

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: P974621

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

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974621
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: FLR2-24-65HE-L930-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

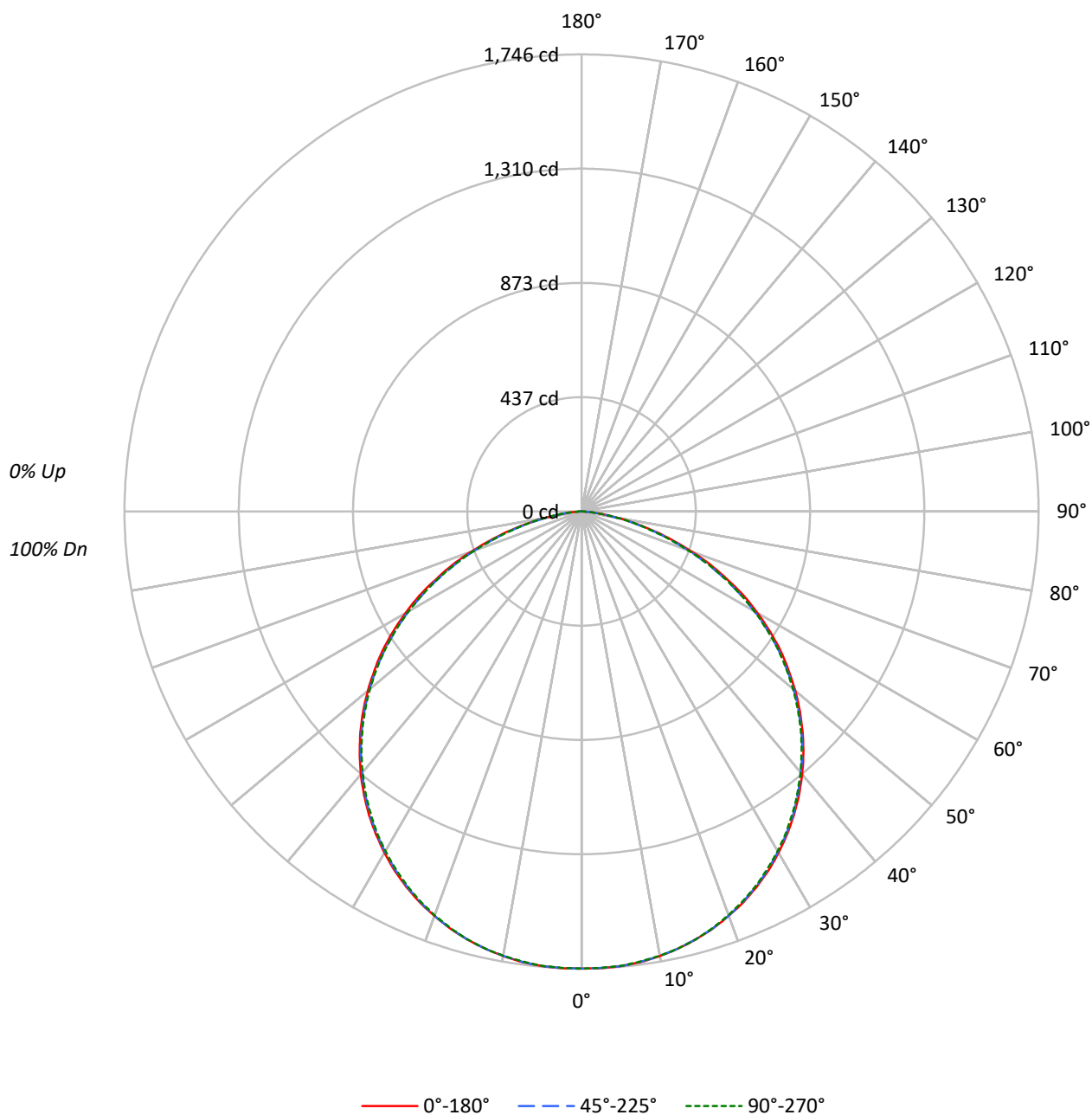
Lumens per Lamp: N/A
Luminaire Lumens: 4936.1 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.9
Input Voltage (V):
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°	2350	2350	2350
5°	2355	2355	2353
10°	2356	2355	2354
15°	2357	2356	2356
20°	2354	2354	2350
25°	2350	2345	2342
30°	2339	2333	2328
35°	2324	2318	2310
40°	2304	2289	2286
45°	2274	2261	2254
50°	2231	2214	2207
55°	2179	2148	2145
60°	2088	2051	2051
65°	1953	1907	1913
70°	1758	1703	1699
75°	1476	1417	1410
80°	1078	1024	1068
85°	610	560	571

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2274 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	3.4
10°-20°	477.6	9.7
20°-30°	728.1	14.8
30°-40°	882.2	17.9
40°-50°	916.4	18.6
50°-60°	819.8	16.6
60°-70°	597.5	12.1
70°-80°	295.9	6.0
80°-90°	52.9	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°	1371.5	27.8
0°-40°	2253.7	45.7
0°-60°	3989.8	80.8
0°-90°	4936.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4936.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1746	1746	1746	1746	1746	
5°	1743	1744	1743	1743	1742	166
15°	1692	1691	1691	1693	1691	478
25°	1583	1581	1580	1579	1577	730
35°	1415	1413	1411	1409	1406	885
45°	1195	1192	1188	1186	1184	921
55°	929	922	916	916	914	827
65°	614	608	599	602	601	608
75°	284	280	273	278	271	303
85°	40	36	36	37	37	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1746.5	1746.5	1746.5	1746.5	1746.5
2.5°	1746.5	1745.8	1745.8	1746.5	1745.2
5°	1743.3	1744.0	1743.3	1743.3	1742.1
7.5°	1736.4	1735.8	1735.2	1735.8	1733.9
10°	1724.5	1724.5	1723.9	1724.5	1723.3
12.5°	1710.1	1710.1	1710.1	1710.8	1710.1
15°	1692.0	1691.3	1691.3	1692.6	1691.3
17.5°	1670.6	1670.0	1670.0	1669.4	1668.1
20°	1644.3	1644.3	1643.7	1643.1	1641.2
22.5°	1616.1	1615.5	1613.6	1613.6	1611.1
25°	1582.9	1581.0	1579.8	1579.2	1577.3
27.5°	1546.6	1544.1	1542.2	1540.9	1539.0
30°	1505.8	1503.3	1501.4	1499.6	1498.3
32.5°	1462.0	1460.7	1457.6	1457.0	1454.5
35°	1415.0	1413.1	1411.2	1408.7	1406.2
37.5°	1364.8	1363.0	1358.6	1357.3	1355.4
40°	1311.6	1309.1	1303.4	1303.4	1301.5
42.5°	1254.6	1252.0	1248.3	1245.8	1244.5
45°	1195.0	1192.5	1188.1	1185.6	1184.4
47.5°	1131.7	1129.8	1124.8	1123.0	1121.1
50°	1065.9	1063.4	1057.8	1056.5	1054.6
52.5°	997.0	995.7	988.2	987.6	985.7
55°	928.7	921.8	915.5	915.5	914.3
57.5°	853.5	848.5	840.3	840.3	839.1
60°	775.8	771.4	762.0	763.3	762.0
62.5°	700.0	690.6	681.8	685.6	682.4
65°	613.5	608.5	599.1	601.6	601.0
67.5°	534.5	525.1	516.4	521.4	518.9
70°	446.8	441.8	433.0	438.0	431.8
72.5°	364.1	359.7	350.9	356.6	350.3
75°	283.9	279.5	272.6	277.6	271.3
77.5°	208.0	204.9	198.6	203.7	204.9
80°	139.1	135.4	132.2	136.6	137.9
82.5°	81.5	79.0	77.7	78.3	81.5
85°	39.5	36.3	36.3	37.0	37.0
87.5°	10.7	9.4	10.7	11.3	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)