

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P974093

Luminaire Tested: FLR2-24-45-L830-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-45-L830-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-45-L830-CP375
Ballast/Driver: -

Summary

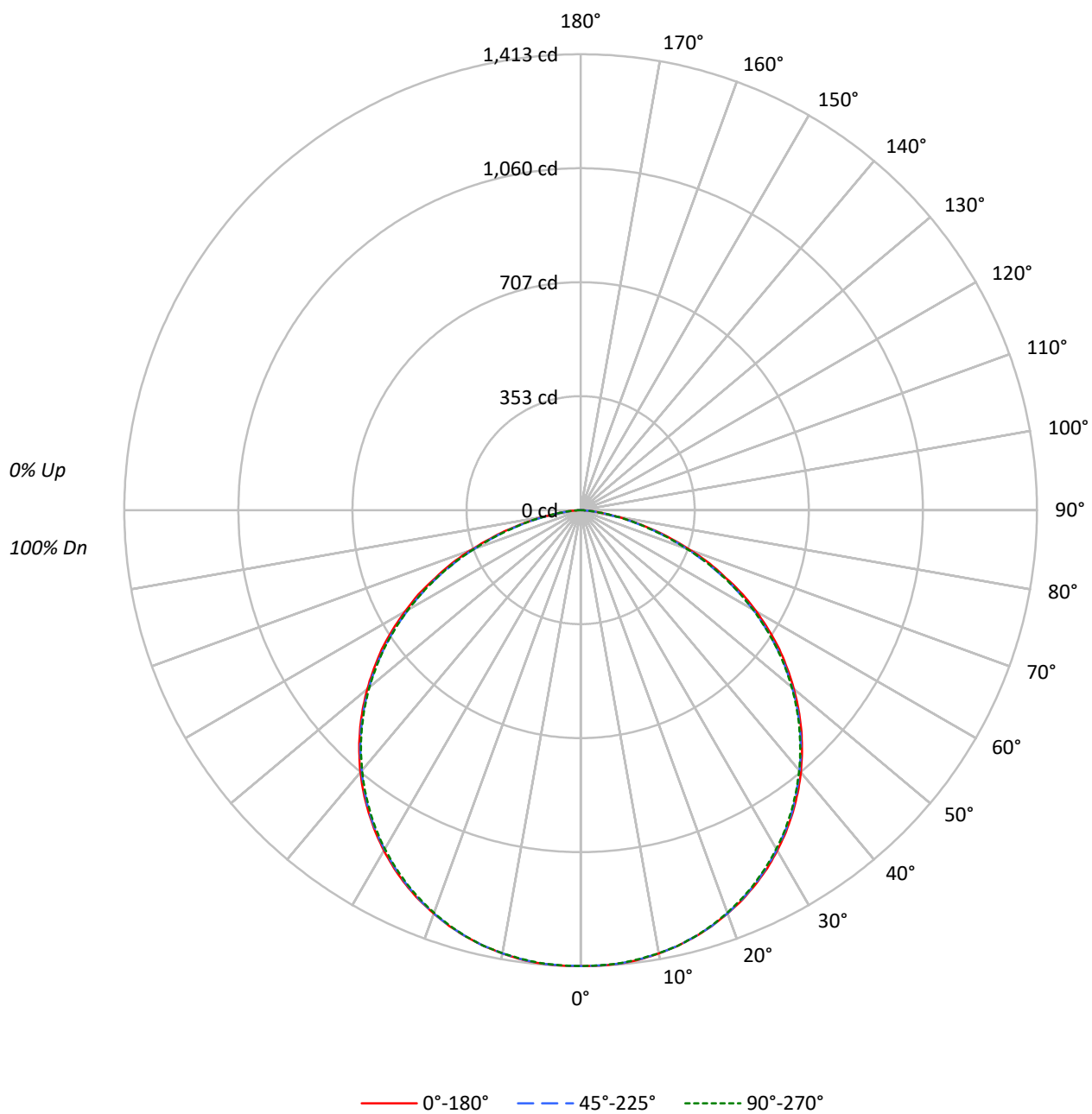
Lumens per Lamp: N/A
Luminaire Lumens: 3993.1 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71		71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60		60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1901	1901	1901
5°	1905	1905	1903
10°	1906	1905	1905
15°	1907	1906	1906
20°	1905	1904	1901
25°	1901	1897	1894
30°	1893	1887	1883
35°	1880	1875	1869
40°	1864	1852	1849
45°	1839	1829	1823
50°	1805	1791	1786
55°	1762	1737	1735
60°	1689	1659	1659
65°	1580	1543	1548
70°	1422	1378	1374
75°	1194	1146	1141
80°	872	829	864
85°	492	454	462

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1839 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	3.4
10°-20°	386.3	9.7
20°-30°	589.0	14.8
30°-40°	713.7	17.9
40°-50°	741.3	18.6
50°-60°	663.1	16.6
60°-70°	483.3	12.1
70°-80°	239.4	6.0
80°-90°	42.8	1.1
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°-30°	1109.5	27.8
0°-40°	1823.2	45.7
0°-60°	3227.6	80.8
0°-90°	3993.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3993.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1413	1413	1413	1413	1413	
5°	1410	1411	1410	1410	1409	134
15°	1369	1368	1368	1369	1368	386
25°	1280	1279	1278	1278	1276	590
35°	1145	1143	1142	1140	1138	716
45°	967	965	961	959	958	745
55°	751	746	741	741	740	669
65°	496	492	485	487	486	492
75°	230	226	220	225	220	245
85°	32	29	29	30	30	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1412.8	1412.8	1412.8	1412.8	1412.8
2.5°	1412.8	1412.3	1412.3	1412.8	1411.8
5°	1410.3	1410.8	1410.3	1410.3	1409.3
7.5°	1404.7	1404.2	1403.7	1404.2	1402.7
10°	1395.1	1395.1	1394.6	1395.1	1394.1
12.5°	1383.4	1383.4	1383.4	1383.9	1383.4
15°	1368.7	1368.2	1368.2	1369.2	1368.2
17.5°	1351.5	1351.0	1351.0	1350.5	1349.5
20°	1330.2	1330.2	1329.7	1329.2	1327.7
22.5°	1307.4	1306.9	1305.4	1305.4	1303.3
25°	1280.5	1279.0	1278.0	1277.5	1276.0
27.5°	1251.1	1249.1	1247.6	1246.6	1245.0
30°	1218.2	1216.1	1214.6	1213.1	1212.1
32.5°	1182.7	1181.7	1179.1	1178.6	1176.6
35°	1144.7	1143.1	1141.6	1139.6	1137.6
37.5°	1104.1	1102.6	1099.0	1098.0	1096.5
40°	1061.0	1059.0	1054.4	1054.4	1052.9
42.5°	1014.9	1012.9	1009.8	1007.8	1006.8
45°	966.7	964.7	961.2	959.1	958.1
47.5°	915.5	914.0	910.0	908.4	906.9
50°	862.3	860.3	855.7	854.7	853.2
52.5°	806.5	805.5	799.4	798.9	797.4
55°	751.3	745.7	740.6	740.6	739.6
57.5°	690.4	686.4	679.8	679.8	678.8
60°	627.6	624.0	616.4	617.4	616.4
62.5°	566.2	558.6	551.5	554.6	552.1
65°	496.3	492.2	484.6	486.7	486.2
67.5°	432.4	424.8	417.7	421.8	419.7
70°	361.4	357.4	350.3	354.3	349.3
72.5°	294.5	291.0	283.9	288.4	283.4
75°	229.6	226.1	220.5	224.6	219.5
77.5°	168.3	165.8	160.7	164.8	165.8
80°	112.5	109.5	107.0	110.5	111.5
82.5°	65.9	63.9	62.9	63.4	65.9
85°	31.9	29.4	29.4	29.9	29.9
87.5°	8.6	7.6	8.6	9.1	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)