

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: P973944

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

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973944
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: FLR2-22-25HE-L940-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

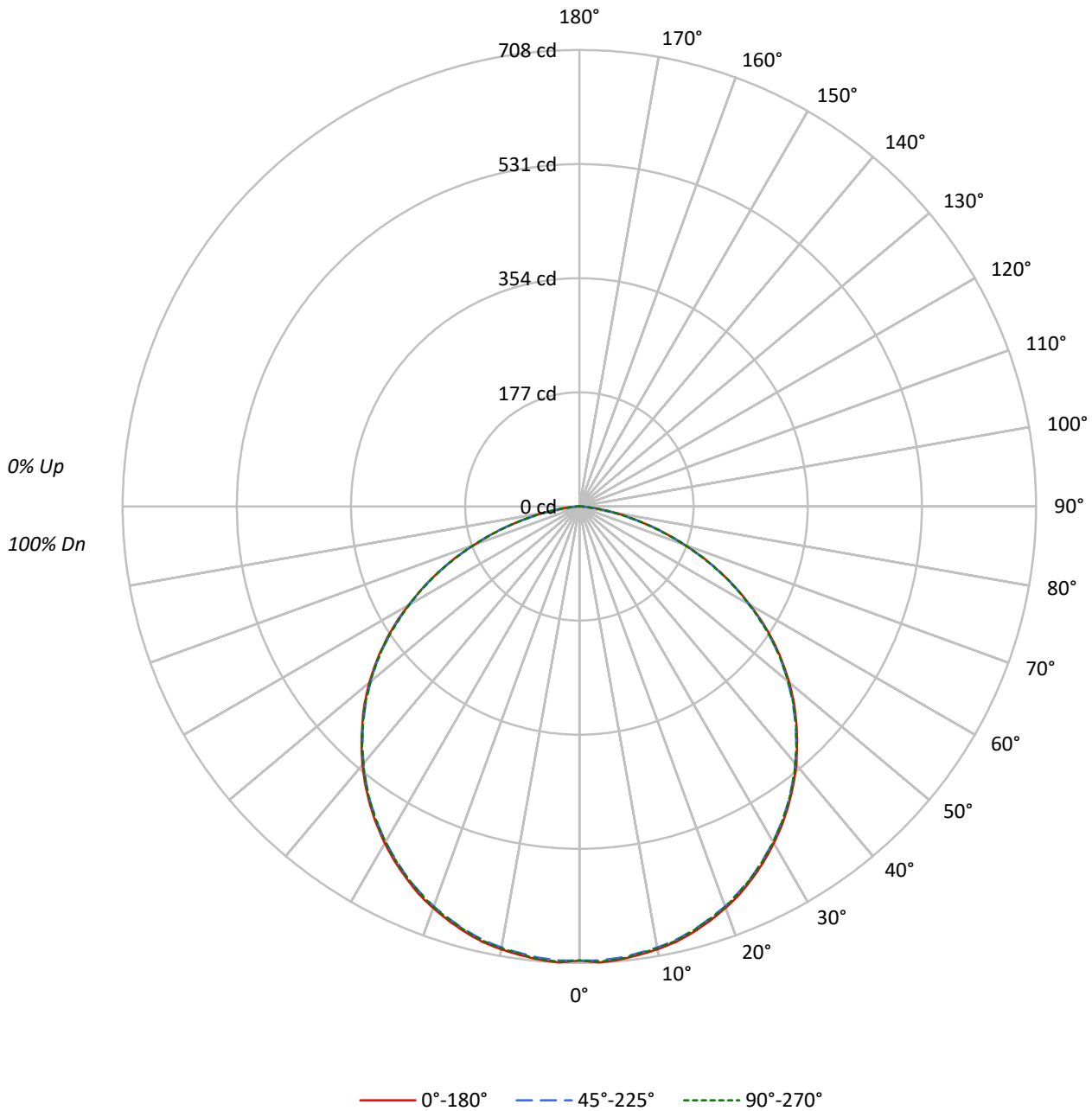
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1969.1 lumens
Efficiency: N/A
Efficacy: 102.6 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): 19.2
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: P973944
CATALOG NUMBER: FLR2-22-25HE-L940-CP187

Luminous Intensity Polar Plot





TEST NUMBER: P973944
 CATALOG NUMBER: FLR2-22-25HE-L940-CP187

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°	1895	1895	1895
5°	1907	1898	1904
10°	1906	1898	1902
15°	1905	1896	1899
20°	1898	1891	1893
25°	1888	1880	1882
30°	1874	1866	1867
35°	1857	1850	1851
40°	1838	1829	1830
45°	1811	1802	1806
50°	1779	1766	1770
55°	1728	1714	1720
60°	1643	1636	1636
65°	1534	1531	1526
70°	1359	1365	1362
75°	1144	1135	1126
80°	823	809	803
85°	429	429	417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1811 cd/sqm



TEST NUMBER: P973944
 CATALOG NUMBER: FLR2-22-25HE-L940-CP187

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	3.4
10°-20°	191.7	9.7
20°-30°	291.4	14.8
30°-40°	352.2	17.9
40°-50°	365.6	18.6
50°-60°	326.8	16.6
60°-70°	237.6	12.1
70°-80°	116.9	5.9
80°-90°	20.3	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°	549.8	27.9
0°-40°	902.0	45.8
0°-60°	1594.4	81.0
0°-90°	1969.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1969.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	704	704	704	704	704	
5°	706	698	703	700	705	67
15°	684	676	681	679	682	193
25°	636	629	633	632	634	293
35°	565	562	563	564	564	354
45°	476	474	474	474	474	367
55°	368	366	365	366	367	328
65°	241	242	240	240	240	238
75°	110	111	109	110	108	117
85°	14	14	14	14	14	20
90°	0	0	0	0	0	



TEST NUMBER: P973944
 CATALOG NUMBER: FLR2-22-25HE-L940-CP187

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	704.1	704.1	704.1	704.1	704.1
2.5°	708.0	699.8	705.0	701.9	706.7
5°	705.9	697.6	702.8	700.2	705.0
7.5°	701.9	693.7	698.9	696.3	700.2
10°	697.6	688.9	694.6	691.9	695.9
12.5°	691.9	683.7	688.9	686.7	690.2
15°	683.7	675.9	680.6	678.9	681.5
17.5°	673.7	665.9	670.6	669.3	671.5
20°	662.8	655.4	660.2	658.9	661.1
22.5°	650.6	642.8	647.1	646.3	648.0
25°	635.8	628.9	633.2	631.9	633.7
27.5°	620.2	613.7	617.1	617.1	618.0
30°	603.2	597.1	600.6	600.6	601.0
32.5°	585.0	580.2	582.3	582.8	582.8
35°	565.4	561.5	563.2	563.6	563.6
37.5°	544.9	541.0	542.3	543.2	543.2
40°	523.2	519.7	520.6	521.5	521.0
42.5°	499.7	497.1	497.5	498.4	498.4
45°	475.8	473.6	473.6	474.5	474.5
47.5°	451.4	449.3	448.4	449.3	449.3
50°	424.9	422.7	421.9	422.7	422.7
52.5°	397.1	394.9	394.9	394.9	395.3
55°	368.4	366.2	365.3	366.2	366.6
57.5°	337.9	337.1	335.8	336.2	334.9
60°	305.3	305.3	304.0	304.9	304.0
62.5°	273.6	274.4	273.1	273.1	272.3
65°	240.9	241.8	240.5	240.5	239.6
67.5°	207.5	208.8	207.0	207.0	206.1
70°	172.7	175.3	173.5	174.0	173.1
72.5°	141.3	142.7	140.9	140.9	140.0
75°	110.0	110.9	109.2	109.6	108.3
77.5°	79.2	80.5	78.7	79.2	78.7
80°	53.1	53.5	52.2	52.6	51.8
82.5°	30.9	31.3	30.9	30.4	30.0
85°	13.9	14.4	13.9	13.9	13.5
87.5°	3.5	3.5	3.5	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)