

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: P973468

Luminaire Tested: FLR2-14-30-L850-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973468
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-L850-CP375
Description: 1*4 FLR-2.0 3000 LUMEN at 5000 CCT & 80CRI Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

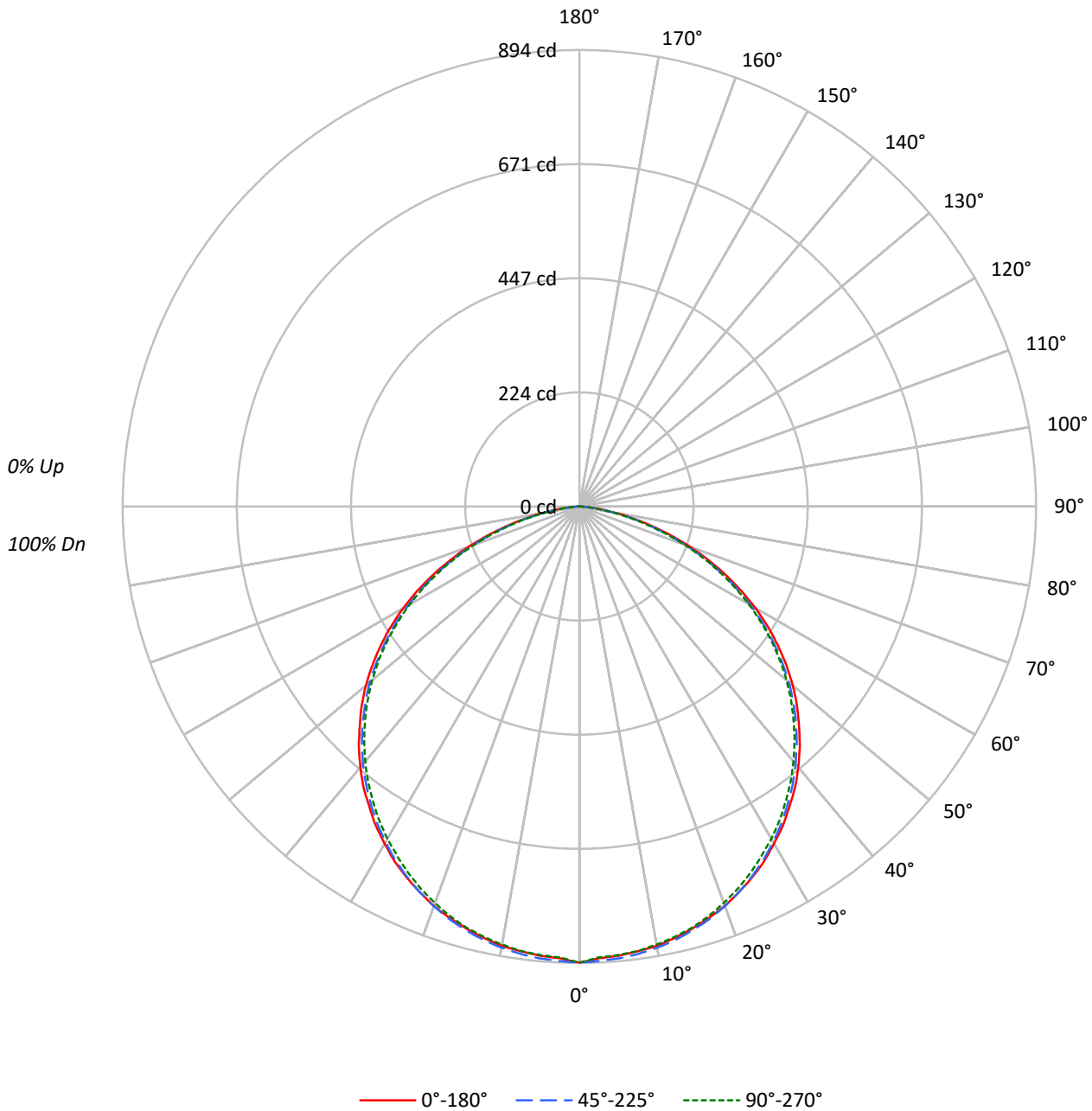
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2500.7 lumens
Efficiency: N/A
Efficacy: 104.6 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

TEST NUMBER: P973468
CATALOG NUMBER: FLR2-14-30-L850-CP375

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°	2404	2404	2404
5°	2385	2400	2383
10°	2388	2398	2381
15°	2384	2393	2379
20°	2384	2386	2367
25°	2378	2374	2352
30°	2368	2358	2335
35°	2356	2337	2314
40°	2342	2314	2290
45°	2314	2281	2257
50°	2284	2242	2215
55°	2226	2174	2153
60°	2140	2080	2062
65°	2004	1945	1924
70°	1807	1734	1720
75°	1515	1438	1422
80°	1100	1026	996
85°	584	513	469

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2314 cd/sqm



TEST NUMBER: P973468
 CATALOG NUMBER: FLR2-14-30-L850-CP375

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	3.4
10°-20°	243.0	9.7
20°-30°	369.2	14.8
30°-40°	446.7	17.9
40°-50°	464.2	18.6
50°-60°	415.6	16.6
60°-70°	303.1	12.1
70°-80°	149.3	6.0
80°-90°	25.0	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°	696.9	27.9
0°-40°	1143.6	45.7
0°-60°	2023.4	80.9
0°-90°	2500.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2500.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	894	894	894	894	894	
5°	883	893	888	897	882	84
15°	856	864	859	866	854	242
25°	801	805	800	803	792	369
35°	717	719	712	714	704	449
45°	608	607	600	601	593	469
55°	474	470	463	462	459	424
65°	315	311	306	303	302	311
75°	146	143	138	137	137	155
85°	19	18	17	15	15	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	893.5	893.5	893.5	893.5	893.5
2.5°	885.7	895.7	890.9	899.8	883.9
5°	883.1	892.7	888.3	896.8	882.0
7.5°	878.7	888.7	883.9	892.0	878.0
10°	873.9	882.8	877.6	885.7	871.3
12.5°	865.4	874.3	869.4	876.8	863.5
15°	855.8	863.5	859.1	866.5	853.9
17.5°	844.7	852.1	847.3	853.9	841.3
20°	832.5	838.4	833.2	838.7	826.5
22.5°	817.3	822.8	817.3	821.0	810.3
25°	801.0	805.1	799.5	803.2	792.2
27.5°	783.6	785.9	780.3	783.3	771.8
30°	762.2	764.8	758.9	762.6	751.5
32.5°	741.5	743.0	736.3	739.3	729.3
35°	717.1	718.6	711.5	714.5	704.5
37.5°	693.8	693.4	686.0	687.9	679.4
40°	666.8	666.4	658.6	660.1	652.0
42.5°	639.0	637.6	630.2	630.9	623.5
45°	608.0	607.2	599.5	600.6	593.2
47.5°	578.0	575.8	568.0	568.4	562.1
50°	545.5	542.2	535.5	534.8	529.2
52.5°	510.7	507.0	499.6	498.9	494.8
55°	474.5	470.4	463.4	462.3	458.9
57.5°	437.1	431.9	426.4	424.2	421.6
60°	397.6	392.7	386.5	384.2	383.1
62.5°	356.5	351.7	346.9	344.7	343.2
65°	314.7	311.0	305.5	303.3	302.1
67.5°	272.2	268.9	263.7	261.1	260.7
70°	229.7	226.3	220.4	218.9	218.6
72.5°	187.1	184.2	178.6	177.1	177.1
75°	145.7	143.1	138.3	136.8	136.8
77.5°	106.5	104.3	100.6	98.7	98.7
80°	71.0	69.5	66.2	64.7	64.3
82.5°	41.0	40.3	37.4	35.9	36.6
85°	18.9	18.1	16.6	14.8	15.2
87.5°	4.8	4.4	3.3	2.6	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)