Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P973328

Luminaire Tested: FLR2-14-80HE-L950-CA125

Issue Date: 3/13/2025

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P973328
	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:	FLR2-14-80HE-L950-CA125
Description:	1*4 FLR-2.0 8000 Lumen High Efficacy at 5000CCT & 90 CRI with Clear Aryalic (0.125" thickness)
Light Source:	
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5583.9 lumens
Efficiency:	N/A
Efficacy:	90.2 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):	61.9
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

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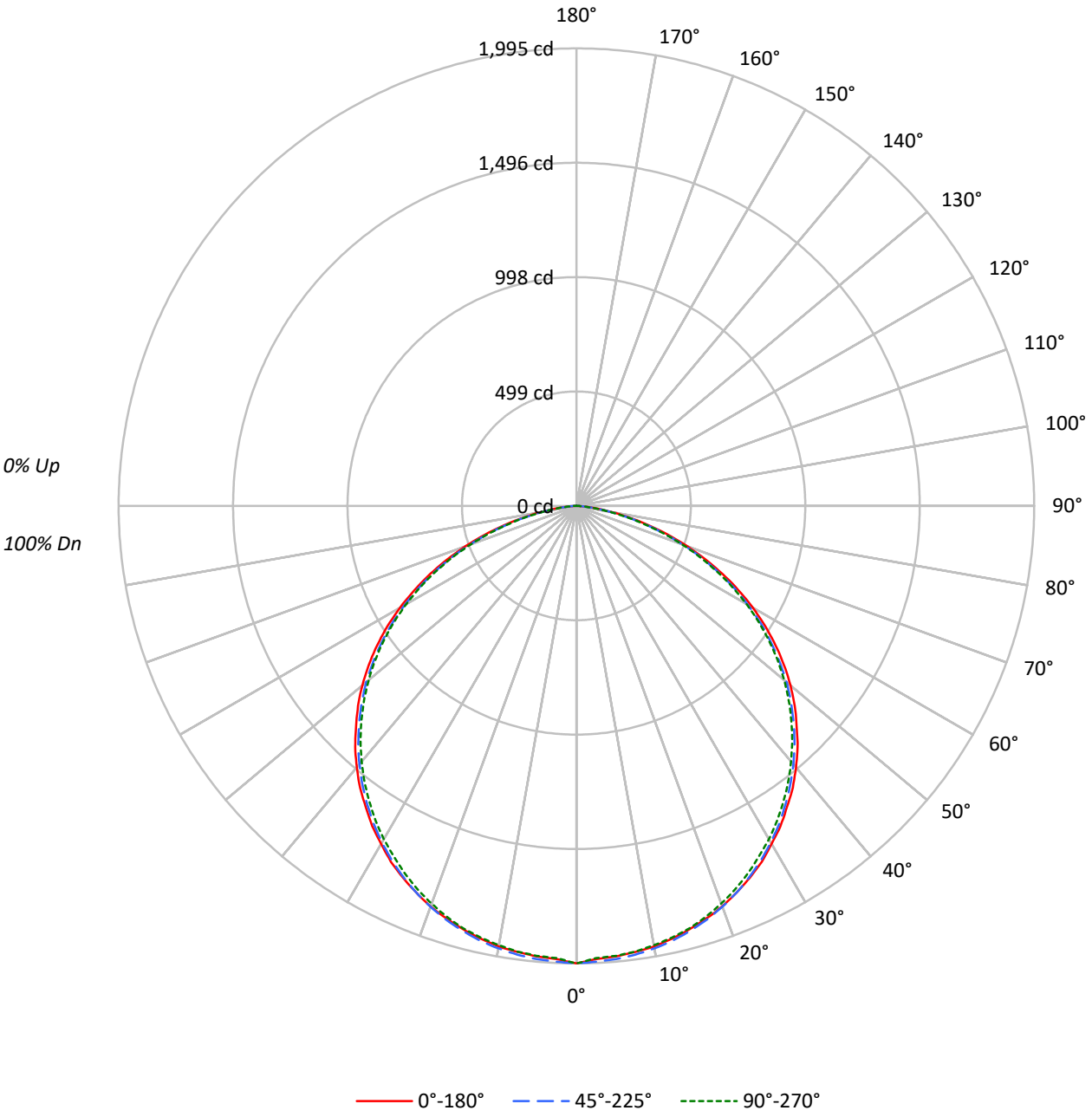
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	5369	5369	5369
5°	5327	5358	5320
10°	5332	5354	5316
15°	5323	5344	5312
20°	5323	5328	5285
25°	5311	5301	5252
30°	5288	5265	5214
35°	5260	5219	5168
40°	5230	5166	5114
45°	5167	5094	5041
50°	5099	5006	4947
55°	4971	4854	4808
60°	4778	4644	4604
65°	4474	4343	4296
70°	4035	3873	3840
75°	3383	3211	3176
80°	2456	2290	2227
85°	1300	1149	1047

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5167 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.0	3.4
10°-20°	542.7	9.7
20°-30°	824.5	14.8
30°-40°	997.3	17.9
40°-50°	1036.5	18.6
50°-60°	928.0	16.6
60°-70°	676.9	12.1
70°-80°	333.3	6.0
80°-90°	55.7	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°	1556.1	27.9
0°-40°	2553.4	45.7
0°-60°	4518.0	80.9
0°-90°	5583.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5583.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1995	1995	1995	1995	1995	
5°	1972	1993	1984	2002	1970	188
15°	1911	1928	1918	1935	1907	540
25°	1789	1798	1785	1794	1769	825
35°	1601	1604	1589	1595	1573	1003
45°	1358	1356	1339	1341	1324	1048
55°	1060	1050	1035	1032	1025	946
65°	703	694	682	677	675	694
75°	325	320	309	306	306	347
85°	42	40	37	33	34	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1995.1	1995.1	1995.1	*1995.1*	1995.1
2.5°	*1977.7*	*2000.0*	*1989.3*	*2009.1*	*1973.6*
5°	1971.9	1993.4	1983.5	*2002.5*	1969.5
7.5°	1962.0	1984.3	1973.6	*1991.8*	1960.4
10°	1951.3	1971.1	1959.5	*1977.7*	1945.5
12.5°	1932.3	1952.1	1941.4	*1957.9*	1928.2
15°	1910.8	1928.2	1918.3	*1934.8*	1906.7
17.5°	1886.1	1902.6	1891.8	*1906.7*	1878.6
20°	1858.8	1872.0	1860.5	*1872.8*	1845.6
22.5°	1824.9	1837.3	1824.9	*1833.2*	1809.3
25°	1788.6	1797.7	1785.3	*1793.6*	1768.8
27.5°	1749.8	1754.8	1742.4	*1749.0*	1723.4
30°	1701.9	1707.7	1694.5	*1702.7*	1678.0
32.5°	1655.7	1659.0	1644.1	*1650.7*	1628.4
35°	1601.2	1604.5	1588.8	*1595.4*	1573.1
37.5°	1549.1	1548.3	1531.8	*1535.9*	1516.9
40°	1488.9	1488.0	1470.7	*1474.0*	1455.8
42.5°	1426.9	1423.6	1407.1	*1408.8*	1392.2
45°	1357.6	1355.9	1338.6	*1341.0*	1324.5
47.5°	1290.7	1285.7	1268.4	*1269.2*	1255.2
50°	1218.0	1210.6	1195.7	*1194.1*	1181.7
52.5°	1140.4	1132.1	1115.6	*1114.0*	1104.9
55°	1059.5	1050.4	1034.7	*1032.2*	1024.8
57.5°	976.1	964.5	952.1	*947.2*	941.4
60°	887.7	877.0	862.9	*858.0*	855.5
62.5°	796.0	785.3	774.6	*769.6*	766.3
65°	702.7	694.5	682.1	*677.1*	674.7
67.5°	607.8	600.3	588.8	*583.0*	582.2
70°	512.8	505.4	492.2	*488.9*	488.0
72.5°	417.8	411.2	398.8	*395.5*	395.5
75°	325.4	319.6	308.8	*305.5*	305.5
77.5°	237.8	232.9	224.6	*220.5*	220.5
80°	158.5	155.2	147.8	*144.5*	143.7
82.5°	91.7	90.0	83.4	*80.1*	81.8
85°	42.1	40.5	37.2	*33.0*	33.9
87.5°	10.7	9.9	7.4	*5.8*	7.4
90°	0.0	0.0	0.0	*0.0*	0.0

(END OF REPORT)