

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: P973298

Luminaire Tested: FLR2-14-80HE-L950-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973298
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-CP080
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 5000CCT & 90 CRI with Clear Polycarbonate (0.080" thickness)

Light Source:
Ballast/Driver: -

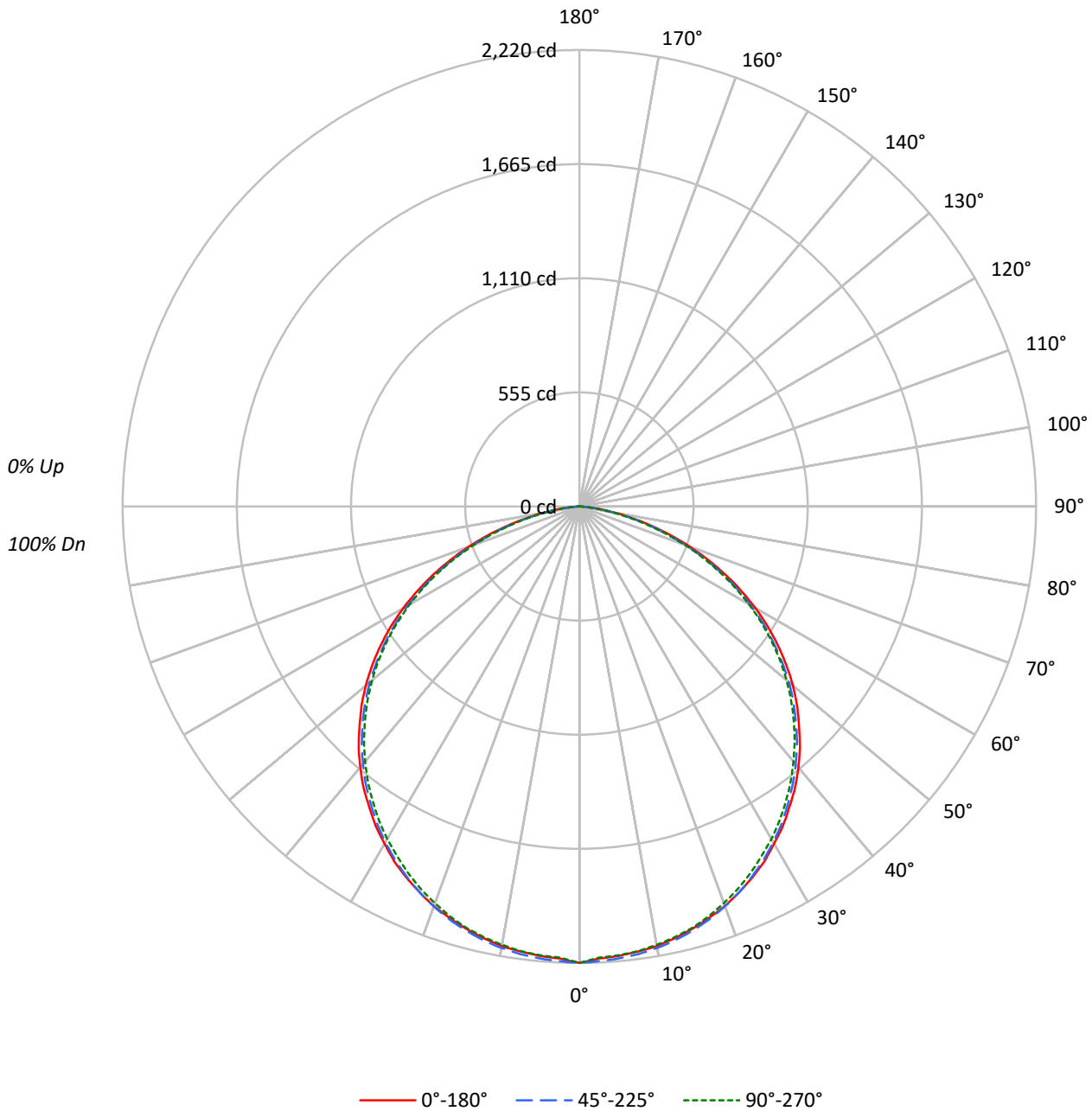
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6213.1 lumens
Efficiency: N/A
Efficacy: 100.4 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

TEST NUMBER: P973298
CATALOG NUMBER: FLR2-14-80HE-L950-CP080

Luminous Intensity Polar Plot





TEST NUMBER: P973298
 CATALOG NUMBER: FLR2-14-80HE-L950-CP080

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°	5974	5974	5974
5°	5927	5962	5920
10°	5933	5958	5915
15°	5923	5946	5911
20°	5923	5928	5881
25°	5909	5898	5844
30°	5884	5858	5802
35°	5853	5807	5750
40°	5819	5748	5690
45°	5748	5668	5609
50°	5674	5570	5504
55°	5531	5401	5350
60°	5316	5168	5123
65°	4979	4832	4780
70°	4489	4308	4272
75°	3764	3572	3535
80°	2734	2549	2478
85°	1448	1275	1164

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5748 cd/sqm



TEST NUMBER: P973298
 CATALOG NUMBER: FLR2-14-80HE-L950-CP080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.3	3.4
10°-20°	603.8	9.7
20°-30°	917.4	14.8
30°-40°	1109.7	17.9
40°-50°	1153.3	18.6
50°-60°	1032.6	16.6
60°-70°	753.1	12.1
70°-80°	370.9	6.0
80°-90°	62.0	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°	1731.5	27.9
0°-40°	2841.2	45.7
0°-60°	5027.1	80.9
0°-90°	6213.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6213.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2220	2220	2220	2220	2220	
5°	2194	2218	2207	2228	2191	209
15°	2126	2146	2134	2153	2122	600
25°	1990	2000	1986	1996	1968	917
35°	1782	1785	1768	1775	1750	1116
45°	1510	1509	1489	1492	1474	1166
55°	1179	1169	1151	1148	1140	1052
65°	782	773	759	753	751	772
75°	362	356	344	340	340	386
85°	47	45	41	37	38	68
90°	0	0	0	0	0	



TEST NUMBER: P973298
 CATALOG NUMBER: FLR2-14-80HE-L950-CP080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2219.9	2219.9	2219.9	2219.9	2219.9
2.5°	2200.6	2225.4	2213.4	2235.5	2196.0
5°	2194.2	2218.0	2207.0	2228.1	2191.4
7.5°	2183.1	2207.9	2196.0	2216.2	2181.3
10°	2171.2	2193.2	2180.4	2200.6	2164.7
12.5°	2150.0	2172.1	2160.2	2178.5	2145.5
15°	2126.2	2145.5	2134.4	2152.8	2121.6
17.5°	2098.6	2117.0	2105.0	2121.6	2090.3
20°	2068.3	2083.0	2070.1	2083.9	2053.6
22.5°	2030.6	2044.4	2030.6	2039.8	2013.1
25°	1990.2	2000.3	1986.5	1995.7	1968.1
27.5°	1947.0	1952.5	1938.7	1946.1	1917.6
30°	1893.7	1900.1	1885.4	1894.6	1867.1
32.5°	1842.2	1845.9	1829.4	1836.7	1811.9
35°	1781.6	1785.3	1767.8	1775.2	1750.4
37.5°	1723.7	1722.8	1704.4	1709.0	1687.9
40°	1656.6	1655.7	1636.4	1640.1	1619.9
42.5°	1587.7	1584.1	1565.7	1567.5	1549.1
45°	1510.5	1508.7	1489.4	1492.2	1473.8
47.5°	1436.1	1430.6	1411.3	1412.2	1396.6
50°	1355.3	1347.0	1330.5	1328.6	1314.8
52.5°	1268.9	1259.7	1241.3	1239.5	1229.4
55°	1178.9	1168.7	1151.3	1148.5	1140.3
57.5°	1086.0	1073.2	1059.4	1053.9	1047.5
60°	987.7	975.8	960.2	954.7	951.9
62.5°	885.7	873.8	861.9	856.3	852.7
65°	781.9	772.7	758.9	753.4	750.7
67.5°	676.3	668.0	655.1	648.7	647.8
70°	570.6	562.3	547.6	543.9	543.0
72.5°	464.9	457.6	443.8	440.1	440.1
75°	362.0	355.6	343.6	340.0	340.0
77.5°	264.6	259.1	249.9	245.3	245.3
80°	176.4	172.7	164.5	160.8	159.9
82.5°	102.0	100.2	92.8	89.1	91.0
85°	46.9	45.0	41.3	36.8	37.7
87.5°	11.9	11.0	8.3	6.4	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)