

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: P975014

Luminaire Tested: FLR2-24-40HE-L850-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975014
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: FLR2-24-40HE-L850-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

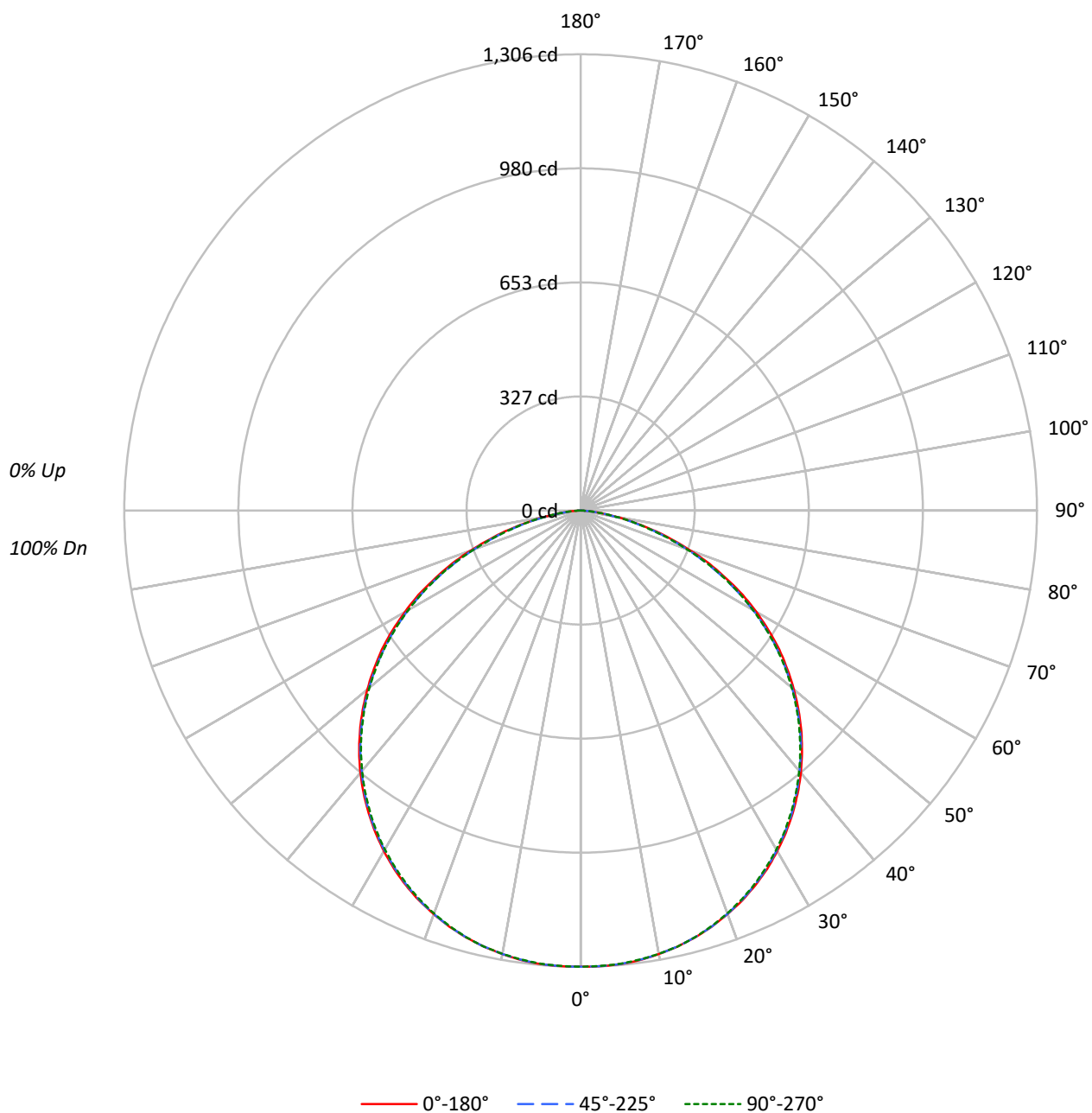
Lumens per Lamp: N/A
Luminaire Lumens: 3690.9 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.9
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: P975014

CATALOG NUMBER: FLR2-24-40HE-L850-CP375

Luminous Intensity Polar Plot



TEST NUMBER: P975014

CATALOG NUMBER: FLR2-24-40HE-L850-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°	1757	1757	1757
5°	1761	1761	1759
10°	1762	1761	1761
15°	1762	1762	1762
20°	1760	1760	1757
25°	1757	1754	1751
30°	1749	1744	1741
35°	1738	1733	1727
40°	1723	1712	1709
45°	1700	1690	1685
50°	1668	1656	1651
55°	1629	1606	1604
60°	1561	1533	1533
65°	1460	1426	1431
70°	1314	1274	1270
75°	1104	1059	1055
80°	806	766	799
85°	455	420	426

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1700 cd/sqm

TEST NUMBER: P975014

CATALOG NUMBER: FLR2-24-40HE-L850-CP375

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	3.4
10°-20°	357.1	9.7
20°-30°	544.5	14.8
30°-40°	659.6	17.9
40°-50°	685.2	18.6
50°-60°	613.0	16.6
60°-70°	446.8	12.1
70°-80°	221.2	6.0
80°-90°	39.5	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°	1025.5	27.8
0°-40°	1685.2	45.7
0°-60°	2983.4	80.8
0°-90°	3690.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3690.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1306	1306	1306	1306	1306	
5°	1304	1304	1304	1304	1303	124
15°	1265	1265	1265	1266	1265	357
25°	1184	1182	1181	1181	1179	545
35°	1058	1057	1055	1053	1052	662
45°	894	892	888	886	886	689
55°	694	689	685	685	684	619
65°	459	455	448	450	449	455
75°	212	209	204	208	203	226
85°	30	27	27	28	28	41
90°	0	0	0	0	0	

TEST NUMBER: P975014

CATALOG NUMBER: FLR2-24-40HE-L850-CP375

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1305.9	1305.9	1305.9	1305.9	1305.9
2.5°	1305.9	1305.4	1305.4	1305.9	1305.0
5°	1303.6	1304.0	1303.6	1303.6	1302.6
7.5°	1298.4	1297.9	1297.5	1297.9	1296.5
10°	1289.5	1289.5	1289.0	1289.5	1288.6
12.5°	1278.7	1278.7	1278.7	1279.2	1278.7
15°	1265.1	1264.7	1264.7	1265.6	1264.7
17.5°	1249.2	1248.7	1248.7	1248.3	1247.3
20°	1229.5	1229.5	1229.1	1228.6	1227.2
22.5°	1208.4	1208.0	1206.6	1206.6	1204.7
25°	1183.6	1182.2	1181.3	1180.8	1179.4
27.5°	1156.4	1154.6	1153.2	1152.2	1150.8
30°	1126.0	1124.1	1122.7	1121.3	1120.4
32.5°	1093.2	1092.2	1089.9	1089.4	1087.6
35°	1058.0	1056.6	1055.2	1053.3	1051.5
37.5°	1020.5	1019.1	1015.9	1014.9	1013.5
40°	980.7	978.8	974.6	974.6	973.2
42.5°	938.1	936.2	933.4	931.5	930.6
45°	893.6	891.7	888.4	886.5	885.6
47.5°	846.2	844.8	841.1	839.7	838.3
50°	797.0	795.2	790.9	790.0	788.6
52.5°	745.5	744.6	738.9	738.5	737.1
55°	694.4	689.3	684.6	684.6	683.6
57.5°	638.2	634.4	628.4	628.4	627.4
60°	580.1	576.8	569.8	570.7	569.8
62.5°	523.4	516.4	509.8	512.6	510.3
65°	458.7	455.0	448.0	449.8	449.4
67.5°	399.7	392.7	386.1	389.9	388.0
70°	334.1	330.3	323.8	327.5	322.8
72.5°	272.2	269.0	262.4	266.6	261.9
75°	212.3	209.0	203.8	207.6	202.9
77.5°	155.6	153.2	148.5	152.3	153.2
80°	104.0	101.2	98.9	102.1	103.1
82.5°	60.9	59.0	58.1	58.6	60.9
85°	29.5	27.2	27.2	27.6	27.6
87.5°	8.0	7.0	8.0	8.4	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)