

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: P973467

Luminaire Tested: FLR2-14-20-L850-CP375

Issue Date: 3/13/2025

**Test Information**

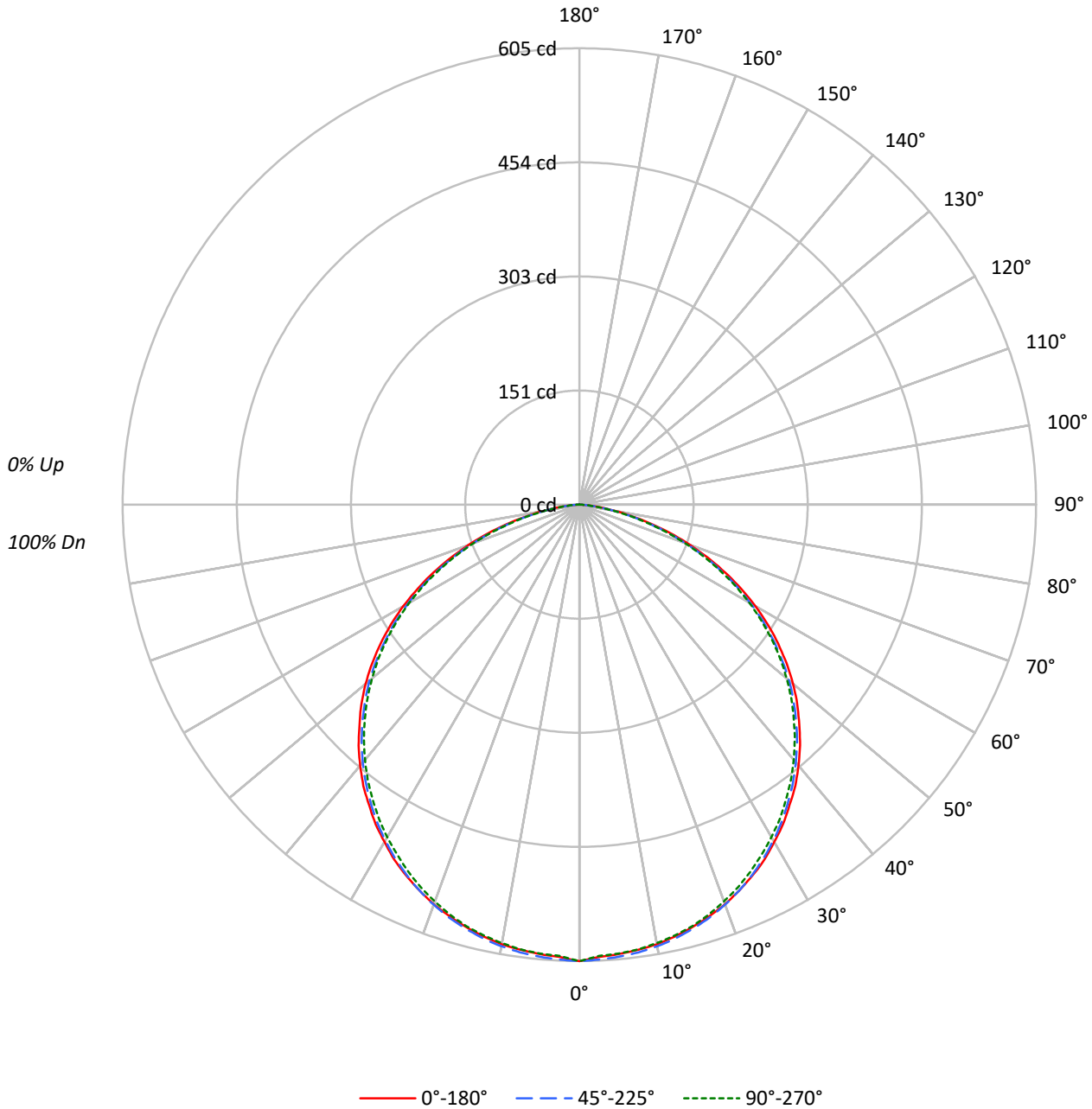
Test Method: LM-79-2019  
Report Number: P973467  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-20-L850-CP375  
Description: 1\*4 FLR-2.0 2000 LUMEN at 5000 CCT & 80CRI with Clear Polycarbonate (0.375" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1694.2 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 16.4  
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	62	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	70	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	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	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	39	32	27	38	32	27	38	31	27	37	31	26	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1629	1629	1629
5°	1616	1626	1614
10°	1618	1625	1613
15°	1615	1621	1612
20°	1615	1617	1604
25°	1611	1608	1594
30°	1605	1597	1582
35°	1596	1584	1568
40°	1587	1567	1552
45°	1568	1545	1529
50°	1547	1519	1501
55°	1508	1473	1459
60°	1449	1409	1397
65°	1358	1318	1303
70°	1224	1175	1165
75°	1026	974	964
80°	745	694	676
85°	395	349	318

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1568 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.3	3.4
10°-20°	164.7	9.7
20°-30°	250.2	14.8
30°-40°	302.6	17.9
40°-50°	314.5	18.6
50°-60°	281.6	16.6
60°-70°	205.4	12.1
70°-80°	101.1	6.0
80°-90°	16.9	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°	472.1	27.9
0°-40°	774.7	45.7
0°-60°	1370.8	80.9
0°-90°	1694.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1694.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	605	605	605	605	605	
5°	598	605	602	608	598	57
15°	580	585	582	587	578	164
25°	543	545	542	544	537	250
35°	486	487	482	484	477	304
45°	412	411	406	407	402	318
55°	322	319	314	313	311	287
65°	213	211	207	206	205	211
75°	99	97	94	93	93	105
85°	13	12	11	10	10	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	605.3	605.3	605.3	605.3	605.3
2.5°	600.1	606.8	603.6	609.6	598.8
5°	598.3	604.8	601.8	607.6	597.6
7.5°	595.3	602.1	598.8	604.3	594.8
10°	592.0	598.1	594.6	600.1	590.3
12.5°	586.3	592.3	589.0	594.1	585.0
15°	579.8	585.0	582.0	587.0	578.5
17.5°	572.3	577.3	574.0	578.5	570.0
20°	564.0	568.0	564.5	568.2	560.0
22.5°	553.7	557.5	553.7	556.2	549.0
25°	542.7	545.4	541.7	544.2	536.7
27.5°	530.9	532.4	528.7	530.7	522.9
30°	516.4	518.1	514.1	516.6	509.1
32.5°	502.4	503.4	498.8	500.8	494.1
35°	485.8	486.8	482.1	484.1	477.3
37.5°	470.0	469.8	464.8	466.0	460.3
40°	451.7	451.5	446.2	447.2	441.7
42.5°	432.9	431.9	426.9	427.4	422.4
45°	411.9	411.4	406.1	406.9	401.9
47.5°	391.6	390.1	384.8	385.1	380.8
50°	369.6	367.3	362.8	362.3	358.5
52.5°	346.0	343.5	338.5	338.0	335.2
55°	321.5	318.7	313.9	313.2	310.9
57.5°	296.1	292.6	288.9	287.4	285.6
60°	269.3	266.1	261.8	260.3	259.6
62.5°	241.5	238.3	235.0	233.5	232.5
65°	213.2	210.7	207.0	205.5	204.7
67.5°	184.4	182.1	178.6	176.9	176.6
70°	155.6	153.3	149.3	148.3	148.1
72.5°	126.8	124.8	121.0	120.0	120.0
75°	98.7	97.0	93.7	92.7	92.7
77.5°	72.2	70.7	68.1	66.9	66.9
80°	48.1	47.1	44.8	43.8	43.6
82.5°	27.8	27.3	25.3	24.3	24.8
85°	12.8	12.3	11.3	10.0	10.3
87.5°	3.3	3.0	2.3	1.8	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)