

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: P973308

Luminaire Tested: FLR2-14-80HE-L950-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973308
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-CP187
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 5000CCT & 90 CRI with Clear Polycarbonate (0.187" thickness)

Light Source:
Ballast/Driver: -

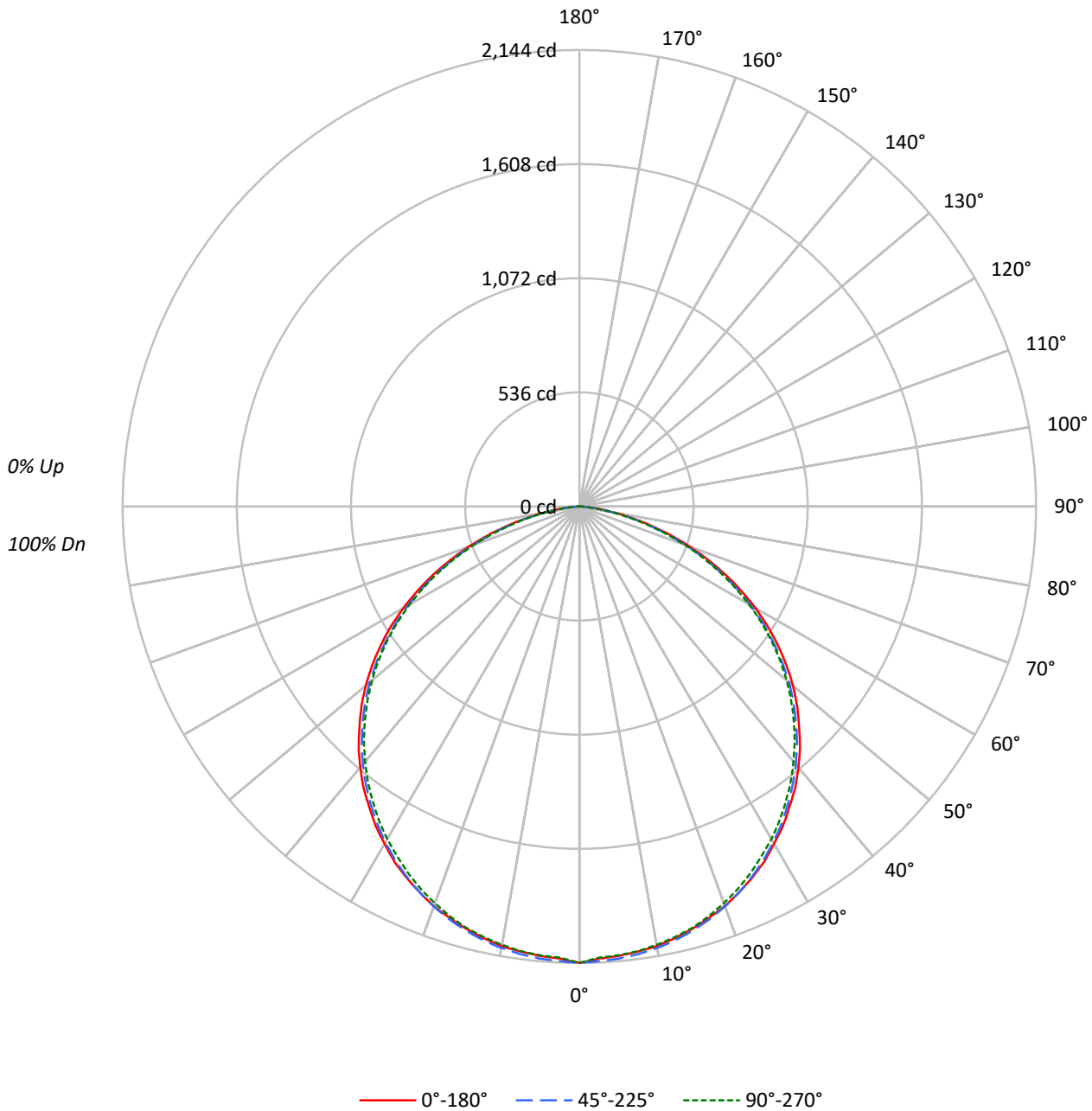
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6000.6 lumens
Efficiency: N/A
Efficacy: 96.9 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										
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°	5769	5769	5769
5°	5724	5758	5717
10°	5730	5754	5713
15°	5721	5743	5708
20°	5720	5725	5680
25°	5707	5697	5644
30°	5683	5658	5603
35°	5653	5609	5553
40°	5621	5552	5496
45°	5552	5474	5417
50°	5480	5380	5316
55°	5341	5217	5167
60°	5134	4991	4948
65°	4809	4667	4616
70°	4336	4161	4127
75°	3635	3451	3413
80°	2641	2461	2393
85°	1399	1232	1124

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5552 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.1	3.4
10°-20°	583.2	9.7
20°-30°	886.0	14.8
30°-40°	1071.8	17.9
40°-50°	1113.9	18.6
50°-60°	997.3	16.6
60°-70°	727.4	12.1
70°-80°	358.2	6.0
80°-90°	59.9	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°	1672.2	27.9
0°-40°	2744.0	45.7
0°-60°	4855.1	80.9
0°-90°	6000.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6000.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2144	2144	2144	2144	2144	
5°	2119	2142	2132	2152	2116	202
15°	2053	2072	2061	2079	2049	580
25°	1922	1932	1919	1927	1901	886
35°	1721	1724	1707	1714	1690	1078
45°	1459	1457	1438	1441	1423	1126
55°	1138	1129	1112	1109	1101	1016
65°	755	746	733	728	725	746
75°	350	343	332	328	328	373
85°	45	44	40	36	36	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2144.0	2144.0	2144.0	2144.0	2144.0
2.5°	2125.3	2149.3	2137.7	2159.0	2120.9
5°	2119.1	2142.2	2131.5	2151.9	2116.4
7.5°	2108.5	2132.4	2120.9	2140.4	2106.7
10°	2096.9	2118.2	2105.8	2125.3	2090.7
12.5°	2076.5	2097.8	2086.3	2104.0	2072.1
15°	2053.4	2072.1	2061.4	2079.2	2049.0
17.5°	2026.8	2044.6	2033.0	2049.0	2018.8
20°	1997.5	2011.7	1999.3	2012.6	1983.3
22.5°	1961.1	1974.5	1961.1	1970.0	1944.3
25°	1922.1	1931.9	1918.6	1927.4	1900.8
27.5°	1880.4	1885.7	1872.4	1879.5	1852.0
30°	1828.9	1835.1	1820.9	1829.8	1803.2
32.5°	1779.2	1782.8	1766.8	1773.9	1749.9
35°	1720.7	1724.2	1707.4	1714.5	1690.5
37.5°	1664.8	1663.9	1646.1	1650.6	1630.2
40°	1600.0	1599.1	1580.5	1584.0	1564.5
42.5°	1533.4	1529.9	1512.1	1513.9	1496.2
45°	1458.9	1457.1	1438.5	1441.1	1423.4
47.5°	1387.0	1381.7	1363.0	1363.9	1348.8
50°	1308.9	1300.9	1285.0	1283.2	1269.9
52.5°	1225.5	1216.6	1198.9	1197.1	1187.3
55°	1138.5	1128.8	1111.9	1109.2	1101.3
57.5°	1048.9	1036.5	1023.2	1017.8	1011.6
60°	954.0	942.4	927.3	922.0	919.3
62.5°	855.5	843.9	832.4	827.1	823.5
65°	755.2	746.3	733.0	727.7	725.0
67.5°	653.1	645.1	632.7	626.5	625.6
70°	551.1	543.1	528.9	525.3	524.5
72.5°	449.0	441.9	428.6	425.1	425.1
75°	349.6	343.4	331.9	328.3	328.3
77.5°	255.6	250.2	241.4	236.9	236.9
80°	170.4	166.8	158.8	155.3	154.4
82.5°	98.5	96.7	89.6	86.1	87.9
85°	45.3	43.5	39.9	35.5	36.4
87.5°	11.5	10.6	8.0	6.2	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)