

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: P974323

Luminaire Tested: FLR2-24-35-L840-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974323
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: FLR2-24-35-L840-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L840-CA080
Ballast/Driver: -

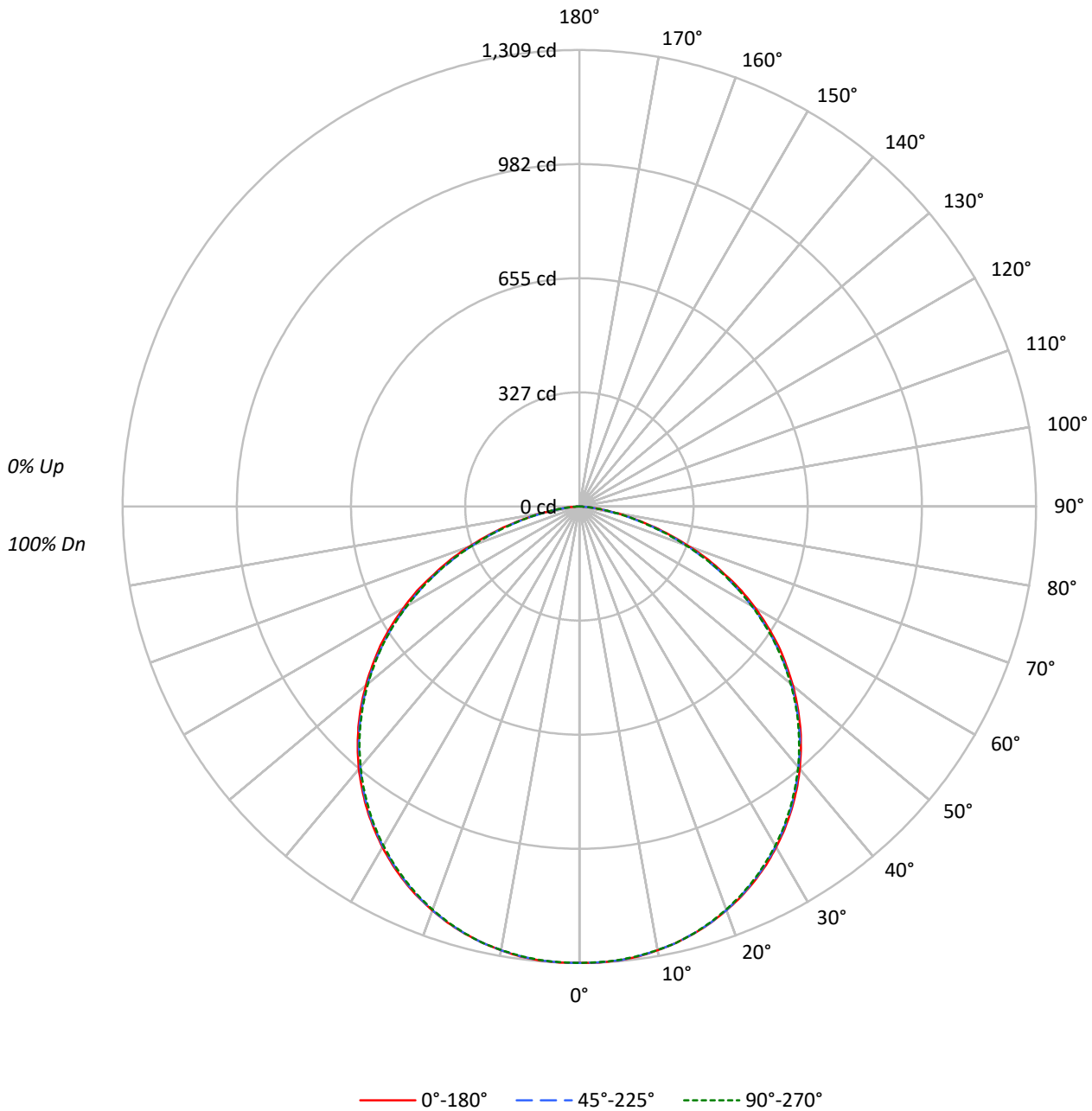
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3699.7 lumens
Efficiency: N/A
Efficacy: 130.3 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): 28.4
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

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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															
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85					85															
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44					44															
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38					38															
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34															
8	61	47	39	33	59	47	38	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	39	33	29	27					27															
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1761	1761	1761
5°	1765	1765	1764
10°	1766	1765	1765
15°	1767	1766	1766
20°	1765	1764	1761
25°	1761	1758	1755
30°	1754	1748	1745
35°	1742	1737	1731
40°	1727	1716	1714
45°	1704	1694	1689
50°	1672	1659	1655
55°	1633	1610	1608
60°	1565	1537	1537
65°	1464	1429	1434
70°	1317	1277	1273
75°	1106	1062	1057
80°	808	768	800
85°	457	420	428

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1704 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	3.4
10°-20°	358.0	9.7
20°-30°	545.8	14.8
30°-40°	661.2	17.9
40°-50°	686.9	18.6
50°-60°	614.4	16.6
60°-70°	447.8	12.1
70°-80°	221.8	6.0
80°-90°	39.6	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°	1028.0	27.8
0°-40°	1689.2	45.7
0°-60°	2990.5	80.8
0°-90°	3699.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3699.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1309	1309	1309	1309	1309	
5°	1307	1307	1307	1307	1306	124
15°	1268	1268	1268	1269	1268	358
25°	1186	1185	1184	1184	1182	547
35°	1061	1059	1058	1056	1054	663
45°	896	894	890	889	888	690
55°	696	691	686	686	685	620
65°	460	456	449	451	450	456
75°	213	210	204	208	203	227
85°	30	27	27	28	28	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1309.0	1309.0	1309.0	1309.0	1309.0
2.5°	1309.0	1308.6	1308.6	1309.0	1308.1
5°	1306.7	1307.2	1306.7	1306.7	1305.7
7.5°	1301.5	1301.1	1300.6	1301.1	1299.6
10°	1292.6	1292.6	1292.1	1292.6	1291.7
12.5°	1281.8	1281.8	1281.8	1282.3	1281.8
15°	1268.2	1267.7	1267.7	1268.6	1267.7
17.5°	1252.2	1251.7	1251.7	1251.3	1250.3
20°	1232.5	1232.5	1232.0	1231.5	1230.1
22.5°	1211.3	1210.9	1209.5	1209.5	1207.6
25°	1186.4	1185.0	1184.1	1183.6	1182.2
27.5°	1159.2	1157.3	1155.9	1155.0	1153.6
30°	1128.7	1126.8	1125.4	1124.0	1123.0
32.5°	1095.8	1094.9	1092.5	1092.0	1090.2
35°	1060.6	1059.2	1057.7	1055.9	1054.0
37.5°	1023.0	1021.6	1018.3	1017.4	1015.9
40°	983.1	981.2	977.0	977.0	975.6
42.5°	940.3	938.4	935.6	933.8	932.8
45°	895.7	893.8	890.5	888.7	887.7
47.5°	848.3	846.9	843.1	841.7	840.3
50°	798.9	797.1	792.8	791.9	790.5
52.5°	747.3	746.3	740.7	740.2	738.8
55°	696.1	690.9	686.2	686.2	685.3
57.5°	639.7	636.0	629.9	629.9	628.9
60°	581.5	578.2	571.1	572.1	571.1
62.5°	524.6	517.6	511.0	513.8	511.5
65°	459.8	456.1	449.0	450.9	450.4
67.5°	400.6	393.6	387.0	390.8	388.9
70°	334.9	331.1	324.6	328.3	323.6
72.5°	272.9	269.6	263.0	267.3	262.6
75°	212.8	209.5	204.3	208.1	203.4
77.5°	155.9	153.6	148.9	152.7	153.6
80°	104.3	101.5	99.1	102.4	103.3
82.5°	61.1	59.2	58.2	58.7	61.1
85°	29.6	27.2	27.2	27.7	27.7
87.5°	8.0	7.0	8.0	8.5	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)