

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: P974026

Luminaire Tested: FLR2-22-60HE-L950-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974026
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: FLR2-22-60HE-L950-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

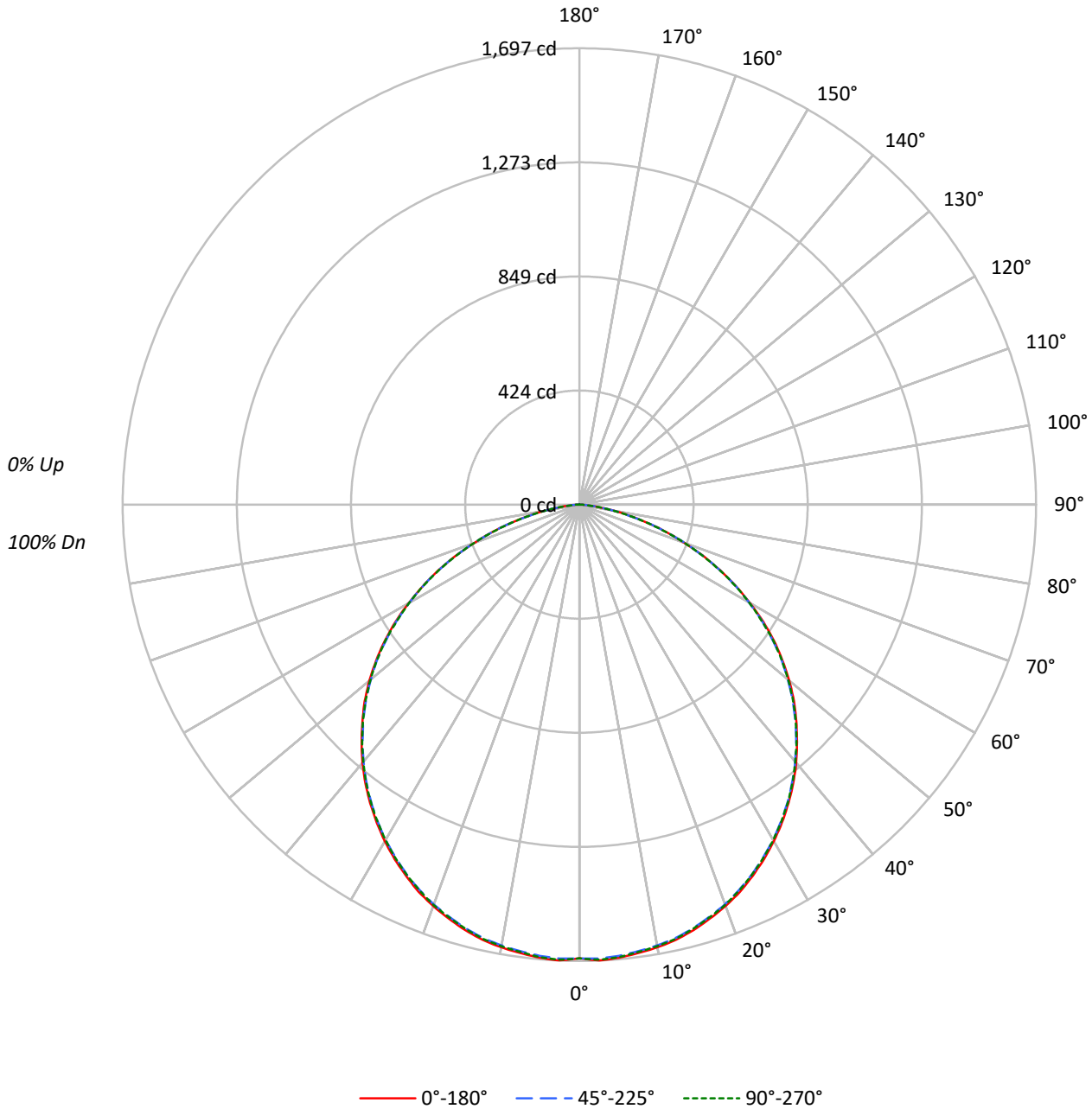
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4719.0 lumens
Efficiency: N/A
Efficacy: 99.6 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): 47.4
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: P974026
CATALOG NUMBER: FLR2-22-60HE-L950-CP125

Luminous Intensity Polar Plot





TEST NUMBER: P974026
 CATALOG NUMBER: FLR2-22-60HE-L950-CP125

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°	4541	4541	4541
5°	4569	4550	4564
10°	4568	4548	4557
15°	4565	4544	4550
20°	4549	4531	4537
25°	4524	4506	4509
30°	4492	4473	4476
35°	4451	4434	4437
40°	4405	4383	4386
45°	4339	4319	4327
50°	4263	4232	4241
55°	4142	4107	4122
60°	3938	3921	3921
65°	3677	3670	3657
70°	3256	3272	3264
75°	2742	2720	2698
80°	1971	1939	1922
85°	1031	1031	997

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4339 cd/sqm



TEST NUMBER: P974026
 CATALOG NUMBER: FLR2-22-60HE-L950-CP125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	3.4
10°-20°	459.5	9.7
20°-30°	698.3	14.8
30°-40°	844.0	17.9
40°-50°	876.1	18.6
50°-60°	783.2	16.6
60°-70°	569.5	12.1
70°-80°	280.0	5.9
80°-90°	48.6	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°	1317.6	27.9
0°-40°	2161.6	45.8
0°-60°	3820.9	81.0
0°-90°	4719.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4719.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1687	1687	1687	1687	1687	
5°	1692	1672	1684	1678	1690	161
15°	1638	1620	1631	1627	1633	462
25°	1524	1507	1518	1514	1519	702
35°	1355	1346	1350	1351	1351	848
45°	1140	1135	1135	1137	1137	880
55°	883	878	876	878	879	787
65°	577	580	576	576	574	569
75°	264	266	262	263	260	280
85°	33	34	33	33	32	49
90°	0	0	0	0	0	



TEST NUMBER: P974026
 CATALOG NUMBER: FLR2-22-60HE-L950-CP125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1687.4	1687.4	1687.4	1687.4	1687.4
2.5°	1696.8	1677.0	1689.5	1682.2	1693.7
5°	1691.6	1671.8	1684.3	1678.1	1689.5
7.5°	1682.2	1662.4	1674.9	1668.7	1678.1
10°	1671.8	1651.0	1664.5	1658.3	1667.6
12.5°	1658.3	1638.5	1651.0	1645.7	1654.1
15°	1638.5	1619.7	1631.2	1627.0	1633.2
17.5°	1614.5	1595.7	1607.2	1604.1	1609.3
20°	1588.4	1570.7	1582.2	1579.0	1584.3
22.5°	1559.2	1540.5	1550.9	1548.8	1553.0
25°	1523.8	1507.1	1517.5	1514.4	1518.6
27.5°	1486.3	1470.6	1479.0	1479.0	1481.1
30°	1445.6	1431.0	1439.4	1439.4	1440.4
32.5°	1401.9	1390.4	1395.6	1396.6	1396.6
35°	1355.0	1345.6	1349.7	1350.8	1350.8
37.5°	1306.0	1296.6	1299.7	1301.8	1301.8
40°	1253.9	1245.5	1247.6	1249.7	1248.6
42.5°	1197.6	1191.3	1192.4	1194.4	1194.4
45°	1140.2	1135.0	1135.0	1137.1	1137.1
47.5°	1081.9	1076.7	1074.6	1076.7	1076.7
50°	1018.3	1013.1	1011.0	1013.1	1013.1
52.5°	951.6	946.4	946.4	946.4	947.4
55°	882.8	877.6	875.5	877.6	878.6
57.5°	809.8	807.8	804.6	805.7	802.6
60°	731.7	731.7	728.5	730.6	728.5
62.5°	655.6	657.7	654.5	654.5	652.5
65°	577.4	579.5	576.4	576.4	574.3
67.5°	497.2	500.3	496.1	496.1	494.0
70°	413.8	420.0	415.9	416.9	414.8
72.5°	338.7	341.9	337.7	337.7	335.6
75°	263.7	265.8	261.6	262.7	259.5
77.5°	189.7	192.8	188.7	189.7	188.7
80°	127.2	128.2	125.1	126.1	124.0
82.5°	74.0	75.0	74.0	73.0	71.9
85°	33.4	34.4	33.4	33.4	32.3
87.5°	8.3	8.3	8.3	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)