

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: P974499

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

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974499
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L950-CA125
Ballast/Driver: -

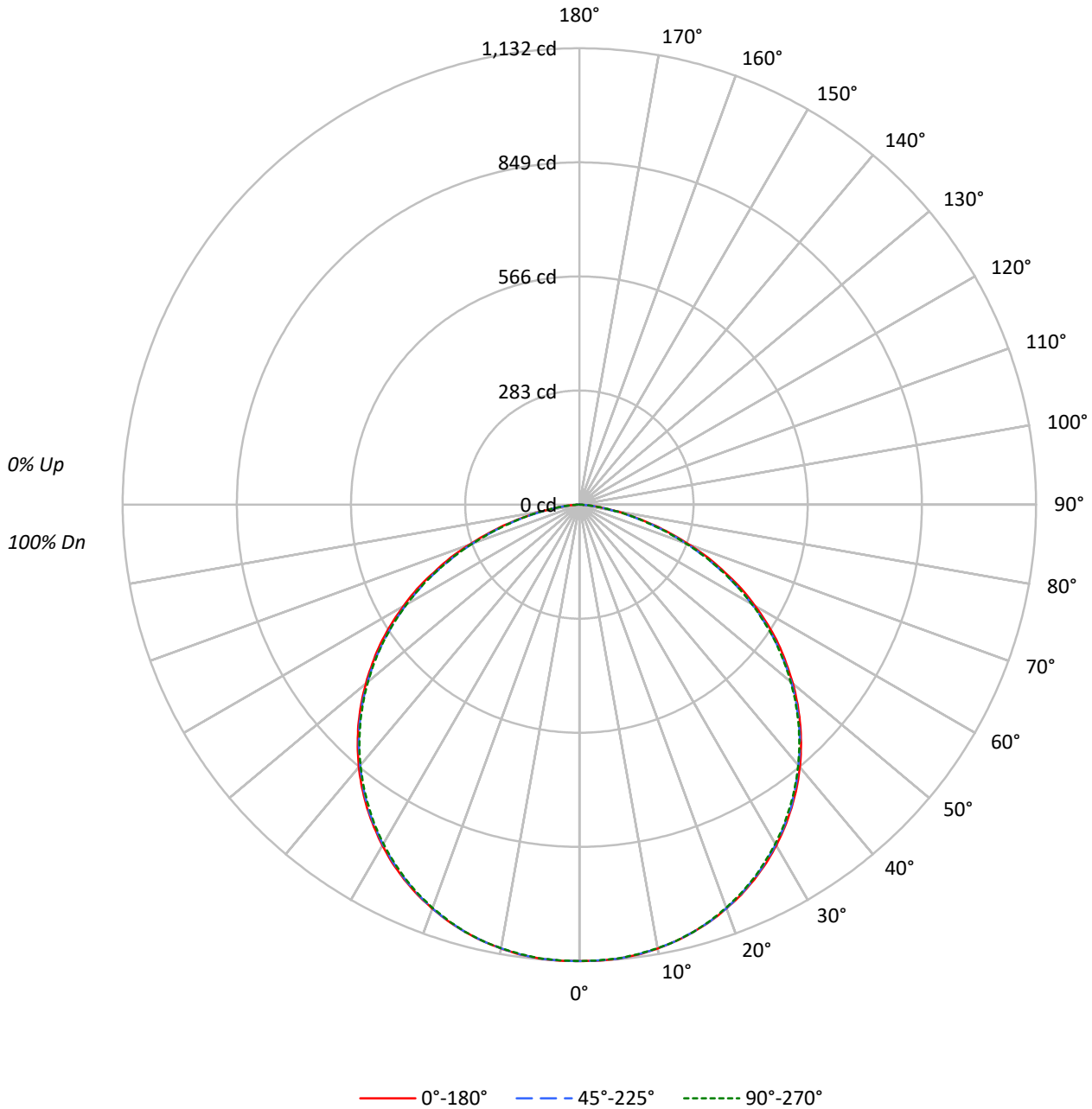
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3200.3 lumens
Efficiency: N/A
Efficacy: 112.7 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

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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°	1523	1523	1523
5°	1527	1527	1526
10°	1528	1527	1527
15°	1528	1528	1528
20°	1526	1526	1524
25°	1524	1521	1518
30°	1517	1512	1509
35°	1507	1503	1498
40°	1494	1484	1482
45°	1474	1466	1461
50°	1447	1436	1431
55°	1412	1392	1391
60°	1354	1329	1329
65°	1266	1237	1240
70°	1140	1104	1101
75°	957	919	914
80°	699	664	693
85°	395	364	371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1474 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	3.4
10°-20°	309.6	9.7
20°-30°	472.1	14.8
30°-40°	572.0	17.9
40°-50°	594.1	18.6
50°-60°	531.5	16.6
60°-70°	387.4	12.1
70°-80°	191.8	6.0
80°-90°	34.3	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°	889.2	27.8
0°-40°	1461.2	45.7
0°-60°	2586.8	80.8
0°-90°	3200.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3200.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1130	1131	1130	1130	1130	108
15°	1097	1097	1097	1097	1097	310
25°	1026	1025	1024	1024	1023	473
35°	917	916	915	913	912	574
45°	775	773	770	769	768	597
55°	602	598	594	594	593	536
65°	398	394	388	390	390	394
75°	184	181	177	180	176	196
85°	26	24	24	24	24	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1132.3	1132.3	1132.3	1132.3	1132.3
2.5°	1132.3	1131.9	1131.9	1132.3	1131.5
5°	1130.3	1130.7	1130.3	1130.3	1129.5
7.5°	1125.8	1125.4	1125.0	1125.4	1124.2
10°	1118.1	1118.1	1117.7	1118.1	1117.3
12.5°	1108.8	1108.8	1108.8	1109.2	1108.8
15°	1097.0	1096.6	1096.6	1097.4	1096.6
17.5°	1083.2	1082.8	1082.8	1082.4	1081.5
20°	1066.1	1066.1	1065.7	1065.3	1064.1
22.5°	1047.8	1047.4	1046.2	1046.2	1044.6
25°	1026.3	1025.1	1024.3	1023.8	1022.6
27.5°	1002.7	1001.1	999.9	999.1	997.8
30°	976.3	974.7	973.5	972.2	971.4
32.5°	947.9	947.1	945.0	944.6	943.0
35°	917.4	916.2	915.0	913.3	911.7
37.5°	884.9	883.7	880.8	880.0	878.8
40°	850.4	848.7	845.1	845.1	843.9
42.5°	813.4	811.8	809.3	807.7	806.9
45°	774.8	773.2	770.3	768.7	767.9
47.5°	733.8	732.5	729.3	728.1	726.9
50°	691.1	689.5	685.8	685.0	683.8
52.5°	646.4	645.6	640.7	640.3	639.1
55°	602.1	597.7	593.6	593.6	592.8
57.5°	553.4	550.1	544.8	544.8	544.0
60°	503.0	500.1	494.0	494.9	494.0
62.5°	453.8	447.7	442.0	444.5	442.4
65°	397.8	394.5	388.4	390.0	389.6
67.5°	346.6	340.5	334.8	338.0	336.4
70°	289.7	286.4	280.7	284.0	279.9
72.5°	236.1	233.2	227.5	231.2	227.1
75°	184.0	181.2	176.7	180.0	175.9
77.5°	134.9	132.9	128.8	132.0	132.9
80°	90.2	87.8	85.7	88.6	89.4
82.5°	52.8	51.2	50.4	50.8	52.8
85°	25.6	23.6	23.6	24.0	24.0
87.5°	6.9	6.1	6.9	7.3	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)