

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: P973532

Luminaire Tested: FLR2-22-45-L930-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973532
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: FLR2-22-45-L930-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

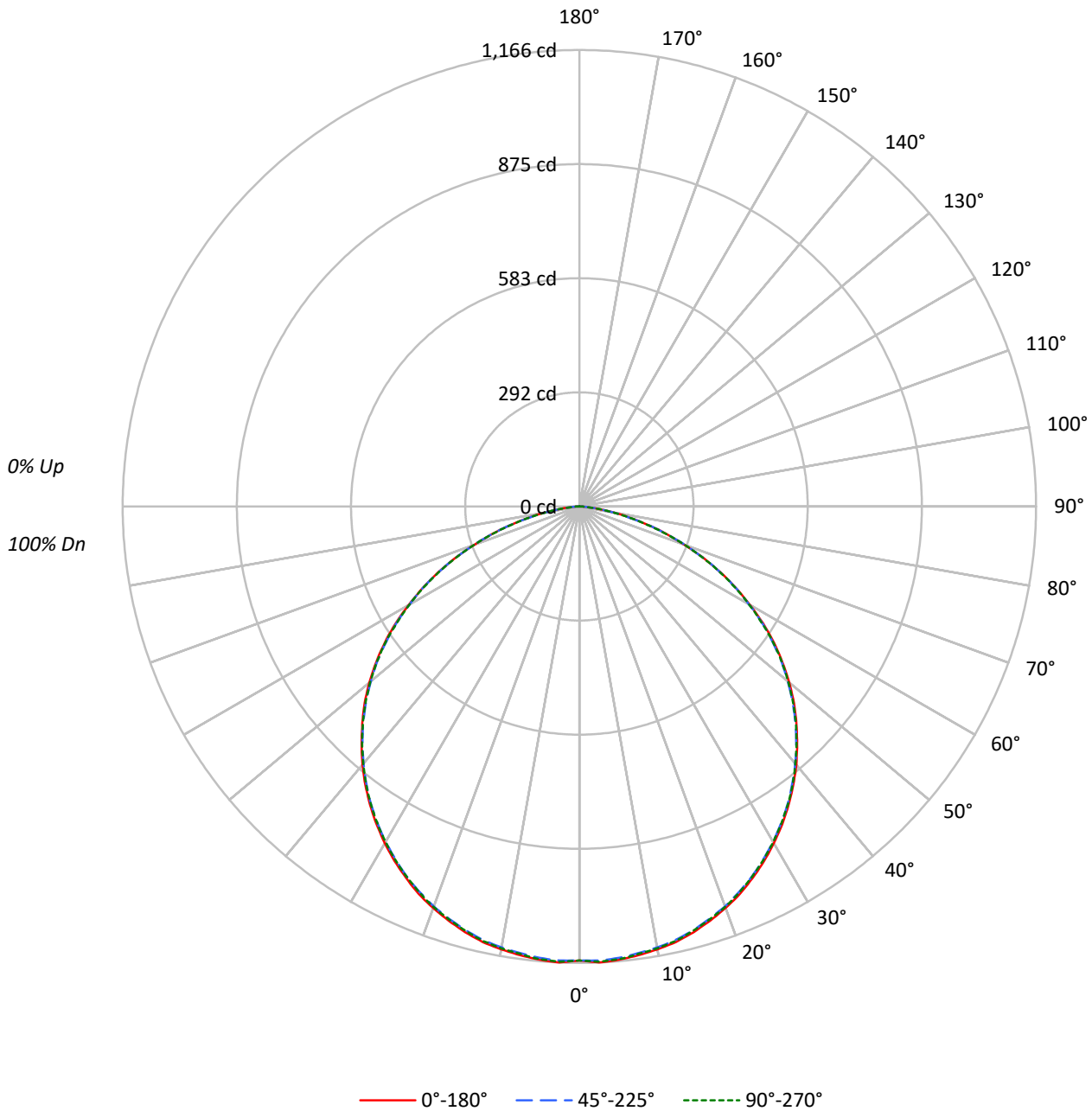
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3243.1 lumens
Efficiency: N/A
Efficacy: 89.8 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): 36.1
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: P973532
CATALOG NUMBER: FLR2-22-45-L930-CP125

Luminous Intensity Polar Plot





TEST NUMBER: P973532
 CATALOG NUMBER: FLR2-22-45-L930-CP125

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°	3121	3121	3121
5°	3140	3127	3136
10°	3139	3126	3132
15°	3137	3123	3127
20°	3126	3114	3118
25°	3109	3097	3099
30°	3087	3074	3076
35°	3059	3047	3050
40°	3027	3012	3014
45°	2982	2968	2974
50°	2930	2909	2915
55°	2846	2823	2833
60°	2706	2695	2695
65°	2527	2522	2513
70°	2238	2249	2243
75°	1884	1869	1855
80°	1354	1333	1320
85°	707	707	685

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2982 cd/sqm



TEST NUMBER: P973532
 CATALOG NUMBER: FLR2-22-45-L930-CP125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	3.4
10°-20°	315.8	9.7
20°-30°	479.9	14.8
30°-40°	580.0	17.9
40°-50°	602.1	18.6
50°-60°	538.3	16.6
60°-70°	391.4	12.1
70°-80°	192.5	5.9
80°-90°	33.4	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°	905.5	27.9
0°-40°	1485.6	45.8
0°-60°	2625.9	81.0
0°-90°	3243.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3243.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1160	1160	1160	1160	1160	
5°	1162	1149	1158	1153	1161	110
15°	1126	1113	1121	1118	1122	318
25°	1047	1036	1043	1041	1044	483
35°	931	925	928	928	928	583
45°	784	780	780	782	782	604
55°	607	603	602	603	604	541
65°	397	398	396	396	395	391
75°	181	183	180	180	178	192
85°	23	24	23	23	22	33
90°	0	0	0	0	0	



TEST NUMBER: P973532
 CATALOG NUMBER: FLR2-22-45-L930-CP125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1159.7	1159.7	1159.7	1159.7	1159.7
2.5°	1166.1	1152.5	1161.1	1156.1	1164.0
5°	1162.5	1148.9	1157.5	1153.2	1161.1
7.5°	1156.1	1142.5	1151.1	1146.8	1153.2
10°	1148.9	1134.6	1143.9	1139.6	1146.1
12.5°	1139.6	1126.0	1134.6	1131.0	1136.8
15°	1126.0	1113.1	1121.0	1118.1	1122.4
17.5°	1109.5	1096.7	1104.5	1102.4	1106.0
20°	1091.6	1079.5	1087.3	1085.2	1088.8
22.5°	1071.6	1058.7	1065.8	1064.4	1067.3
25°	1047.2	1035.8	1042.9	1040.8	1043.6
27.5°	1021.4	1010.7	1016.4	1016.4	1017.9
30°	993.5	983.5	989.2	989.2	989.9
32.5°	963.4	955.5	959.1	959.8	959.8
35°	931.2	924.7	927.6	928.3	928.3
37.5°	897.5	891.1	893.2	894.7	894.7
40°	861.7	856.0	857.4	858.8	858.1
42.5°	823.0	818.7	819.4	820.9	820.9
45°	783.6	780.0	780.0	781.5	781.5
47.5°	743.5	739.9	738.5	739.9	739.9
50°	699.8	696.2	694.8	696.2	696.2
52.5°	654.0	650.4	650.4	650.4	651.1
55°	606.7	603.1	601.7	603.1	603.8
57.5°	556.6	555.1	553.0	553.7	551.5
60°	502.8	502.8	500.7	502.1	500.7
62.5°	450.6	452.0	449.8	449.8	448.4
65°	396.8	398.3	396.1	396.1	394.7
67.5°	341.7	343.8	341.0	341.0	339.5
70°	284.4	288.7	285.8	286.5	285.1
72.5°	232.8	234.9	232.1	232.1	230.6
75°	181.2	182.7	179.8	180.5	178.4
77.5°	130.4	132.5	129.6	130.4	129.6
80°	87.4	88.1	86.0	86.7	85.2
82.5°	50.9	51.6	50.9	50.1	49.4
85°	22.9	23.6	22.9	22.9	22.2
87.5°	5.7	5.7	5.7	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)