

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: P975002

Luminaire Tested: FLR2-24-35HE-L850-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975002
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: FLR2-24-35HE-L850-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

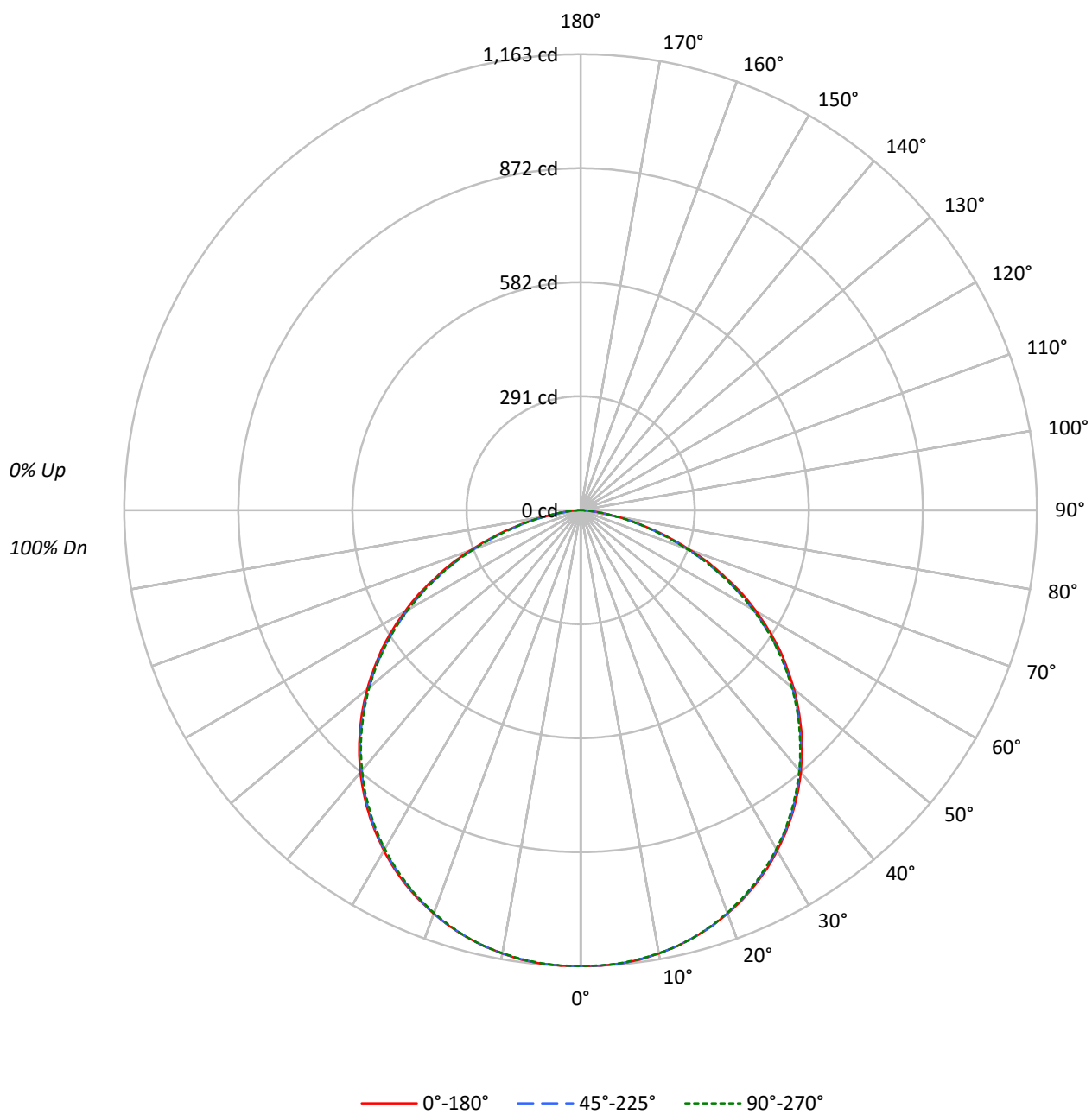
Lumens per Lamp: N/A
Luminaire Lumens: 3287.2 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.6
Input Voltage (V):
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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°	1565	1565	1565
5°	1568	1568	1567
10°	1569	1569	1568
15°	1570	1569	1569
20°	1568	1567	1565
25°	1565	1562	1559
30°	1558	1553	1550
35°	1548	1544	1538
40°	1534	1525	1522
45°	1514	1506	1501
50°	1486	1474	1470
55°	1451	1430	1428
60°	1390	1366	1366
65°	1301	1270	1274
70°	1171	1135	1131
75°	983	944	939
80°	717	683	711
85°	406	374	380

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1514 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	3.4
10°-20°	318.1	9.7
20°-30°	484.9	14.8
30°-40°	587.5	17.9
40°-50°	610.3	18.6
50°-60°	545.9	16.6
60°-70°	397.9	12.1
70°-80°	197.0	6.0
80°-90°	35.2	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°	913.4	27.8
0°-40°	1500.9	45.7
0°-60°	2657.1	80.8
0°-90°	3287.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3287.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1161	1161	1161	1161	1160	110
15°	1127	1126	1126	1127	1126	318
25°	1054	1053	1052	1052	1050	486
35°	942	941	940	938	936	589
45°	796	794	791	790	789	613
55°	618	614	610	610	609	551
65°	409	405	399	401	400	405
75°	189	186	182	185	181	202
85°	26	24	24	25	25	36
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1163.1	1163.1	1163.1	1163.1	1163.1
2.5°	1163.1	1162.7	1162.7	1163.1	1162.3
5°	1161.0	1161.4	1161.0	1161.0	1160.2
7.5°	1156.4	1156.0	1155.6	1156.0	1154.7
10°	1148.5	1148.5	1148.1	1148.5	1147.6
12.5°	1138.9	1138.9	1138.9	1139.3	1138.9
15°	1126.8	1126.4	1126.4	1127.2	1126.4
17.5°	1112.6	1112.2	1112.2	1111.8	1110.9
20°	1095.1	1095.1	1094.6	1094.2	1093.0
22.5°	1076.3	1075.9	1074.6	1074.6	1072.9
25°	1054.2	1052.9	1052.1	1051.7	1050.4
27.5°	1030.0	1028.3	1027.0	1026.2	1025.0
30°	1002.8	1001.2	999.9	998.7	997.8
32.5°	973.6	972.8	970.7	970.3	968.6
35°	942.3	941.1	939.8	938.1	936.5
37.5°	908.9	907.7	904.8	903.9	902.7
40°	873.5	871.8	868.0	868.0	866.8
42.5°	835.5	833.8	831.3	829.6	828.8
45°	795.8	794.2	791.3	789.6	788.7
47.5°	753.7	752.4	749.1	747.8	746.6
50°	709.9	708.2	704.4	703.6	702.4
52.5°	664.0	663.1	658.1	657.7	656.5
55°	618.5	613.9	609.7	609.7	608.9
57.5°	568.4	565.1	559.6	559.6	558.8
60°	516.7	513.7	507.5	508.3	507.5
62.5°	466.2	459.9	454.1	456.6	454.5
65°	408.6	405.2	399.0	400.6	400.2
67.5°	356.0	349.7	343.9	347.2	345.5
70°	297.6	294.2	288.4	291.7	287.5
72.5°	242.5	239.5	233.7	237.5	233.3
75°	189.0	186.1	181.5	184.9	180.7
77.5°	138.6	136.5	132.3	135.6	136.5
80°	92.6	90.1	88.1	91.0	91.8
82.5°	54.3	52.6	51.7	52.2	54.3
85°	26.3	24.2	24.2	24.6	24.6
87.5°	7.1	6.3	7.1	7.5	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)