

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: P973692

Luminaire Tested: FLR2-22-45-L850-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973692
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-L850-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

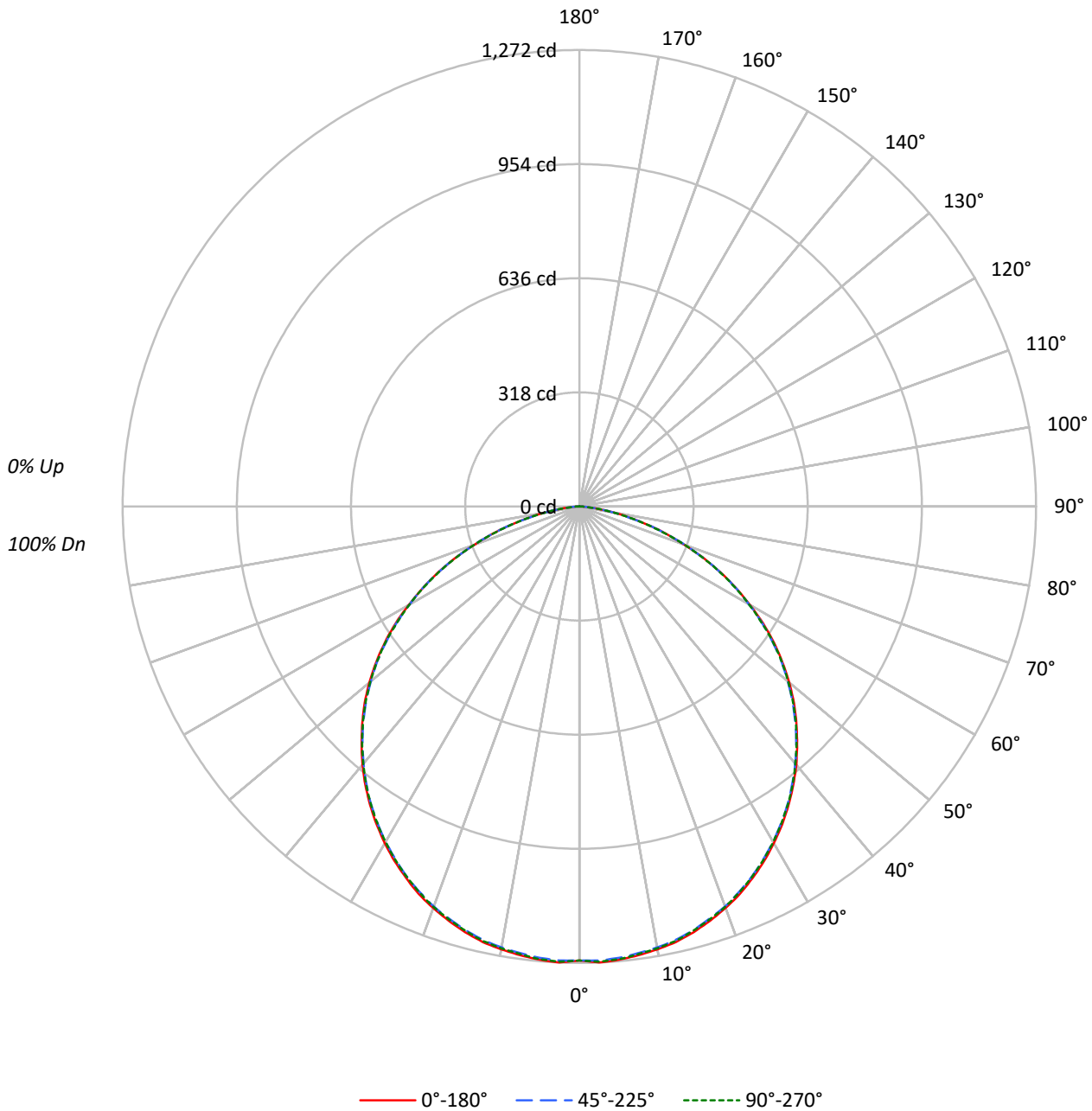
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3537.9 lumens
Efficiency: N/A
Efficacy: 98.0 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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	3404	3404	3404
5°	3426	3411	3421
10°	3425	3410	3416
15°	3422	3407	3411
20°	3410	3397	3401
25°	3392	3378	3380
30°	3368	3353	3356
35°	3337	3324	3327
40°	3302	3286	3288
45°	3253	3238	3244
50°	3196	3173	3180
55°	3105	3080	3090
60°	2952	2940	2940
65°	2756	2751	2742
70°	2441	2453	2447
75°	2056	2039	2023
80°	1477	1454	1441
85°	772	772	747

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3253 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	3.4
10°-20°	344.5	9.7
20°-30°	523.5	14.8
30°-40°	632.8	17.9
40°-50°	656.8	18.6
50°-60°	587.2	16.6
60°-70°	426.9	12.1
70°-80°	209.9	5.9
80°-90°	36.4	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°	987.8	27.9
0°-40°	1620.6	45.8
0°-60°	2864.6	81.0
0°-90°	3537.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3537.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1265	1265	1265	1265	1265	
5°	1268	1253	1263	1258	1267	121
15°	1228	1214	1223	1220	1224	347
25°	1142	1130	1138	1135	1138	527
35°	1016	1009	1012	1013	1013	636
45°	855	851	851	852	852	659
55°	662	658	656	658	659	590
65°	433	434	432	432	431	427
75°	198	199	196	197	195	210
85°	25	26	25	25	24	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1265.1	1265.1	1265.1	1265.1	1265.1
2.5°	1272.1	1257.3	1266.6	1261.2	1269.8
5°	1268.2	1253.4	1262.7	1258.1	1266.6
7.5°	1261.2	1246.3	1255.7	1251.0	1258.1
10°	1253.4	1237.7	1247.9	1243.2	1250.2
12.5°	1243.2	1228.4	1237.7	1233.8	1240.1
15°	1228.4	1214.3	1222.9	1219.8	1224.5
17.5°	1210.4	1196.3	1204.9	1202.6	1206.5
20°	1190.9	1177.6	1186.2	1183.8	1187.7
22.5°	1169.0	1154.9	1162.7	1161.2	1164.3
25°	1142.4	1129.9	1137.7	1135.4	1138.5
27.5°	1114.3	1102.6	1108.8	1108.8	1110.4
30°	1083.8	1072.9	1079.1	1079.1	1079.9
32.5°	1051.0	1042.4	1046.3	1047.1	1047.1
35°	1015.8	1008.8	1011.9	1012.7	1012.7
37.5°	979.1	972.1	974.4	976.0	976.0
40°	940.0	933.8	935.3	936.9	936.1
42.5°	897.8	893.1	893.9	895.5	895.5
45°	854.9	850.9	850.9	852.5	852.5
47.5°	811.1	807.2	805.6	807.2	807.2
50°	763.4	759.5	758.0	759.5	759.5
52.5°	713.4	709.5	709.5	709.5	710.3
55°	661.8	657.9	656.4	657.9	658.7
57.5°	607.1	605.6	603.2	604.0	601.7
60°	548.5	548.5	546.2	547.8	546.2
62.5°	491.5	493.1	490.7	490.7	489.2
65°	432.9	434.5	432.1	432.1	430.6
67.5°	372.7	375.1	371.9	371.9	370.4
70°	310.2	314.9	311.8	312.6	311.0
72.5°	254.0	256.3	253.2	253.2	251.6
75°	197.7	199.3	196.1	196.9	194.6
77.5°	142.2	144.6	141.4	142.2	141.4
80°	95.3	96.1	93.8	94.5	93.0
82.5°	55.5	56.3	55.5	54.7	53.9
85°	25.0	25.8	25.0	25.0	24.2
87.5°	6.3	6.3	6.3	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)