

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: P973300

Luminaire Tested: FLR2-14-30HE-L950-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973300
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: FLR2-14-30HE-L950-CP125
Description: 1*4 FLR-2.0 5000 Lumen High Efficacy at 5000CCT & 90 CRI Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

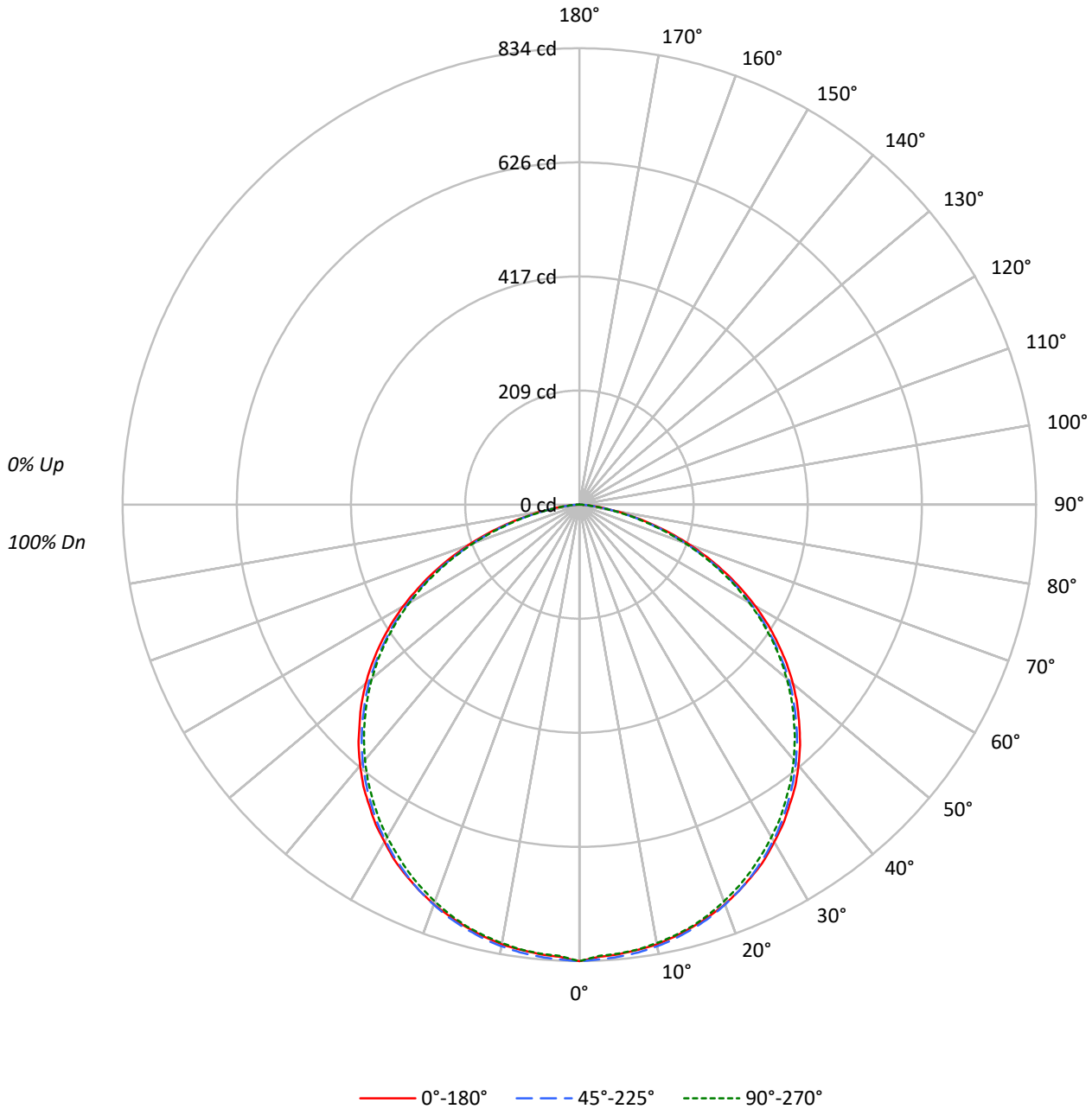
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2335.4 lumens
Efficiency: N/A
Efficacy: 104.3 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): 22.4
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°	2245	2245	2245
5°	2228	2241	2225
10°	2230	2240	2223
15°	2226	2235	2222
20°	2226	2228	2210
25°	2221	2217	2197
30°	2212	2202	2181
35°	2200	2183	2161
40°	2187	2161	2139
45°	2161	2131	2108
50°	2133	2094	2069
55°	2079	2031	2011
60°	1998	1942	1926
65°	1871	1817	1797
70°	1688	1619	1606
75°	1415	1343	1329
80°	1027	958	931
85°	543	479	438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2161 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	3.4
10°-20°	227.0	9.7
20°-30°	344.8	14.8
30°-40°	417.1	17.9
40°-50°	433.5	18.6
50°-60°	388.1	16.6
60°-70°	283.1	12.1
70°-80°	139.4	6.0
80°-90°	23.3	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°	650.9	27.9
0°-40°	1068.0	45.7
0°-60°	1889.6	80.9
0°-90°	2335.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2335.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	834	834	834	834	834	
5°	825	834	830	838	824	78
15°	799	806	802	809	798	226
25°	748	752	747	750	740	345
35°	670	671	664	667	658	419
45°	568	567	560	561	554	438
55°	443	439	433	432	429	396
65°	294	290	285	283	282	290
75°	136	134	129	128	128	145
85°	18	17	16	14	14	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	834.4	834.4	834.4	834.4	834.4
2.5°	827.2	836.5	832.0	840.3	825.5
5°	824.8	833.7	829.6	837.5	823.7
7.5°	820.6	829.9	825.5	833.1	819.9
10°	816.1	824.4	819.6	827.2	813.7
12.5°	808.2	816.5	812.0	818.9	806.5
15°	799.2	806.5	802.3	809.2	797.5
17.5°	788.8	795.8	791.3	797.5	785.7
20°	777.4	783.0	778.1	783.3	771.9
22.5°	763.3	768.5	763.3	766.7	756.7
25°	748.1	751.9	746.7	750.2	739.8
27.5°	731.9	733.9	728.8	731.5	720.8
30°	711.8	714.2	708.7	712.2	701.8
32.5°	692.5	693.9	687.7	690.4	681.1
35°	669.7	671.1	664.5	667.3	657.9
37.5°	647.9	647.6	640.7	642.4	634.5
40°	622.7	622.4	615.1	616.5	608.9
42.5°	596.8	595.4	588.5	589.2	582.3
45°	567.8	567.1	559.9	560.9	554.0
47.5°	539.8	537.8	530.5	530.8	525.0
50°	509.4	506.3	500.1	499.4	494.2
52.5°	477.0	473.5	466.6	465.9	462.1
55°	443.1	439.3	432.8	431.7	428.6
57.5°	408.2	403.4	398.2	396.2	393.7
60°	371.3	366.8	360.9	358.8	357.8
62.5°	332.9	328.5	324.0	321.9	320.5
65°	293.9	290.5	285.3	283.2	282.2
67.5°	254.2	251.1	246.3	243.8	243.5
70°	214.5	211.4	205.8	204.5	204.1
72.5°	174.8	172.0	166.8	165.4	165.4
75°	136.1	133.7	129.2	127.8	127.8
77.5°	99.5	97.4	93.9	92.2	92.2
80°	66.3	64.9	61.8	60.4	60.1
82.5°	38.3	37.6	34.9	33.5	34.2
85°	17.6	16.9	15.5	13.8	14.2
87.5°	4.5	4.1	3.1	2.4	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)