

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: P975094

Luminaire Tested: FLR2-24-65HE-L950-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975094
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-L950-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

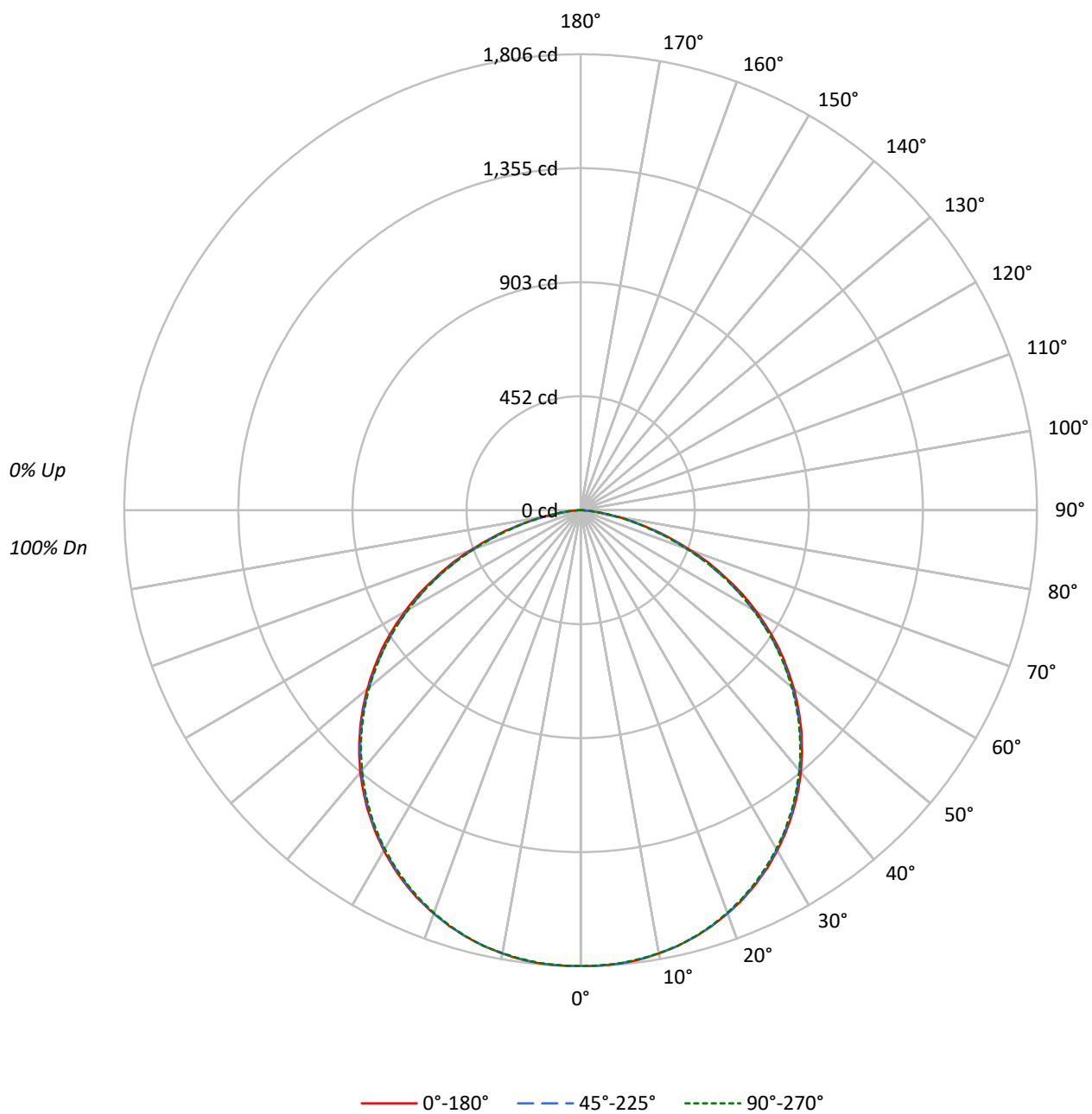
Lumens per Lamp: N/A
Luminaire Lumens: 5104.1 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P975094

CATALOG NUMBER: FLR2-24-65HE-L950-CP375

Luminous Intensity Polar Plot



TEST NUMBER: P975094

CATALOG NUMBER: FLR2-24-65HE-L950-CP375

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°	2430	2430	2430
5°	2435	2435	2433
10°	2436	2435	2435
15°	2437	2436	2436
20°	2435	2434	2430
25°	2430	2425	2421
30°	2419	2412	2407
35°	2403	2397	2388
40°	2382	2367	2364
45°	2351	2338	2330
50°	2307	2290	2283
55°	2253	2221	2218
60°	2159	2120	2120
65°	2020	1972	1978
70°	1817	1762	1757
75°	1526	1465	1459
80°	1115	1059	1105
85°	630	580	590

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2351 cd/sqm

TEST NUMBER: P975094

CATALOG NUMBER: FLR2-24-65HE-L950-CP375

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	3.4
10°-20°	493.8	9.7
20°-30°	752.9	14.8
30°-40°	912.2	17.9
40°-50°	947.6	18.6
50°-60°	847.7	16.6
60°-70°	617.8	12.1
70°-80°	306.0	6.0
80°-90°	54.7	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°	1418.2	27.8
0°-40°	2330.4	45.7
0°-60°	4125.7	80.8
0°-90°	5104.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5104.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1806	1806	1806	1806	1806	
5°	1803	1803	1803	1803	1801	171
15°	1750	1749	1749	1750	1749	494
25°	1637	1635	1634	1633	1631	754
35°	1463	1461	1459	1457	1454	915
45°	1236	1233	1229	1226	1225	952
55°	960	953	947	947	945	856
65°	634	629	620	622	621	629
75°	294	289	282	287	281	313
85°	41	38	38	38	38	57
90°	0	0	0	0	0	

TEST NUMBER: P975094

CATALOG NUMBER: FLR2-24-65HE-L950-CP375

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1805.9	1805.9	1805.9	1805.9	1805.9
2.5°	1805.9	1805.3	1805.3	1805.9	1804.6
5°	1802.7	1803.3	1802.7	1802.7	1801.4
7.5°	1795.6	1794.9	1794.3	1794.9	1793.0
10°	1783.3	1783.3	1782.6	1783.3	1782.0
12.5°	1768.4	1768.4	1768.4	1769.0	1768.4
15°	1749.6	1748.9	1748.9	1750.2	1748.9
17.5°	1727.5	1726.9	1726.9	1726.2	1724.9
20°	1700.3	1700.3	1699.7	1699.0	1697.1
22.5°	1671.2	1670.5	1668.6	1668.6	1666.0
25°	1636.8	1634.9	1633.6	1632.9	1631.0
27.5°	1599.2	1596.6	1594.7	1593.4	1591.5
30°	1557.1	1554.5	1552.6	1550.6	1549.3
32.5°	1511.8	1510.5	1507.2	1506.6	1504.0
35°	1463.2	1461.2	1459.3	1456.7	1454.1
37.5°	1411.3	1409.4	1404.8	1403.5	1401.6
40°	1356.2	1353.6	1347.8	1347.8	1345.9
42.5°	1297.3	1294.7	1290.8	1288.2	1286.9
45°	1235.7	1233.1	1228.6	1226.0	1224.7
47.5°	1170.3	1168.3	1163.1	1161.2	1159.2
50°	1102.2	1099.6	1093.8	1092.5	1090.6
52.5°	1030.9	1029.7	1021.9	1021.2	1019.3
55°	960.3	953.2	946.7	946.7	945.4
57.5°	882.6	877.4	869.0	869.0	867.7
60°	802.2	797.7	788.0	789.2	788.0
62.5°	723.8	714.1	705.0	708.9	705.7
65°	634.4	629.2	619.5	622.1	621.4
67.5°	552.7	543.0	533.9	539.1	536.5
70°	462.0	456.8	447.8	452.9	446.5
72.5°	376.5	371.9	362.9	368.7	362.2
75°	293.5	289.0	281.9	287.1	280.6
77.5°	215.1	211.9	205.4	210.6	211.9
80°	143.9	140.0	136.7	141.3	142.6
82.5°	84.2	81.6	80.4	81.0	84.2
85°	40.8	37.6	37.6	38.2	38.2
87.5°	11.0	9.7	11.0	11.7	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)