

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: P974143

Luminaire Tested: FLR2-24-65-L930-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974143
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: FLR2-24-65-L930-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L930-CP250
Ballast/Driver: -

Summary

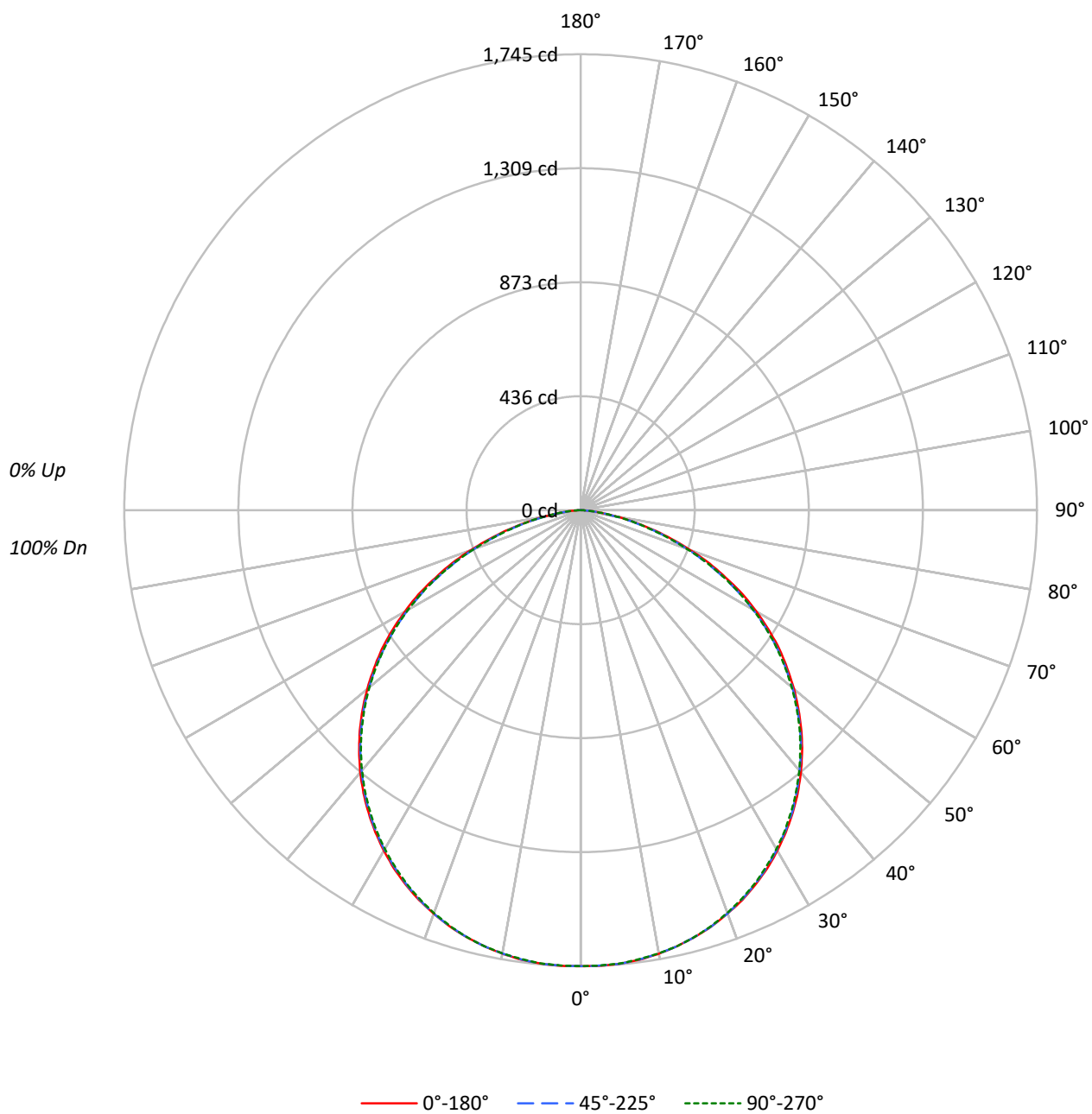
Lumens per Lamp: N/A
Luminaire Lumens: 4933.0 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
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

TEST NUMBER: P974143

CATALOG NUMBER: FLR2-24-65-L930-CP250

Luminous Intensity Polar Plot



TEST NUMBER: P974143

CATALOG NUMBER: FLR2-24-65-L930-CP250

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°	2348	2348	2348
5°	2353	2353	2351
10°	2355	2354	2353
15°	2355	2355	2355
20°	2353	2352	2349
25°	2348	2344	2340
30°	2338	2331	2326
35°	2323	2316	2308
40°	2302	2288	2285
45°	2273	2259	2252
50°	2230	2213	2206
55°	2177	2146	2143
60°	2086	2049	2049
65°	1952	1906	1912
70°	1757	1702	1697
75°	1475	1416	1410
80°	1077	1024	1068
85°	610	560	570

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2273 cd/sqm

TEST NUMBER: P974143
CATALOG NUMBER: FLR2-24-65-L930-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.7	3.4
10°-20°	477.3	9.7
20°-30°	727.7	14.8
30°-40°	881.6	17.9
40°-50°	915.8	18.6
50°-60°	819.3	16.6
60°-70°	597.1	12.1
70°-80°	295.7	6.0
80°-90°	52.8	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°	1370.6	27.8
0°-40°	2252.3	45.7
0°-60°	3987.4	80.8
0°-90°	4933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4933.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1745	1745	1745	1745	1745	
5°	1742	1743	1742	1742	1741	166
15°	1691	1690	1690	1692	1690	477
25°	1582	1580	1579	1578	1576	729
35°	1414	1412	1410	1408	1405	884
45°	1194	1192	1187	1185	1184	920
55°	928	921	915	915	914	827
65°	613	608	599	601	601	608
75°	284	279	272	277	271	302
85°	40	36	36	37	37	55
90°	0	0	0	0	0	

TEST NUMBER: P974143

CATALOG NUMBER: FLR2-24-65-L930-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1745.4	1745.4	1745.4	1745.4	1745.4
2.5°	1745.4	1744.8	1744.8	1745.4	1744.1
5°	1742.3	1742.9	1742.3	1742.3	1741.0
7.5°	1735.4	1734.7	1734.1	1734.7	1732.9
10°	1723.5	1723.5	1722.8	1723.5	1722.2
12.5°	1709.1	1709.1	1709.1	1709.7	1709.1
15°	1690.9	1690.3	1690.3	1691.5	1690.3
17.5°	1669.6	1669.0	1669.0	1668.4	1667.1
20°	1643.3	1643.3	1642.7	1642.1	1640.2
22.5°	1615.1	1614.5	1612.6	1612.6	1610.1
25°	1581.9	1580.1	1578.8	1578.2	1576.3
27.5°	1545.6	1543.1	1541.2	1540.0	1538.1
30°	1504.9	1502.4	1500.5	1498.6	1497.4
32.5°	1461.1	1459.8	1456.7	1456.1	1453.5
35°	1414.1	1412.2	1410.3	1407.8	1405.3
37.5°	1364.0	1362.1	1357.7	1356.5	1354.6
40°	1310.8	1308.3	1302.6	1302.6	1300.7
42.5°	1253.8	1251.3	1247.5	1245.0	1243.8
45°	1194.3	1191.8	1187.4	1184.9	1183.6
47.5°	1131.0	1129.1	1124.1	1122.3	1120.4
50°	1065.3	1062.8	1057.1	1055.9	1054.0
52.5°	996.4	995.1	987.6	987.0	985.1
55°	928.1	921.2	915.0	915.0	913.7
57.5°	853.0	848.0	839.8	839.8	838.6
60°	775.3	770.9	761.5	762.8	761.5
62.5°	699.5	690.1	681.4	685.1	682.0
65°	613.1	608.1	598.7	601.2	600.6
67.5°	534.2	524.8	516.0	521.0	518.5
70°	446.5	441.5	432.7	437.8	431.5
72.5°	363.9	359.5	350.7	356.3	350.1
75°	283.7	279.3	272.4	277.4	271.2
77.5°	207.9	204.8	198.5	203.5	204.8
80°	139.0	135.3	132.1	136.5	137.8
82.5°	81.4	78.9	77.7	78.3	81.4
85°	39.5	36.3	36.3	36.9	36.9
87.5°	10.6	9.4	10.6	11.3	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)