

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: P974125

Luminaire Tested: FLR2-24-45-L930-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-45-L930-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-45-L930-CP125
Ballast/Driver: -

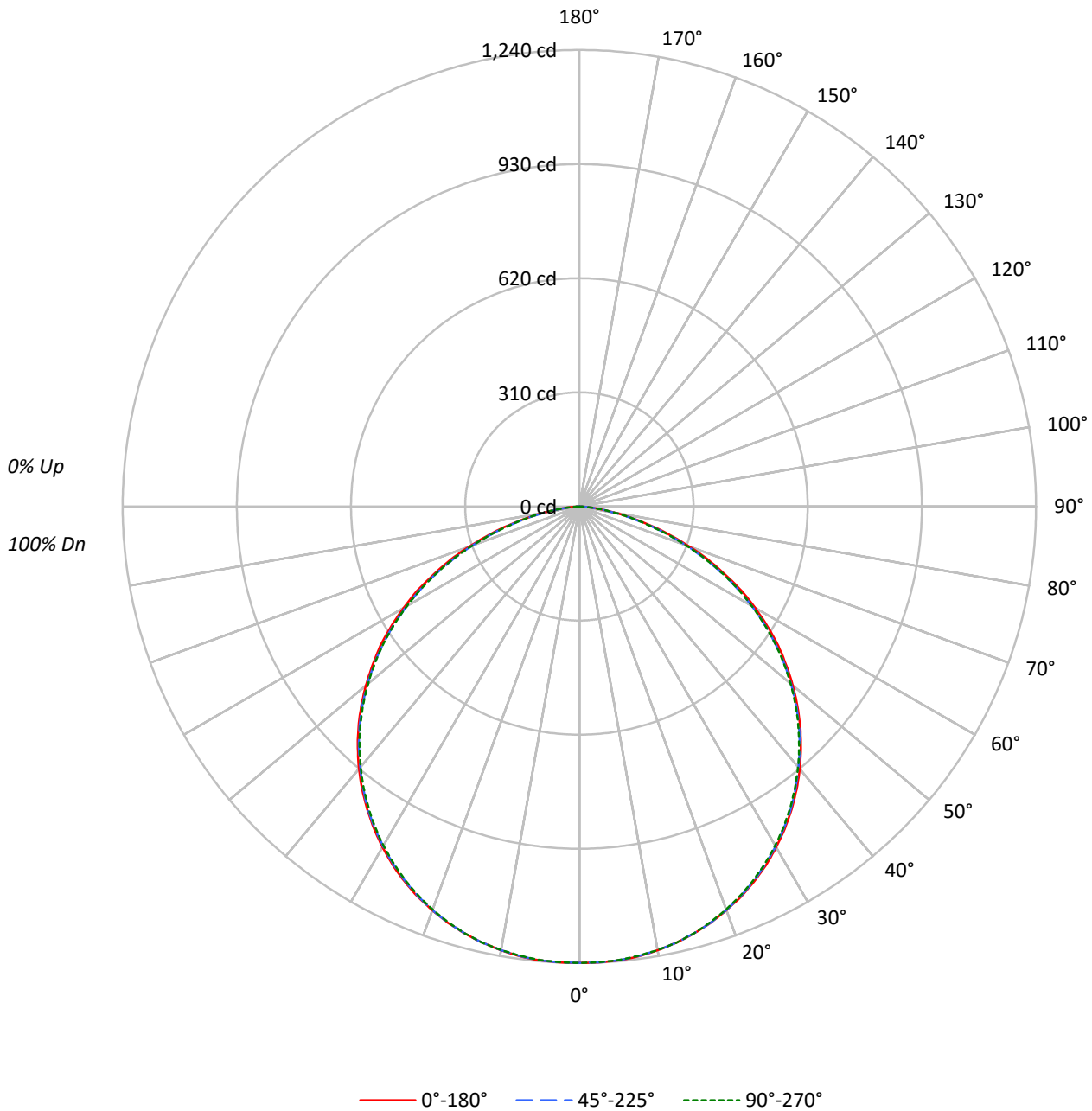
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3504.2 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.6
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	100	100	100	100	100														
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85	85	85	85	85	85	85														
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71	71	71	71	71	71	71														
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60	60	60	60	60	60	60														
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51	51	51	51	51	51	51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	44	44	44	44	44	44														
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38	38	38	38	38	38	38														
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34	34	34	34	34	34	34														
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30	30	30	30	30	30	30														
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27	27	27	27	27	27	27														
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25	25	25	25	25	25	25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1668	1668	1668
5°	1672	1672	1670
10°	1673	1672	1671
15°	1673	1673	1673
20°	1671	1671	1668
25°	1668	1665	1662
30°	1661	1656	1653
35°	1650	1645	1640
40°	1635	1625	1623
45°	1614	1605	1600
50°	1584	1572	1567
55°	1547	1525	1523
60°	1482	1456	1456
65°	1387	1354	1358
70°	1248	1209	1206
75°	1048	1006	1001
80°	766	728	759
85°	432	398	404

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1614 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	3.4
10°-20°	339.0	9.7
20°-30°	516.9	14.8
30°-40°	626.3	17.9
40°-50°	650.5	18.6
50°-60°	582.0	16.6
60°-70°	424.1	12.1
70°-80°	210.1	6.0
80°-90°	37.6	1.1
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°	973.6	27.8
0°-40°	1599.9	45.7
0°-60°	2832.4	80.8
0°-90°	3504.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3504.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1240	1240	1240	1240	1240	
5°	1238	1238	1238	1238	1237	118
15°	1201	1201	1201	1202	1201	339
25°	1124	1122	1122	1121	1120	518
35°	1004	1003	1002	1000	998	628
45°	848	847	844	842	841	654
55°	659	654	650	650	649	587
65°	436	432	425	427	427	432
75°	202	198	194	197	193	215
85°	28	26	26	26	26	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1239.8	1239.8	1239.8	1239.8	1239.8
2.5°	1239.8	1239.4	1239.4	1239.8	1238.9
5°	1237.6	1238.1	1237.6	1237.6	1236.7
7.5°	1232.7	1232.3	1231.8	1232.3	1230.9
10°	1224.3	1224.3	1223.8	1224.3	1223.4
12.5°	1214.0	1214.0	1214.0	1214.5	1214.0
15°	1201.1	1200.7	1200.7	1201.6	1200.7
17.5°	1186.0	1185.6	1185.6	1185.1	1184.2
20°	1167.3	1167.3	1166.9	1166.4	1165.1
22.5°	1147.3	1146.9	1145.5	1145.5	1143.7
25°	1123.7	1122.4	1121.5	1121.1	1119.7
27.5°	1097.9	1096.1	1094.8	1093.9	1092.6
30°	1069.0	1067.2	1065.9	1064.6	1063.7
32.5°	1037.9	1037.0	1034.8	1034.3	1032.5
35°	1004.5	1003.2	1001.8	1000.1	998.3
37.5°	968.9	967.6	964.5	963.6	962.2
40°	931.1	929.3	925.3	925.3	924.0
42.5°	890.6	888.8	886.2	884.4	883.5
45°	848.4	846.6	843.5	841.7	840.8
47.5°	803.4	802.1	798.5	797.2	795.9
50°	756.7	754.9	750.9	750.0	748.7
52.5°	707.8	706.9	701.5	701.1	699.8
55°	659.3	654.4	649.9	649.9	649.1
57.5°	605.9	602.3	596.6	596.6	595.7
60°	550.7	547.6	541.0	541.8	541.0
62.5°	496.9	490.2	484.0	486.7	484.5
65°	435.5	432.0	425.3	427.1	426.6
67.5°	379.5	372.8	366.6	370.1	368.3
70°	317.2	313.6	307.4	311.0	306.5
72.5°	258.5	255.4	249.1	253.1	248.7
75°	201.5	198.4	193.5	197.1	192.6
77.5°	147.7	145.5	141.0	144.6	145.5
80°	98.8	96.1	93.9	97.0	97.9
82.5°	57.8	56.1	55.2	55.6	57.8
85°	28.0	25.8	25.8	26.2	26.2
87.5°	7.6	6.7	7.6	8.0	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)