

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: P973299

Luminaire Tested: FLR2-14-20HE-L950-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973299
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: FLR2-14-20HE-L950-CP125
Description: 1*4 FLR-2.0 2000 Lumen High Efficacy at 5000CCT & 90 CRI with Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

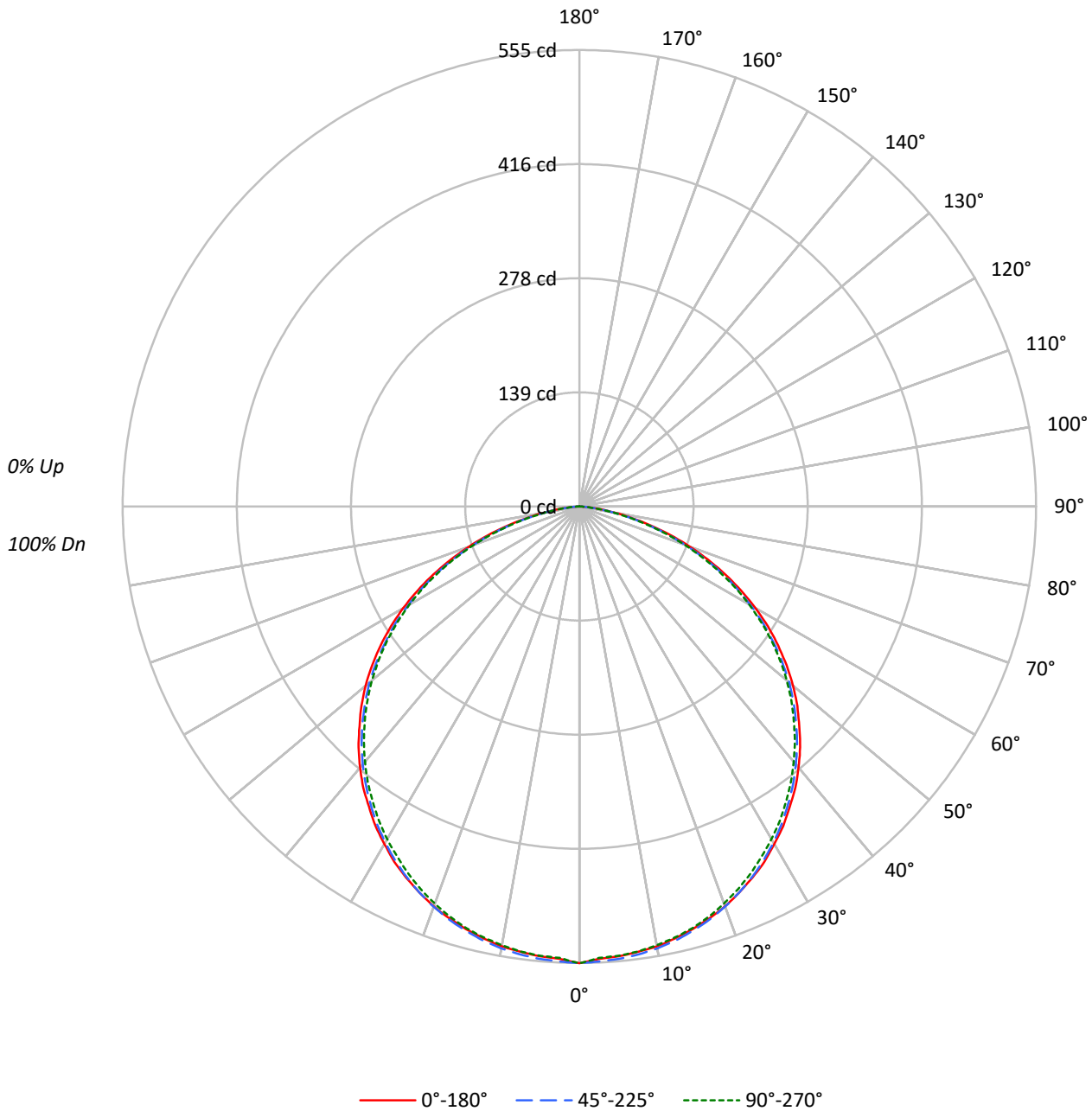
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1554.5 lumens
Efficiency: N/A
Efficacy: 105.0 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): 14.8
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: P973299
CATALOG NUMBER: FLR2-14-20HE-L950-CP125

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°	1495	1495	1495
5°	1483	1492	1481
10°	1484	1491	1480
15°	1482	1488	1479
20°	1482	1483	1471
25°	1478	1476	1462
30°	1472	1466	1451
35°	1464	1453	1439
40°	1456	1438	1424
45°	1438	1418	1403
50°	1420	1394	1377
55°	1384	1351	1339
60°	1330	1293	1282
65°	1245	1209	1196
70°	1124	1078	1069
75°	942	894	885
80°	683	637	620
85°	361	318	290

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1438 cd/sqm



TEST NUMBER: P973299
 CATALOG NUMBER: FLR2-14-20HE-L950-CP125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	3.4
10°-20°	151.1	9.7
20°-30°	229.5	14.8
30°-40°	277.6	17.9
40°-50°	288.5	18.6
50°-60°	258.4	16.6
60°-70°	188.4	12.1
70°-80°	92.8	6.0
80°-90°	15.5	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°	433.2	27.9
0°-40°	710.8	45.7
0°-60°	1257.7	80.9
0°-90°	1554.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1554.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	555	555	555	555	555	
5°	549	555	552	558	548	52
15°	532	537	534	539	531	150
25°	498	500	497	499	492	230
35°	446	447	442	444	438	279
45°	378	378	373	373	369	292
55°	295	292	288	287	285	263
65°	196	193	190	188	188	193
75°	91	89	86	85	85	97
85°	12	11	10	9	9	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	555.4	555.4	555.4	555.4	555.4
2.5°	550.6	556.8	553.8	559.3	549.4
5°	549.0	554.9	552.2	557.5	548.3
7.5°	546.2	552.4	549.4	554.5	545.7
10°	543.2	548.7	545.5	550.6	541.6
12.5°	537.9	543.4	540.5	545.1	536.8
15°	532.0	536.8	534.0	538.6	530.8
17.5°	525.1	529.7	526.7	530.8	523.0
20°	517.5	521.2	517.9	521.4	513.8
22.5°	508.0	511.5	508.0	510.3	503.7
25°	497.9	500.5	497.0	499.3	492.4
27.5°	487.1	488.5	485.1	486.9	479.8
30°	473.8	475.4	471.7	474.0	467.1
32.5°	460.9	461.8	457.7	459.5	453.3
35°	445.7	446.7	442.3	444.1	437.9
37.5°	431.3	431.0	426.4	427.6	422.3
40°	414.5	414.3	409.4	410.3	405.3
42.5°	397.2	396.3	391.7	392.2	387.6
45°	377.9	377.5	372.6	373.3	368.7
47.5°	359.3	357.9	353.1	353.3	349.4
50°	339.1	337.0	332.9	332.4	329.0
52.5°	317.5	315.2	310.6	310.1	307.6
55°	294.9	292.4	288.0	287.4	285.3
57.5°	271.7	268.5	265.1	263.7	262.1
60°	247.1	244.1	240.2	238.9	238.2
62.5°	221.6	218.6	215.6	214.3	213.3
65°	195.6	193.3	189.9	188.5	187.8
67.5°	169.2	167.1	163.9	162.3	162.1
70°	142.8	140.7	137.0	136.1	135.9
72.5°	116.3	114.5	111.0	110.1	110.1
75°	90.6	89.0	86.0	85.1	85.1
77.5°	66.2	64.8	62.5	61.4	61.4
80°	44.1	43.2	41.1	40.2	40.0
82.5°	25.5	25.1	23.2	22.3	22.8
85°	11.7	11.3	10.3	9.2	9.4
87.5°	3.0	2.8	2.1	1.6	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)