

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: P974152

Luminaire Tested: FLR2-24-72-L930-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974152
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: FLR2-24-72-L930-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L930-CP375
Ballast/Driver: -

Summary

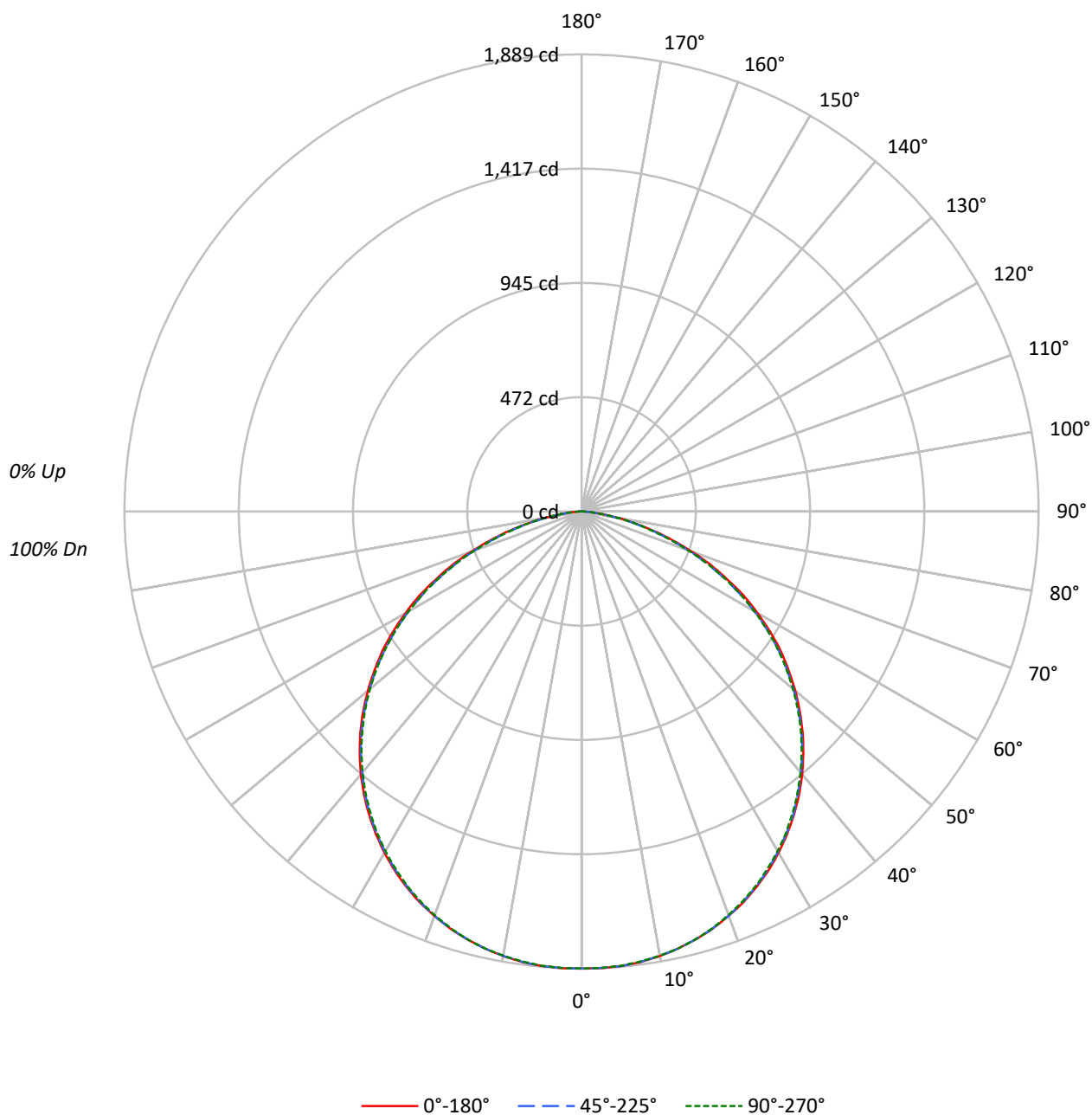
Lumens per Lamp: N/A
Luminaire Lumens: 5340.0 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 60.9
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°	2542	2542	2542
5°	2547	2547	2545
10°	2549	2548	2547
15°	2550	2549	2549
20°	2547	2546	2542
25°	2542	2537	2533
30°	2531	2524	2518
35°	2514	2508	2499
40°	2492	2477	2473
45°	2460	2446	2438
50°	2414	2395	2388
55°	2357	2324	2320
60°	2259	2218	2218
65°	2113	2063	2070
70°	1902	1843	1838
75°	1596	1533	1526
80°	1166	1108	1155
85°	659	607	618

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2460 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.3	3.4
10°-20°	516.7	9.7
20°-30°	787.7	14.8
30°-40°	954.4	17.9
40°-50°	991.4	18.6
50°-60°	886.9	16.6
60°-70°	646.4	12.1
70°-80°	320.1	6.0
80°-90°	57.2	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°	1483.7	27.8
0°-40°	2438.1	45.7
0°-60°	4316.4	80.8
0°-90°	5340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5340.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1889	1889	1889	1889	1889	
5°	1886	1887	1886	1886	1885	179
15°	1830	1830	1830	1831	1830	517
25°	1712	1710	1709	1708	1706	789
35°	1531	1529	1527	1524	1521	957
45°	1293	1290	1285	1283	1281	996
55°	1005	997	990	990	989	895
65°	664	658	648	651	650	658
75°	307	302	295	300	294	327
85°	43	39	39	40	40	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1889.4	1889.4	1889.4	1889.4	1889.4
2.5°	1889.4	1888.7	1888.7	1889.4	1888.0
5°	1886.0	1886.7	1886.0	1886.0	1884.6
7.5°	1878.5	1877.9	1877.2	1877.9	1875.8
10°	1865.7	1865.7	1865.0	1865.7	1864.3
12.5°	1850.1	1850.1	1850.1	1850.8	1850.1
15°	1830.4	1829.7	1829.7	1831.1	1829.7
17.5°	1807.4	1806.7	1806.7	1806.0	1804.7
20°	1778.9	1778.9	1778.2	1777.5	1775.5
22.5°	1748.4	1747.7	1745.7	1745.7	1743.0
25°	1712.5	1710.4	1709.1	1708.4	1706.4
27.5°	1673.1	1670.4	1668.4	1667.0	1665.0
30°	1629.1	1626.4	1624.3	1622.3	1620.9
32.5°	1581.6	1580.3	1576.9	1576.2	1573.5
35°	1530.8	1528.7	1526.7	1524.0	1521.3
37.5°	1476.5	1474.5	1469.8	1468.4	1466.4
40°	1418.9	1416.2	1410.1	1410.1	1408.1
42.5°	1357.2	1354.5	1350.4	1347.7	1346.4
45°	1292.8	1290.1	1285.4	1282.6	1281.3
47.5°	1224.3	1222.3	1216.9	1214.9	1212.8
50°	1153.2	1150.5	1144.3	1143.0	1141.0
52.5°	1078.6	1077.2	1069.1	1068.4	1066.4
55°	1004.7	997.2	990.5	990.5	989.1
57.5°	923.3	917.9	909.1	909.1	907.8
60°	839.3	834.5	824.4	825.7	824.4
62.5°	757.2	747.1	737.6	741.7	738.3
65°	663.7	658.3	648.1	650.8	650.1
67.5°	578.3	568.1	558.6	564.0	561.3
70°	483.4	477.9	468.5	473.9	467.1
72.5°	393.9	389.1	379.6	385.7	379.0
75°	307.1	302.4	294.9	300.3	293.5
77.5°	225.1	221.7	214.9	220.3	221.7
80°	150.5	146.4	143.0	147.8	149.1
82.5°	88.1	85.4	84.1	84.7	88.1
85°	42.7	39.3	39.3	40.0	40.0
87.5°	11.5	10.2	11.5	12.2	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)