

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: P974045

Luminaire Tested: FLR2-22-20HE-L950-CP375

Issue Date: 3/13/2025

**Test Information**

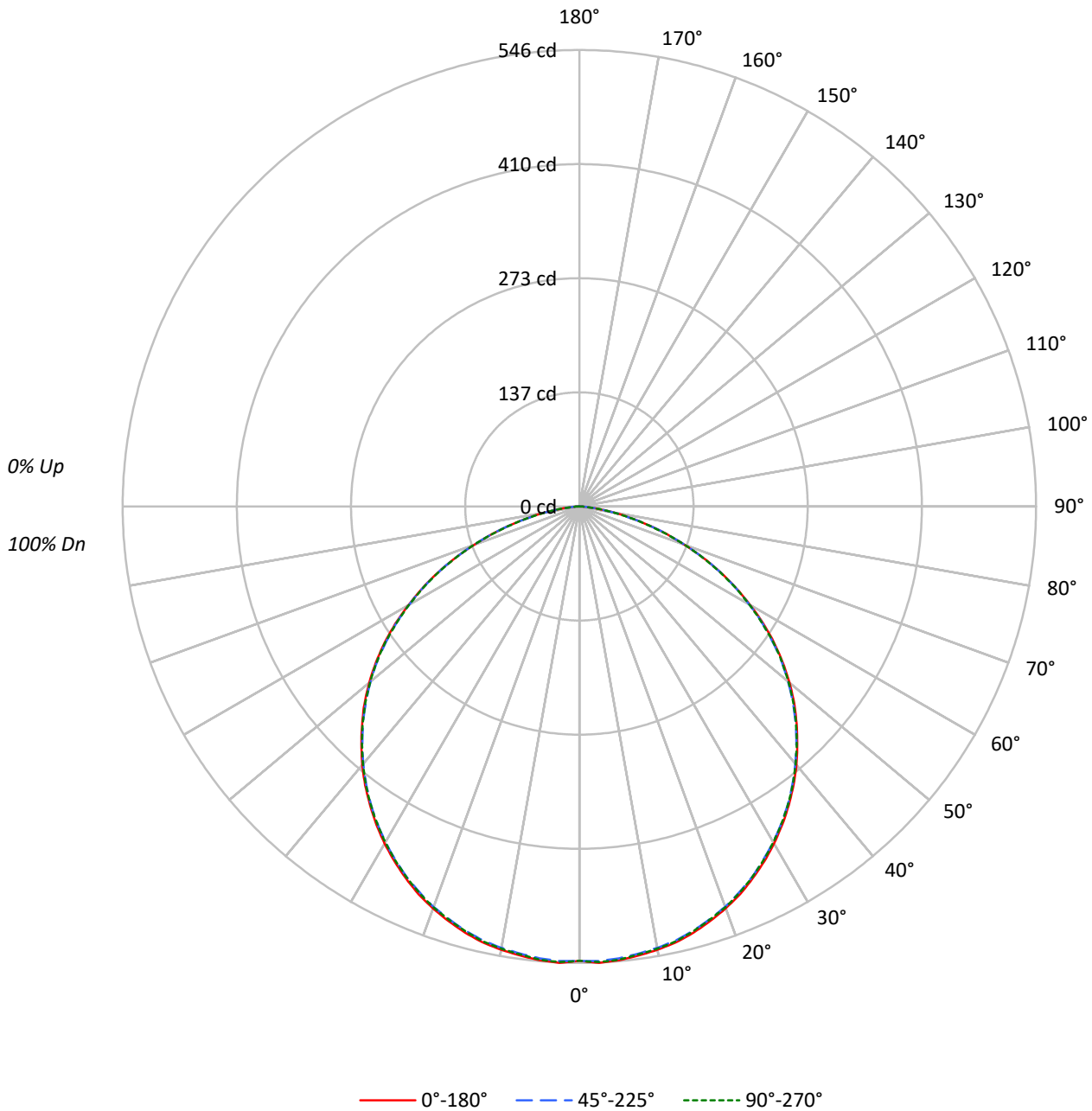
Test Method: LM-79-2019  
Report Number: P974045  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-22-20HE-L950-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1519.9 lumens  
Efficiency: N/A  
Efficacy: 102.7 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°	1463	1463	1463
5°	1472	1465	1470
10°	1471	1465	1468
15°	1470	1464	1465
20°	1465	1459	1461
25°	1457	1451	1452
30°	1447	1441	1441
35°	1434	1428	1429
40°	1419	1411	1413
45°	1398	1391	1394
50°	1373	1363	1366
55°	1334	1323	1328
60°	1269	1263	1263
65°	1184	1182	1178
70°	1049	1054	1051
75°	883	876	869
80°	635	625	618
85°	330	330	321

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1398 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.5	3.4
10°-20°	148.0	9.7
20°-30°	224.9	14.8
30°-40°	271.8	17.9
40°-50°	282.2	18.6
50°-60°	252.3	16.6
60°-70°	183.4	12.1
70°-80°	90.2	5.9
80°-90°	15.6	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°	424.4	27.9
0°-40°	696.2	45.8
0°-60°	1230.7	81.0
0°-90°	1519.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1519.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	544	544	544	544	544	
5°	545	538	542	540	544	52
15°	528	522	525	524	526	149
25°	491	485	489	488	489	226
35°	436	433	435	435	435	273
45°	367	366	366	366	366	283
55°	284	283	282	283	283	253
65°	186	187	186	186	185	183
75°	85	86	84	85	84	90
85°	11	11	11	11	10	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	543.5	543.5	543.5	543.5	543.5
2.5°	546.5	540.1	544.2	541.8	545.5
5°	544.8	538.5	542.5	540.5	544.2
7.5°	541.8	535.4	539.5	537.5	540.5
10°	538.5	531.8	536.1	534.1	537.1
12.5°	534.1	527.7	531.8	530.1	532.8
15°	527.7	521.7	525.4	524.0	526.0
17.5°	520.0	514.0	517.7	516.6	518.3
20°	511.6	505.9	509.6	508.6	510.3
22.5°	502.2	496.2	499.5	498.9	500.2
25°	490.8	485.4	488.8	487.8	489.1
27.5°	478.7	473.7	476.4	476.4	477.0
30°	465.6	460.9	463.6	463.6	463.9
32.5°	451.5	447.8	449.5	449.8	449.8
35°	436.4	433.4	434.7	435.1	435.1
37.5°	420.6	417.6	418.6	419.3	419.3
40°	403.9	401.2	401.8	402.5	402.2
42.5°	385.7	383.7	384.0	384.7	384.7
45°	367.3	365.6	365.6	366.3	366.3
47.5°	348.5	346.8	346.1	346.8	346.8
50°	328.0	326.3	325.6	326.3	326.3
52.5°	306.5	304.8	304.8	304.8	305.2
55°	284.3	282.7	282.0	282.7	283.0
57.5°	260.8	260.2	259.2	259.5	258.5
60°	235.7	235.7	234.7	235.3	234.7
62.5°	211.2	211.8	210.8	210.8	210.2
65°	186.0	186.7	185.6	185.6	185.0
67.5°	160.1	161.1	159.8	159.8	159.1
70°	133.3	135.3	133.9	134.3	133.6
72.5°	109.1	110.1	108.8	108.8	108.1
75°	84.9	85.6	84.3	84.6	83.6
77.5°	61.1	62.1	60.8	61.1	60.8
80°	41.0	41.3	40.3	40.6	39.9
82.5°	23.8	24.2	23.8	23.5	23.2
85°	10.7	11.1	10.7	10.7	10.4
87.5°	2.7	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)