

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: P973680

Luminaire Tested: FLR2-22-45-L850-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973680
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

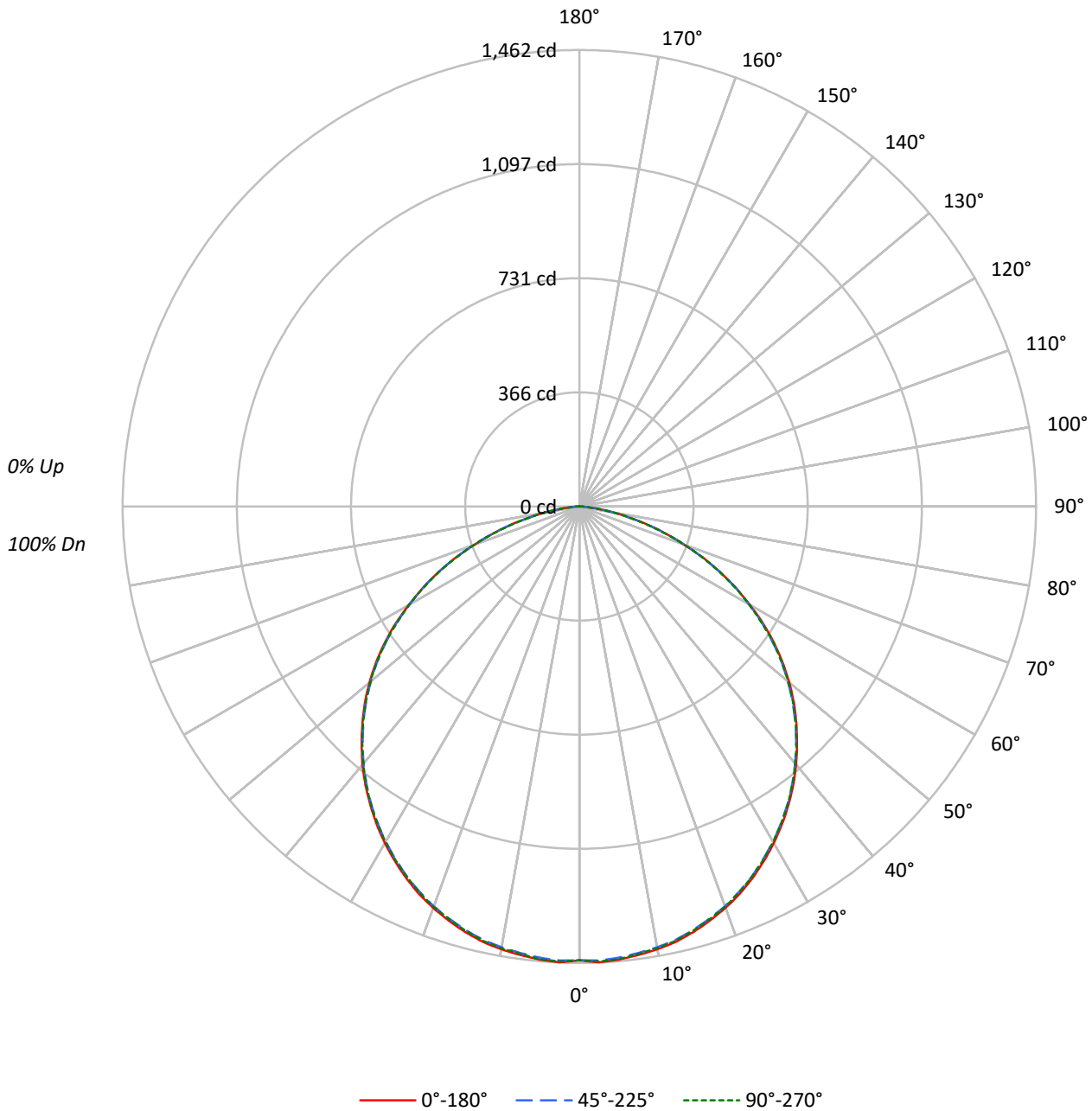
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4064.5 lumens
Efficiency: N/A
Efficacy: 112.6 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										
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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44														
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39														
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	39	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	40	34	29	27						27														
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3911	3911	3911
5°	3936	3919	3931
10°	3935	3918	3925
15°	3931	3914	3919
20°	3918	3902	3907
25°	3897	3881	3884
30°	3869	3852	3855
35°	3834	3819	3822
40°	3794	3775	3778
45°	3737	3720	3727
50°	3672	3646	3653
55°	3567	3538	3551
60°	3392	3377	3377
65°	3167	3161	3149
70°	2804	2818	2811
75°	2361	2342	2324
80°	1697	1669	1655
85°	886	886	858

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3737 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	3.4
10°-20°	395.8	9.7
20°-30°	601.5	14.8
30°-40°	727.0	17.9
40°-50°	754.6	18.6
50°-60°	674.6	16.6
60°-70°	490.5	12.1
70°-80°	241.2	5.9
80°-90°	41.8	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°	1134.9	27.9
0°-40°	1861.9	45.8
0°-60°	3291.0	81.0
0°-90°	4064.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4064.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1453	1453	1453	1453	1453	
5°	1457	1440	1451	1445	1455	138
15°	1411	1395	1405	1401	1407	398
25°	1312	1298	1307	1304	1308	605
35°	1167	1159	1163	1164	1164	730
45°	982	978	978	979	979	758
55°	760	756	754	756	757	678
65°	497	499	496	496	495	490
75°	227	229	225	226	224	241
85°	29	30	29	29	28	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1453.4	1453.4	1453.4	1453.4	1453.4
2.5°	1461.5	1444.4	1455.2	1448.9	1458.8
5°	1457.0	1440.0	1450.7	1445.3	1455.2
7.5°	1448.9	1431.9	1442.6	1437.3	1445.3
10°	1440.0	1422.0	1433.7	1428.3	1436.4
12.5°	1428.3	1411.2	1422.0	1417.5	1424.7
15°	1411.2	1395.1	1404.9	1401.3	1406.7
17.5°	1390.6	1374.4	1384.3	1381.6	1386.1
20°	1368.1	1352.9	1362.7	1360.1	1364.5
22.5°	1343.0	1326.8	1335.8	1334.0	1337.6
25°	1312.5	1298.1	1307.1	1304.4	1308.0
27.5°	1280.2	1266.7	1273.9	1273.9	1275.7
30°	1245.1	1232.6	1239.8	1239.8	1240.7
32.5°	1207.4	1197.6	1202.1	1203.0	1203.0
35°	1167.0	1159.0	1162.6	1163.5	1163.5
37.5°	1124.8	1116.8	1119.5	1121.3	1121.3
40°	1080.0	1072.8	1074.6	1076.4	1075.5
42.5°	1031.5	1026.1	1027.0	1028.8	1028.8
45°	982.1	977.6	977.6	979.4	979.4
47.5°	931.8	927.4	925.6	927.4	927.4
50°	877.1	872.6	870.8	872.6	872.6
52.5°	819.6	815.1	815.1	815.1	816.0
55°	760.4	755.9	754.1	755.9	756.8
57.5°	697.5	695.7	693.0	693.9	691.2
60°	630.2	630.2	627.5	629.3	627.5
62.5°	564.7	566.5	563.8	563.8	562.0
65°	497.3	499.1	496.4	496.4	494.6
67.5°	428.2	430.9	427.3	427.3	425.5
70°	356.4	361.8	358.2	359.1	357.3
72.5°	291.8	294.5	290.9	290.9	289.1
75°	227.1	228.9	225.3	226.2	223.5
77.5°	163.4	166.1	162.5	163.4	162.5
80°	109.5	110.4	107.7	108.6	106.8
82.5°	63.7	64.6	63.7	62.8	61.9
85°	28.7	29.6	28.7	28.7	27.8
87.5°	7.2	7.2	7.2	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)