

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: P973700

Luminaire Tested: FLR2-22-45-L950-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-45-L950-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

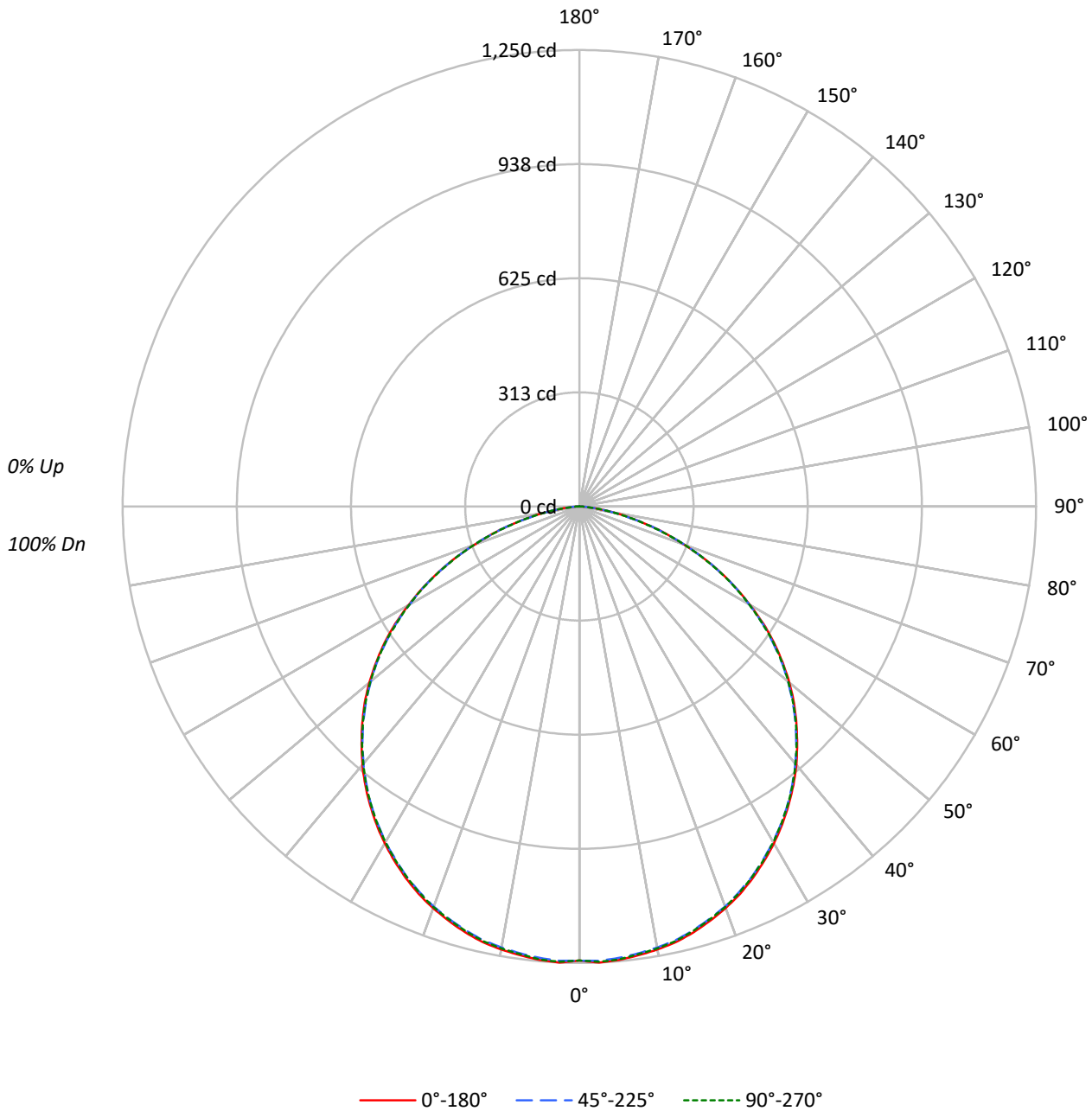
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3477.5 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.1
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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3346	3346	3346
5°	3367	3353	3363
10°	3366	3352	3358
15°	3364	3349	3353
20°	3352	3339	3343
25°	3334	3320	3323
30°	3310	3296	3298
35°	3280	3268	3270
40°	3246	3230	3232
45°	3198	3183	3189
50°	3141	3119	3126
55°	3052	3027	3038
60°	2902	2890	2890
65°	2709	2704	2695
70°	2399	2412	2405
75°	2020	2005	1989
80°	1452	1429	1416
85°	760	760	735

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3198 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	3.4
10°-20°	338.6	9.7
20°-30°	514.6	14.8
30°-40°	622.0	17.9
40°-50°	645.6	18.6
50°-60°	577.2	16.6
60°-70°	419.7	12.1
70°-80°	206.4	5.9
80°-90°	35.8	1.0
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°	971.0	27.9
0°-40°	1593.0	45.8
0°-60°	2815.7	81.0
0°-90°	3477.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3477.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1244	1244	1244	1244	1244	
5°	1247	1232	1241	1237	1245	118
15°	1207	1194	1202	1199	1204	341
25°	1123	1111	1118	1116	1119	518
35°	998	992	995	995	995	625
45°	840	836	836	838	838	648
55°	651	647	645	647	648	580
65°	426	427	425	425	423	420
75°	194	196	193	194	191	206
85°	25	25	25	25	24	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1243.5	1243.5	1243.5	1243.5	1243.5
2.5°	1250.4	1235.8	1245.1	1239.7	1248.1
5°	1246.6	1232.0	1241.2	1236.6	1245.1
7.5°	1239.7	1225.1	1234.3	1229.7	1236.6
10°	1232.0	1216.6	1226.6	1222.0	1228.9
12.5°	1222.0	1207.4	1216.6	1212.8	1218.9
15°	1207.4	1193.6	1202.0	1199.0	1203.6
17.5°	1189.8	1175.9	1184.4	1182.1	1185.9
20°	1170.5	1157.5	1165.9	1163.6	1167.5
22.5°	1149.0	1135.2	1142.9	1141.4	1144.4
25°	1122.9	1110.6	1118.3	1116.0	1119.1
27.5°	1095.3	1083.8	1089.9	1089.9	1091.4
30°	1065.3	1054.6	1060.7	1060.7	1061.5
32.5°	1033.1	1024.6	1028.5	1029.2	1029.2
35°	998.5	991.6	994.7	995.4	995.4
37.5°	962.4	955.5	957.8	959.3	959.3
40°	924.0	917.9	919.4	920.9	920.2
42.5°	882.5	877.9	878.7	880.2	880.2
45°	840.3	836.4	836.4	838.0	838.0
47.5°	797.3	793.4	791.9	793.4	793.4
50°	750.4	746.6	745.0	746.6	746.6
52.5°	701.3	697.4	697.4	697.4	698.2
55°	650.6	646.7	645.2	646.7	647.5
57.5°	596.8	595.3	593.0	593.7	591.4
60°	539.2	539.2	536.9	538.4	536.9
62.5°	483.1	484.7	482.4	482.4	480.8
65°	425.5	427.1	424.7	424.7	423.2
67.5°	366.4	368.7	365.6	365.6	364.1
70°	304.9	309.5	306.5	307.2	305.7
72.5°	249.6	251.9	248.9	248.9	247.3
75°	194.3	195.9	192.8	193.6	191.3
77.5°	139.8	142.1	139.0	139.8	139.0
80°	93.7	94.5	92.2	92.9	91.4
82.5°	54.5	55.3	54.5	53.8	53.0
85°	24.6	25.3	24.6	24.6	23.8
87.5°	6.1	6.1	6.1	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)