

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: P974450

Luminaire Tested: FLR2-24-30-L950-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974450
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: FLR2-24-30-L950-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L950-CP080
Ballast/Driver: -

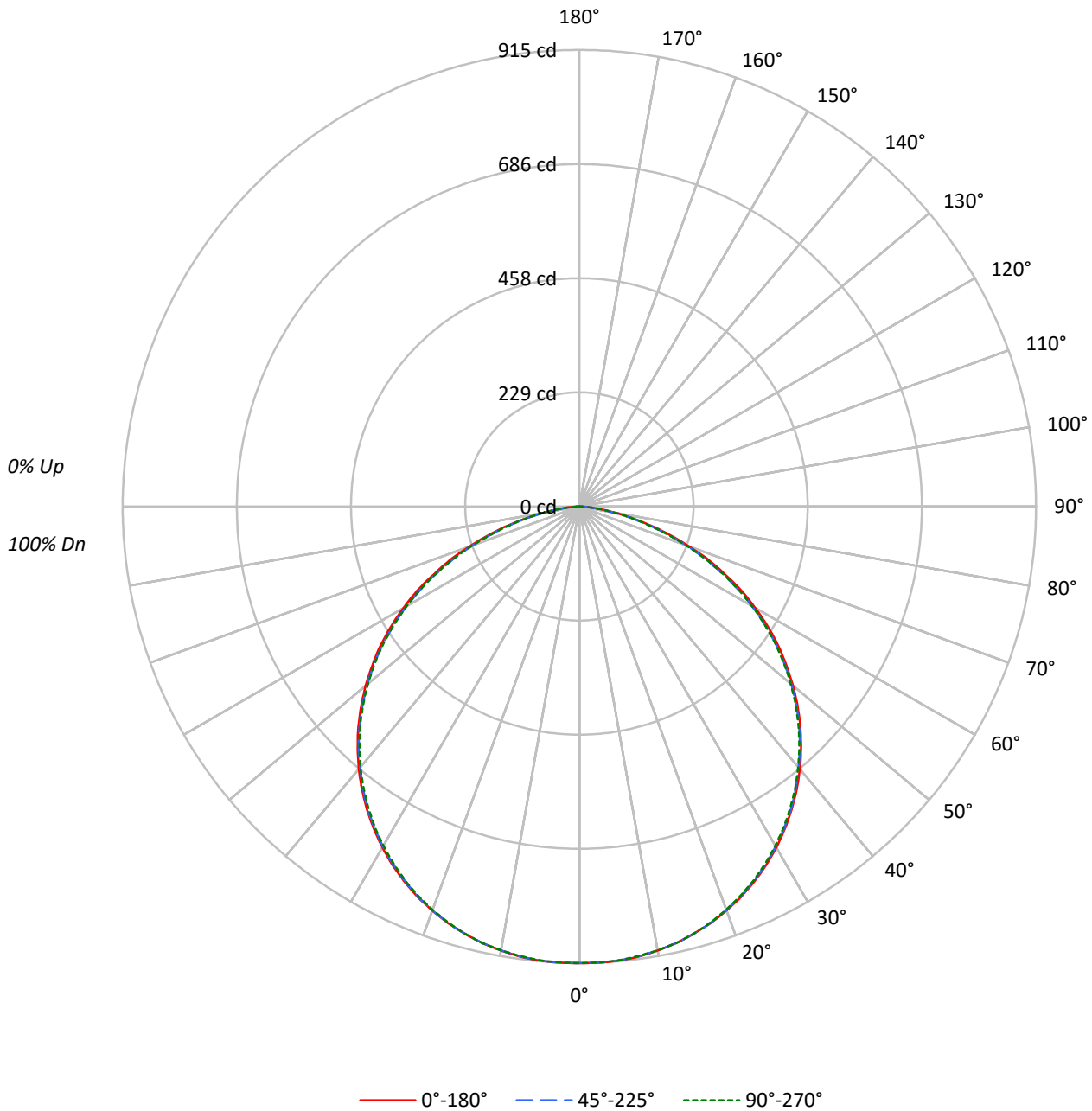
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2587.3 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): 23.7
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°	1232	1232	1232
5°	1234	1234	1233
10°	1235	1235	1234
15°	1235	1235	1235
20°	1234	1234	1232
25°	1232	1229	1227
30°	1226	1223	1220
35°	1218	1215	1211
40°	1208	1200	1198
45°	1192	1185	1181
50°	1169	1160	1157
55°	1142	1126	1124
60°	1094	1075	1075
65°	1024	1000	1003
70°	921	893	890
75°	774	743	739
80°	565	537	560
85°	320	295	299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1192 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	3.4
10°-20°	250.3	9.7
20°-30°	381.7	14.8
30°-40°	462.4	17.9
40°-50°	480.3	18.6
50°-60°	429.7	16.6
60°-70°	313.2	12.1
70°-80°	155.1	6.0
80°-90°	27.7	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°	718.9	27.8
0°-40°	1181.3	45.7
0°-60°	2091.3	80.8
0°-90°	2587.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2587.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	915	915	915	915	915	
5°	914	914	914	914	913	87
15°	887	886	886	887	886	250
25°	830	829	828	828	827	382
35°	742	741	740	738	737	464
45°	626	625	623	621	621	483
55°	487	483	480	480	479	434
65°	322	319	314	315	315	319
75°	149	146	143	146	142	159
85°	21	19	19	19	19	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	915.4	915.4	915.4	915.4	915.4
2.5°	915.4	915.1	915.1	915.4	914.8
5°	913.8	914.1	913.8	913.8	913.1
7.5°	910.2	909.8	909.5	909.8	908.8
10°	903.9	903.9	903.6	903.9	903.3
12.5°	896.4	896.4	896.4	896.7	896.4
15°	886.8	886.5	886.5	887.2	886.5
17.5°	875.7	875.3	875.3	875.0	874.4
20°	861.9	861.9	861.6	861.2	860.2
22.5°	847.1	846.8	845.8	845.8	844.5
25°	829.7	828.7	828.0	827.7	826.7
27.5°	810.6	809.3	808.3	807.7	806.7
30°	789.3	788.0	787.0	786.0	785.3
32.5°	766.3	765.6	764.0	763.7	762.4
35°	741.7	740.7	739.7	738.4	737.1
37.5°	715.4	714.4	712.1	711.4	710.5
40°	687.5	686.2	683.2	683.2	682.2
42.5°	657.6	656.3	654.3	653.0	652.3
45°	626.4	625.1	622.8	621.4	620.8
47.5°	593.2	592.2	589.6	588.6	587.6
50°	558.7	557.4	554.4	553.8	552.8
52.5°	522.6	521.9	518.0	517.7	516.7
55°	486.8	483.2	479.9	479.9	479.2
57.5°	447.4	444.7	440.5	440.5	439.8
60°	406.6	404.3	399.4	400.1	399.4
62.5°	366.9	362.0	357.4	359.3	357.7
65°	321.6	318.9	314.0	315.3	315.0
67.5°	280.2	275.2	270.7	273.3	272.0
70°	234.2	231.6	227.0	229.6	226.3
72.5°	190.8	188.5	183.9	186.9	183.6
75°	148.8	146.5	142.9	145.5	142.2
77.5°	109.0	107.4	104.1	106.7	107.4
80°	72.9	70.9	69.3	71.6	72.3
82.5°	42.7	41.4	40.7	41.1	42.7
85°	20.7	19.1	19.1	19.4	19.4
87.5°	5.6	4.9	5.6	5.9	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)