

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: P527864

Luminaire Tested: **GALN-SA2D-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11155 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

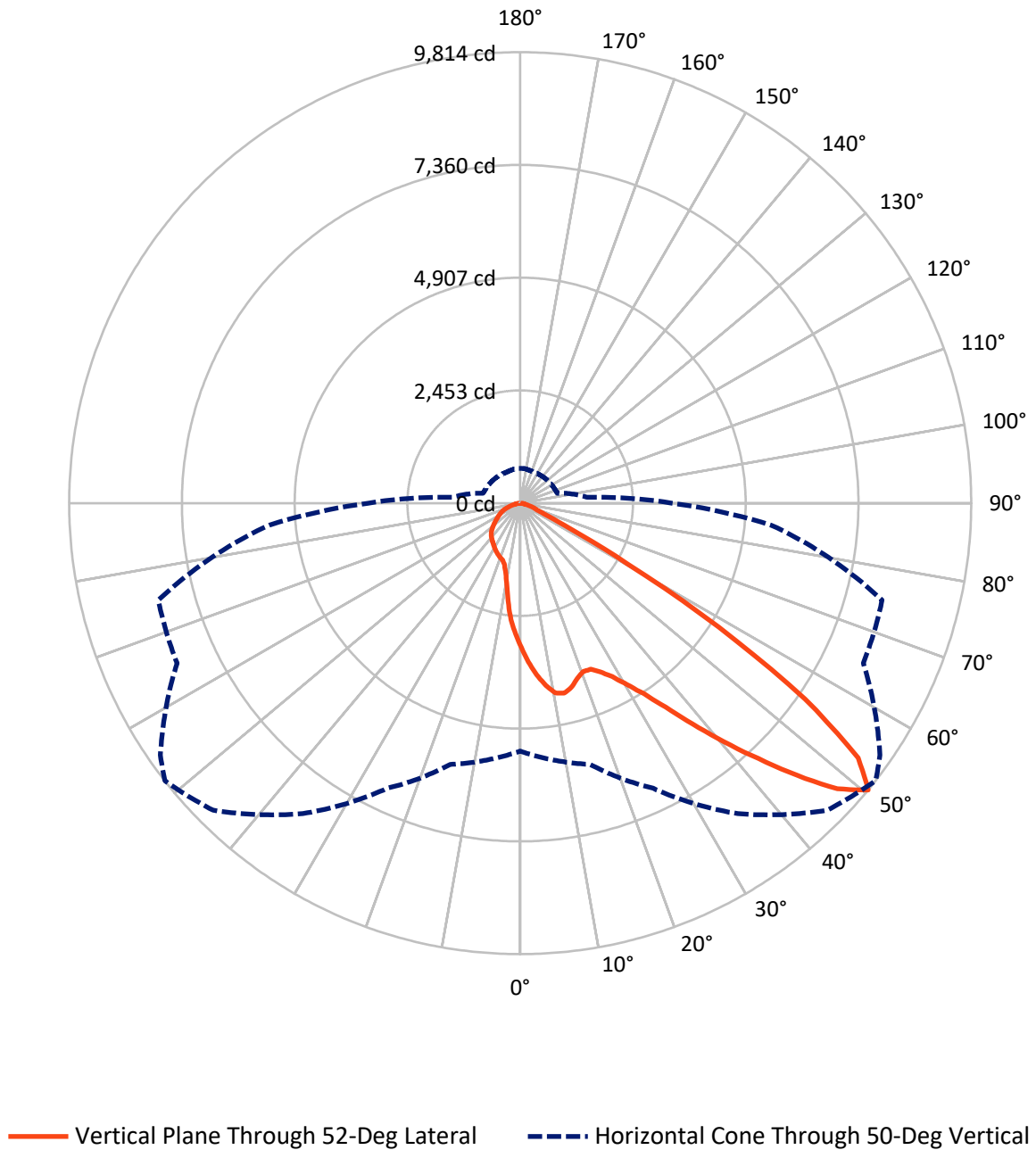
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2096.9	0.0	2096.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9058.1	0.0	9058.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	11155.0	0.0	11155.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.8	2.6
10°-20°	776.8	7.0
20°-30°	1308.5	11.7
30°-40°	2195.7	19.7
40°-50°	3358.9	30.1
50°-60°	2448.9	22.0
60°-70°	545.0	4.9
70°-80°	196.6	1.8
80°-90°	34.8	0.3
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°	11155.0	100.0
0°-180°	11155.0	100.0

Coefficient of Utilization



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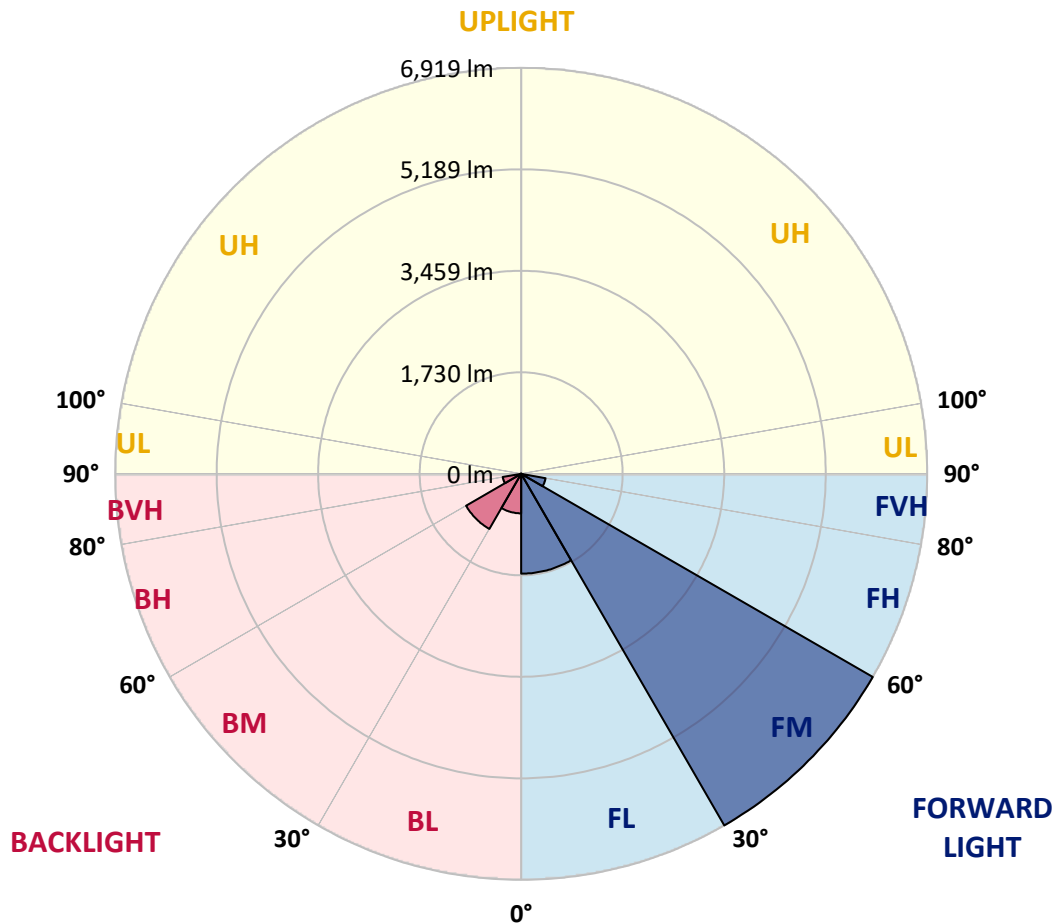
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1701.5	15.3			
FM	(30°-60°)	6918.9	62.0			
FH	(60°-80°)	422.1	3.8			G0/660
FVH	(80°-90°)	15.6	0.1			G1/100
BL	(0°-30°)	673.6	6.0	B2/1000		
BM	(30°-60°)	1084.6	9.7	B2/2500		
BH	(60°-80°)	319.5	2.9	B1/500		G1/500
BVH	(80°-90°)	19.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4
2.5°	3702.3	3631.1	3639.1	3588.0	3532.9	3516.8	3460.3	3406.6	3366.2	3280.2	3200.9
5°	4046.5	4025.0	3992.7	3952.4	3910.7	3808.5	3750.7	3683.5	3535.6	3402.5	3270.8
7.5°	4096.2	4092.2	4109.6	4109.6	4124.4	4085.4	4003.4	3956.4	3799.1	3582.7	3338.0
10°	3746.7	3758.8	3843.5	3953.7	4107.0	4213.2	4199.7	4187.6	4015.5	3719.8	3417.3
12.5°	3468.4	3441.5	3491.2	3585.4	3815.2	4072.0	4245.4	4246.8	4202.4	3938.9	3475.1
15°	3311.1	3329.9	3343.4	3387.7	3561.2	3858.3	4163.4	4253.5	4448.4	4093.5	3566.5
17.5°	3411.9	3348.7	3346.1	3356.8	3445.5	3668.7	4011.5	4166.1	4582.9	4292.5	3679.5
20°	3543.7	3542.3	3504.7	3491.2	3489.9	3688.9	3912.0	4121.7	4654.1	4550.6	3793.7
22.5°	3774.9	3774.9	3713.1	3683.5	3620.3	3783.0	3925.5	4068.0	4772.4	4728.0	3848.8
25°	4162.1	4098.9	3992.7	3920.1	3883.8	3941.6	4068.0	4195.7	4875.9	4916.2	3963.1
27.5°	4519.7	4420.2	4367.8	4242.7	4194.3	4160.7	4276.3	4405.4	4996.9	5209.3	4025.0
30°	4925.7	4908.2	4814.1	4652.8	4533.1	4471.3	4577.5	4705.2	5218.7	5509.1	4167.5
32.5°	5651.6	5493.0	5365.3	5167.6	4972.7	4841.0	4945.8	5030.5	5587.1	5822.3	4323.4
35°	6435.4	6384.3	6163.8	5807.5	5509.1	5390.8	5452.6	5515.8	6015.9	6300.9	4585.5
37.5°	7205.7	7135.8	6954.3	6654.5	6291.5	6050.9	6095.2	6169.2	6497.2	6946.2	4905.5
40°	7759.5	7673.5	7582.1	7537.7	7177.4	6848.1	6822.5	6841.3	7147.9	7551.2	5260.4
42.5°	7799.9	7906.1	7934.3	8113.1	8028.4	7758.2	7600.9	7604.9	7768.9	8149.4	5619.3
45°	7715.2	7617.0	7825.4	8313.4	8593.0	8719.4	8454.5	8420.9	8153.4	8496.2	5798.1
47.5°	6826.6	6853.4	7205.7	7977.3	8785.3	9349.9	9288.0	9176.5	8359.1	8484.1	5769.9
50°	5396.2	5558.8	5885.5	6846.7	8247.5	9449.4	9813.7	9555.6	8236.8	8150.7	5482.2
52.5°	3593.4	3660.6	3875.7	5116.6	6631.6	8446.5	9208.7	9267.9	8123.8	7713.8	5117.9
55°	1599.8	1594.4	1896.9	2672.5	4160.7	6427.3	7524.3	7884.5	7689.6	7268.8	4763.0
57.5°	677.5	700.4	824.1	1154.8	2046.1	3878.4	5097.7	5413.7	5913.7	5968.9	3653.9
60°	458.4	461.1	494.7	578.1	856.3	1821.6	2673.9	3053.0	3410.6	3386.4	1938.5
62.5°	360.3	369.7	395.2	428.8	508.2	826.8	1196.5	1407.5	1430.4	1203.2	735.4
65°	307.9	309.2	334.7	363.0	397.9	481.3	576.7	587.5	594.2	572.7	540.4
67.5°	254.1	256.8	276.9	309.2	341.5	368.3	395.2	408.7	439.6	500.1	492.0
70°	201.7	205.7	223.2	250.0	279.6	295.8	329.4	341.5	369.7	416.7	435.6
72.5°	153.3	154.6	169.4	188.2	215.1	231.2	259.5	272.9	291.7	332.1	349.5
75°	110.2	114.3	125.0	134.4	138.5	149.2	176.1	190.9	217.8	235.3	236.6
77.5°	57.8	60.5	63.2	63.2	76.6	96.8	114.3	122.3	141.2	154.6	147.9
80°	22.9	24.2	30.9	41.7	53.8	69.9	82.0	86.0	102.2	110.2	114.3
82.5°	13.4	14.8	20.2	29.6	39.0	49.7	59.2	63.2	73.9	83.3	86.0
85°	6.7	8.1	12.1	18.8	25.5	30.9	29.6	28.2	28.2	26.9	28.2
87.5°	2.7	2.7	4.0	4.0	4.0	5.4	6.7	6.7	6.7	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4
2.5°	3148.4	3094.7	3044.9	2953.5	2854.0	2825.8	2710.2	2668.5	2638.9	2604.0	2593.2
5°	3164.6	3093.3	2933.3	2749.2	2602.6	2414.4	2290.8	2157.7	2060.9	2036.7	2030.0
7.5°	3198.2	3075.8	2800.3	2522.0	2222.2	1966.8	1771.8	1667.0	1574.2	1568.8	1559.4
10°	3235.8	3023.4	2655.1	2218.2	1835.0	1598.4	1481.5	1435.8	1412.9	1407.5	1404.8
12.5°	3266.7	3012.7	2492.4	1922.4	1560.8	1418.3	1383.3	1379.3	1388.7	1391.4	1396.8
15°	3280.2	2969.6	2296.1	1657.6	1390.0	1337.6	1352.4	1368.5	1375.3	1392.7	1379.3
17.5°	3305.7	2914.5	2054.2	1447.9	1294.6	1304.0	1329.6	1348.4	1359.1	1371.2	1353.7
20°	3319.2	2864.8	1827.0	1322.8	1261.0	1278.5	1313.4	1328.2	1341.7	1347.0	1326.9
22.5°	3307.1	2762.6	1626.7	1222.0	1228.7	1251.6	1282.5	1298.6	1290.6	1269.1	1257.0
25°	3274.8	2618.8	1418.3	1157.5	1183.0	1223.3	1247.5	1235.4	1220.7	1208.6	1204.5
27.5°	3273.5	2442.7	1267.7	1098.3	1144.0	1199.2	1191.1	1180.3	1187.1	1177.6	1166.9
30°	3280.2	2271.9	1144.0	1064.7	1115.8	1142.7	1152.1	1141.3	1149.4	1131.9	1137.3
32.5°	3245.2	2105.2	1063.4	1025.7	1082.2	1080.8	1111.8	1119.8	1101.0	1064.7	1070.1
35°	3260.0	1970.8	994.8	1008.3	1044.6	1044.6	1068.7	1059.3	1009.6	988.1	993.5
37.5°	3362.2	1839.1	961.2	984.1	1008.3	1019.0	1010.9	970.6	958.5	958.5	961.2
40°	3459.0	1726.1	941.0	978.7	974.6	981.4	922.2	926.2	926.2	927.6	920.9
42.5°	3545.0	1649.5	924.9	946.4	953.1	918.2	881.9	877.9	887.3	885.9	880.5
45°	3575.9	1586.3	902.1	910.1	915.5	857.7	840.2	832.1	842.9	846.9	852.3
47.5°	3457.6	1533.9	876.5	860.4	849.6	812.0	789.1	774.3	787.8	810.6	816.0
50°	3305.7	1465.3	836.2	805.3	782.4	766.3	750.1	735.4	744.8	760.9	756.9
52.5°	3081.2	1357.8	785.1	752.8	713.8	717.9	703.1	695.0	700.4	700.4	696.4
55°	2761.3	1115.8	699.1	676.2	643.9	654.7	657.4	646.6	635.9	645.3	637.2
57.5°	1884.8	787.8	623.8	623.8	591.5	606.3	605.0	579.4	553.9	556.6	551.2
60°	1090.3	627.8	575.4	570.0	536.4	548.5	551.2	533.7	494.7	497.4	492.0
62.5°	619.7	536.4	502.8	494.7	488.0	498.7	498.7	475.9	442.3	445.0	439.6
65°	527.0	497.4	449.0	447.7	445.0	447.7	436.9	412.7	383.1	371.0	372.4
67.5°	478.6	459.8	412.7	400.6	392.5	391.2	371.0	348.2	334.7	324.0	322.6
70°	419.4	404.6	369.7	353.6	345.5	326.7	306.5	291.7	272.9	267.5	272.9
72.5°	332.1	330.7	317.3	299.8	282.3	267.5	250.0	229.9	212.4	208.4	199.0
75°	229.9	232.6	235.3	232.6	217.8	199.0	178.8	162.7	141.2	129.1	126.4
77.5°	150.6	154.6	158.6	153.3	143.8	126.4	112.9	92.8	76.6	67.2	65.9
80°	110.2	115.6	118.3	114.3	103.5	90.1	75.3	59.2	47.1	39.0	39.0
82.5°	84.7	90.1	92.8	86.0	75.3	64.5	53.8	41.7	32.3	25.5	24.2
85°	29.6	28.2	33.6	35.0	41.7	39.0	32.3	24.2	18.8	13.4	12.1
87.5°	8.1	8.1	9.4	9.4	8.1	6.7	6.7	6.7	5.4	4.0	4.0
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)