

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: P973383

Luminaire Tested: FLR2-14-20-L835-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973383  
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-L835-CP375  
Description: 1\*4 FLR-2.0 2000 LUMEN at 3500 CCT & 80CRI with Clear Polycarbonate (0.375" thickness)  
  
Light Source:  
Ballast/Driver: -

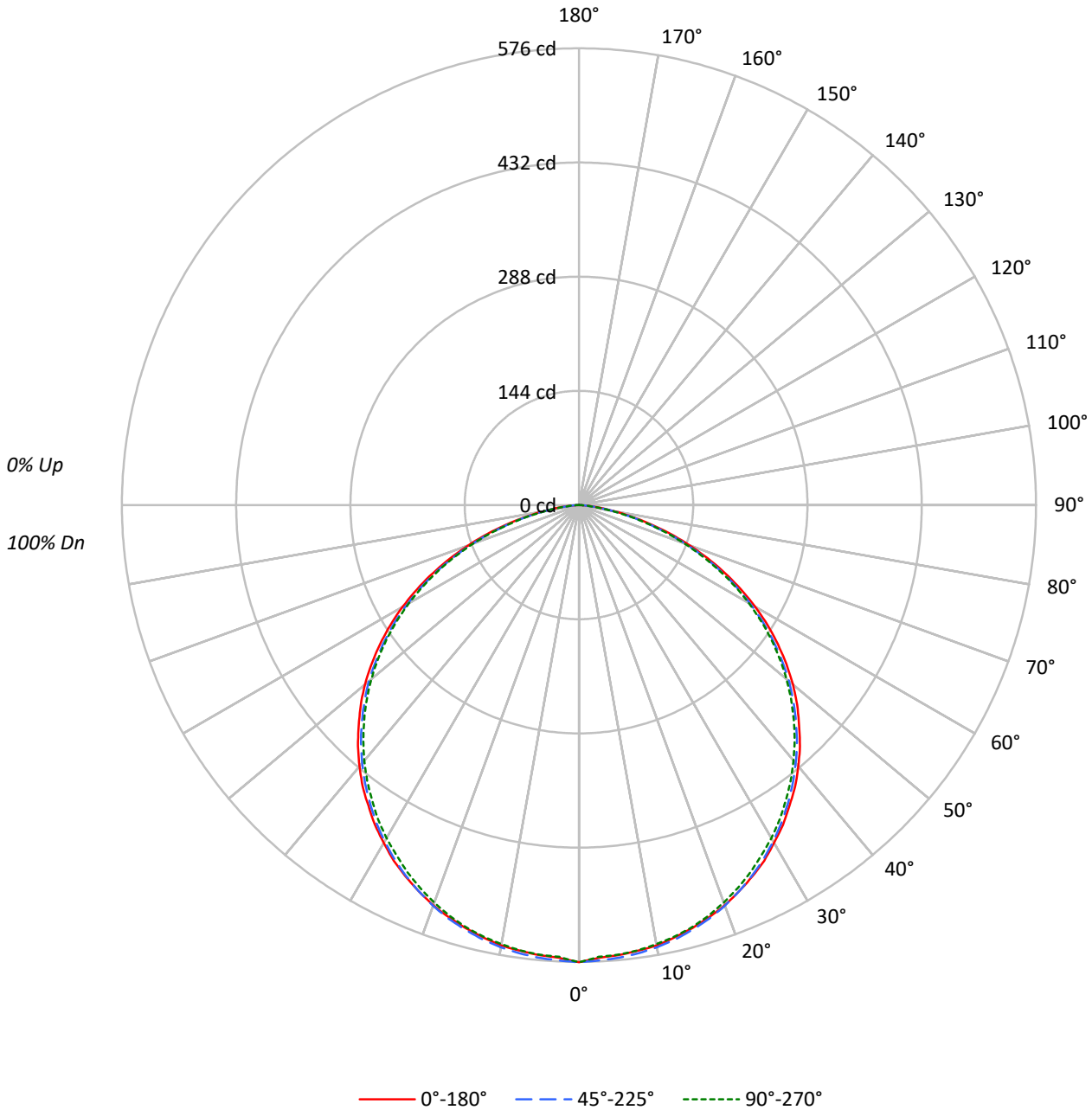
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1613.5 lumens  
Efficiency: N/A  
Efficacy: 98.4 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										
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	62	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	70	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	49	42	37	48	41	36	47	41	36	34					34															
8	61	47	39	33	59	47	38	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	39	32	27	38	32	27	38	31	27	37	31	26	25					25															

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

	0°	45°	90°
0°	1551	1551	1551
5°	1539	1548	1537
10°	1541	1547	1536
15°	1538	1544	1535
20°	1538	1540	1527
25°	1534	1532	1518
30°	1528	1521	1507
35°	1520	1508	1493
40°	1511	1493	1478
45°	1493	1472	1456
50°	1474	1446	1430
55°	1436	1403	1389
60°	1380	1342	1330
65°	1293	1255	1242
70°	1166	1119	1109
75°	977	927	918
80°	710	662	643
85°	377	330	303

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1493 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.6	3.4
10°-20°	156.8	9.7
20°-30°	238.2	14.8
30°-40°	288.2	17.9
40°-50°	299.5	18.6
50°-60°	268.2	16.6
60°-70°	195.6	12.1
70°-80°	96.3	6.0
80°-90°	16.1	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°	449.7	27.9
0°-40°	737.8	45.7
0°-60°	1305.5	80.9
0°-90°	1613.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1613.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	570	576	573	579	569	54
15°	552	557	554	559	551	156
25°	517	520	516	518	511	238
35°	463	464	459	461	455	290
45°	392	392	387	388	383	303
55°	306	304	299	298	296	273
65°	203	201	197	196	195	201
75°	94	92	89	88	88	100
85°	12	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°	576.5	576.5	576.5	576.5	576.5
2.5°	571.5	577.9	574.8	580.6	570.3
5°	569.8	576.0	573.2	578.6	569.1
7.5°	567.0	573.4	570.3	575.5	566.5
10°	563.9	569.6	566.2	571.5	562.2
12.5°	558.4	564.1	561.0	565.8	557.2
15°	552.2	557.2	554.3	559.1	551.0
17.5°	545.0	549.8	546.7	551.0	542.9
20°	537.1	540.9	537.6	541.2	533.3
22.5°	527.3	530.9	527.3	529.7	522.8
25°	516.8	519.5	515.9	518.3	511.1
27.5°	505.6	507.1	503.5	505.4	498.0
30°	491.8	493.5	489.6	492.0	484.9
32.5°	478.4	479.4	475.1	477.0	470.6
35°	462.7	463.6	459.1	461.0	454.6
37.5°	447.6	447.4	442.6	443.8	438.3
40°	430.2	430.0	425.0	425.9	420.7
42.5°	412.3	411.4	406.6	407.1	402.3
45°	392.3	391.8	386.8	387.5	382.7
47.5°	373.0	371.5	366.5	366.8	362.7
50°	352.0	349.8	345.5	345.0	341.5
52.5°	329.5	327.1	322.4	321.9	319.3
55°	306.1	303.5	299.0	298.3	296.1
57.5°	282.0	278.7	275.1	273.7	272.0
60°	256.5	253.4	249.4	247.9	247.2
62.5°	230.0	226.9	223.8	222.4	221.4
65°	203.1	200.7	197.1	195.7	195.0
67.5°	175.6	173.5	170.1	168.5	168.2
70°	148.2	146.0	142.2	141.3	141.0
72.5°	120.7	118.8	115.3	114.3	114.3
75°	94.0	92.3	89.2	88.3	88.3
77.5°	68.7	67.3	64.9	63.7	63.7
80°	45.8	44.9	42.7	41.8	41.5
82.5°	26.5	26.0	24.1	23.1	23.6
85°	12.2	11.7	10.7	9.5	9.8
87.5°	3.1	2.9	2.1	1.7	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)