

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: P974475

Luminaire Tested: FLR2-24-35-L950-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974475
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: FLR2-24-35-L950-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L950-CP250
Ballast/Driver: -

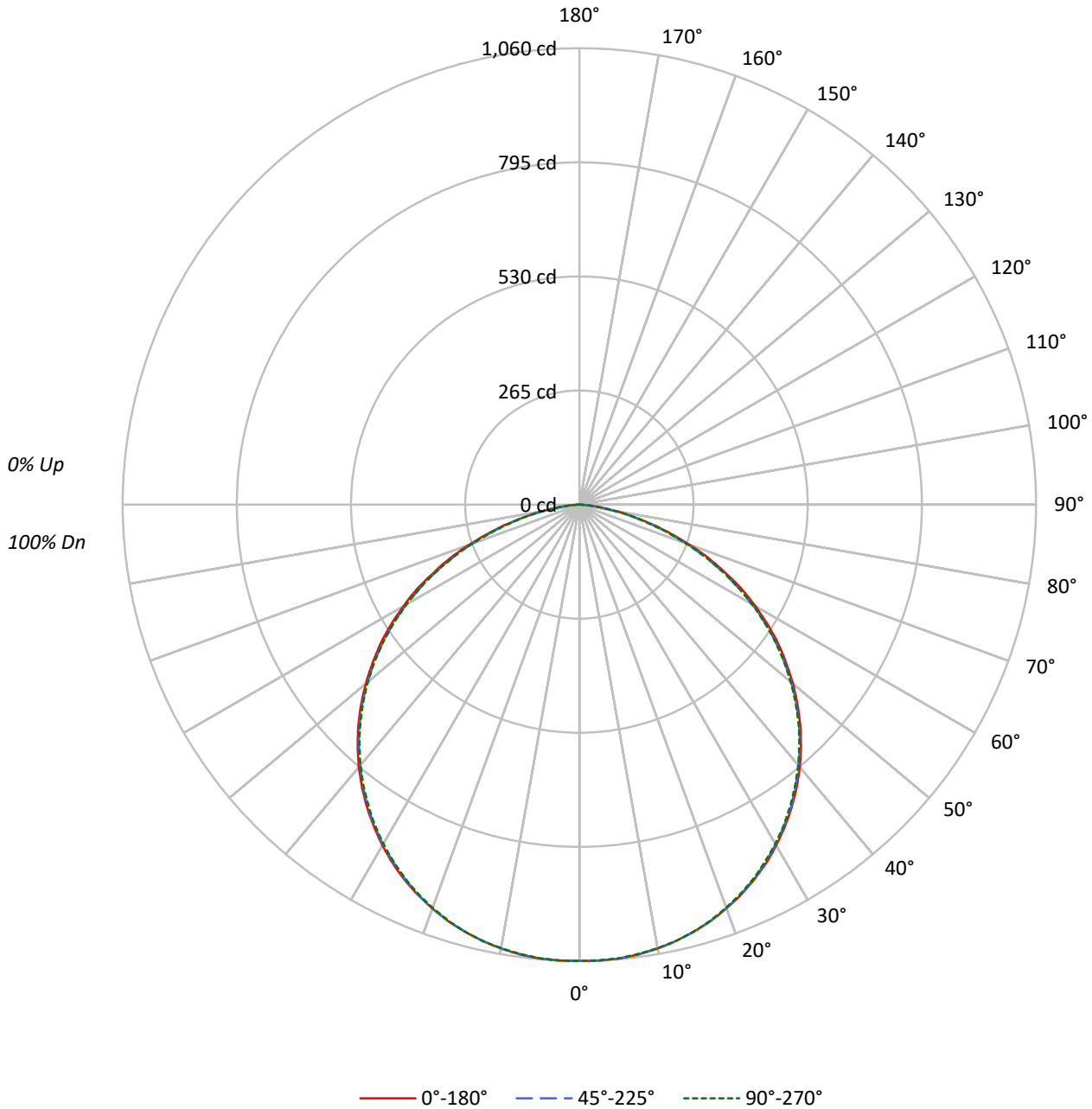
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2996.4 lumens
Efficiency: N/A
Efficacy: 105.5 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): 28.4
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: P974475
CATALOG NUMBER: FLR2-24-35-L950-CP250

Luminous Intensity Polar Plot





TEST NUMBER: P974475
 CATALOG NUMBER: FLR2-24-35-L950-CP250

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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°	1426	1426	1426
5°	1429	1429	1428
10°	1430	1430	1429
15°	1431	1430	1430
20°	1429	1429	1427
25°	1427	1424	1421
30°	1420	1416	1413
35°	1411	1407	1402
40°	1398	1390	1388
45°	1380	1372	1368
50°	1355	1344	1340
55°	1323	1304	1302
60°	1267	1245	1245
65°	1186	1158	1161
70°	1067	1034	1031
75°	896	860	856
80°	654	622	649
85°	371	341	346

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1380 cd/sqm



TEST NUMBER: P974475
 CATALOG NUMBER: FLR2-24-35-L950-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	3.4
10°-20°	289.9	9.7
20°-30°	442.0	14.8
30°-40°	535.5	17.9
40°-50°	556.3	18.6
50°-60°	497.6	16.6
60°-70°	362.7	12.1
70°-80°	179.6	6.0
80°-90°	32.1	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°	832.6	27.8
0°-40°	1368.1	45.7
0°-60°	2422.0	80.8
0°-90°	2996.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2996.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1058	1059	1058	1058	1058	101
15°	1027	1027	1027	1028	1027	290
25°	961	960	959	959	958	443
35°	859	858	857	855	854	537
45°	725	724	721	720	719	559
55°	564	560	556	556	555	502
65°	372	369	364	365	365	369
75°	172	170	166	168	165	184
85°	24	22	22	22	22	33
90°	0	0	0	0	0	



TEST NUMBER: P974475
 CATALOG NUMBER: FLR2-24-35-L950-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1060.2	1060.2	1060.2	1060.2	1060.2
2.5°	1060.2	1059.8	1059.8	1060.2	1059.4
5°	1058.3	1058.7	1058.3	1058.3	1057.5
7.5°	1054.1	1053.7	1053.3	1053.7	1052.6
10°	1046.9	1046.9	1046.5	1046.9	1046.1
12.5°	1038.1	1038.1	1038.1	1038.5	1038.1
15°	1027.1	1026.7	1026.7	1027.5	1026.7
17.5°	1014.1	1013.8	1013.8	1013.4	1012.6
20°	998.2	998.2	997.8	997.4	996.3
22.5°	981.0	980.7	979.5	979.5	978.0
25°	960.9	959.7	959.0	958.6	957.5
27.5°	938.8	937.3	936.2	935.4	934.3
30°	914.1	912.6	911.4	910.3	909.5
32.5°	887.5	886.7	884.8	884.4	882.9
35°	858.9	857.8	856.7	855.1	853.6
37.5°	828.5	827.4	824.7	823.9	822.8
40°	796.2	794.7	791.2	791.2	790.1
42.5°	761.6	760.0	757.8	756.2	755.5
45°	725.4	723.9	721.2	719.7	719.0
47.5°	687.0	685.9	682.8	681.7	680.5
50°	647.1	645.5	642.1	641.4	640.2
52.5°	605.2	604.5	599.9	599.5	598.4
55°	563.8	559.6	555.8	555.8	555.0
57.5°	518.1	515.1	510.1	510.1	509.4
60°	470.9	468.3	462.6	463.3	462.6
62.5°	424.9	419.2	413.9	416.2	414.3
65°	372.4	369.4	363.7	365.2	364.8
67.5°	324.5	318.8	313.4	316.5	315.0
70°	271.2	268.2	262.9	265.9	262.1
72.5°	221.0	218.3	213.0	216.4	212.6
75°	172.3	169.7	165.5	168.5	164.7
77.5°	126.3	124.4	120.6	123.6	124.4
80°	84.4	82.2	80.3	82.9	83.7
82.5°	49.5	47.9	47.2	47.5	49.5
85°	24.0	22.1	22.1	22.4	22.4
87.5°	6.5	5.7	6.5	6.8	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)