

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: P973650

Luminaire Tested: FLR2-22-25-L940-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973650
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: FLR2-22-25-L940-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

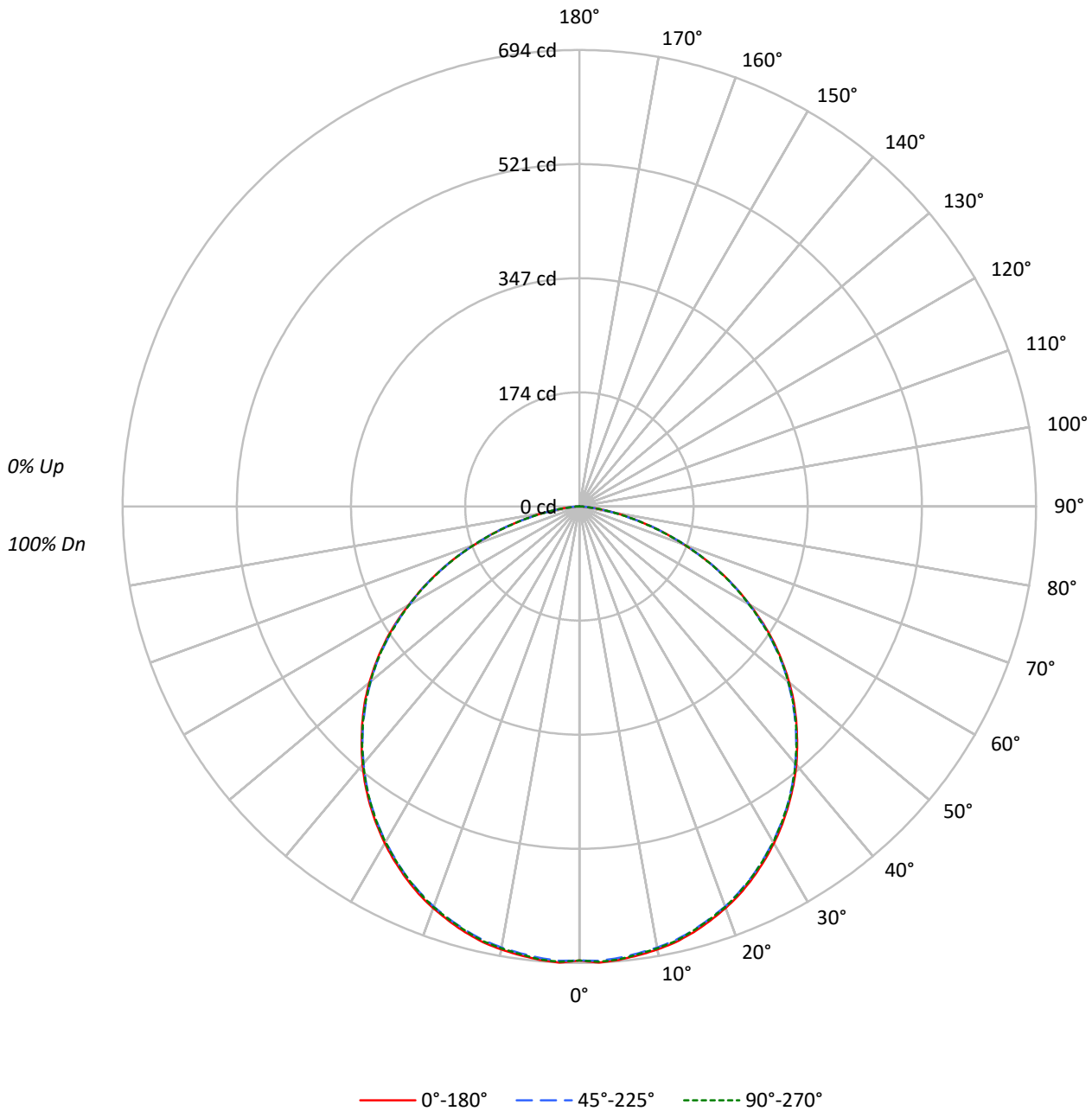
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1930.5 lumens
Efficiency: N/A
Efficacy: 102.1 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): 18.9
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									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°	1858	1858	1858
5°	1869	1861	1867
10°	1869	1861	1864
15°	1867	1859	1861
20°	1861	1854	1856
25°	1851	1843	1844
30°	1838	1830	1831
35°	1821	1814	1815
40°	1802	1793	1794
45°	1775	1767	1770
50°	1744	1732	1735
55°	1694	1681	1686
60°	1611	1604	1604
65°	1504	1501	1496
70°	1332	1338	1335
75°	1122	1112	1104
80°	806	793	786
85°	420	420	408

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1775 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.4	3.4
10°-20°	188.0	9.7
20°-30°	285.7	14.8
30°-40°	345.3	17.9
40°-50°	358.4	18.6
50°-60°	320.4	16.6
60°-70°	233.0	12.1
70°-80°	114.6	5.9
80°-90°	19.9	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°	539.0	27.9
0°-40°	884.3	45.8
0°-60°	1563.1	81.0
0°-90°	1930.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1930.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	690	690	690	690	690	
5°	692	684	689	686	691	66
15°	670	663	667	666	668	189
25°	623	617	621	620	621	287
35°	554	550	552	553	553	347
45°	466	464	464	465	465	360
55°	361	359	358	359	359	322
65°	236	237	236	236	235	233
75°	108	109	107	107	106	115
85°	14	14	14	14	13	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	690.3	690.3	690.3	690.3	690.3
2.5°	694.2	686.1	691.2	688.2	692.9
5°	692.0	683.9	689.0	686.5	691.2
7.5°	688.2	680.1	685.2	682.6	686.5
10°	683.9	675.4	680.9	678.4	682.2
12.5°	678.4	670.3	675.4	673.3	676.7
15°	670.3	662.6	667.3	665.6	668.1
17.5°	660.5	652.8	657.5	656.2	658.3
20°	649.8	642.6	647.3	646.0	648.1
22.5°	637.9	630.2	634.5	633.6	635.3
25°	623.4	616.6	620.8	619.5	621.2
27.5°	608.0	601.6	605.0	605.0	605.9
30°	591.4	585.4	588.8	588.8	589.3
32.5°	573.5	568.8	570.9	571.4	571.4
35°	554.3	550.5	552.2	552.6	552.6
37.5°	534.3	530.4	531.7	532.6	532.6
40°	512.9	509.5	510.4	511.2	510.8
42.5°	489.9	487.4	487.8	488.6	488.6
45°	466.5	464.3	464.3	465.2	465.2
47.5°	442.6	440.5	439.6	440.5	440.5
50°	416.6	414.4	413.6	414.4	414.4
52.5°	389.3	387.2	387.2	387.2	387.6
55°	361.1	359.0	358.2	359.0	359.4
57.5°	331.3	330.4	329.2	329.6	328.3
60°	299.3	299.3	298.0	298.9	298.0
62.5°	268.2	269.0	267.8	267.8	266.9
65°	236.2	237.1	235.8	235.8	234.9
67.5°	203.4	204.7	203.0	203.0	202.1
70°	169.3	171.8	170.1	170.6	169.7
72.5°	138.6	139.9	138.1	138.1	137.3
75°	107.9	108.7	107.0	107.4	106.2
77.5°	77.6	78.9	77.2	77.6	77.2
80°	52.0	52.4	51.2	51.6	50.7
82.5°	30.3	30.7	30.3	29.8	29.4
85°	13.6	14.1	13.6	13.6	13.2
87.5°	3.4	3.4	3.4	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)