

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: P973997

Luminaire Tested: FLR2-22-20HE-L850-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973997
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: FLR2-22-20HE-L850-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

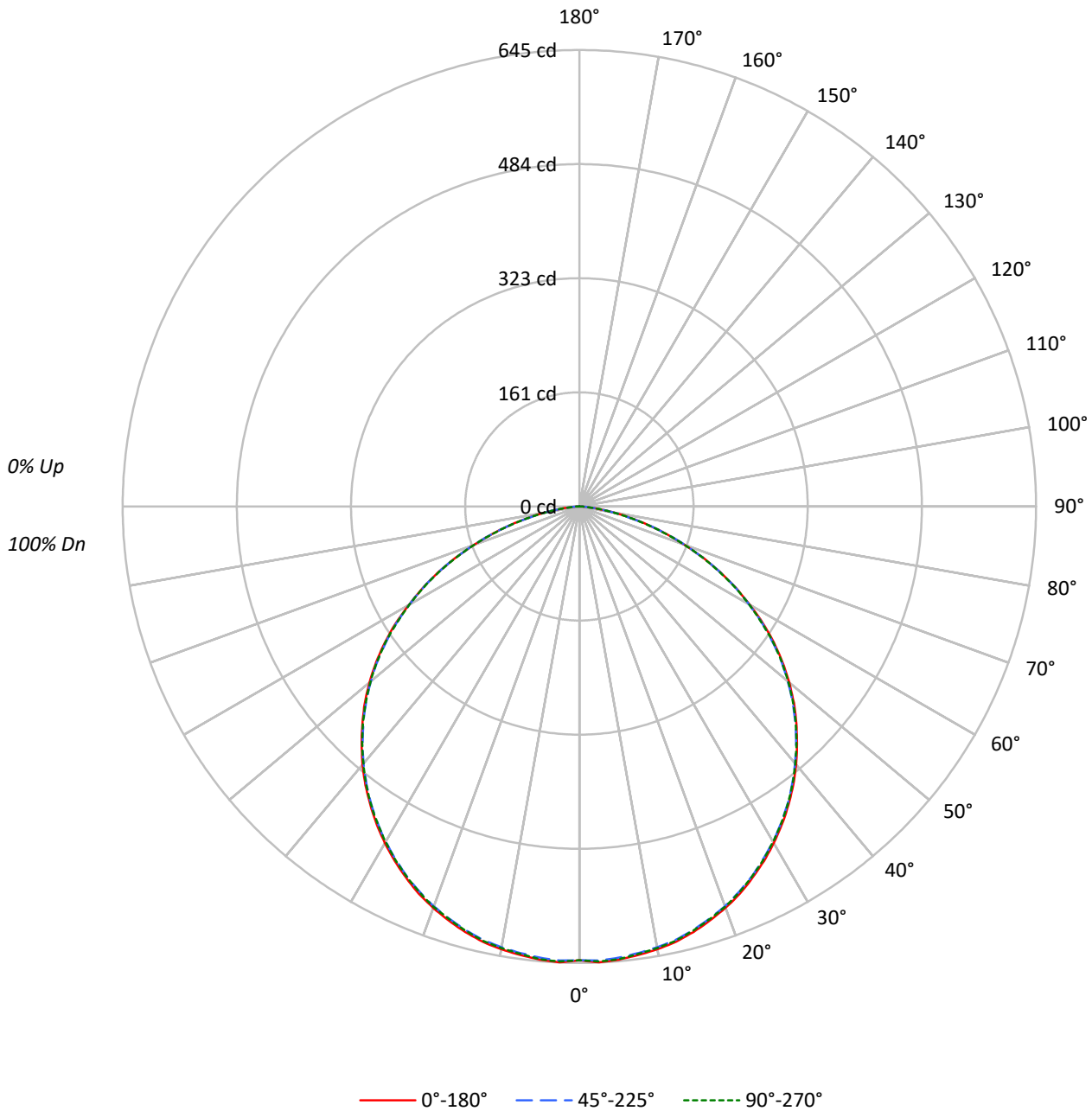
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1793.2 lumens
Efficiency: N/A
Efficacy: 121.2 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): 14.8
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°	1725	1725	1725
5°	1736	1729	1734
10°	1736	1728	1732
15°	1735	1727	1729
20°	1729	1722	1724
25°	1719	1712	1714
30°	1707	1700	1701
35°	1691	1685	1686
40°	1674	1665	1667
45°	1649	1641	1644
50°	1620	1608	1612
55°	1574	1561	1567
60°	1496	1490	1490
65°	1397	1394	1389
70°	1237	1243	1240
75°	1042	1033	1025
80°	748	736	730
85°	392	392	380

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1649 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	3.4
10°-20°	174.6	9.7
20°-30°	265.3	14.8
30°-40°	320.7	17.9
40°-50°	332.9	18.6
50°-60°	297.6	16.6
60°-70°	216.4	12.1
70°-80°	106.4	5.9
80°-90°	18.5	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°	500.7	27.9
0°-40°	821.4	45.8
0°-60°	1451.9	81.0
0°-90°	1793.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1793.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	641	641	641	641	641	
5°	643	635	640	638	642	61
15°	623	616	620	618	621	176
25°	579	573	577	576	577	267
35°	515	511	513	513	513	322
45°	433	431	431	432	432	334
55°	336	334	333	334	334	299
65°	219	220	219	219	218	216
75°	100	101	99	100	99	106
85°	13	13	13	13	12	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	641.2	641.2	641.2	641.2	641.2
2.5°	644.8	637.3	642.0	639.2	643.6
5°	642.8	635.3	640.0	637.6	642.0
7.5°	639.2	631.7	636.5	634.1	637.6
10°	635.3	627.4	632.5	630.1	633.7
12.5°	630.1	622.6	627.4	625.4	628.5
15°	622.6	615.5	619.8	618.2	620.6
17.5°	613.5	606.4	610.7	609.5	611.5
20°	603.6	596.9	601.2	600.0	602.0
22.5°	592.5	585.4	589.3	588.5	590.1
25°	579.0	572.7	576.7	575.5	577.1
27.5°	564.8	558.8	562.0	562.0	562.8
30°	549.3	543.8	547.0	547.0	547.3
32.5°	532.7	528.3	530.3	530.7	530.7
35°	514.9	511.3	512.9	513.3	513.3
37.5°	496.3	492.7	493.9	494.7	494.7
40°	476.5	473.3	474.1	474.9	474.5
42.5°	455.1	452.7	453.1	453.9	453.9
45°	433.3	431.3	431.3	432.1	432.1
47.5°	411.1	409.1	408.3	409.1	409.1
50°	386.9	385.0	384.2	385.0	385.0
52.5°	361.6	359.6	359.6	359.6	360.0
55°	335.5	333.5	332.7	333.5	333.9
57.5°	307.7	306.9	305.8	306.2	305.0
60°	278.0	278.0	276.8	277.6	276.8
62.5°	249.1	249.9	248.7	248.7	247.9
65°	219.4	220.2	219.0	219.0	218.2
67.5°	188.9	190.1	188.5	188.5	187.7
70°	157.2	159.6	158.0	158.4	157.6
72.5°	128.7	129.9	128.3	128.3	127.5
75°	100.2	101.0	99.4	99.8	98.6
77.5°	72.1	73.3	71.7	72.1	71.7
80°	48.3	48.7	47.5	47.9	47.1
82.5°	28.1	28.5	28.1	27.7	27.3
85°	12.7	13.1	12.7	12.7	12.3
87.5°	3.2	3.2	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)