

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: P974014

Luminaire Tested: FLR2-22-60HE-L850-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-60HE-L850-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

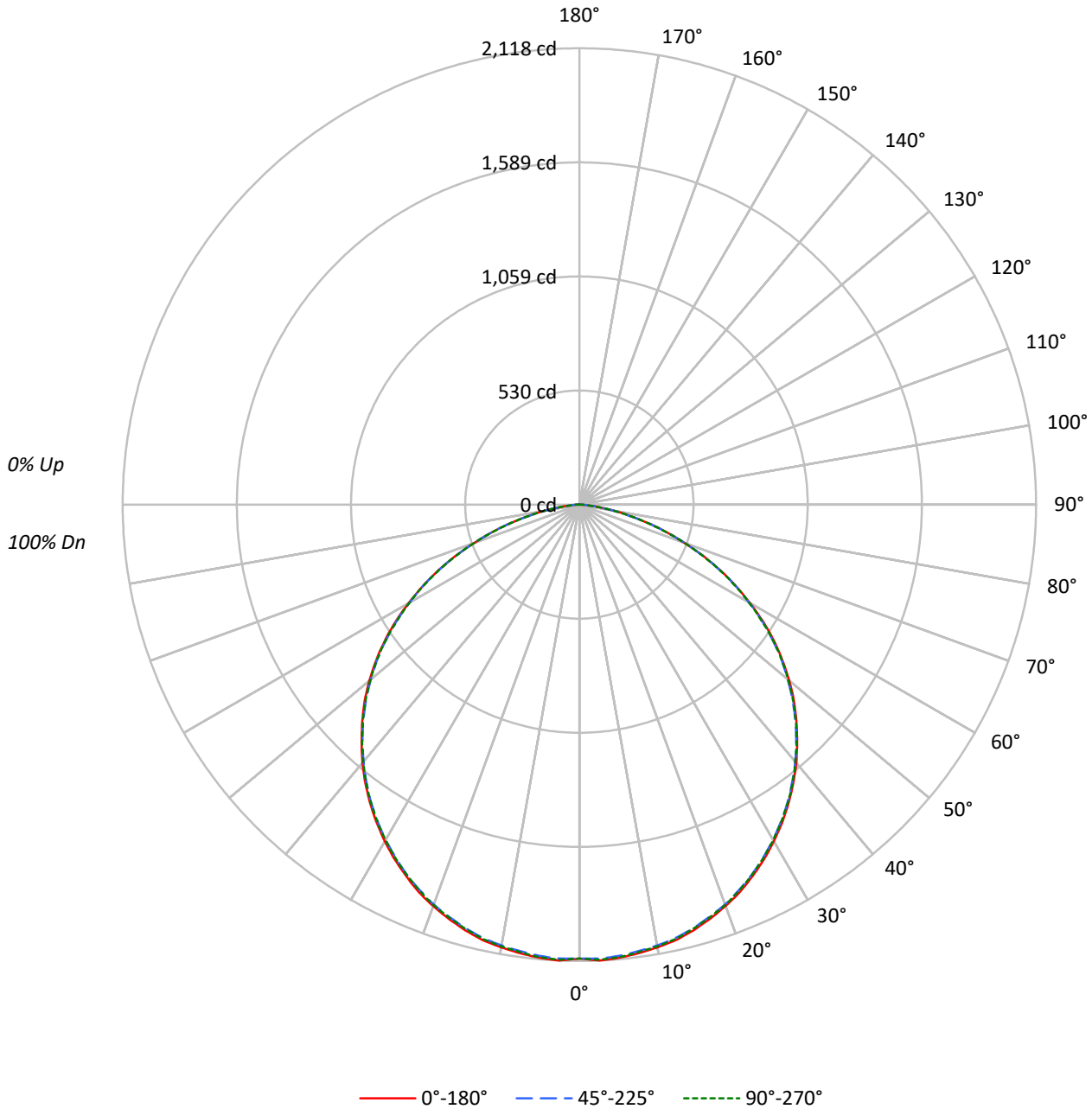
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5890.9 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47.4
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	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	63	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	71	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	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	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	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5669	5669	5669
5°	5704	5680	5697
10°	5703	5678	5689
15°	5698	5673	5680
20°	5678	5656	5663
25°	5648	5625	5629
30°	5607	5583	5587
35°	5556	5535	5539
40°	5498	5471	5475
45°	5417	5392	5402
50°	5322	5284	5295
55°	5170	5127	5146
60°	4916	4895	4895
65°	4590	4581	4565
70°	4064	4084	4074
75°	3423	3396	3369
80°	2459	2419	2399
85°	1284	1284	1244

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5417 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.5	3.4
10°-20°	573.6	9.7
20°-30°	871.7	14.8
30°-40°	1053.6	17.9
40°-50°	1093.6	18.6
50°-60°	977.7	16.6
60°-70°	710.9	12.1
70°-80°	349.6	5.9
80°-90°	60.6	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°	1644.8	27.9
0°-40°	2698.4	45.8
0°-60°	4769.8	81.0
0°-90°	5890.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5890.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2106	2106	2106	2106	2106	
5°	2112	2087	2103	2095	2109	201
15°	2045	2022	2036	2031	2039	577
25°	1902	1881	1894	1890	1896	877
35°	1691	1680	1685	1686	1686	1058
45°	1423	1417	1417	1420	1420	1098
55°	1102	1096	1093	1096	1097	982
65°	721	723	720	720	717	711
75°	329	332	327	328	324	349
85°	42	43	42	42	40	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2106.5	2106.5	2106.5	2106.5	2106.5
2.5°	2118.2	2093.5	2109.1	2100.0	2114.3
5°	2111.7	2087.0	2102.6	2094.8	2109.1
7.5°	2100.0	2075.3	2090.9	2083.1	2094.8
10°	2087.0	2061.0	2077.9	2070.1	2081.8
12.5°	2070.1	2045.4	2061.0	2054.5	2064.9
15°	2045.4	2021.9	2036.2	2031.0	2038.8
17.5°	2015.4	1992.0	2006.3	2002.4	2008.9
20°	1982.9	1960.8	1975.1	1971.2	1977.7
22.5°	1946.5	1923.0	1936.1	1933.5	1938.7
25°	1902.2	1881.4	1894.4	1890.5	1895.7
27.5°	1855.4	1835.9	1846.3	1846.3	1848.9
30°	1804.6	1786.4	1796.8	1796.8	1798.1
32.5°	1750.0	1735.7	1742.2	1743.5	1743.5
35°	1691.4	1679.7	1684.9	1686.2	1686.2
37.5°	1630.3	1618.6	1622.5	1625.1	1625.1
40°	1565.2	1554.8	1557.4	1560.0	1558.7
42.5°	1495.0	1487.2	1488.5	1491.1	1491.1
45°	1423.4	1416.9	1416.9	1419.5	1419.5
47.5°	1350.6	1344.1	1341.4	1344.1	1344.1
50°	1271.2	1264.7	1262.1	1264.7	1264.7
52.5°	1187.9	1181.4	1181.4	1181.4	1182.7
55°	1102.0	1095.5	1092.9	1095.5	1096.8
57.5°	1011.0	1008.4	1004.5	1005.8	1001.9
60°	913.4	913.4	909.5	912.1	909.5
62.5°	818.4	821.0	817.1	817.1	814.5
65°	720.8	723.4	719.5	719.5	716.9
67.5°	620.6	624.5	619.3	619.3	616.7
70°	516.5	524.3	519.1	520.4	517.8
72.5°	422.9	426.8	421.6	421.6	419.0
75°	329.2	331.8	326.6	327.9	324.0
77.5°	236.8	240.7	235.5	236.8	235.5
80°	158.7	160.0	156.1	157.4	154.8
82.5°	92.4	93.7	92.4	91.1	89.8
85°	41.6	42.9	41.6	41.6	40.3
87.5°	10.4	10.4	10.4	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)