

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: P973681

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

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973681
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: FLR2-22-20-L850-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

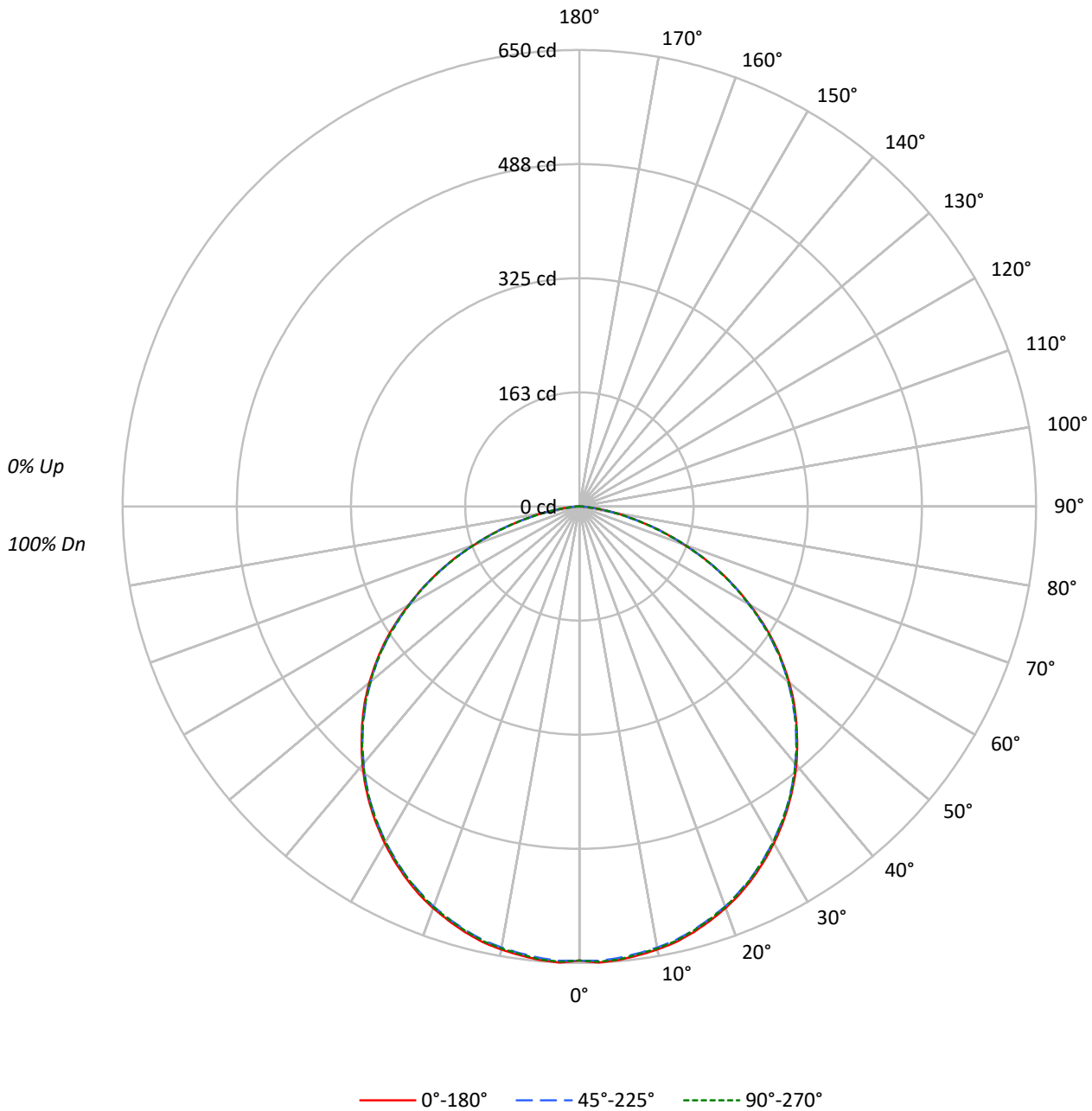
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1808.1 lumens
Efficiency: N/A
Efficacy: 119.7 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): 15.1
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°	1740	1740	1740
5°	1751	1743	1749
10°	1750	1743	1746
15°	1749	1741	1743
20°	1743	1736	1738
25°	1734	1727	1728
30°	1721	1714	1715
35°	1706	1699	1700
40°	1688	1679	1681
45°	1663	1655	1658
50°	1634	1622	1625
55°	1587	1574	1580
60°	1509	1502	1502
65°	1408	1406	1401
70°	1247	1253	1250
75°	1050	1042	1033
80°	755	742	736
85°	395	395	383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1663 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	3.4
10°-20°	176.1	9.7
20°-30°	267.6	14.8
30°-40°	323.4	17.9
40°-50°	335.7	18.6
50°-60°	300.1	16.6
60°-70°	218.2	12.1
70°-80°	107.3	5.9
80°-90°	18.6	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°	504.9	27.9
0°-40°	828.2	45.8
0°-60°	1464.0	81.0
0°-90°	1808.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1808.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	647	647	647	647	647	
5°	648	641	645	643	647	62
15°	628	621	625	623	626	177
25°	584	578	582	580	582	269
35°	519	516	517	518	518	325
45°	437	435	435	436	436	337
55°	338	336	336	336	337	302
65°	221	222	221	221	220	218
75°	101	102	100	101	99	107
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°	646.6	646.6	646.6	646.6	646.6
2.5°	650.1	642.6	647.4	644.6	648.9
5°	648.2	640.6	645.4	643.0	647.4
7.5°	644.6	637.0	641.8	639.4	643.0
10°	640.6	632.6	637.8	635.4	639.0
12.5°	635.4	627.8	632.6	630.6	633.8
15°	627.8	620.6	625.0	623.4	625.8
17.5°	618.6	611.4	615.8	614.6	616.6
20°	608.6	601.8	606.2	605.0	607.0
22.5°	597.4	590.2	594.2	593.4	595.0
25°	583.9	577.5	581.5	580.3	581.9
27.5°	569.5	563.5	566.7	566.7	567.5
30°	553.9	548.3	551.5	551.5	551.9
32.5°	537.1	532.7	534.7	535.1	535.1
35°	519.2	515.6	517.2	517.6	517.6
37.5°	500.4	496.8	498.0	498.8	498.8
40°	480.4	477.2	478.0	478.8	478.4
42.5°	458.9	456.5	456.9	457.7	457.7
45°	436.9	434.9	434.9	435.7	435.7
47.5°	414.5	412.5	411.7	412.5	412.5
50°	390.2	388.2	387.4	388.2	388.2
52.5°	364.6	362.6	362.6	362.6	363.0
55°	338.3	336.3	335.5	336.3	336.7
57.5°	310.3	309.5	308.3	308.7	307.5
60°	280.3	280.3	279.1	279.9	279.1
62.5°	251.2	252.0	250.8	250.8	250.0
65°	221.2	222.0	220.8	220.8	220.0
67.5°	190.5	191.7	190.1	190.1	189.3
70°	158.5	160.9	159.3	159.7	158.9
72.5°	129.8	131.0	129.4	129.4	128.6
75°	101.0	101.8	100.2	100.6	99.4
77.5°	72.7	73.9	72.3	72.7	72.3
80°	48.7	49.1	47.9	48.3	47.5
82.5°	28.4	28.8	28.4	28.0	27.6
85°	12.8	13.2	12.8	12.8	12.4
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)