

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: P450844

Luminaire Tested: **GALN-SA1C-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450844
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-SA1C-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5643 lumens
Efficiency: N/A
Efficacy: 99.0 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): 57
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

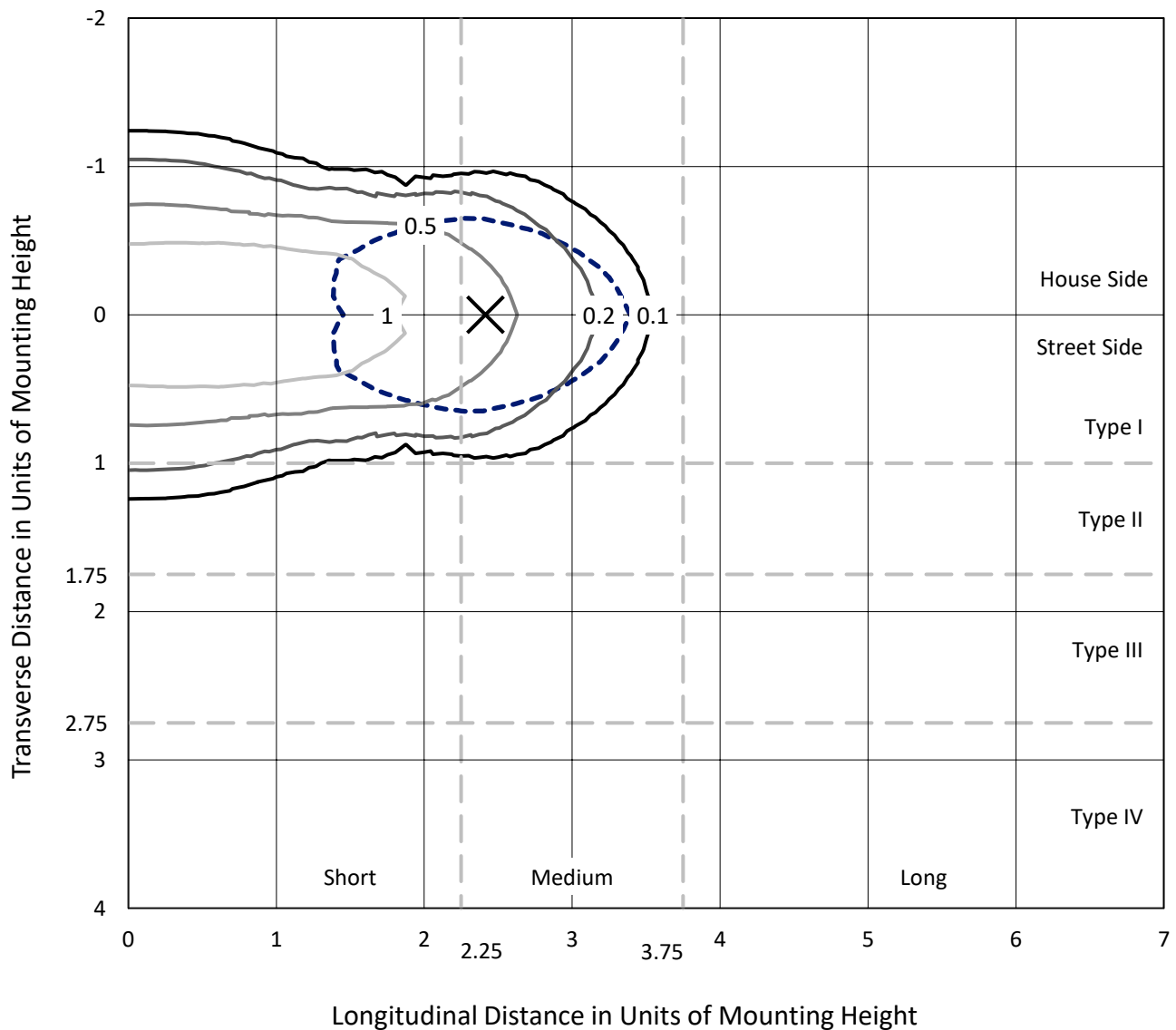


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

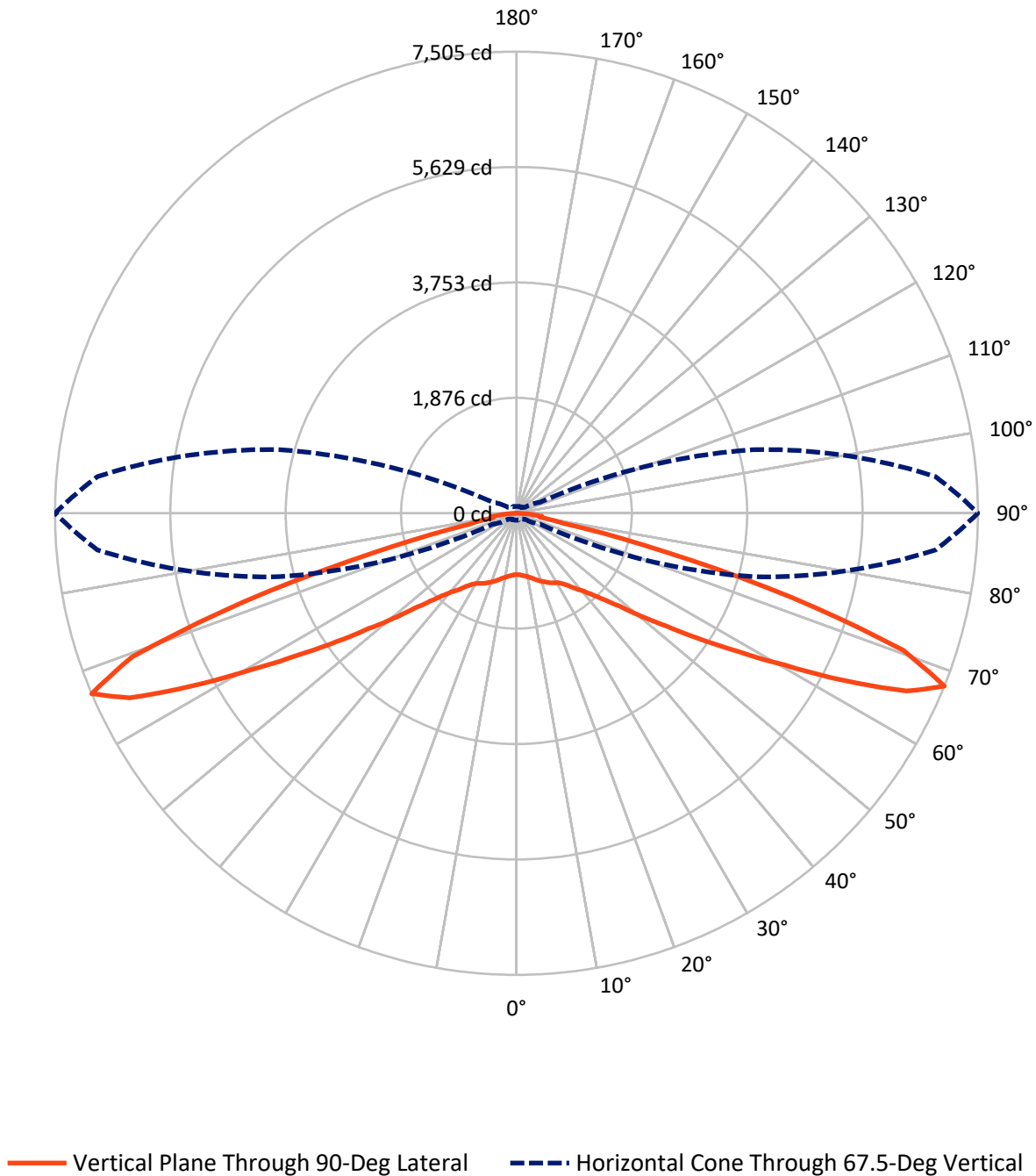


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2821.5	0.0	2821.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2821.5	0.0	2821.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5643.0	0.0	5643.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	1.8
10°-20°	318.7	5.6
20°-30°	533.4	9.5
30°-40°	722.6	12.8
40°-50°	915.2	16.2
50°-60°	1143.4	20.3
60°-70°	1344.0	23.8
70°-80°	514.1	9.1
80°-90°	52.1	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°	5643.0	100.0
0°-180°	5643.0	100.0

Coefficient of Utilization



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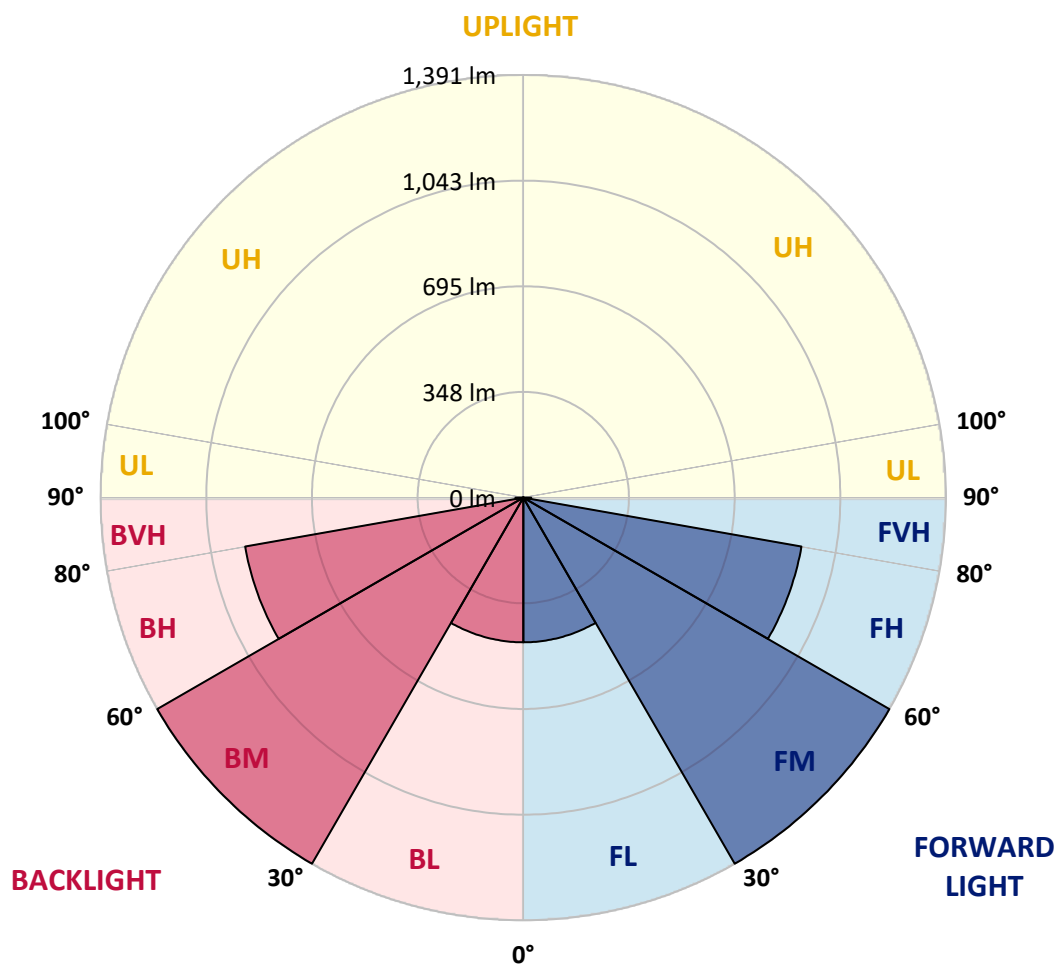
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	475.8	8.4			
FM	(30°-60°)	1390.6	24.6			
FH	(60°-80°)	929.1	16.5			G1/1800
FVH	(80°-90°)	26.0	0.5			G1/100
BL	(0°-30°)	475.8	8.4	B1/500		
BM	(30°-60°)	1390.6	24.6	B2/2500		
BH	(60°-80°)	929.1	16.5	B2/1000		G2/1000
BVH	(80°-90°)	26.0	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°	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0
2.5°	1011.8	1011.2	1011.5	1011.2	1012.1	1011.5	1007.7	1004.6	1002.1	1002.4	1001.5
5°	1033.4	1033.7	1034.0	1032.4	1034.6	1033.4	1027.4	1022.4	1017.4	1015.5	1014.9
7.5°	1051.2	1052.7	1053.7	1055.2	1059.0	1059.0	1055.9	1048.7	1037.7	1031.5	1031.2
10°	1069.0	1070.2	1073.0	1078.0	1084.3	1090.2	1089.0	1079.3	1065.2	1054.6	1052.1
12.5°	1075.2	1076.8	1086.2	1100.5	1114.6	1126.2	1126.2	1118.4	1100.2	1084.0	1079.3
15°	1053.4	1056.2	1073.0	1103.7	1140.5	1165.8	1171.5	1160.5	1141.2	1116.2	1110.5
17.5°	1009.9	1016.8	1041.5	1086.8	1148.0	1200.5	1216.8	1211.5	1186.5	1154.6	1148.0
20°	963.4	970.9	997.1	1057.1	1141.8	1220.8	1268.0	1269.3	1238.3	1192.1	1182.4
22.5°	912.1	917.7	951.5	1021.8	1123.0	1225.5	1312.1	1333.6	1291.8	1229.6	1215.8
25°	854.6	860.9	896.2	972.1	1087.7	1220.2	1352.4	1399.9	1347.7	1269.6	1252.1
27.5°	799.6	802.1	839.9	917.1	1041.2	1206.5	1382.1	1460.8	1409.6	1302.7	1280.5
30°	746.8	752.8	786.2	862.4	987.7	1179.6	1407.7	1530.2	1476.1	1337.4	1309.0
32.5°	690.9	698.1	734.3	811.5	934.3	1139.3	1423.3	1606.1	1568.9	1393.6	1363.3
35°	637.1	641.8	678.4	753.4	882.1	1092.4	1426.1	1691.7	1688.6	1479.0	1438.6
37.5°	582.1	589.0	625.9	697.8	826.8	1042.7	1412.1	1782.7	1833.0	1597.4	1553.9
40°	529.3	535.3	571.5	644.0	764.0	982.1	1378.6	1865.8	2001.4	1719.2	1657.7
42.5°	471.8	473.4	513.1	586.8	702.4	911.8	1330.5	1939.9	2189.2	1882.7	1806.1
45°	406.5	410.6	447.5	520.0	631.8	833.1	1265.2	2001.1	2427.3	2109.2	2004.8
47.5°	341.2	344.7	378.4	450.0	554.6	742.8	1164.6	2054.8	2671.7	2397.0	2260.1
50°	277.5	279.4	306.9	370.3	467.8	647.8	1039.9	2072.0	2947.9	2804.5	2629.8
52.5°	219.4	222.2	243.1	292.8	375.0	535.6	905.2	2029.5	3270.4	3287.6	3041.3
55°	177.8	178.7	194.4	230.9	293.1	418.1	742.8	1911.1	3617.2	3906.6	3592.5
57.5°	153.1	153.7	162.5	182.8	225.6	315.3	576.2	1687.1	3928.8	4631.8	4228.1
60°	139.1	139.4	144.4	156.2	178.7	241.9	412.8	1370.8	4236.2	5439.0	5018.1
62.5°	130.3	130.3	133.7	140.3	151.2	185.6	299.0	989.0	4446.9	6258.0	5991.7
65°	121.9	121.9	124.4	129.1	135.0	151.9	220.9	645.0	4441.5	6854.5	6971.0
67.5°	112.2	112.2	114.1	118.7	122.2	130.6	170.6	422.5	3989.7	6841.4	7505.4
70°	100.6	100.6	103.1	107.2	110.0	115.3	134.7	289.0	2931.0	5841.4	6674.8
72.5°	89.1	89.4	90.9	95.0	97.2	100.3	111.9	202.5	1798.0	3977.5	4667.1
75°	76.2	76.9	78.4	82.5	84.4	85.6	94.4	144.4	909.6	2144.5	2441.7
77.5°	61.6	62.8	63.7	68.1	69.4	71.2	77.8	104.4	399.3	770.6	777.4
80°	45.0	46.6	49.4	53.4	54.4	55.6	59.4	74.1	180.9	351.8	382.2
82.5°	33.1	35.3	31.9	37.2	37.2	35.6	41.9	49.7	83.1	348.4	416.8
85°	18.1	18.4	16.6	19.1	20.3	20.0	22.2	24.4	40.3	232.5	239.7
87.5°	4.4	4.7	5.0	5.9	7.2	7.2	7.8	6.9	13.1	75.3	43.1
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)