

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: P974467

Luminaire Tested: FLR2-24-35-L950-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974467
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L950-CP187
Ballast/Driver: -

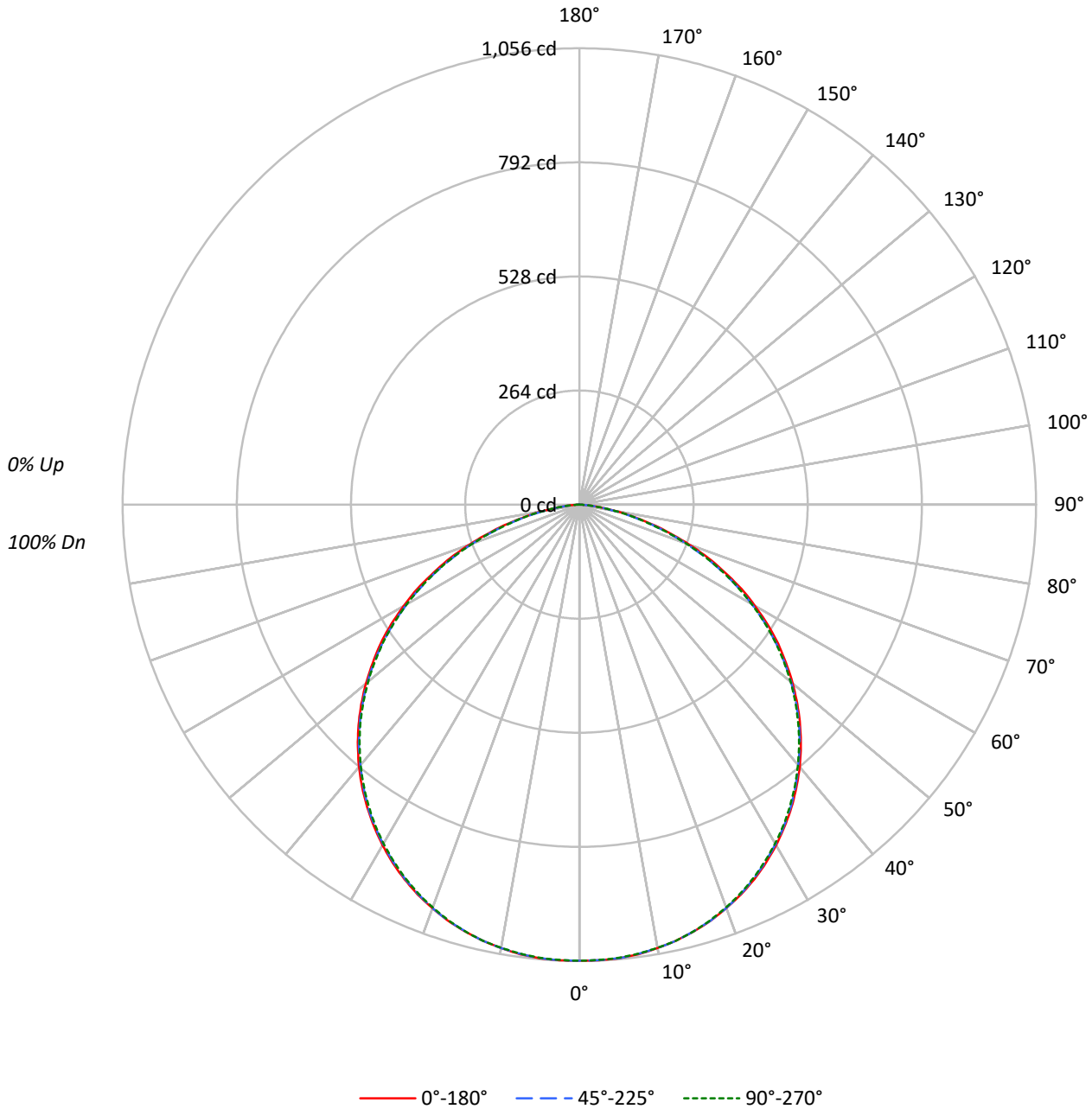
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2983.2 lumens
Efficiency: N/A
Efficacy: 105.0 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: P974467
CATALOG NUMBER: FLR2-24-35-L950-CP187

Luminous Intensity Polar Plot





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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°	1420	1420	1420
5°	1423	1423	1422
10°	1424	1423	1423
15°	1424	1424	1424
20°	1423	1422	1420
25°	1420	1417	1415
30°	1414	1410	1407
35°	1405	1401	1396
40°	1392	1384	1382
45°	1374	1366	1362
50°	1348	1338	1334
55°	1317	1298	1296
60°	1262	1239	1239
65°	1181	1153	1156
70°	1062	1030	1026
75°	892	856	853
80°	652	619	645
85°	369	340	344

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1374 cd/sqm



TEST NUMBER: P974467
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	3.4
10°-20°	288.6	9.7
20°-30°	440.1	14.8
30°-40°	533.2	17.9
40°-50°	553.8	18.6
50°-60°	495.4	16.6
60°-70°	361.1	12.1
70°-80°	178.8	6.0
80°-90°	32.0	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°	828.9	27.8
0°-40°	1362.0	45.7
0°-60°	2411.3	80.8
0°-90°	2983.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2983.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1054	1054	1054	1054	1053	100
15°	1022	1022	1022	1023	1022	289
25°	957	956	955	954	953	441
35°	855	854	853	851	850	535
45°	722	721	718	716	716	557
55°	561	557	553	553	553	500
65°	371	368	362	364	363	368
75°	172	169	165	168	164	183
85°	24	22	22	22	22	33
90°	0	0	0	0	0	



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 CATALOG NUMBER: FLR2-24-35-L950-CP187

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1055.5	1055.5	1055.5	1055.5	1055.5
2.5°	1055.5	1055.1	1055.1	1055.5	1054.7
5°	1053.6	1054.0	1053.6	1053.6	1052.8
7.5°	1049.4	1049.1	1048.7	1049.1	1047.9
10°	1042.2	1042.2	1041.9	1042.2	1041.5
12.5°	1033.5	1033.5	1033.5	1033.9	1033.5
15°	1022.5	1022.2	1022.2	1022.9	1022.2
17.5°	1009.7	1009.3	1009.3	1008.9	1008.2
20°	993.8	993.8	993.4	993.0	991.9
22.5°	976.7	976.3	975.2	975.2	973.7
25°	956.7	955.5	954.8	954.4	953.2
27.5°	934.7	933.2	932.0	931.3	930.1
30°	910.1	908.6	907.4	906.3	905.5
32.5°	883.6	882.8	880.9	880.5	879.0
35°	855.2	854.0	852.9	851.4	849.9
37.5°	824.9	823.7	821.1	820.3	819.2
40°	792.7	791.1	787.7	787.7	786.6
42.5°	758.2	756.7	754.4	752.9	752.1
45°	722.2	720.7	718.1	716.5	715.8
47.5°	684.0	682.8	679.8	678.7	677.5
50°	644.2	642.7	639.3	638.5	637.4
52.5°	602.5	601.8	597.2	596.9	595.7
55°	561.3	557.1	553.3	553.3	552.6
57.5°	515.8	512.8	507.9	507.9	507.1
60°	468.9	466.2	460.5	461.3	460.5
62.5°	423.0	417.4	412.0	414.3	412.4
65°	370.8	367.7	362.1	363.6	363.2
67.5°	323.0	317.4	312.1	315.1	313.6
70°	270.0	267.0	261.7	264.7	260.9
72.5°	220.0	217.4	212.1	215.5	211.7
75°	171.6	168.9	164.7	167.8	164.0
77.5°	125.7	123.8	120.1	123.1	123.8
80°	84.1	81.8	79.9	82.6	83.3
82.5°	49.2	47.7	47.0	47.3	49.2
85°	23.9	22.0	22.0	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)