

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: P973103

Luminaire Tested: FLR2-14-80HE-L930-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973103
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-L930-CP250
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 3000CCT & 90 CRI with Clear Polycarbonate (0.250" thickness)

Light Source:
Ballast/Driver: -

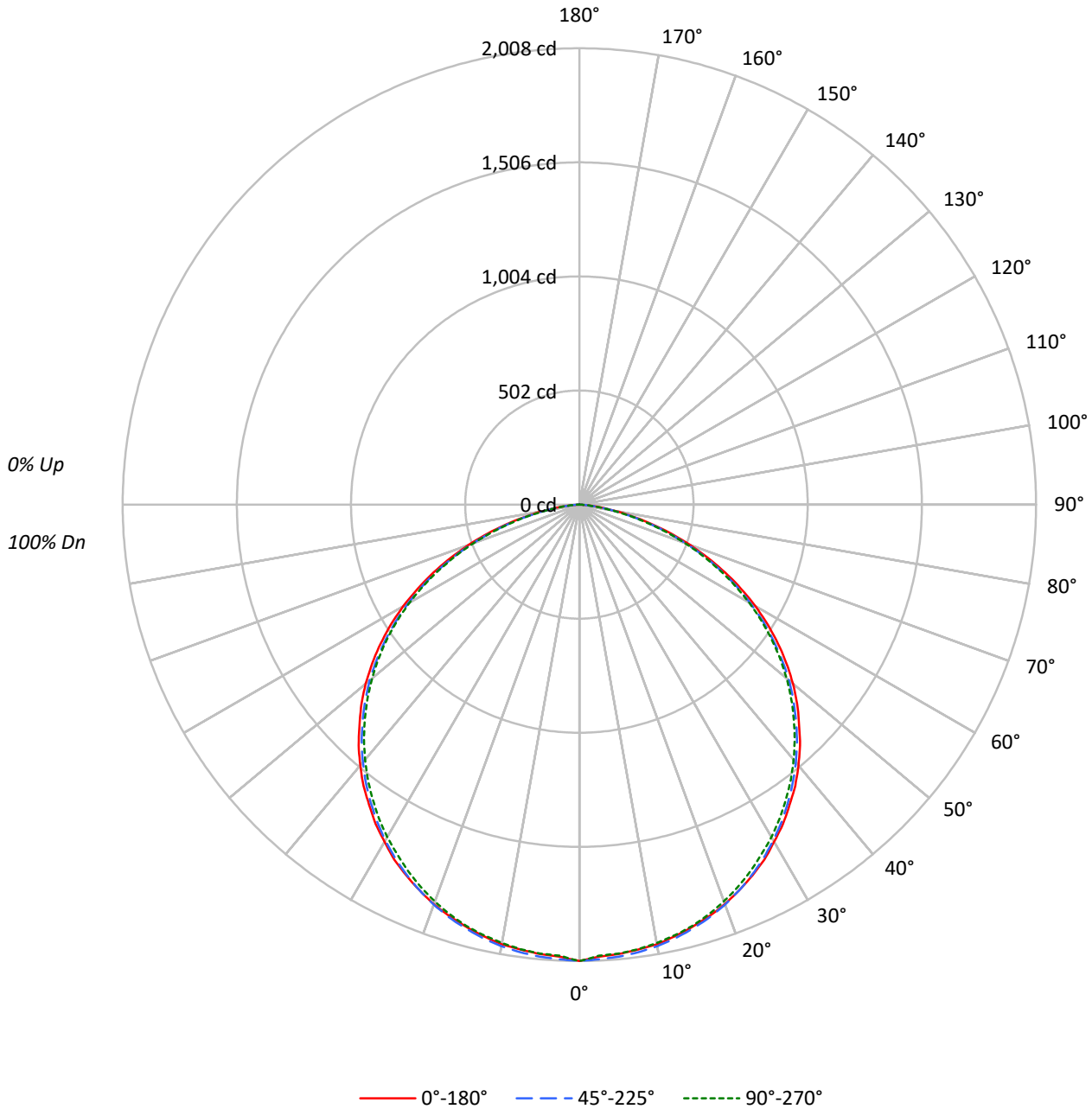
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5620.9 lumens
Efficiency: N/A
Efficacy: 90.8 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									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°	5404	5404	5404
5°	5362	5393	5355
10°	5367	5390	5351
15°	5359	5380	5347
20°	5358	5363	5320
25°	5346	5336	5287
30°	5323	5300	5248
35°	5295	5254	5202
40°	5265	5200	5148
45°	5201	5128	5074
50°	5133	5039	4980
55°	5004	4886	4840
60°	4809	4675	4635
65°	4504	4372	4324
70°	4061	3898	3865
75°	3405	3232	3198
80°	2473	2306	2241
85°	1309	1155	1053

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5201 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.2	3.4
10°-20°	546.3	9.7
20°-30°	829.9	14.8
30°-40°	1003.9	17.9
40°-50°	1043.4	18.6
50°-60°	934.2	16.6
60°-70°	681.4	12.1
70°-80°	335.5	6.0
80°-90°	56.1	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°	1566.4	27.9
0°-40°	2570.3	45.7
0°-60°	4547.9	80.9
0°-90°	5620.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5620.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2008	2008	2008	2008	2008	
5°	1985	2007	1997	2016	1982	189
15°	1924	1941	1931	1948	1919	543
25°	1800	1810	1797	1806	1780	830
35°	1612	1615	1599	1606	1584	1009
45°	1367	1365	1347	1350	1333	1055
55°	1066	1057	1042	1039	1032	952
65°	707	699	687	682	679	699
75°	328	322	311	308	308	349
85°	42	41	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°	2008.3	2008.3	2008.3	2008.3	2008.3
2.5°	1990.8	2013.3	2002.5	2022.4	1986.7
5°	1985.0	2006.6	1996.6	2015.8	1982.5
7.5°	1975.0	1997.5	1986.7	2004.9	1973.4
10°	1964.2	1984.2	1972.5	1990.8	1958.4
12.5°	1945.1	1965.0	1954.2	1970.9	1940.9
15°	1923.5	1940.9	1931.0	1947.6	1919.3
17.5°	1898.5	1915.2	1904.4	1919.3	1891.1
20°	1871.1	1884.4	1872.8	1885.2	1857.8
22.5°	1837.0	1849.5	1837.0	1845.4	1821.2
25°	1800.5	1809.6	1797.1	1805.5	1780.5
27.5°	1761.4	1766.4	1753.9	1760.6	1734.8
30°	1713.2	1719.0	1705.7	1714.0	1689.1
32.5°	1666.6	1670.0	1655.0	1661.6	1639.2
35°	1611.8	1615.1	1599.3	1606.0	1583.5
37.5°	1559.4	1558.6	1541.9	1546.1	1527.0
40°	1498.7	1497.9	1480.4	1483.8	1465.5
42.5°	1436.4	1433.1	1416.4	1418.1	1401.5
45°	1366.6	1364.9	1347.4	1349.9	1333.3
47.5°	1299.2	1294.2	1276.8	1277.6	1263.5
50°	1226.1	1218.6	1203.6	1202.0	1189.5
52.5°	1147.9	1139.6	1123.0	1121.3	1112.2
55°	1066.5	1057.3	1041.5	1039.0	1031.6
57.5°	982.5	970.9	958.4	953.4	947.6
60°	893.6	882.8	868.6	863.7	861.2
62.5°	801.3	790.5	779.7	774.7	771.4
65°	707.4	699.1	686.6	681.6	679.1
67.5°	611.8	604.3	592.7	586.9	586.0
70°	516.2	508.7	495.4	492.1	491.3
72.5°	420.6	414.0	401.5	398.2	398.2
75°	327.5	321.7	310.9	307.6	307.6
77.5°	239.4	234.4	226.1	221.9	221.9
80°	159.6	156.3	148.8	145.5	144.6
82.5°	92.3	90.6	84.0	80.6	82.3
85°	42.4	40.7	37.4	33.2	34.1
87.5°	10.8	10.0	7.5	5.8	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)