

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: P973717

Luminaire Tested: FLR2-22-20-L950-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973717
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-L950-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

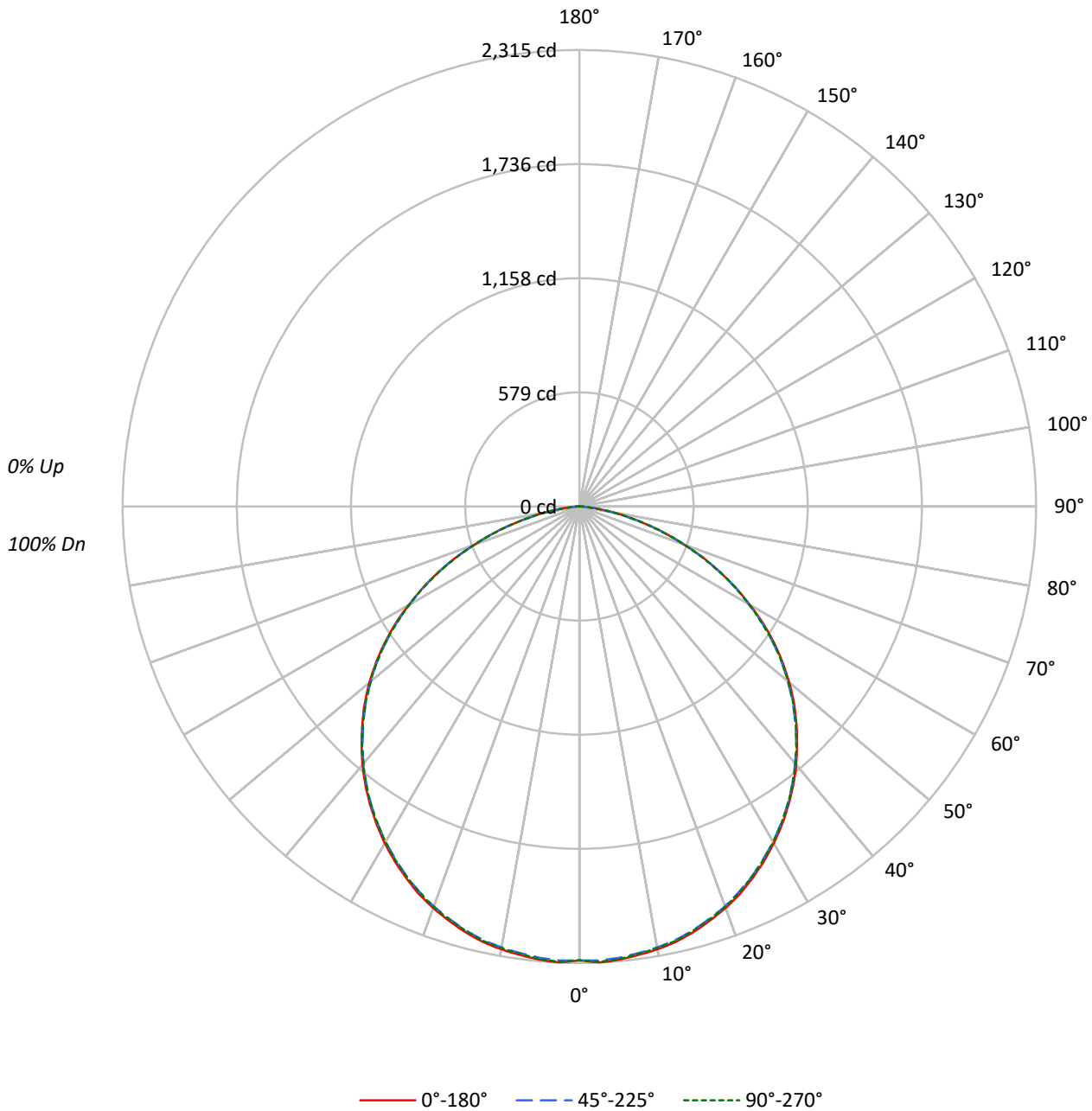
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6437.4 lumens
Efficiency: N/A
Efficacy: 426.3 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): 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

TEST NUMBER: P973717
CATALOG NUMBER: FLR2-22-20-L950-CA125

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°	6194	6194	6194
5°	6233	6207	6226
10°	6232	6204	6216
15°	6227	6199	6207
20°	6205	6181	6189
25°	6172	6147	6151
30°	6128	6101	6106
35°	6072	6049	6053
40°	6009	5978	5983
45°	5920	5893	5903
50°	5815	5774	5786
55°	5650	5603	5623
60°	5372	5349	5349
65°	5016	5007	4988
70°	4441	4463	4452
75°	3740	3711	3681
80°	2689	2644	2622
85°	1405	1405	1362

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5920 cd/sqm



TEST NUMBER: P973717
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.0	3.4
10°-20°	626.9	9.7
20°-30°	952.6	14.8
30°-40°	1151.4	17.9
40°-50°	1195.1	18.6
50°-60°	1068.4	16.6
60°-70°	776.8	12.1
70°-80°	382.0	5.9
80°-90°	66.3	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°	1797.4	27.9
0°-40°	2948.8	45.8
0°-60°	5212.3	81.0
0°-90°	6437.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6437.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2302	2302	2302	2302	2302	
5°	2308	2281	2298	2289	2305	219
15°	2235	2210	2225	2220	2228	631
25°	2079	2056	2070	2066	2072	958
35°	1848	1836	1841	1843	1843	1156
45°	1556	1548	1548	1551	1551	1200
55°	1204	1197	1194	1197	1199	1073
65°	788	790	786	786	783	777
75°	360	363	357	358	354	382
85°	46	47	46	46	44	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2301.9	2301.9	2301.9	2301.9	2301.9
2.5°	2314.7	2287.7	2304.8	2294.8	2310.5
5°	2307.6	2280.6	2297.7	2289.1	2304.8
7.5°	2294.8	2267.8	2284.9	2276.3	2289.1
10°	2280.6	2252.2	2270.6	2262.1	2274.9
12.5°	2262.1	2235.1	2252.2	2245.1	2256.4
15°	2235.1	2209.5	2225.1	2219.5	2228.0
17.5°	2202.4	2176.8	2192.4	2188.2	2195.3
20°	2166.9	2142.7	2158.3	2154.1	2161.2
22.5°	2127.0	2101.5	2115.7	2112.8	2118.5
25°	2078.7	2056.0	2070.2	2065.9	2071.6
27.5°	2027.5	2006.2	2017.6	2017.6	2020.4
30°	1972.1	1952.2	1963.5	1963.5	1965.0
32.5°	1912.3	1896.7	1903.8	1905.2	1905.2
35°	1848.4	1835.6	1841.3	1842.7	1842.7
37.5°	1781.5	1768.7	1773.0	1775.9	1775.9
40°	1710.5	1699.1	1701.9	1704.8	1703.3
42.5°	1633.7	1625.1	1626.6	1629.4	1629.4
45°	1555.5	1548.4	1548.4	1551.2	1551.2
47.5°	1475.8	1468.7	1465.9	1468.7	1468.7
50°	1389.1	1382.0	1379.2	1382.0	1382.0
52.5°	1298.1	1291.0	1291.0	1291.0	1292.4
55°	1204.3	1197.2	1194.3	1197.2	1198.6
57.5°	1104.8	1101.9	1097.6	1099.1	1094.8
60°	998.1	998.1	993.9	996.7	993.9
62.5°	894.3	897.2	892.9	892.9	890.1
65°	787.7	790.5	786.3	786.3	783.4
67.5°	678.2	682.5	676.8	676.8	673.9
70°	564.5	573.0	567.3	568.7	565.9
72.5°	462.1	466.4	460.7	460.7	457.8
75°	359.7	362.6	356.9	358.3	354.0
77.5°	258.8	263.0	257.3	258.8	257.3
80°	173.5	174.9	170.6	172.0	169.2
82.5°	100.9	102.4	100.9	99.5	98.1
85°	45.5	46.9	45.5	45.5	44.1
87.5°	11.4	11.4	11.4	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)