

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: P973646

Luminaire Tested: FLR2-22-25-L940-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973646
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

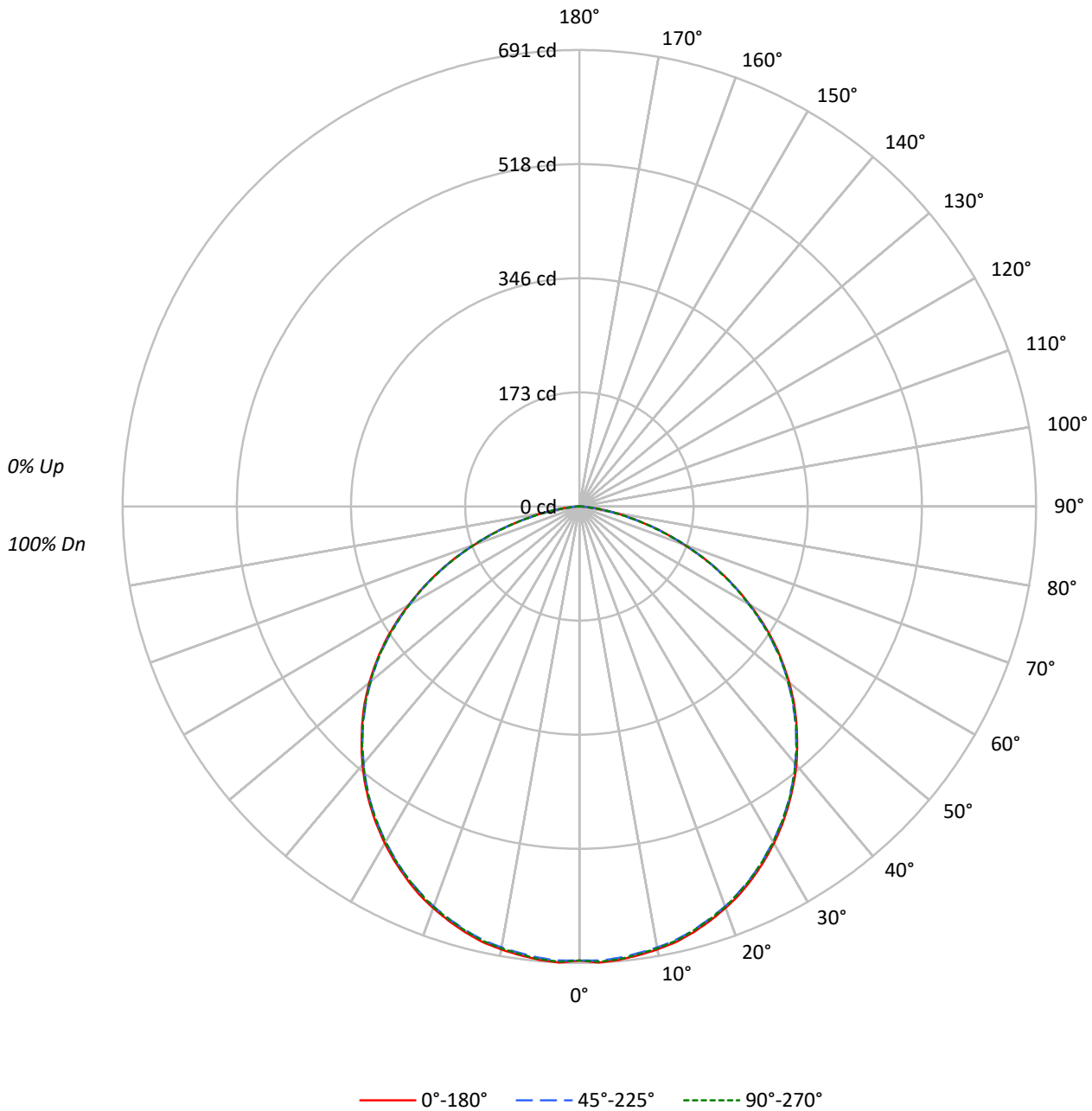
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1922.0 lumens
Efficiency: N/A
Efficacy: 101.7 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

TEST NUMBER: P973646
CATALOG NUMBER: FLR2-22-25-L940-CP187

Luminous Intensity Polar Plot





TEST NUMBER: P973646
 CATALOG NUMBER: FLR2-22-25-L940-CP187

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°	1850	1850	1850
5°	1861	1853	1859
10°	1861	1852	1856
15°	1859	1851	1853
20°	1853	1845	1848
25°	1843	1835	1836
30°	1830	1821	1823
35°	1813	1806	1807
40°	1794	1785	1787
45°	1767	1759	1762
50°	1736	1724	1727
55°	1687	1673	1679
60°	1604	1597	1597
65°	1498	1495	1489
70°	1326	1333	1330
75°	1117	1108	1099
80°	803	789	783
85°	420	420	408

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1767 cd/sqm



TEST NUMBER: P973646
 CATALOG NUMBER: FLR2-22-25-L940-CP187

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	3.4
10°-20°	187.2	9.7
20°-30°	284.4	14.8
30°-40°	343.8	17.9
40°-50°	356.8	18.6
50°-60°	319.0	16.6
60°-70°	231.9	12.1
70°-80°	114.0	5.9
80°-90°	19.8	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°	536.6	27.9
0°-40°	880.4	45.8
0°-60°	1556.2	81.0
0°-90°	1922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1922.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	687	687	687	687	687	
5°	689	681	686	684	688	65
15°	667	660	664	663	665	188
25°	621	614	618	617	618	286
35°	552	548	550	550	550	345
45°	464	462	462	463	463	358
55°	360	357	357	357	358	320
65°	235	236	235	235	234	232
75°	107	108	107	107	106	114
85°	14	14	14	14	13	20
90°	0	0	0	0	0	



TEST NUMBER: P973646
 CATALOG NUMBER: FLR2-22-25-L940-CP187

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	687.3	687.3	687.3	687.3	687.3
2.5°	691.1	683.0	688.1	685.2	689.8
5°	689.0	680.9	686.0	683.5	688.1
7.5°	685.2	677.1	682.2	679.6	683.5
10°	680.9	672.4	677.9	675.4	679.2
12.5°	675.4	667.3	672.4	670.3	673.7
15°	667.3	659.7	664.4	662.7	665.2
17.5°	657.6	649.9	654.6	653.3	655.4
20°	646.9	639.7	644.4	643.1	645.2
22.5°	635.1	627.4	631.7	630.8	632.5
25°	620.6	613.8	618.1	616.8	618.5
27.5°	605.3	599.0	602.4	602.4	603.2
30°	588.8	582.8	586.2	586.2	586.7
32.5°	571.0	566.3	568.4	568.8	568.8
35°	551.9	548.0	549.7	550.2	550.2
37.5°	531.9	528.1	529.4	530.2	530.2
40°	510.7	507.3	508.1	509.0	508.6
42.5°	487.8	485.2	485.6	486.5	486.5
45°	464.4	462.3	462.3	463.1	463.1
47.5°	440.6	438.5	437.7	438.5	438.5
50°	414.7	412.6	411.8	412.6	412.6
52.5°	387.6	385.5	385.5	385.5	385.9
55°	359.6	357.4	356.6	357.4	357.9
57.5°	329.8	329.0	327.7	328.1	326.9
60°	298.0	298.0	296.7	297.6	296.7
62.5°	267.0	267.9	266.6	266.6	265.7
65°	235.2	236.0	234.8	234.8	233.9
67.5°	202.5	203.8	202.1	202.1	201.2
70°	168.5	171.1	169.4	169.8	169.0
72.5°	138.0	139.2	137.5	137.5	136.7
75°	107.4	108.2	106.6	107.0	105.7
77.5°	77.3	78.5	76.8	77.3	76.8
80°	51.8	52.2	50.9	51.4	50.5
82.5°	30.1	30.6	30.1	29.7	29.3
85°	13.6	14.0	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)