

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: P973310

Luminaire Tested: FLR2-14-30HE-L950-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973310
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-CP250
Description: 1*4 FLR-2.0 5000 Lumen High Efficacy at 5000CCT & 90 CRI Clear Polycarbonate (0.250" thickness)

Light Source:
Ballast/Driver: -

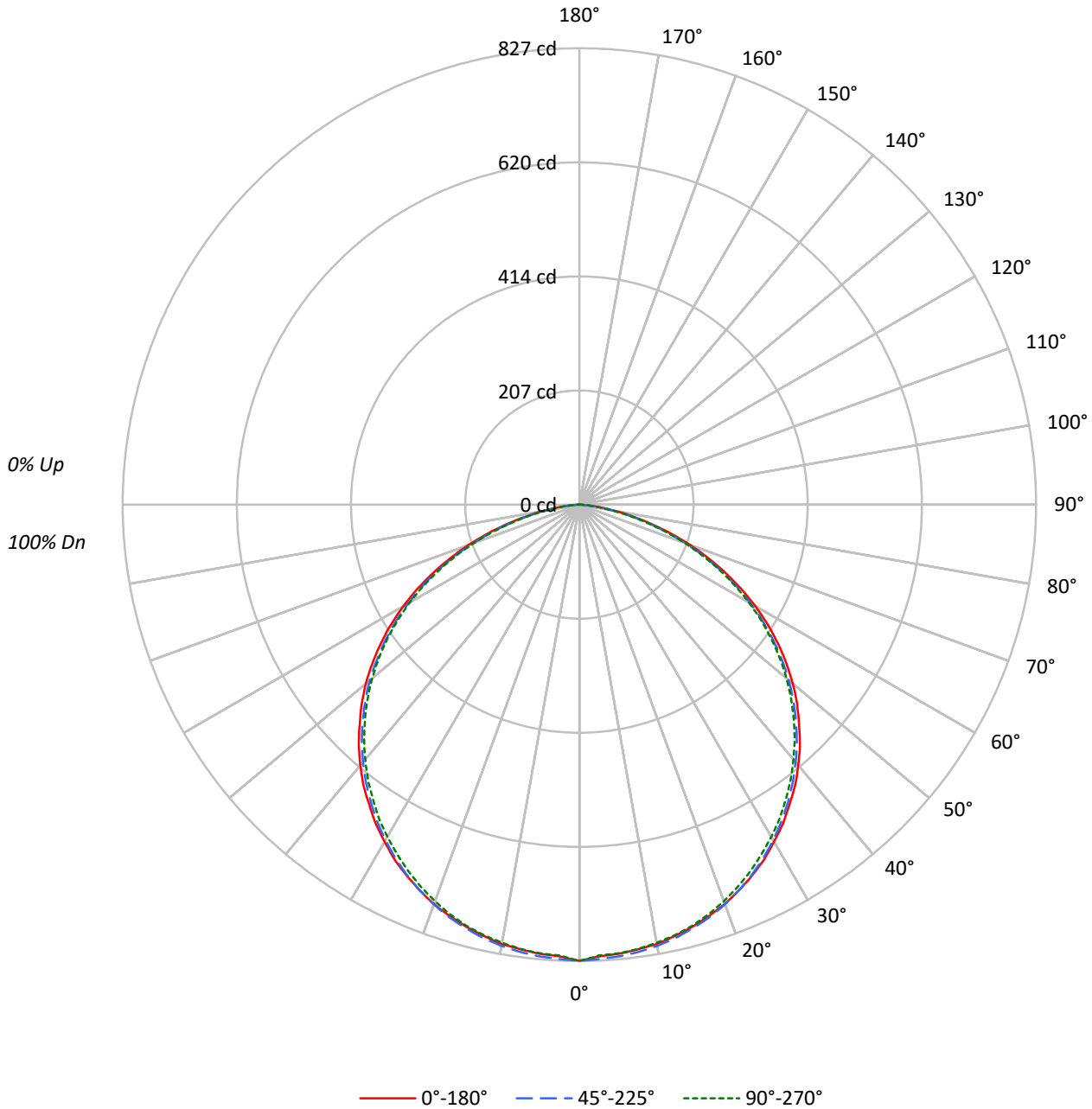
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2313.8 lumens
Efficiency: N/A
Efficacy: 103.3 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										
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°	2225	2225	2225
5°	2207	2220	2204
10°	2209	2219	2203
15°	2206	2214	2201
20°	2206	2208	2190
25°	2200	2197	2176
30°	2191	2182	2160
35°	2180	2163	2141
40°	2167	2141	2119
45°	2141	2111	2089
50°	2113	2074	2050
55°	2060	2011	1992
60°	1979	1925	1908
65°	1854	1799	1780
70°	1672	1604	1591
75°	1402	1331	1316
80°	1018	948	922
85°	540	475	432

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2141 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	3.4
10°-20°	224.9	9.7
20°-30°	341.6	14.8
30°-40°	413.2	17.9
40°-50°	429.5	18.6
50°-60°	384.5	16.6
60°-70°	280.5	12.1
70°-80°	138.1	6.0
80°-90°	23.1	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°	644.8	27.9
0°-40°	1058.0	45.7
0°-60°	1872.1	80.9
0°-90°	2313.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2313.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	827	827	827	827	827	
5°	817	826	822	830	816	78
15°	792	799	795	802	790	224
25°	741	745	740	743	733	342
35°	664	665	658	661	652	415
45°	562	562	555	556	549	434
55°	439	435	429	428	425	392
65°	291	288	283	281	280	288
75°	135	132	128	127	127	144
85°	18	17	15	14	14	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	826.7	826.7	826.7	826.7	826.7
2.5°	819.5	828.7	824.3	832.5	817.8
5°	817.1	826.0	821.9	829.8	816.1
7.5°	813.0	822.2	817.8	825.3	812.3
10°	808.5	816.7	812.0	819.5	806.1
12.5°	800.7	808.9	804.4	811.3	799.0
15°	791.8	799.0	794.8	801.7	790.1
17.5°	781.5	788.3	783.9	790.1	778.4
20°	770.2	775.7	770.9	776.0	764.7
22.5°	756.2	761.3	756.2	759.6	749.7
25°	741.1	744.9	739.8	743.2	732.9
27.5°	725.0	727.1	722.0	724.7	714.1
30°	705.2	707.6	702.1	705.5	695.3
32.5°	686.0	687.4	681.3	684.0	674.7
35°	663.5	664.8	658.3	661.1	651.8
37.5°	641.9	641.6	634.7	636.4	628.6
40°	616.9	616.6	609.4	610.8	603.2
42.5°	591.3	589.9	583.0	583.7	576.9
45°	562.5	561.8	554.6	555.7	548.8
47.5°	534.8	532.8	525.6	525.9	520.1
50°	504.7	501.6	495.5	494.8	489.6
52.5°	472.5	469.1	462.3	461.6	457.8
55°	439.0	435.2	428.7	427.7	424.6
57.5°	404.4	399.6	394.5	392.5	390.1
60°	367.8	363.4	357.6	355.5	354.5
62.5°	329.8	325.4	321.0	318.9	317.5
65°	291.2	287.8	282.6	280.6	279.5
67.5°	251.8	248.8	244.0	241.6	241.2
70°	212.5	209.4	203.9	202.6	202.2
72.5°	173.1	170.4	165.3	163.9	163.9
75°	134.8	132.4	128.0	126.6	126.6
77.5°	98.5	96.5	93.1	91.4	91.4
80°	65.7	64.3	61.2	59.9	59.5
82.5°	38.0	37.3	34.6	33.2	33.9
85°	17.5	16.8	15.4	13.7	14.0
87.5°	4.4	4.1	3.1	2.4	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)