

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: P973240

Luminaire Tested: FLR2-14-30HE-L940-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973240
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-L940-CP250
Description: 1*4 FLR-2.0 4000 Lumen High Efficacy at 4000CCT & 90 CRI Clear Polycarbonate (0.250" thickness)

Light Source:
Ballast/Driver: -

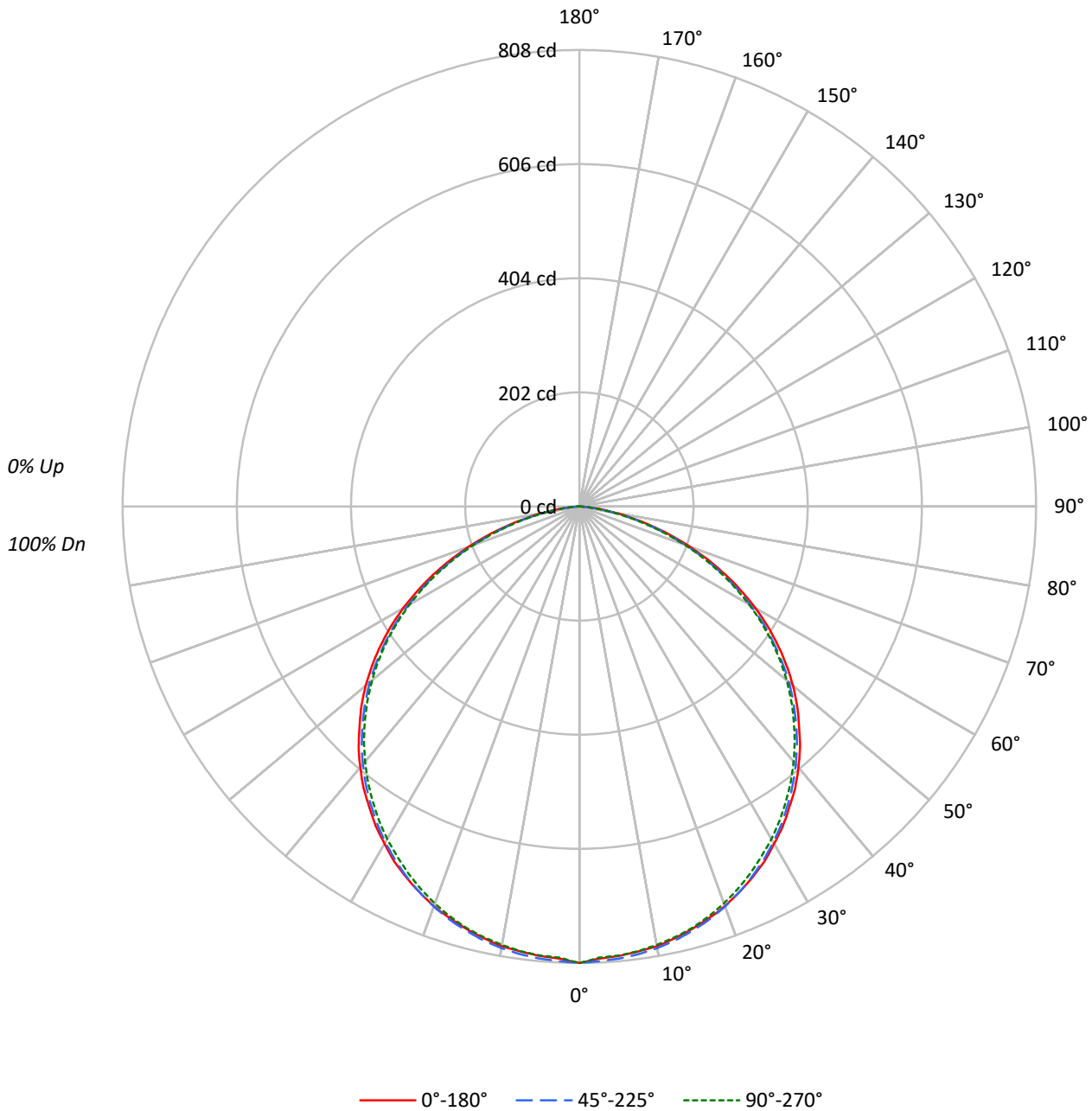
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2261.7 lumens
Efficiency: N/A
Efficacy: 101.0 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										
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°	2175	2175	2175
5°	2157	2170	2155
10°	2160	2169	2153
15°	2156	2165	2152
20°	2156	2158	2141
25°	2151	2147	2127
30°	2142	2133	2112
35°	2130	2114	2093
40°	2119	2093	2072
45°	2093	2063	2042
50°	2066	2027	2004
55°	2013	1966	1947
60°	1935	1881	1865
65°	1812	1759	1740
70°	1634	1568	1555
75°	1370	1301	1287
80°	995	928	902
85°	528	466	423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2093 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	3.4
10°-20°	219.8	9.7
20°-30°	333.9	14.8
30°-40°	404.0	17.9
40°-50°	419.8	18.6
50°-60°	375.9	16.6
60°-70°	274.2	12.1
70°-80°	135.0	6.0
80°-90°	22.6	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°	630.3	27.9
0°-40°	1034.3	45.7
0°-60°	1830.0	80.9
0°-90°	2261.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2261.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	808	808	808	808	808	
5°	799	807	803	811	798	76
15°	774	781	777	784	772	219
25°	724	728	723	726	716	334
35°	648	650	644	646	637	406
45°	550	549	542	543	536	425
55°	429	426	419	418	415	383
65°	285	281	276	274	273	281
75°	132	129	125	124	124	140
85°	17	16	15	13	14	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	808.1	808.1	808.1	808.1	808.1
2.5°	801.1	810.1	805.8	813.8	799.4
5°	798.7	807.4	803.4	811.1	797.7
7.5°	794.7	803.7	799.4	806.8	794.0
10°	790.4	798.4	793.7	801.1	788.0
12.5°	782.7	790.7	786.4	793.0	781.0
15°	774.0	781.0	777.0	783.7	772.3
17.5°	763.9	770.6	766.3	772.3	760.9
20°	752.9	758.3	753.6	758.6	747.6
22.5°	739.2	744.2	739.2	742.5	732.8
25°	724.5	728.2	723.1	726.5	716.4
27.5°	708.8	710.8	705.7	708.4	698.1
30°	689.4	691.7	686.3	689.7	679.7
32.5°	670.6	672.0	665.9	668.6	659.6
35°	648.5	649.9	643.5	646.2	637.2
37.5°	627.5	627.1	620.5	622.1	614.4
40°	603.1	602.7	595.7	597.0	589.7
42.5°	578.0	576.6	569.9	570.6	563.9
45°	549.9	549.2	542.2	543.2	536.5
47.5°	522.8	520.8	513.8	514.1	508.4
50°	493.4	490.3	484.3	483.7	478.6
52.5°	461.9	458.6	451.9	451.2	447.5
55°	429.1	425.5	419.1	418.1	415.1
57.5°	395.4	390.7	385.7	383.6	381.3
60°	359.6	355.2	349.5	347.5	346.5
62.5°	322.4	318.1	313.7	311.7	310.4
65°	284.6	281.3	276.3	274.3	273.3
67.5°	246.2	243.2	238.5	236.1	235.8
70°	207.7	204.7	199.3	198.0	197.7
72.5°	169.2	166.6	161.6	160.2	160.2
75°	131.8	129.4	125.1	123.8	123.8
77.5°	96.3	94.3	91.0	89.3	89.3
80°	64.2	62.9	59.9	58.5	58.2
82.5°	37.1	36.5	33.8	32.4	33.1
85°	17.1	16.4	15.1	13.4	13.7
87.5°	4.3	4.0	3.0	2.3	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)