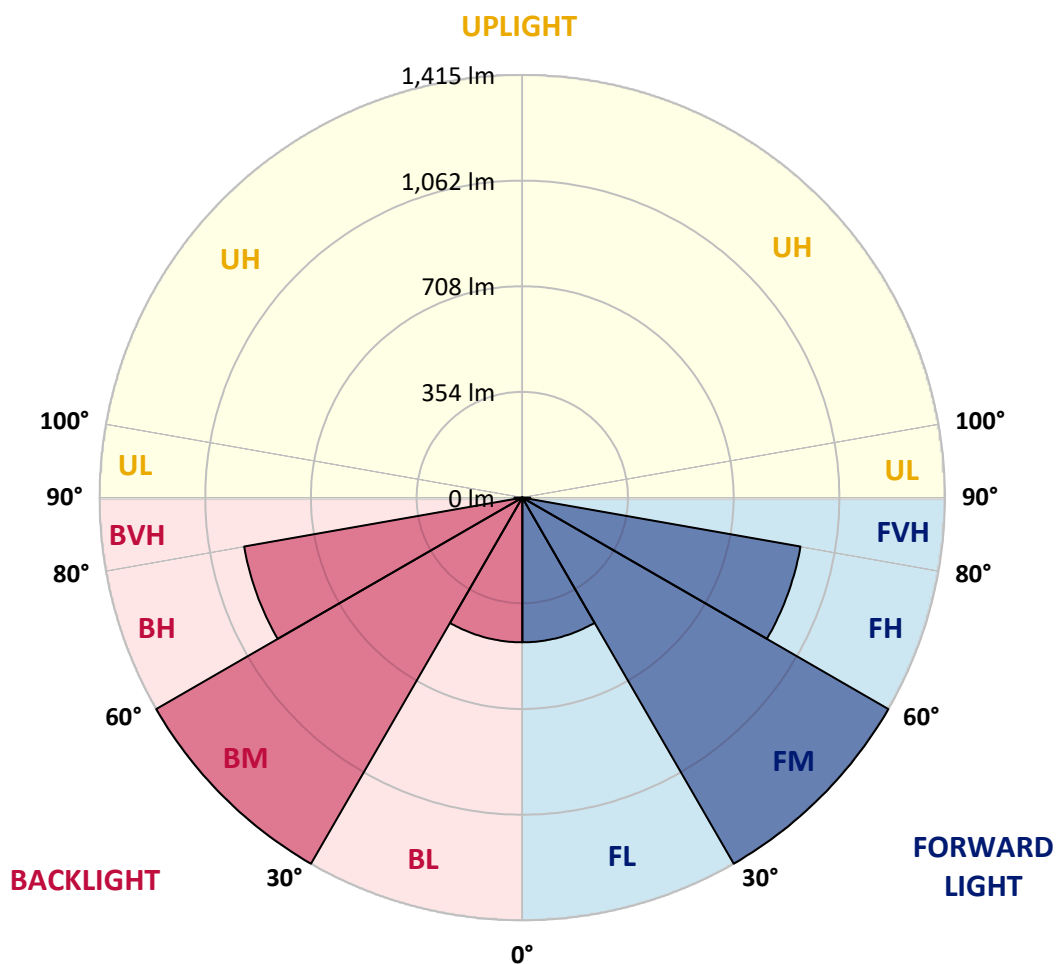
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	484.3	8.4			
FM (30°-60°)	1415.5	24.6			
FH (60°-80°)	945.7	16.5			G1/1800
FVH (80°-90°)	26.5	0.5			G1/100
BL (0°-30°)	484.3	8.4	B1/500		
BM (30°-60°)	1415.5	24.6	B2/2500		
BH (60°-80°)	945.7	16.5	B2/1000		G2/1000
BVH (80°-90°)	26.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1016.9	1016.9	1016.9	1016.9	1016.9	1016.9	1016.9	1016.9	1016.9	1016.9	1016.9
2.5°	1029.9	1029.3	1029.6	1029.3	1030.2	1029.6	1025.8	1022.6	1020.0	1020.4	1019.4
5°	1051.9	1052.2	1052.5	1050.9	1053.1	1051.9	1045.8	1040.7	1035.6	1033.7	1033.1
7.5°	1070.0	1071.6	1072.5	1074.1	1077.9	1077.9	1074.8	1067.4	1056.3	1049.9	1049.6
10°	1088.1	1089.4	1092.2	1097.3	1103.7	1109.7	1108.5	1098.6	1084.3	1073.5	1070.9
12.5°	1094.5	1096.1	1105.6	1120.2	1134.6	1146.3	1146.3	1138.4	1119.9	1103.4	1098.6
15°	1072.2	1075.1	1092.2	1123.4	1161.0	1186.7	1192.4	1181.3	1161.6	1136.1	1130.4
17.5°	1028.0	1035.0	1060.1	1106.2	1168.6	1222.0	1238.6	1233.2	1207.7	1175.3	1168.6
20°	980.6	988.2	1015.0	1076.0	1162.2	1242.7	1290.7	1292.0	1260.5	1213.4	1203.6
22.5°	928.4	934.2	968.5	1040.1	1143.1	1247.5	1335.6	1357.5	1314.9	1251.6	1237.6
25°	869.9	876.3	912.2	989.5	1107.2	1242.1	1376.6	1424.9	1371.8	1292.3	1274.5
27.5°	813.9	816.5	855.0	933.5	1059.8	1228.1	1406.8	1487.0	1434.8	1326.0	1303.4
30°	760.2	766.2	800.3	877.9	1005.4	1200.7	1432.9	1557.6	1502.6	1361.3	1332.4
32.5°	703.3	710.6	747.5	826.0	951.0	1159.7	1448.8	1634.9	1597.0	1418.6	1387.7
35°	648.5	653.3	690.5	766.9	897.9	1112.0	1451.7	1722.0	1718.8	1505.4	1464.4
37.5°	592.6	599.6	637.1	710.2	841.6	1061.4	1437.4	1814.6	1865.8	1626.0	1581.8
40°	538.8	544.9	581.7	655.5	777.7	999.7	1403.3	1899.2	2037.2	1750.0	1687.4
42.5°	480.3	481.9	522.3	597.3	715.0	928.1	1354.3	1974.6	2228.4	1916.4	1838.4
45°	413.8	417.9	455.5	529.3	643.1	848.0	1287.9	2036.9	2470.8	2147.0	2040.7
47.5°	347.3	350.8	385.2	458.0	564.6	756.1	1185.4	2091.6	2719.5	2439.9	2300.6
50°	282.4	284.4	312.3	376.9	476.1	659.4	1058.5	2109.1	3000.7	2854.7	2676.9
52.5°	223.3	226.1	247.5	298.0	381.7	545.2	921.4	2065.9	3328.9	3346.4	3095.8
55°	181.0	181.9	197.8	235.1	298.3	425.6	756.1	1945.3	3682.0	3976.5	3656.8
57.5°	155.9	156.5	165.4	186.1	229.6	320.9	586.5	1717.3	3999.1	4714.7	4303.8
60°	141.5	141.9	146.9	159.0	181.9	246.2	420.2	1395.4	4312.1	5536.3	5107.9
62.5°	132.6	132.6	136.1	142.8	153.9	188.9	304.4	1006.7	4526.4	6370.0	6099.0
65°	124.0	124.0	126.6	131.4	137.4	154.6	224.9	656.5	4521.0	6977.2	7095.8
67.5°	114.2	114.2	116.1	120.9	124.4	133.0	173.7	430.0	4061.1	6963.8	7639.7
70°	102.4	102.4	105.0	109.1	112.0	117.4	137.1	294.2	2983.5	5946.0	6794.3
72.5°	90.6	91.0	92.6	96.7	98.9	102.1	113.9	206.1	1830.2	4048.7	4750.7
75°	77.6	78.2	79.8	84.0	85.9	87.2	96.1	146.9	925.9	2182.9	2485.4
77.5°	62.7	63.9	64.9	69.3	70.6	72.5	79.2	106.2	406.5	784.4	791.4
80°	45.8	47.4	50.3	54.4	55.3	56.6	60.4	75.4	184.2	358.1	389.0
82.5°	33.7	35.9	32.4	37.9	37.9	36.3	42.6	50.6	84.6	354.6	424.3
85°	18.4	18.8	16.9	19.4	20.7	20.4	22.6	24.8	41.0	236.6	244.0
87.5°	4.5	4.8	5.1	6.0	7.3	7.3	8.0	7.0	13.4	76.7	43.9
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)