

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: P973118

Luminaire Tested: FLR2-14-80HE-L930-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973118
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-CA125
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 3000CCT & 90 CRI with Clear Arylic (0.125" thickness)

Light Source:
Ballast/Driver: -

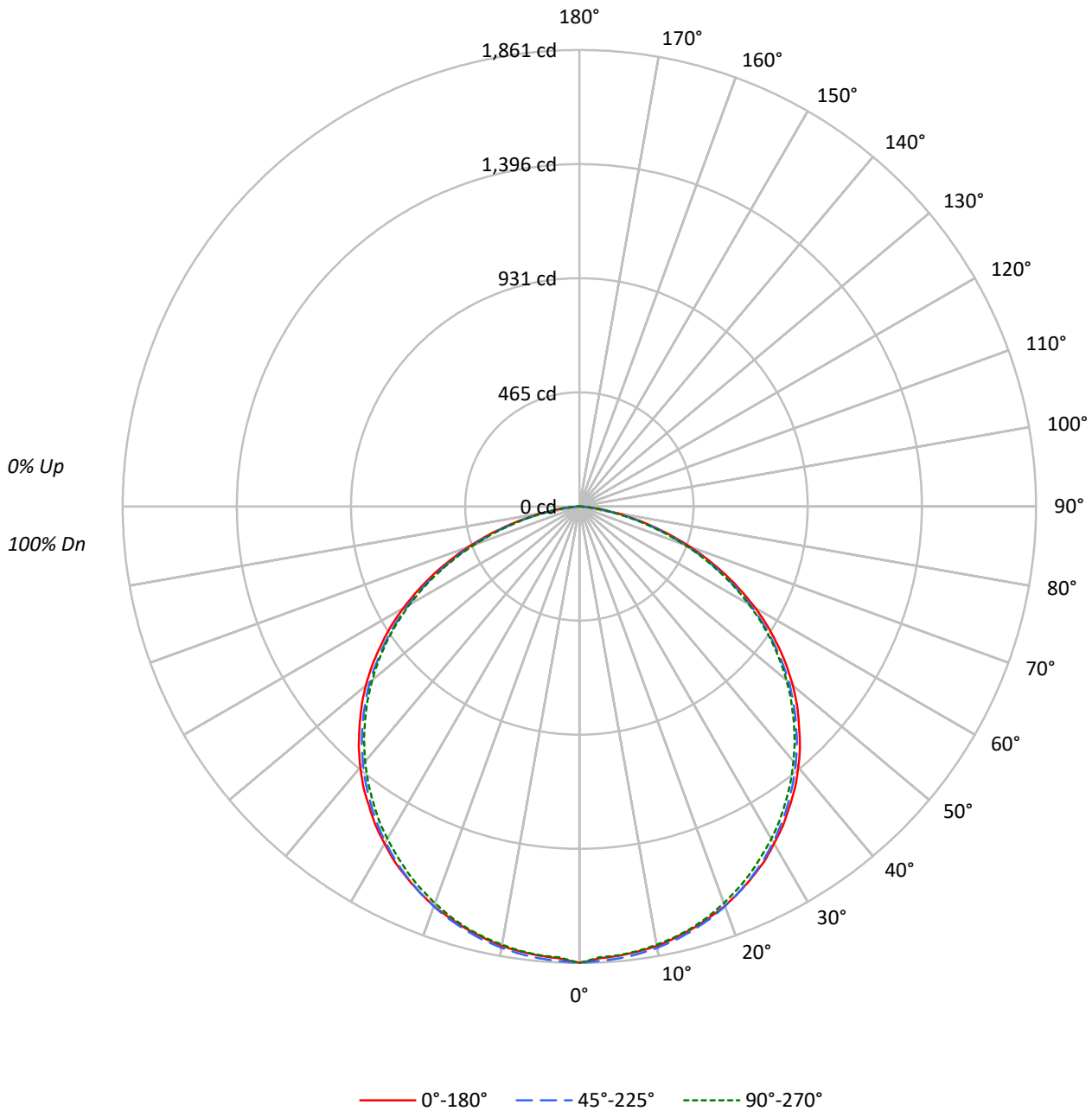
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5207.4 lumens
Efficiency: N/A
Efficacy: 84.1 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	
RC	80				70				50				30				10	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	5007	5007	5007
5°	4968	4997	4961
10°	4972	4993	4958
15°	4964	4984	4954
20°	4964	4968	4929
25°	4953	4944	4898
30°	4932	4910	4862
35°	4905	4868	4819
40°	4878	4818	4769
45°	4818	4751	4701
50°	4755	4668	4613
55°	4635	4527	4484
60°	4456	4331	4294
65°	4173	4050	4006
70°	3762	3611	3581
75°	3154	2994	2962
80°	2292	2135	2077
85°	1213	1071	976

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4818 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	3.4
10°-20°	506.1	9.7
20°-30°	768.9	14.8
30°-40°	930.1	17.9
40°-50°	966.6	18.6
50°-60°	865.5	16.6
60°-70°	631.3	12.1
70°-80°	310.8	6.0
80°-90°	52.0	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°	1451.2	27.9
0°-40°	2381.3	45.7
0°-60°	4213.4	80.9
0°-90°	5207.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5207.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1861	1861	1861	1861	1861	
5°	1839	1859	1850	1868	1837	175
15°	1782	1798	1789	1804	1778	503
25°	1668	1676	1665	1673	1650	769
35°	1493	1496	1482	1488	1467	935
45°	1266	1264	1248	1251	1235	978
55°	988	980	965	963	956	882
65°	655	648	636	632	629	647
75°	303	298	288	285	285	323
85°	39	38	35	31	32	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1860.6	1860.6	1860.6	1860.6	1860.6
2.5°	1844.4	1865.2	1855.2	1873.6	1840.5
5°	1839.0	1859.0	1849.8	1867.5	1836.7
7.5°	1829.8	1850.5	1840.5	1857.5	1828.2
10°	1819.7	1838.2	1827.4	1844.4	1814.4
12.5°	1802.0	1820.5	1810.5	1825.9	1798.2
15°	1782.0	1798.2	1788.9	1804.3	1778.2
17.5°	1758.9	1774.3	1764.3	1778.2	1752.0
20°	1733.5	1745.8	1735.0	1746.6	1721.2
22.5°	1701.9	1713.5	1701.9	1709.6	1687.3
25°	1668.0	1676.5	1665.0	1672.7	1649.6
27.5°	1631.8	1636.5	1624.9	1631.1	1607.2
30°	1587.2	1592.6	1580.2	1587.9	1564.8
32.5°	1544.0	1547.1	1533.3	1539.4	1518.6
35°	1493.2	1496.3	1481.7	1487.8	1467.0
37.5°	1444.7	1443.9	1428.5	1432.4	1414.7
40°	1388.5	1387.7	1371.5	1374.6	1357.7
42.5°	1330.7	1327.6	1312.2	1313.8	1298.4
45°	1266.0	1264.5	1248.3	1250.6	1235.2
47.5°	1203.7	1199.0	1182.9	1183.6	1170.5
50°	1135.9	1129.0	1115.1	1113.6	1102.0
52.5°	1063.5	1055.8	1040.4	1038.9	1030.4
55°	988.0	979.6	964.9	962.6	955.7
57.5°	910.3	899.5	887.9	883.3	877.9
60°	827.9	817.8	804.8	800.1	797.8
62.5°	742.4	732.4	722.4	717.7	714.7
65°	655.4	647.7	636.1	631.5	629.2
67.5°	566.8	559.9	549.1	543.7	542.9
70°	478.2	471.3	459.0	455.9	455.1
72.5°	389.7	383.5	372.0	368.9	368.9
75°	303.4	298.0	288.0	284.9	284.9
77.5°	221.8	217.2	209.5	205.6	205.6
80°	147.9	144.8	137.8	134.8	134.0
82.5°	85.5	83.9	77.8	74.7	76.2
85°	39.3	37.7	34.7	30.8	31.6
87.5°	10.0	9.2	6.9	5.4	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)