

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: P974021

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

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974021
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-L950-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

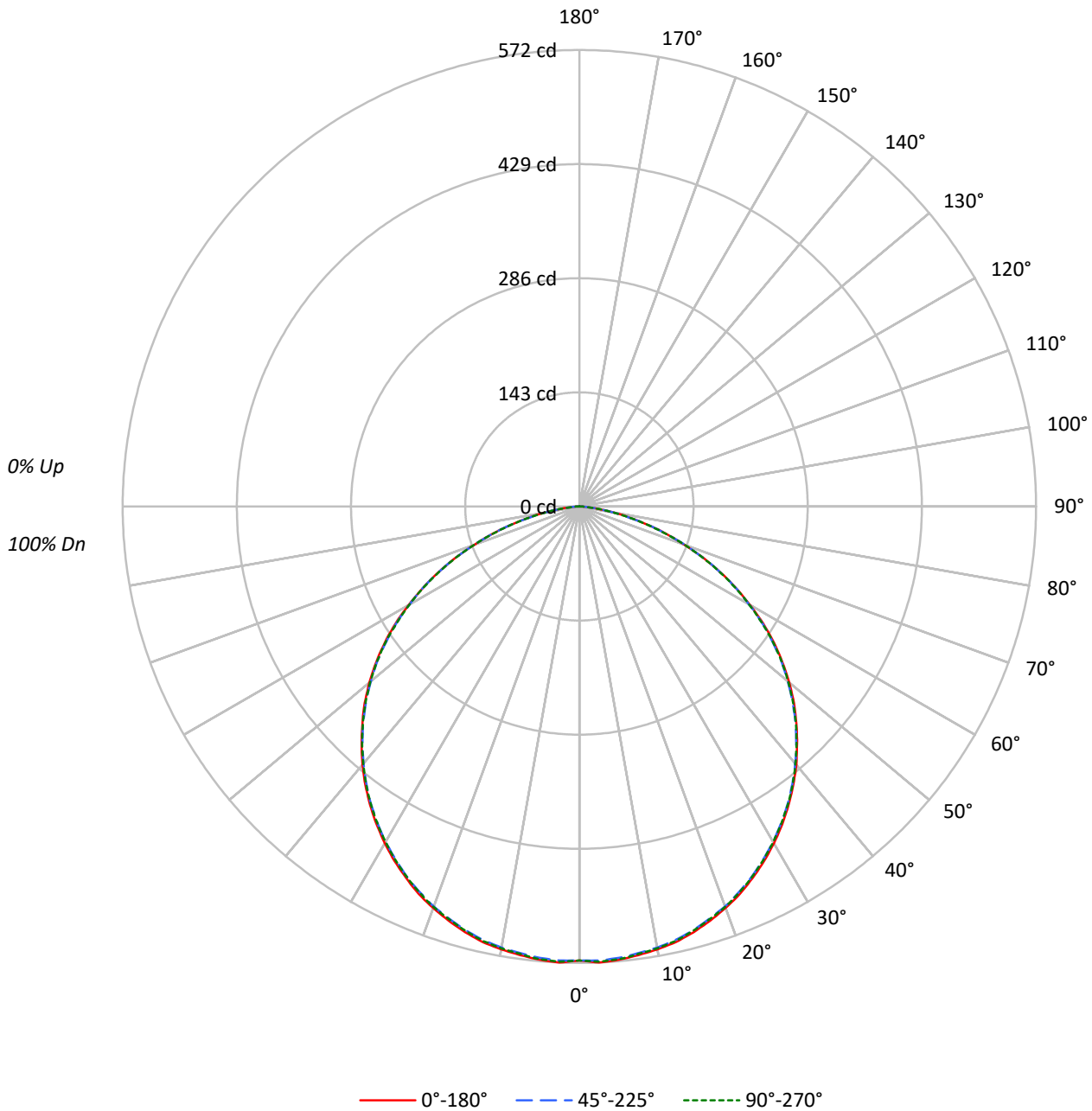
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1590.9 lumens
Efficiency: N/A
Efficacy: 107.5 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										
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°	1531	1531	1531
5°	1541	1534	1539
10°	1540	1533	1536
15°	1539	1532	1534
20°	1534	1527	1529
25°	1525	1519	1520
30°	1514	1508	1509
35°	1501	1495	1496
40°	1485	1477	1479
45°	1463	1456	1459
50°	1437	1427	1430
55°	1396	1385	1390
60°	1328	1322	1322
65°	1240	1237	1233
70°	1098	1103	1101
75°	924	917	910
80°	665	654	648
85°	346	346	337

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1463 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	3.4
10°-20°	154.9	9.7
20°-30°	235.4	14.8
30°-40°	284.6	17.9
40°-50°	295.4	18.6
50°-60°	264.1	16.6
60°-70°	192.0	12.1
70°-80°	94.4	5.9
80°-90°	16.4	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°	444.2	27.9
0°-40°	728.8	45.8
0°-60°	1288.2	81.0
0°-90°	1590.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1590.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	569	569	569	569	569	
5°	570	564	568	566	570	54
15°	552	546	550	548	551	156
25°	514	508	512	511	512	237
35°	457	454	455	455	455	286
45°	384	383	383	383	383	297
55°	298	296	295	296	296	265
65°	195	195	194	194	194	192
75°	89	90	88	88	88	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°	568.9	568.9	568.9	568.9	568.9
2.5°	572.1	565.4	569.6	567.1	571.0
5°	570.3	563.6	567.8	565.7	569.6
7.5°	567.1	560.5	564.7	562.6	565.7
10°	563.6	556.6	561.2	559.1	562.2
12.5°	559.1	552.4	556.6	554.8	557.7
15°	552.4	546.1	549.9	548.5	550.6
17.5°	544.3	538.0	541.8	540.8	542.5
20°	535.5	529.5	533.4	532.4	534.1
22.5°	525.7	519.4	522.9	522.2	523.6
25°	513.7	508.1	511.6	510.6	512.0
27.5°	501.1	495.8	498.6	498.6	499.3
30°	487.4	482.5	485.3	485.3	485.6
32.5°	472.6	468.8	470.5	470.9	470.9
35°	456.8	453.6	455.0	455.4	455.4
37.5°	440.3	437.1	438.2	438.9	438.9
40°	422.7	419.9	420.6	421.3	421.0
42.5°	403.7	401.6	402.0	402.7	402.7
45°	384.4	382.7	382.7	383.4	383.4
47.5°	364.7	363.0	362.3	363.0	363.0
50°	343.3	341.5	340.8	341.5	341.5
52.5°	320.8	319.1	319.1	319.1	319.4
55°	297.6	295.9	295.2	295.9	296.2
57.5°	273.0	272.3	271.3	271.6	270.6
60°	246.7	246.7	245.6	246.3	245.6
62.5°	221.0	221.7	220.7	220.7	220.0
65°	194.7	195.4	194.3	194.3	193.6
67.5°	167.6	168.7	167.3	167.3	166.6
70°	139.5	141.6	140.2	140.6	139.9
72.5°	114.2	115.3	113.8	113.8	113.1
75°	88.9	89.6	88.2	88.5	87.5
77.5°	64.0	65.0	63.6	64.0	63.6
80°	42.9	43.2	42.2	42.5	41.8
82.5°	24.9	25.3	24.9	24.6	24.2
85°	11.2	11.6	11.2	11.2	10.9
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)