

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: P973549

Luminaire Tested: FLR2-22-20-L930-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973549
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: FLR2-22-20-L930-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

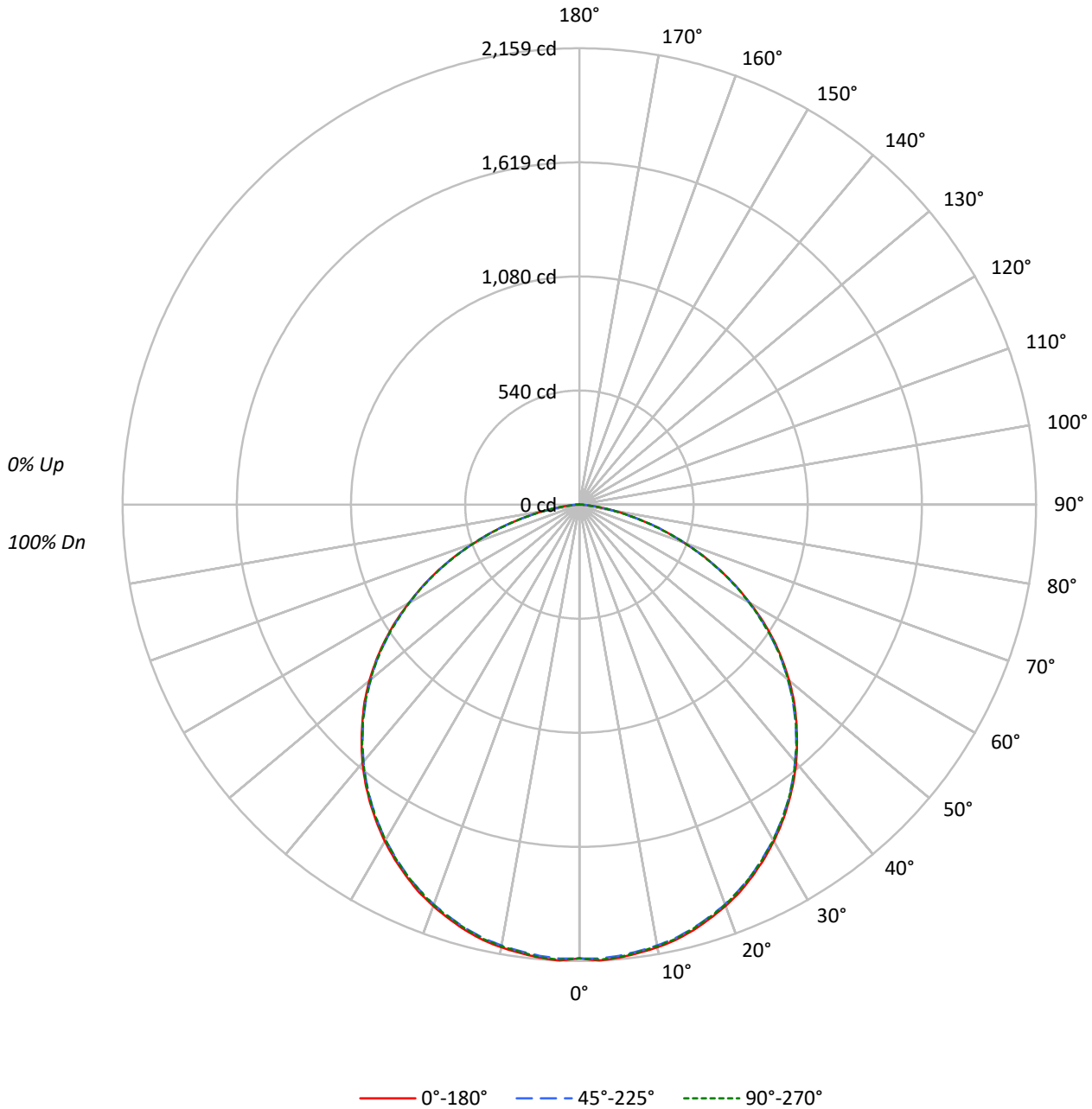
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6003.4 lumens
Efficiency: N/A
Efficacy: 397.6 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): 15.1
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	63	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	71	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	50	42	37	48	41	36	47	41	36	34					34															
8	61	47	39	33	59	47	39	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	40	32	27	39	32	27	38	31	27	37	31	26	25					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5777	5777	5777
5°	5813	5788	5806
10°	5812	5786	5797
15°	5807	5781	5789
20°	5787	5764	5772
25°	5756	5732	5736
30°	5715	5690	5694
35°	5663	5641	5645
40°	5603	5576	5580
45°	5520	5495	5505
50°	5424	5385	5395
55°	5269	5225	5244
60°	5010	4989	4989
65°	4677	4669	4652
70°	4142	4163	4152
75°	3488	3460	3433
80°	2507	2466	2445
85°	1309	1309	1269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5520 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.3	3.4
10°-20°	584.6	9.7
20°-30°	888.4	14.8
30°-40°	1073.8	17.9
40°-50°	1114.5	18.6
50°-60°	996.4	16.6
60°-70°	724.5	12.1
70°-80°	356.2	5.9
80°-90°	61.8	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°	1676.2	27.9
0°-40°	2750.0	45.8
0°-60°	4860.9	81.0
0°-90°	6003.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6003.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2147	2147	2147	2147	2147	
5°	2152	2127	2143	2135	2149	205
15°	2084	2061	2075	2070	2078	588
25°	1939	1917	1931	1927	1932	894
35°	1724	1712	1717	1718	1718	1078
45°	1451	1444	1444	1447	1447	1119
55°	1123	1116	1114	1116	1118	1001
65°	735	737	733	733	731	724
75°	336	338	333	334	330	356
85°	42	44	42	42	41	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2146.7	2146.7	2146.7	2146.7	2146.7
2.5°	2158.7	2133.5	2149.4	2140.1	2154.7
5°	2152.0	2126.9	2142.8	2134.8	2149.4
7.5°	2140.1	2114.9	2130.8	2122.9	2134.8
10°	2126.9	2100.3	2117.6	2109.6	2121.5
12.5°	2109.6	2084.4	2100.3	2093.7	2104.3
15°	2084.4	2060.6	2075.1	2069.8	2077.8
17.5°	2053.9	2030.1	2044.6	2040.7	2047.3
20°	2020.8	1998.2	2012.8	2008.8	2015.5
22.5°	1983.6	1959.8	1973.0	1970.4	1975.7
25°	1938.6	1917.3	1930.6	1926.6	1931.9
27.5°	1890.8	1870.9	1881.5	1881.5	1884.2
30°	1839.1	1820.6	1831.2	1831.2	1832.5
32.5°	1783.4	1768.8	1775.5	1776.8	1776.8
35°	1723.8	1711.8	1717.1	1718.5	1718.5
37.5°	1661.4	1649.5	1653.5	1656.1	1656.1
40°	1595.1	1584.5	1587.2	1589.8	1588.5
42.5°	1523.5	1515.6	1516.9	1519.6	1519.6
45°	1450.6	1444.0	1444.0	1446.6	1446.6
47.5°	1376.4	1369.7	1367.1	1369.7	1369.7
50°	1295.5	1288.8	1286.2	1288.8	1288.8
52.5°	1210.6	1204.0	1204.0	1204.0	1205.3
55°	1123.1	1116.5	1113.8	1116.5	1117.8
57.5°	1030.3	1027.6	1023.6	1025.0	1021.0
60°	930.8	930.8	926.9	929.5	926.9
62.5°	834.0	836.7	832.7	832.7	830.1
65°	734.6	737.2	733.3	733.3	730.6
67.5°	632.5	636.5	631.2	631.2	628.5
70°	526.4	534.4	529.1	530.4	527.7
72.5°	430.9	434.9	429.6	429.6	427.0
75°	335.5	338.1	332.8	334.1	330.2
77.5°	241.3	245.3	240.0	241.3	240.0
80°	161.8	163.1	159.1	160.4	157.8
82.5°	94.1	95.5	94.1	92.8	91.5
85°	42.4	43.8	42.4	42.4	41.1
87.5°	10.6	10.6	10.6	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)