

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: P973701

Luminaire Tested: FLR2-22-20-L950-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973701
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-L950-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

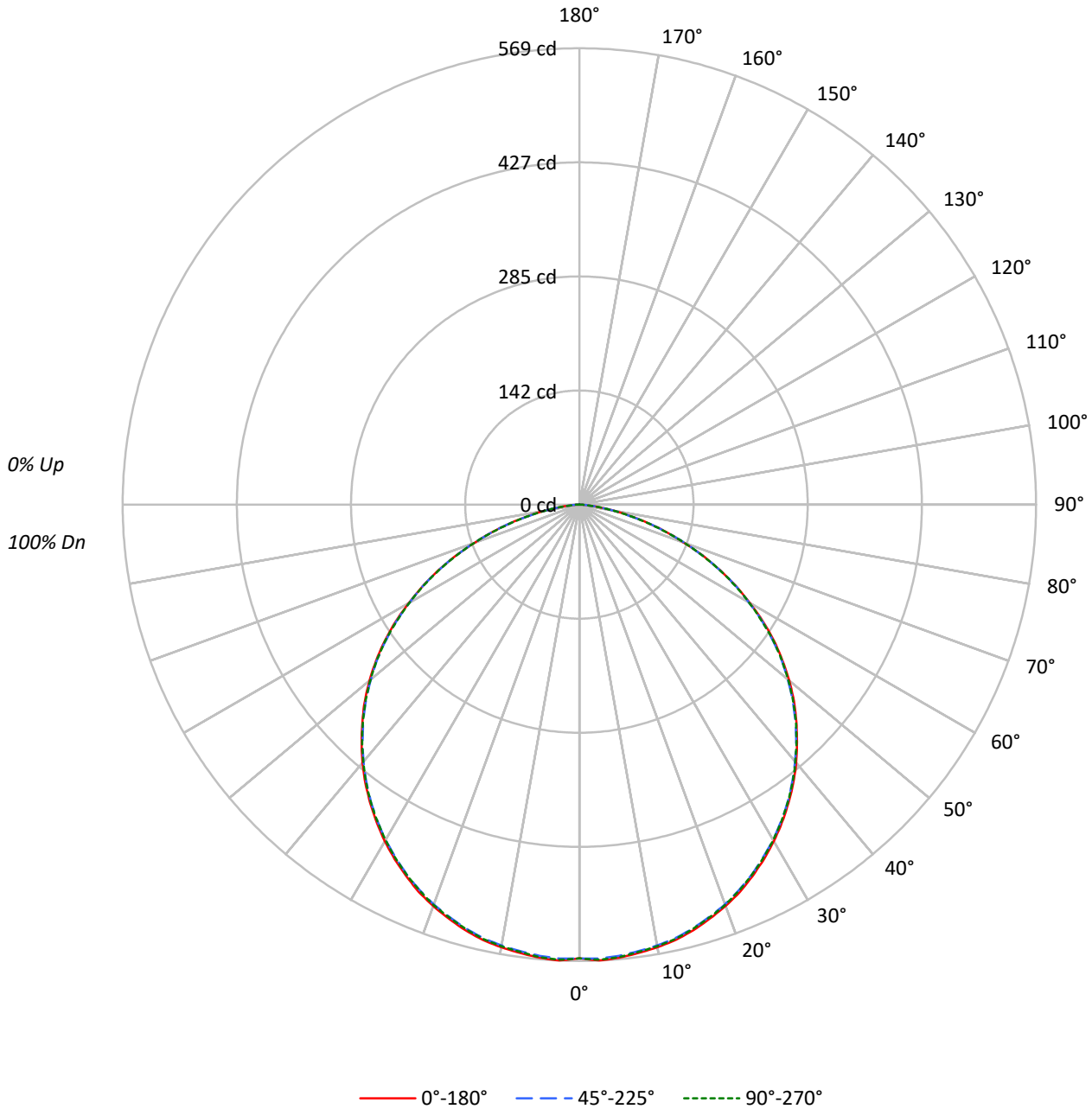
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1582.2 lumens
Efficiency: N/A
Efficacy: 104.8 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°	1523	1523	1523
5°	1532	1525	1530
10°	1532	1525	1528
15°	1531	1524	1526
20°	1525	1519	1521
25°	1517	1511	1512
30°	1506	1500	1501
35°	1492	1487	1488
40°	1477	1469	1471
45°	1455	1448	1451
50°	1429	1419	1422
55°	1389	1377	1382
60°	1320	1315	1315
65°	1233	1231	1226
70°	1091	1097	1094
75°	919	912	905
80°	660	649	645
85°	346	346	333

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1455 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	3.4
10°-20°	154.1	9.7
20°-30°	234.1	14.8
30°-40°	283.0	17.9
40°-50°	293.7	18.6
50°-60°	262.6	16.6
60°-70°	190.9	12.1
70°-80°	93.9	5.9
80°-90°	16.3	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°	441.8	27.9
0°-40°	724.8	45.8
0°-60°	1281.1	81.0
0°-90°	1582.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1582.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	566	566	566	566	566	
5°	567	560	565	563	566	54
15°	549	543	547	546	548	155
25°	511	505	509	508	509	235
35°	454	451	453	453	453	284
45°	382	381	381	381	381	295
55°	296	294	294	294	295	264
65°	194	194	193	193	193	191
75°	88	89	88	88	87	94
85°	11	12	11	11	11	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	565.8	565.8	565.8	565.8	565.8
2.5°	568.9	562.3	566.5	564.0	567.9
5°	567.2	560.5	564.7	562.6	566.5
7.5°	564.0	557.4	561.6	559.5	562.6
10°	560.5	553.6	558.1	556.0	559.2
12.5°	556.0	549.4	553.6	551.8	554.6
15°	549.4	543.1	546.9	545.5	547.6
17.5°	541.3	535.0	538.9	537.8	539.6
20°	532.6	526.6	530.5	529.4	531.2
22.5°	522.8	516.5	520.0	519.3	520.7
25°	510.9	505.3	508.8	507.8	509.2
27.5°	498.3	493.1	495.9	495.9	496.6
30°	484.7	479.8	482.6	482.6	483.0
32.5°	470.0	466.2	467.9	468.3	468.3
35°	454.3	451.2	452.6	452.9	452.9
37.5°	437.9	434.7	435.8	436.5	436.5
40°	420.4	417.6	418.3	419.0	418.7
42.5°	401.5	399.4	399.8	400.5	400.5
45°	382.3	380.6	380.6	381.3	381.3
47.5°	362.7	361.0	360.3	361.0	361.0
50°	341.4	339.7	339.0	339.7	339.7
52.5°	319.1	317.3	317.3	317.3	317.7
55°	296.0	294.3	293.6	294.3	294.6
57.5°	271.5	270.8	269.8	270.1	269.1
60°	245.3	245.3	244.3	245.0	244.3
62.5°	219.8	220.5	219.5	219.5	218.8
65°	193.6	194.3	193.3	193.3	192.6
67.5°	166.7	167.7	166.3	166.3	165.6
70°	138.7	140.8	139.4	139.8	139.1
72.5°	113.6	114.6	113.2	113.2	112.5
75°	88.4	89.1	87.7	88.1	87.0
77.5°	63.6	64.7	63.3	63.6	63.3
80°	42.6	43.0	41.9	42.3	41.6
82.5°	24.8	25.2	24.8	24.5	24.1
85°	11.2	11.5	11.2	11.2	10.8
87.5°	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)