

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: P973697

Luminaire Tested: FLR2-22-20-L950-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973697
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-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

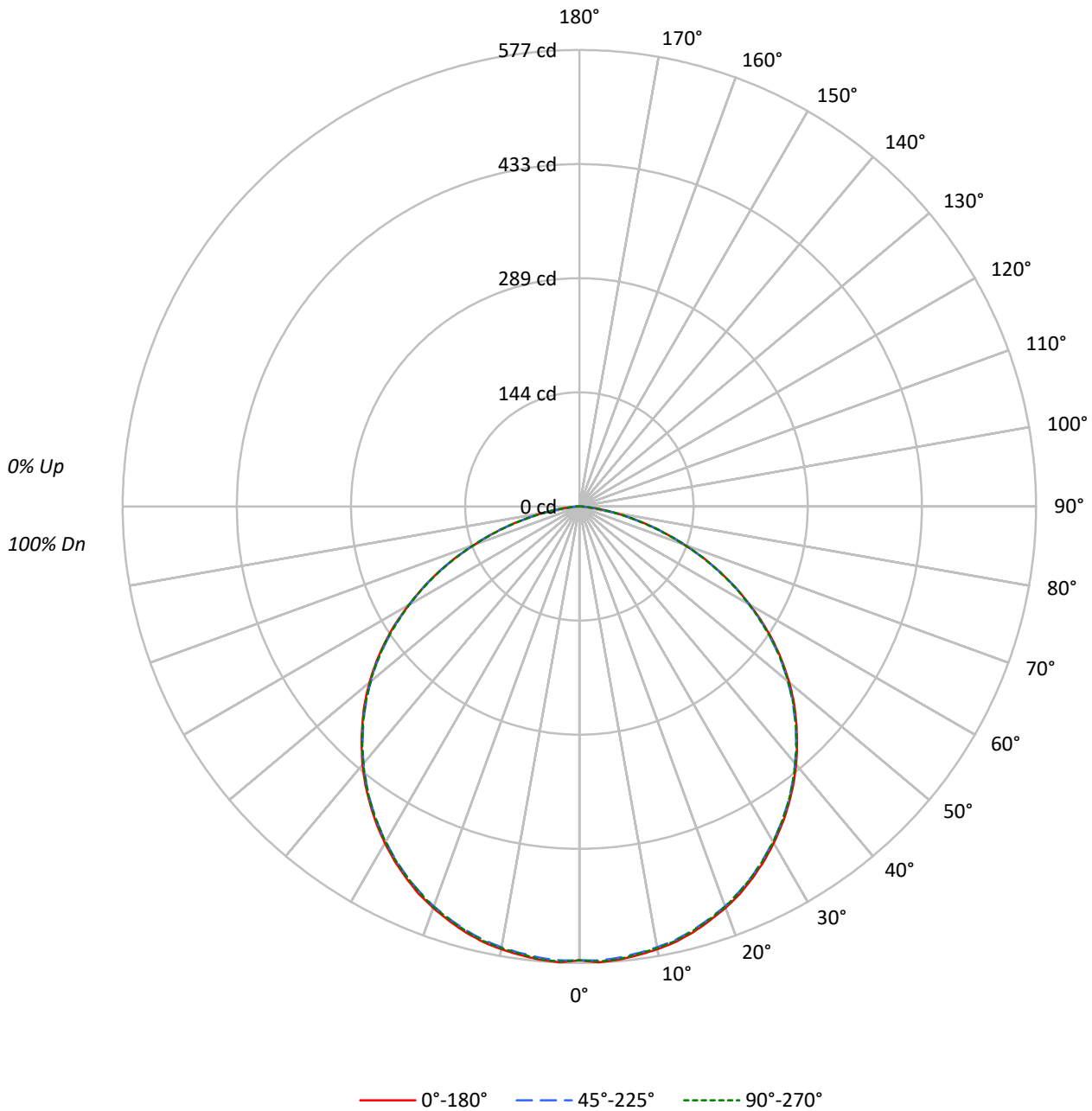
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1604.2 lumens
Efficiency: N/A
Efficacy: 106.2 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): 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°	1544	1544	1544
5°	1553	1547	1551
10°	1553	1546	1549
15°	1552	1545	1547
20°	1546	1540	1542
25°	1538	1532	1533
30°	1527	1520	1522
35°	1513	1507	1509
40°	1497	1490	1491
45°	1475	1468	1471
50°	1449	1439	1442
55°	1408	1396	1401
60°	1338	1333	1333
65°	1250	1247	1243
70°	1107	1113	1109
75°	932	924	917
80°	669	659	654
85°	349	349	340

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1475 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	3.4
10°-20°	156.2	9.7
20°-30°	237.4	14.8
30°-40°	286.9	17.9
40°-50°	297.8	18.6
50°-60°	266.2	16.6
60°-70°	193.6	12.1
70°-80°	95.2	5.9
80°-90°	16.5	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°	447.9	27.9
0°-40°	734.8	45.8
0°-60°	1298.9	81.0
0°-90°	1604.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1604.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	574	574	574	574	574	
5°	575	568	573	570	574	55
15°	557	551	554	553	555	157
25°	518	512	516	515	516	239
35°	461	457	459	459	459	288
45°	388	386	386	387	387	299
55°	300	298	298	298	299	267
65°	196	197	196	196	195	194
75°	90	90	89	89	88	95
85°	11	12	11	11	11	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	573.6	573.6	573.6	573.6	573.6
2.5°	576.8	570.1	574.3	571.9	575.8
5°	575.1	568.3	572.6	570.4	574.3
7.5°	571.9	565.1	569.4	567.3	570.4
10°	568.3	561.2	565.8	563.7	566.9
12.5°	563.7	557.0	561.2	559.5	562.3
15°	557.0	550.6	554.5	553.1	555.2
17.5°	548.8	542.5	546.4	545.3	547.1
20°	540.0	534.0	537.8	536.8	538.6
22.5°	530.1	523.7	527.2	526.5	527.9
25°	518.0	512.3	515.9	514.8	516.2
27.5°	505.3	499.9	502.8	502.8	503.5
30°	491.4	486.5	489.3	489.3	489.7
32.5°	476.6	472.7	474.4	474.8	474.8
35°	460.6	457.4	458.8	459.2	459.2
37.5°	444.0	440.8	441.8	442.5	442.5
40°	426.2	423.4	424.1	424.8	424.5
42.5°	407.1	405.0	405.3	406.0	406.0
45°	387.6	385.8	385.8	386.6	386.6
47.5°	367.8	366.0	365.3	366.0	366.0
50°	346.2	344.4	343.7	344.4	344.4
52.5°	323.5	321.7	321.7	321.7	322.1
55°	300.1	298.3	297.6	298.3	298.7
57.5°	275.3	274.6	273.5	273.9	272.8
60°	248.7	248.7	247.7	248.4	247.7
62.5°	222.9	223.6	222.5	222.5	221.8
65°	196.3	197.0	195.9	195.9	195.2
67.5°	169.0	170.1	168.7	168.7	167.9
70°	140.7	142.8	141.4	141.7	141.0
72.5°	115.2	116.2	114.8	114.8	114.1
75°	89.6	90.4	88.9	89.3	88.2
77.5°	64.5	65.5	64.1	64.5	64.1
80°	43.2	43.6	42.5	42.9	42.2
82.5°	25.2	25.5	25.2	24.8	24.4
85°	11.3	11.7	11.3	11.3	11.0
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)