

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: P973417

Luminaire Tested: FLR2-14-30-L840-CP125

Issue Date: 3/13/2025

**Test Information**

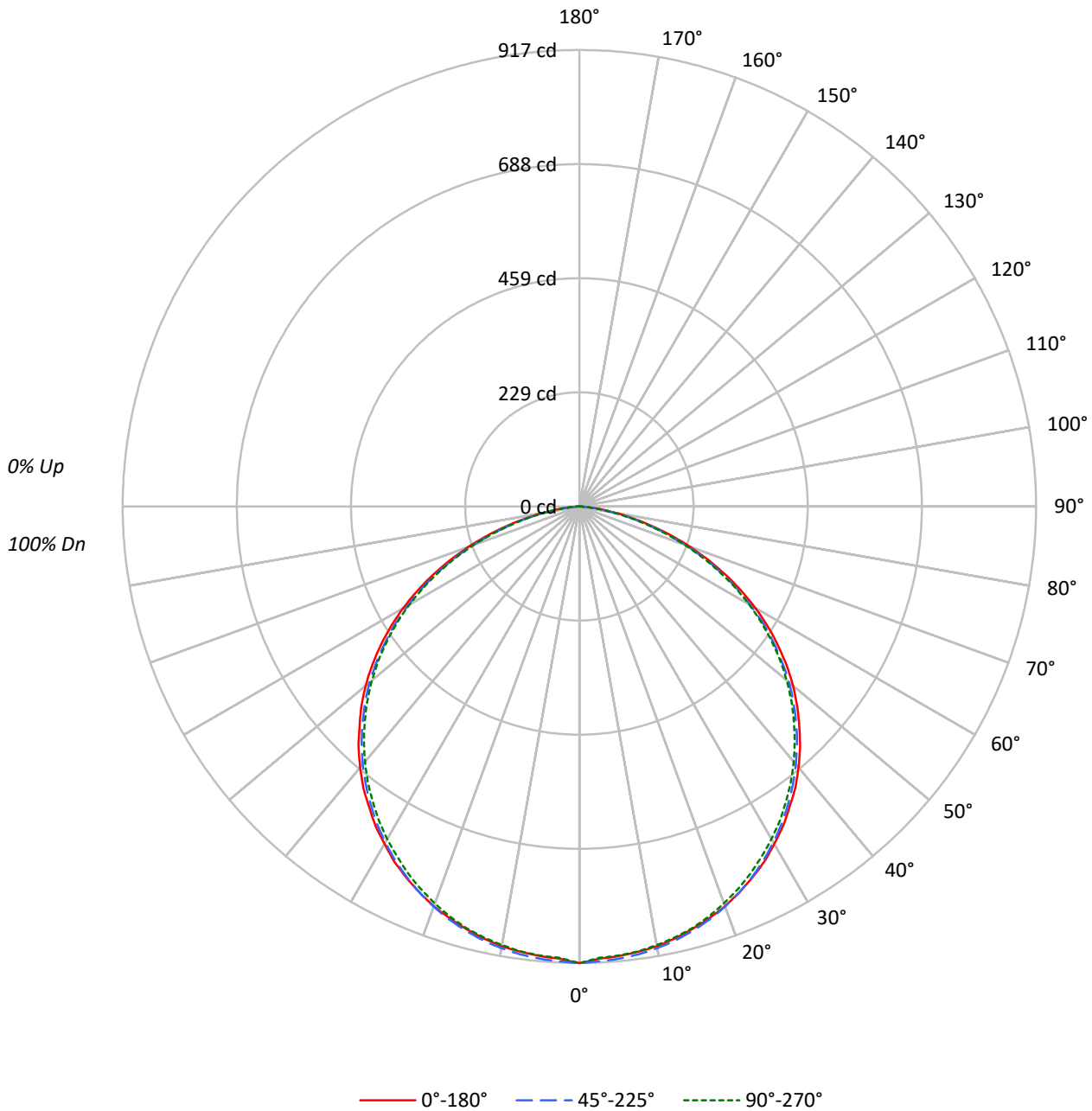
Test Method: LM-79-2019  
Report Number: P973417  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-30-L840-CP125  
Description: 1\*4 FLR-2.0 3000 LUMEN at 4000 CCT & 80CRI Clear Polycarbonate (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2567.7 lumens  
Efficiency: N/A  
Efficacy: 107.4 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): 23.9  
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°	2469	2469	2469
5°	2450	2464	2446
10°	2452	2462	2444
15°	2448	2457	2443
20°	2448	2450	2430
25°	2442	2438	2415
30°	2432	2421	2398
35°	2419	2400	2376
40°	2405	2376	2352
45°	2376	2342	2318
50°	2345	2302	2275
55°	2286	2232	2211
60°	2197	2136	2117
65°	2057	1997	1975
70°	1855	1781	1766
75°	1555	1476	1461
80°	1130	1054	1024
85°	599	528	482

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2376 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.9	3.4
10°-20°	249.5	9.7
20°-30°	379.1	14.8
30°-40°	458.6	17.9
40°-50°	476.6	18.6
50°-60°	426.7	16.6
60°-70°	311.3	12.1
70°-80°	153.3	6.0
80°-90°	25.6	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°	715.6	27.9
0°-40°	1174.2	45.7
0°-60°	2077.6	80.9
0°-90°	2567.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2567.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	917	917	917	917	917	
5°	907	917	912	921	906	86
15°	879	887	882	890	877	248
25°	822	827	821	825	813	379
35°	736	738	731	734	723	461
45°	624	624	616	617	609	482
55°	487	483	476	475	471	435
65°	323	319	314	311	310	319
75°	150	147	142	140	140	159
85°	19	19	17	15	16	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	917.4	917.4	917.4	917.4	917.4
2.5°	909.4	919.7	914.8	923.9	907.5
5°	906.8	916.7	912.1	920.8	905.6
7.5°	902.2	912.5	907.5	915.9	901.5
10°	897.3	906.4	901.1	909.4	894.6
12.5°	888.6	897.7	892.7	900.3	886.7
15°	878.7	886.7	882.1	889.7	876.8
17.5°	867.3	874.9	869.9	876.8	863.9
20°	854.8	860.8	855.5	861.2	848.7
22.5°	839.2	844.9	839.2	843.0	832.0
25°	822.5	826.7	821.0	824.8	813.4
27.5°	804.6	806.9	801.2	804.3	792.5
30°	782.6	785.3	779.2	783.0	771.6
32.5°	761.3	762.9	756.0	759.1	748.8
35°	736.3	737.8	730.6	733.6	723.4
37.5°	712.4	712.0	704.4	706.3	697.6
40°	684.6	684.3	676.3	677.8	669.5
42.5°	656.2	654.6	647.0	647.8	640.2
45°	624.3	623.5	615.5	616.7	609.1
47.5°	593.5	591.2	583.3	583.6	577.2
50°	560.1	556.7	549.8	549.1	543.4
52.5°	524.4	520.6	513.0	512.2	508.1
55°	487.2	483.0	475.8	474.7	471.2
57.5°	448.8	443.5	437.8	435.5	432.9
60°	408.2	403.3	396.8	394.5	393.4
62.5°	366.1	361.1	356.2	353.9	352.4
65°	323.1	319.3	313.7	311.4	310.2
67.5°	279.5	276.1	270.7	268.1	267.7
70°	235.8	232.4	226.3	224.8	224.4
72.5°	192.1	189.1	183.4	181.9	181.9
75°	149.6	147.0	142.0	140.5	140.5
77.5°	109.4	107.1	103.3	101.4	101.4
80°	72.9	71.4	68.0	66.5	66.1
82.5°	42.1	41.4	38.4	36.8	37.6
85°	19.4	18.6	17.1	15.2	15.6
87.5°	4.9	4.6	3.4	2.7	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)