

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: P974055

Luminaire Tested: FLR2-22-50HE-L950-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974055
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: FLR2-22-50HE-L950-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

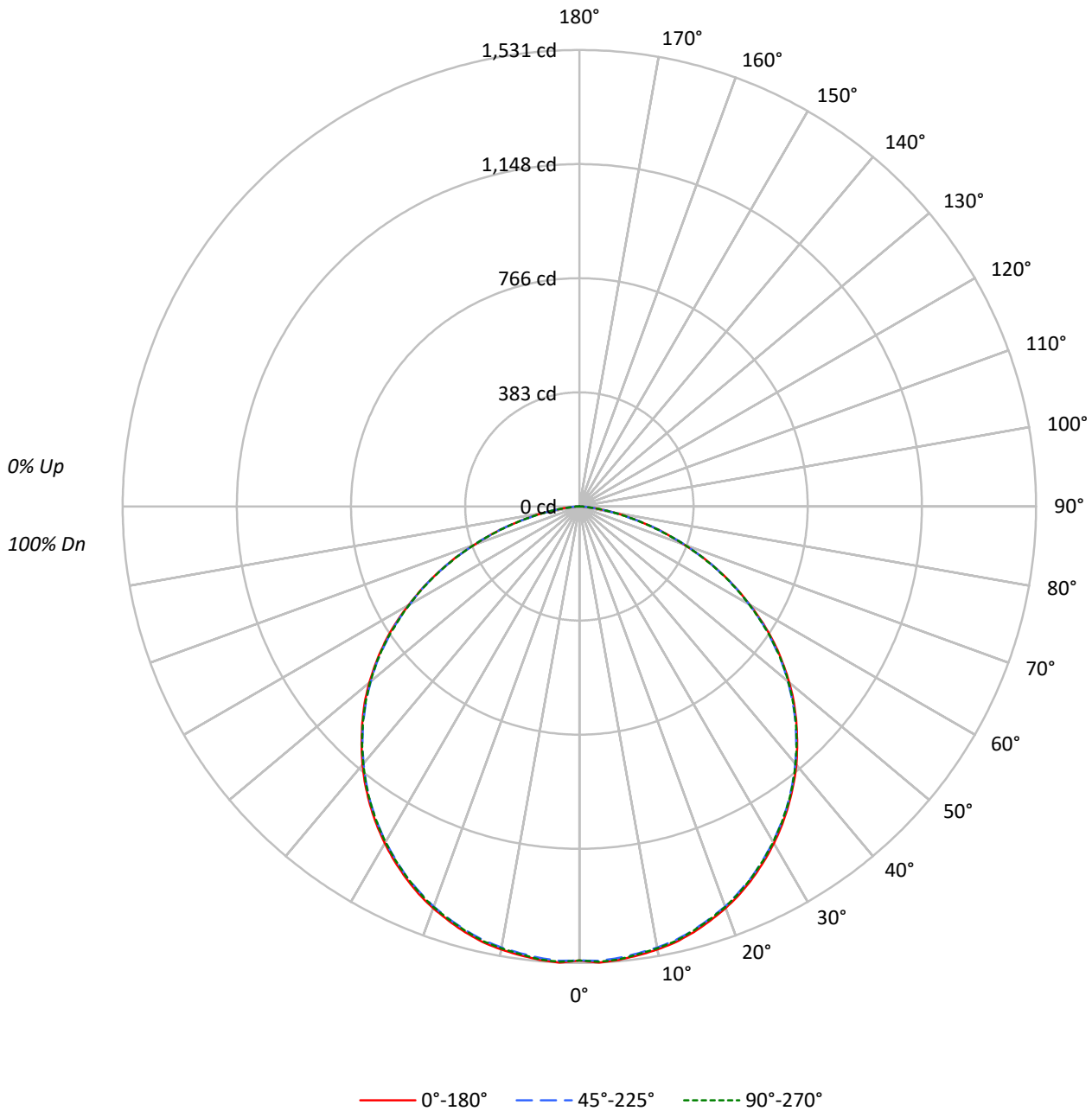
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4258.9 lumens
Efficiency: N/A
Efficacy: 106.5 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): 40
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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	4098	4098	4098
5°	4124	4106	4119
10°	4123	4105	4112
15°	4120	4101	4106
20°	4105	4089	4094
25°	4083	4067	4069
30°	4054	4036	4039
35°	4017	4002	4005
40°	3975	3955	3959
45°	3916	3898	3906
50°	3847	3820	3828
55°	3738	3707	3720
60°	3554	3539	3539
65°	3318	3312	3300
70°	2938	2953	2946
75°	2475	2455	2435
80°	1779	1750	1734
85°	929	929	902

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3916 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.2	3.4
10°-20°	414.7	9.7
20°-30°	630.2	14.8
30°-40°	761.7	17.9
40°-50°	790.7	18.6
50°-60°	706.9	16.6
60°-70°	513.9	12.1
70°-80°	252.7	5.9
80°-90°	43.8	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°	1189.1	27.9
0°-40°	1950.9	45.8
0°-60°	3448.4	81.0
0°-90°	4258.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4258.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1523	1523	1523	1523	1523	
5°	1527	1509	1520	1514	1525	145
15°	1479	1462	1472	1468	1474	417
25°	1375	1360	1370	1367	1370	634
35°	1223	1214	1218	1219	1219	765
45°	1029	1024	1024	1026	1026	794
55°	797	792	790	792	793	710
65°	521	523	520	520	518	514
75°	238	240	236	237	234	253
85°	30	31	30	30	29	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1522.9	1522.9	1522.9	1522.9	1522.9
2.5°	1531.4	1513.5	1524.8	1518.2	1528.6
5°	1526.7	1508.8	1520.1	1514.5	1524.8
7.5°	1518.2	1500.3	1511.6	1506.0	1514.5
10°	1508.8	1490.0	1502.2	1496.6	1505.0
12.5°	1496.6	1478.7	1490.0	1485.3	1492.8
15°	1478.7	1461.8	1472.1	1468.4	1474.0
17.5°	1457.1	1440.1	1450.5	1447.7	1452.4
20°	1433.6	1417.6	1427.9	1425.1	1429.8
22.5°	1407.2	1390.3	1399.7	1397.8	1401.6
25°	1375.2	1360.2	1369.6	1366.8	1370.5
27.5°	1341.4	1327.3	1334.8	1334.8	1336.7
30°	1304.7	1291.5	1299.0	1299.0	1300.0
32.5°	1265.2	1254.8	1259.5	1260.5	1260.5
35°	1222.9	1214.4	1218.1	1219.1	1219.1
37.5°	1178.6	1170.2	1173.0	1174.9	1174.9
40°	1131.6	1124.1	1126.0	1127.8	1126.9
42.5°	1080.8	1075.2	1076.1	1078.0	1078.0
45°	1029.1	1024.4	1024.4	1026.3	1026.3
47.5°	976.4	971.7	969.8	971.7	971.7
50°	919.0	914.3	912.4	914.3	914.3
52.5°	858.8	854.1	854.1	854.1	855.1
55°	796.7	792.0	790.1	792.0	793.0
57.5°	730.9	729.0	726.2	727.1	724.3
60°	660.3	660.3	657.5	659.4	657.5
62.5°	591.7	593.6	590.7	590.7	588.8
65°	521.1	523.0	520.2	520.2	518.3
67.5°	448.7	451.5	447.8	447.8	445.9
70°	373.4	379.1	375.3	376.3	374.4
72.5°	305.7	308.5	304.8	304.8	302.9
75°	238.0	239.9	236.1	237.0	234.2
77.5°	171.2	174.0	170.3	171.2	170.3
80°	114.8	115.7	112.9	113.8	111.9
82.5°	66.8	67.7	66.8	65.8	64.9
85°	30.1	31.0	30.1	30.1	29.2
87.5°	7.5	7.5	7.5	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)