

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: P975112

Luminaire Tested: FLR2-24-35HE-L950-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975112
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: FLR2-24-35HE-L950-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

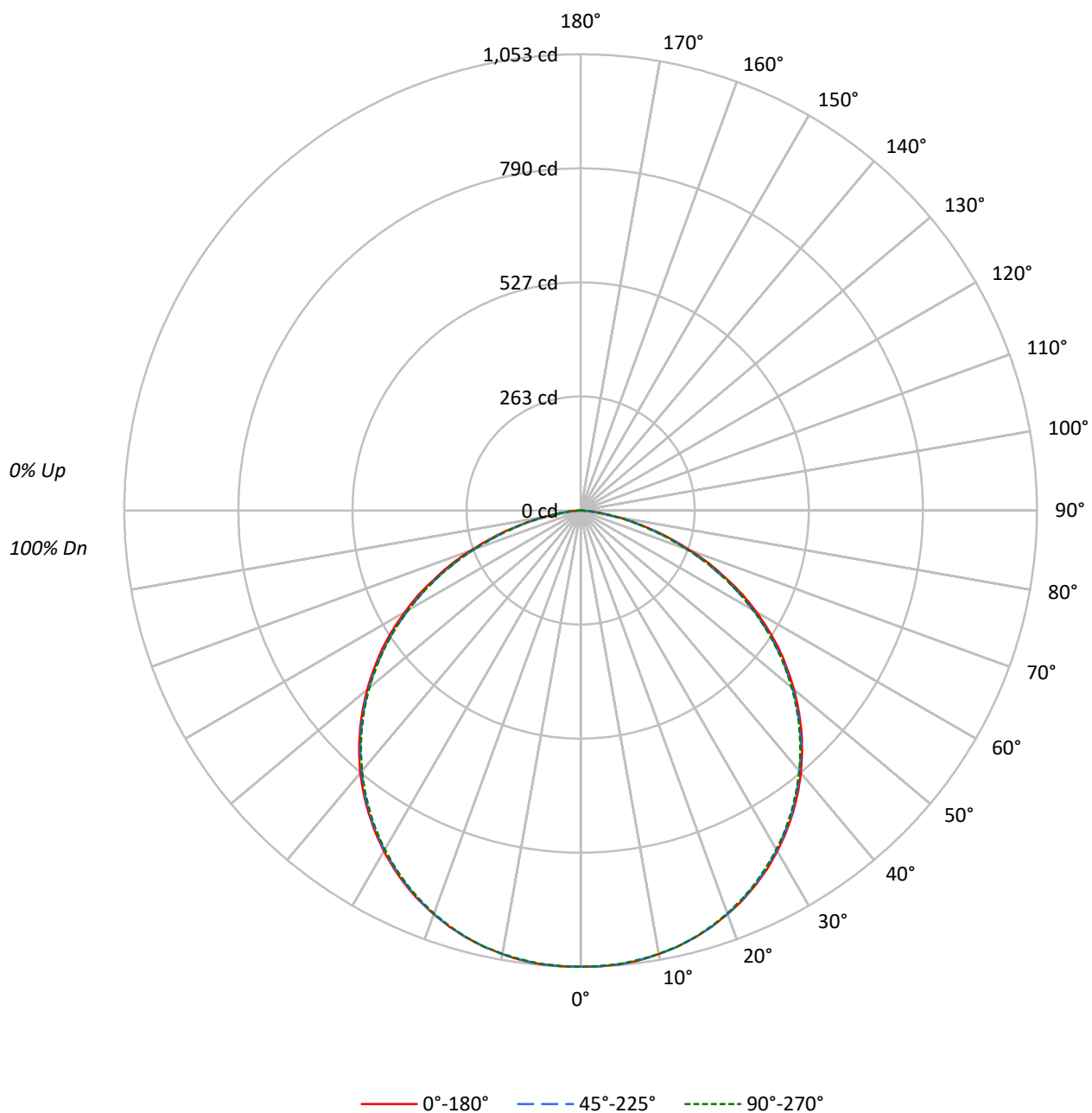
Lumens per Lamp: N/A
Luminaire Lumens: 2976.0 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.6
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: P975112

CATALOG NUMBER: FLR2-24-35HE-L950-CA125

Luminous Intensity Polar Plot



TEST NUMBER: P975112

CATALOG NUMBER: FLR2-24-35HE-L950-CA125

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°	1417	1417	1417
5°	1420	1420	1419
10°	1420	1420	1420
15°	1421	1420	1420
20°	1420	1419	1417
25°	1417	1414	1412
30°	1411	1406	1403
35°	1401	1397	1393
40°	1389	1380	1378
45°	1371	1363	1359
50°	1345	1335	1331
55°	1313	1295	1293
60°	1259	1236	1236
65°	1178	1150	1153
70°	1060	1027	1024
75°	889	854	850
80°	650	618	644
85°	367	338	344

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1371 cd/sqm

TEST NUMBER: P975112

CATALOG NUMBER: FLR2-24-35HE-L950-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	3.4
10°-20°	287.9	9.7
20°-30°	439.0	14.8
30°-40°	531.9	17.9
40°-50°	552.5	18.6
50°-60°	494.2	16.6
60°-70°	360.2	12.1
70°-80°	178.4	6.0
80°-90°	31.9	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°	826.9	27.8
0°-40°	1358.8	45.7
0°-60°	2405.5	80.8
0°-90°	2976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2976.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1053	1053	1053	1053	1053	
5°	1051	1051	1051	1051	1050	100
15°	1020	1020	1020	1020	1020	288
25°	954	953	952	952	951	440
35°	853	852	851	849	848	534
45°	720	719	716	715	714	555
55°	560	556	552	552	551	499
65°	370	367	361	363	362	367
75°	171	168	164	167	164	182
85°	24	22	22	22	22	33
90°	0	0	0	0	0	

TEST NUMBER: P975112

CATALOG NUMBER: FLR2-24-35HE-L950-CA125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1053.0	1053.0	1053.0	1053.0	1053.0
2.5°	1053.0	1052.6	1052.6	1053.0	1052.2
5°	1051.1	1051.4	1051.1	1051.1	1050.3
7.5°	1046.9	1046.5	1046.2	1046.5	1045.4
10°	1039.7	1039.7	1039.4	1039.7	1039.0
12.5°	1031.0	1031.0	1031.0	1031.4	1031.0
15°	1020.1	1019.7	1019.7	1020.5	1019.7
17.5°	1007.2	1006.9	1006.9	1006.5	1005.7
20°	991.4	991.4	991.0	990.6	989.5
22.5°	974.4	974.0	972.9	972.9	971.3
25°	954.3	953.2	952.5	952.1	950.9
27.5°	932.4	930.9	929.8	929.0	927.9
30°	907.9	906.4	905.2	904.1	903.3
32.5°	881.4	880.7	878.8	878.4	876.9
35°	853.1	852.0	850.8	849.3	847.8
37.5°	822.9	821.7	819.1	818.3	817.2
40°	790.8	789.2	785.8	785.8	784.7
42.5°	756.4	754.9	752.6	751.1	750.3
45°	720.5	719.0	716.3	714.8	714.1
47.5°	682.3	681.2	678.2	677.0	675.9
50°	642.7	641.1	637.7	637.0	635.9
52.5°	601.1	600.3	595.8	595.4	594.3
55°	559.9	555.8	552.0	552.0	551.2
57.5°	514.6	511.6	506.6	506.6	505.9
60°	467.7	465.1	459.4	460.2	459.4
62.5°	422.0	416.3	411.1	413.3	411.4
65°	369.9	366.9	361.2	362.7	362.3
67.5°	322.3	316.6	311.3	314.3	312.8
70°	269.4	266.4	261.1	264.1	260.3
72.5°	219.5	216.9	211.6	215.0	211.2
75°	171.1	168.5	164.3	167.4	163.6
77.5°	125.4	123.5	119.8	122.8	123.5
80°	83.9	81.6	79.7	82.4	83.1
82.5°	49.1	47.6	46.8	47.2	49.1
85°	23.8	21.9	21.9	22.3	22.3
87.5°	6.4	5.7	6.4	6.8	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)