

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: P974452

Luminaire Tested: FLR2-24-40-L950-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974452
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: FLR2-24-40-L950-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L950-CP080
Ballast/Driver: -

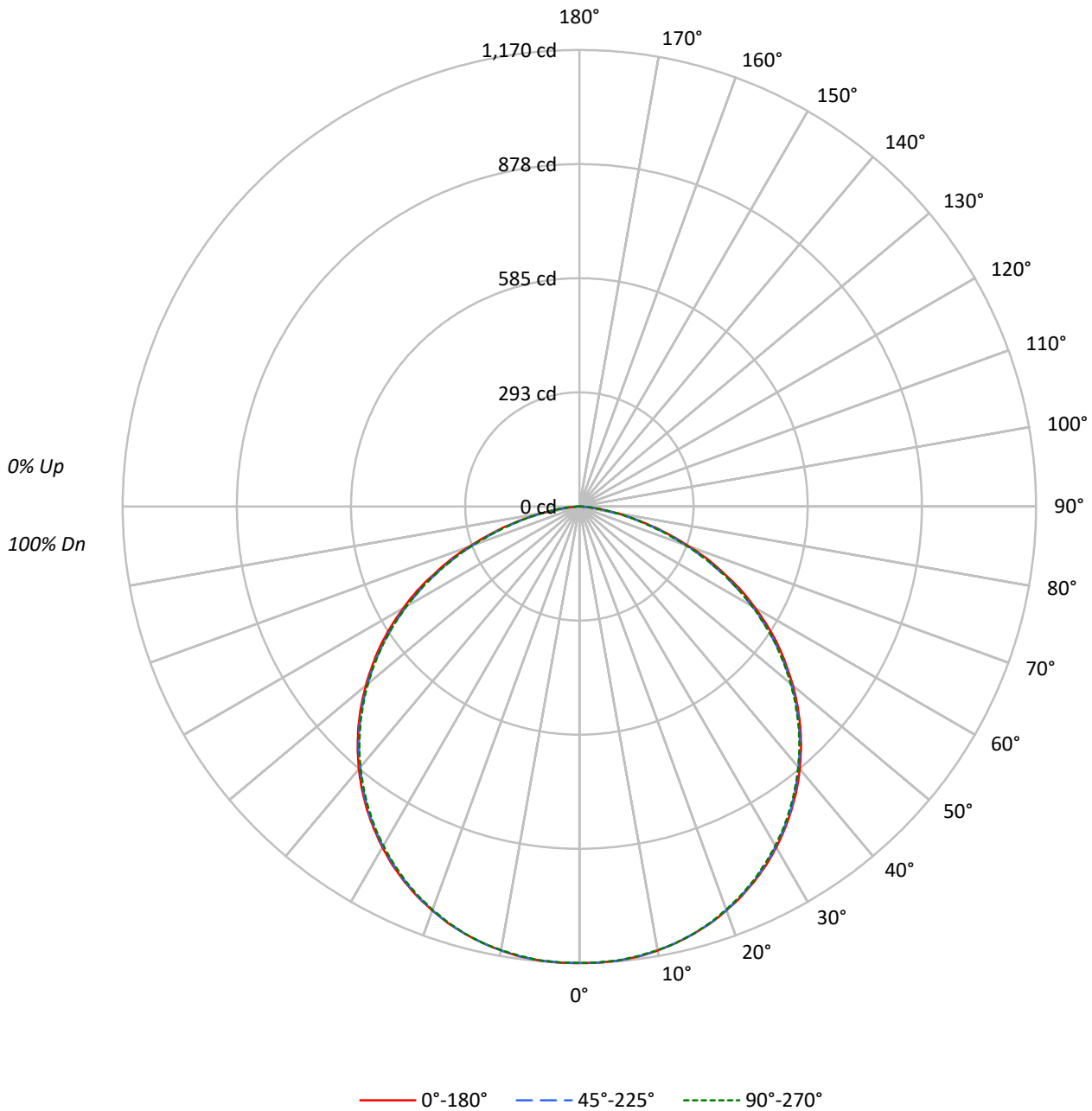
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3307.8 lumens
Efficiency: N/A
Efficacy: 109.2 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): 30.3
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°	1575	1575	1575
5°	1578	1578	1577
10°	1579	1578	1578
15°	1579	1579	1579
20°	1578	1577	1575
25°	1575	1572	1569
30°	1568	1563	1560
35°	1557	1553	1548
40°	1544	1534	1532
45°	1524	1515	1510
50°	1495	1484	1479
55°	1460	1439	1437
60°	1399	1374	1374
65°	1309	1278	1282
70°	1178	1142	1138
75°	989	950	945
80°	722	687	716
85°	409	377	383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1524 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	3.4
10°-20°	320.0	9.7
20°-30°	488.0	14.8
30°-40°	591.2	17.9
40°-50°	614.1	18.6
50°-60°	549.4	16.6
60°-70°	400.4	12.1
70°-80°	198.3	6.0
80°-90°	35.5	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°	919.1	27.8
0°-40°	1510.3	45.7
0°-60°	2673.7	80.8
0°-90°	3307.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3307.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1170	1170	1170	1170	1170	
5°	1168	1169	1168	1168	1167	111
15°	1134	1133	1133	1134	1133	320
25°	1061	1060	1059	1058	1057	489
35°	948	947	946	944	942	593
45°	801	799	796	794	794	617
55°	622	618	614	614	613	554
65°	411	408	402	403	403	408
75°	190	187	183	186	182	203
85°	26	24	24	25	25	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1170.4	1170.4	1170.4	1170.4	1170.4
2.5°	1170.4	1170.0	1170.0	1170.4	1169.5
5°	1168.3	1168.7	1168.3	1168.3	1167.4
7.5°	1163.7	1163.2	1162.8	1163.2	1162.0
10°	1155.7	1155.7	1155.3	1155.7	1154.8
12.5°	1146.0	1146.0	1146.0	1146.4	1146.0
15°	1133.8	1133.4	1133.4	1134.3	1133.4
17.5°	1119.6	1119.2	1119.2	1118.7	1117.9
20°	1101.9	1101.9	1101.5	1101.1	1099.8
22.5°	1083.0	1082.6	1081.4	1081.4	1079.7
25°	1060.8	1059.5	1058.7	1058.3	1057.0
27.5°	1036.4	1034.7	1033.5	1032.6	1031.4
30°	1009.1	1007.4	1006.2	1004.9	1004.1
32.5°	979.7	978.9	976.8	976.4	974.7
35°	948.2	947.0	945.7	944.0	942.4
37.5°	914.6	913.4	910.4	909.6	908.3
40°	878.9	877.3	873.5	873.5	872.2
42.5°	840.7	839.0	836.5	834.8	834.0
45°	800.8	799.2	796.2	794.5	793.7
47.5°	758.4	757.2	753.8	752.5	751.3
50°	714.3	712.6	708.9	708.0	706.8
52.5°	668.1	667.3	662.3	661.8	660.6
55°	622.4	617.7	613.5	613.5	612.7
57.5°	572.0	568.6	563.1	563.1	562.3
60°	519.9	517.0	510.7	511.5	510.7
62.5°	469.1	462.8	456.9	459.4	457.3
65°	411.1	407.8	401.5	403.1	402.7
67.5°	358.2	351.9	346.0	349.4	347.7
70°	299.4	296.1	290.2	293.5	289.3
72.5°	244.0	241.0	235.2	238.9	234.7
75°	190.2	187.3	182.7	186.0	181.8
77.5°	139.4	137.3	133.1	136.5	137.3
80°	93.2	90.7	88.6	91.5	92.4
82.5°	54.6	52.9	52.1	52.5	54.6
85°	26.5	24.4	24.4	24.8	24.8
87.5°	7.1	6.3	7.1	7.6	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)