

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: P973749

Luminaire Tested: FLR2-22-50HE-L830-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973749  
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-L830-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

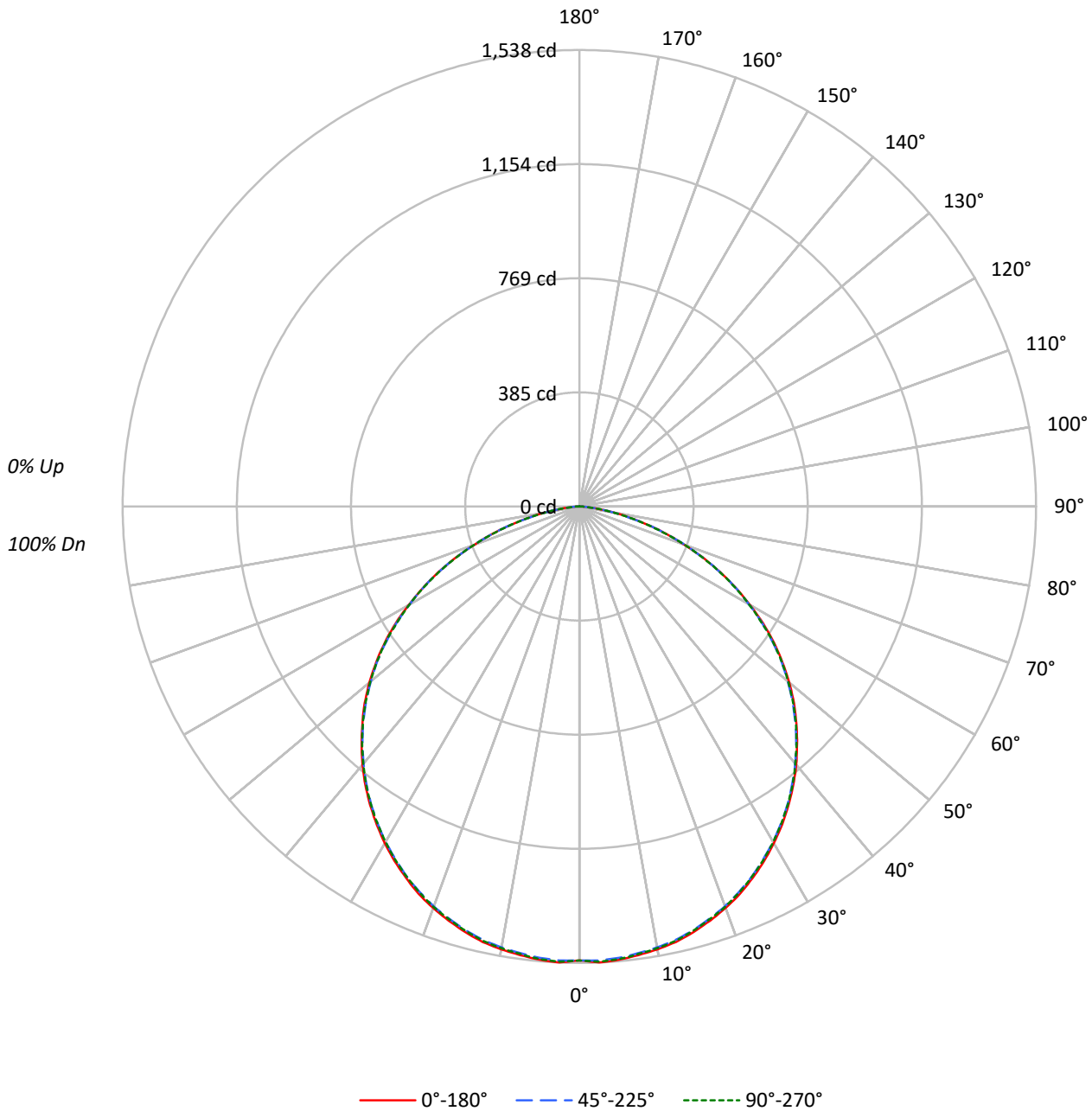
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4277.4 lumens  
Efficiency: N/A  
Efficacy: 106.9 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	0
RW	70	50	30	10	70	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
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°	4116	4116	4116
5°	4142	4124	4137
10°	4141	4123	4130
15°	4137	4119	4124
20°	4123	4107	4112
25°	4101	4084	4087
30°	4071	4054	4057
35°	4035	4019	4022
40°	3992	3972	3976
45°	3933	3915	3922
50°	3864	3836	3844
55°	3754	3723	3736
60°	3569	3554	3554
65°	3333	3326	3314
70°	2951	2965	2958
75°	2485	2465	2445
80°	1787	1757	1742
85°	932	932	905

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3933 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.8	3.4
10°-20°	416.5	9.7
20°-30°	632.9	14.8
30°-40°	765.1	17.9
40°-50°	794.1	18.6
50°-60°	709.9	16.6
60°-70°	516.2	12.1
70°-80°	253.8	5.9
80°-90°	44.0	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°	1194.3	27.9
0°-40°	1959.3	45.8
0°-60°	3463.4	81.0
0°-90°	4277.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4277.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1533	1515	1527	1521	1531	146
15°	1485	1468	1478	1475	1480	419
25°	1381	1366	1376	1373	1376	637
35°	1228	1220	1223	1224	1224	768
45°	1034	1029	1029	1031	1031	797
55°	800	796	794	796	796	713
65°	523	525	522	522	520	516
75°	239	241	237	238	235	254
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°	1529.5	1529.5	1529.5	1529.5	1529.5
2.5°	1538.0	1520.1	1531.4	1524.8	1535.2
5°	1533.3	1515.4	1526.7	1521.0	1531.4
7.5°	1524.8	1506.9	1518.2	1512.5	1521.0
10°	1515.4	1496.5	1508.7	1503.1	1511.6
12.5°	1503.1	1485.1	1496.5	1491.7	1499.3
15°	1485.1	1468.1	1478.5	1474.7	1480.4
17.5°	1463.4	1446.4	1456.8	1453.9	1458.7
20°	1439.8	1423.7	1434.1	1431.3	1436.0
22.5°	1413.3	1396.3	1405.8	1403.9	1407.7
25°	1381.2	1366.1	1375.5	1372.7	1376.5
27.5°	1347.2	1333.0	1340.6	1340.6	1342.5
30°	1310.3	1297.1	1304.7	1304.7	1305.6
32.5°	1270.7	1260.3	1265.0	1265.9	1265.9
35°	1228.2	1219.7	1223.4	1224.4	1224.4
37.5°	1183.8	1175.3	1178.1	1180.0	1180.0
40°	1136.5	1129.0	1130.8	1132.7	1131.8
42.5°	1085.5	1079.8	1080.8	1082.7	1082.7
45°	1033.5	1028.8	1028.8	1030.7	1030.7
47.5°	980.6	975.9	974.0	975.9	975.9
50°	923.0	918.3	916.4	918.3	918.3
52.5°	862.5	857.8	857.8	857.8	858.8
55°	800.2	795.5	793.6	795.5	796.4
57.5°	734.1	732.2	729.3	730.3	727.4
60°	663.2	663.2	660.4	662.3	660.4
62.5°	594.2	596.1	593.3	593.3	591.4
65°	523.4	525.3	522.4	522.4	520.5
67.5°	450.6	453.5	449.7	449.7	447.8
70°	375.1	380.7	376.9	377.9	376.0
72.5°	307.0	309.9	306.1	306.1	304.2
75°	239.0	240.9	237.1	238.1	235.2
77.5°	171.9	174.8	171.0	171.9	171.0
80°	115.3	116.2	113.4	114.3	112.4
82.5°	67.1	68.0	67.1	66.1	65.2
85°	30.2	31.2	30.2	30.2	29.3
87.5°	7.6	7.6	7.6	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)