

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: P974149

Luminaire Tested: FLR2-24-45-L930-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974149
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-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-45-L930-CP375
Ballast/Driver: -

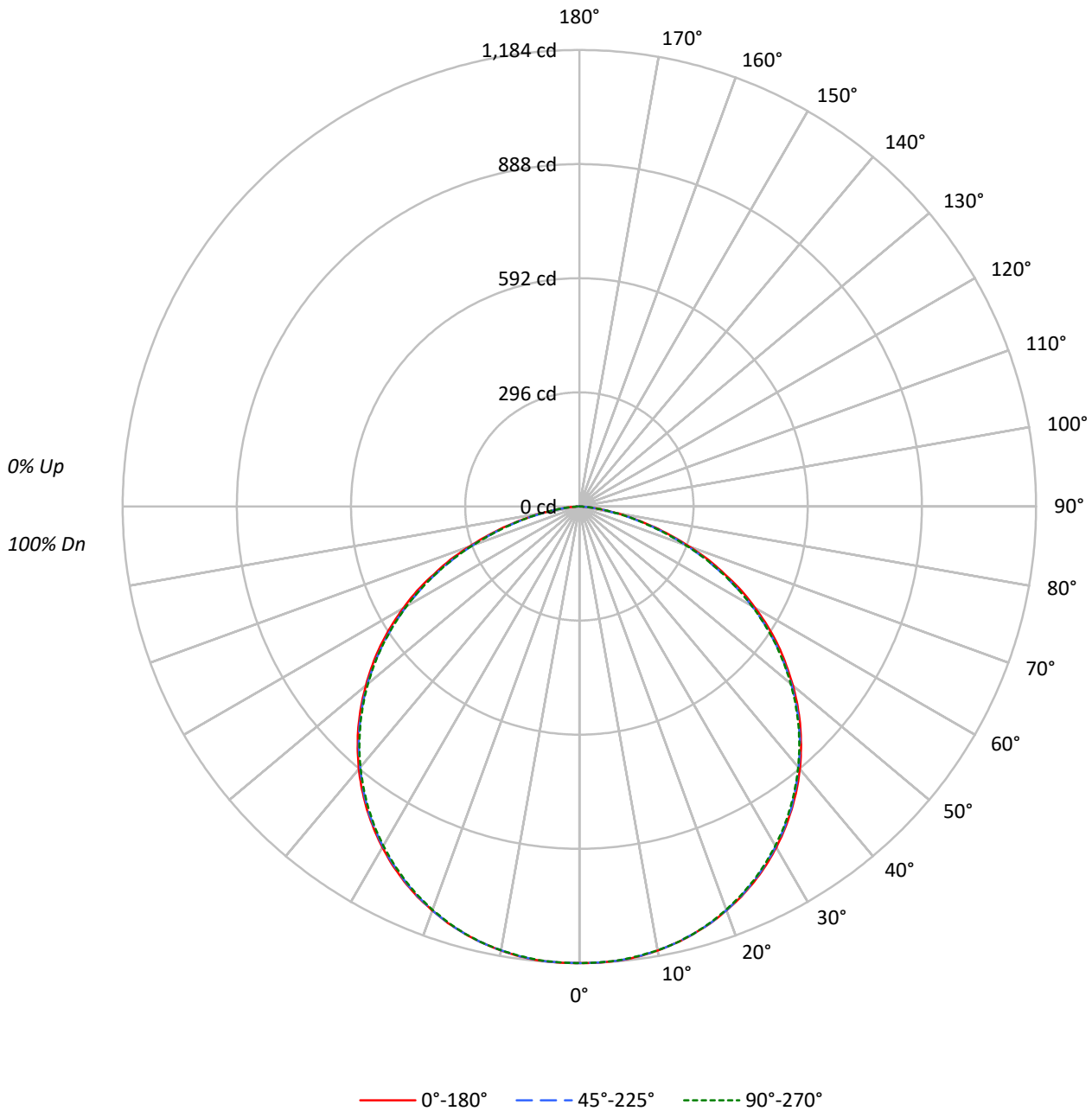
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3347.8 lumens
Efficiency: N/A
Efficacy: 94.0 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				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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	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	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1594	1594	1594
5°	1597	1597	1596
10°	1598	1597	1597
15°	1598	1598	1598
20°	1597	1596	1594
25°	1594	1591	1588
30°	1587	1582	1579
35°	1576	1572	1566
40°	1562	1553	1550
45°	1542	1533	1529
50°	1513	1502	1497
55°	1478	1457	1455
60°	1416	1391	1391
65°	1325	1294	1298
70°	1192	1155	1152
75°	1001	961	957
80°	731	695	724
85°	414	381	387

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1542 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.4	3.4
10°-20°	323.9	9.7
20°-30°	493.8	14.8
30°-40°	598.3	17.9
40°-50°	621.5	18.6
50°-60°	556.0	16.6
60°-70°	405.2	12.1
70°-80°	200.7	6.0
80°-90°	35.9	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°	930.2	27.8
0°-40°	1528.5	45.7
0°-60°	2706.0	80.8
0°-90°	3347.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3347.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1184	1184	1184	1184	1184	
5°	1182	1183	1182	1182	1182	112
15°	1148	1147	1147	1148	1147	324
25°	1074	1072	1071	1071	1070	495
35°	960	958	957	955	954	600
45°	810	809	806	804	803	625
55°	630	625	621	621	620	561
65°	416	413	406	408	408	412
75°	192	190	185	188	184	205
85°	27	25	25	25	25	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1184.5	1184.1	1184.1	1184.5	1183.6
5°	1182.4	1182.8	1182.4	1182.4	1181.5
7.5°	1177.7	1177.3	1176.8	1177.3	1176.0
10°	1169.6	1169.6	1169.2	1169.6	1168.8
12.5°	1159.8	1159.8	1159.8	1160.3	1159.8
15°	1147.5	1147.1	1147.1	1147.9	1147.1
17.5°	1133.1	1132.6	1132.6	1132.2	1131.4
20°	1115.2	1115.2	1114.8	1114.4	1113.1
22.5°	1096.1	1095.7	1094.4	1094.4	1092.7
25°	1073.6	1072.3	1071.4	1071.0	1069.7
27.5°	1048.9	1047.2	1045.9	1045.1	1043.8
30°	1021.3	1019.6	1018.3	1017.0	1016.2
32.5°	991.5	990.7	988.6	988.1	986.4
35°	959.7	958.4	957.1	955.4	953.7
37.5°	925.7	924.4	921.4	920.6	919.3
40°	889.5	887.8	884.0	884.0	882.7
42.5°	850.9	849.2	846.6	844.9	844.1
45°	810.5	808.8	805.8	804.1	803.3
47.5°	767.6	766.3	762.9	761.6	760.3
50°	722.9	721.2	717.4	716.6	715.3
52.5°	676.2	675.3	670.2	669.8	668.5
55°	629.9	625.2	620.9	620.9	620.1
57.5°	578.9	575.5	569.9	569.9	569.1
60°	526.2	523.2	516.8	517.7	516.8
62.5°	474.7	468.4	462.4	465.0	462.8
65°	416.1	412.7	406.3	408.0	407.6
67.5°	362.5	356.2	350.2	353.6	351.9
70°	303.0	299.6	293.7	297.1	292.8
72.5°	246.9	244.0	238.0	241.8	237.6
75°	192.5	189.6	184.9	188.3	184.0
77.5°	141.1	139.0	134.7	138.1	139.0
80°	94.4	91.8	89.7	92.7	93.5
82.5°	55.3	53.6	52.7	53.1	55.3
85°	26.8	24.7	24.7	25.1	25.1
87.5°	7.2	6.4	7.2	7.7	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)