

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: P974451

Luminaire Tested: FLR2-24-35-L950-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974451
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-L950-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L950-CP080
Ballast/Driver: -

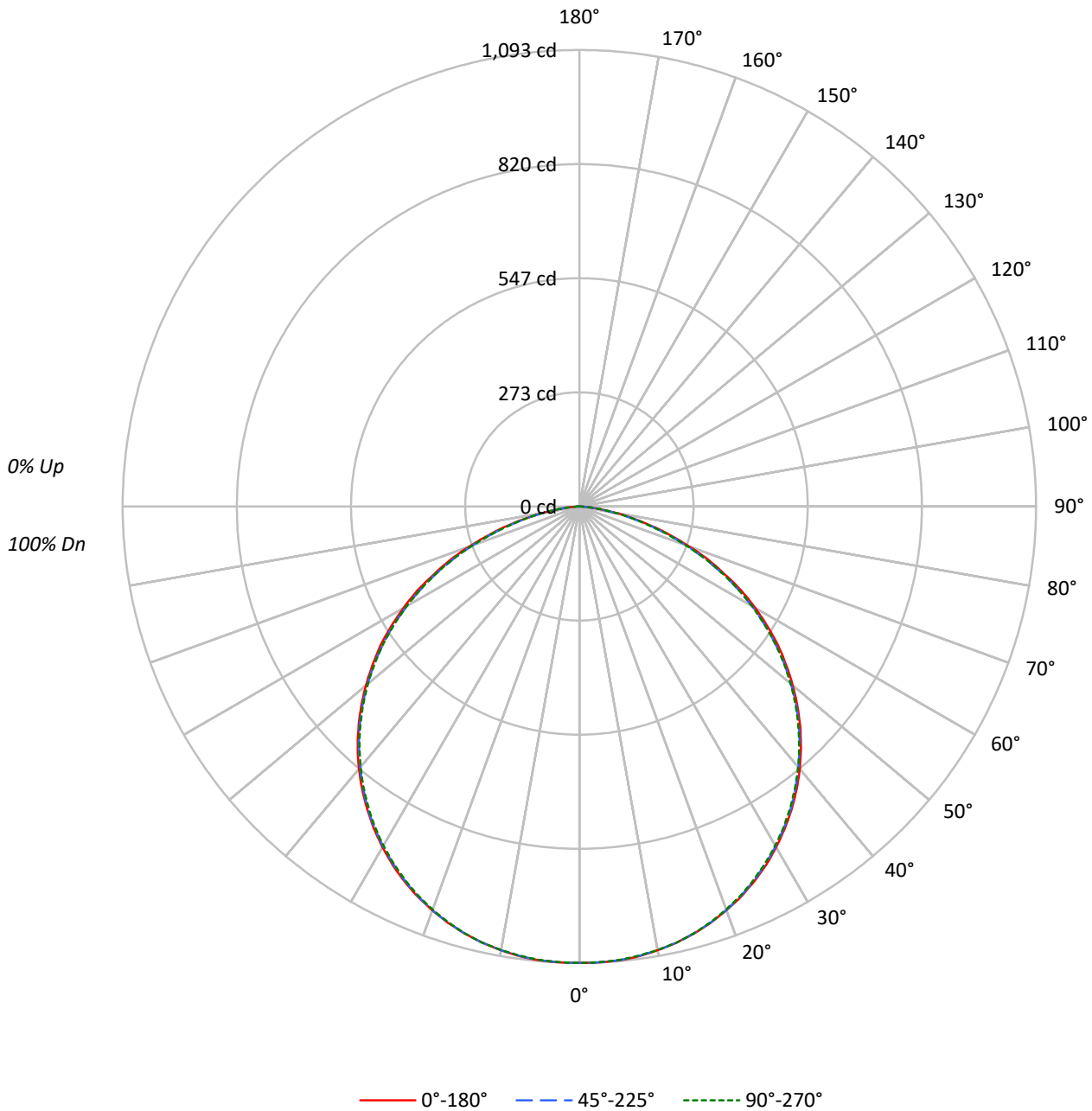
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3088.8 lumens
Efficiency: N/A
Efficacy: 108.8 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°	1470	1470	1470
5°	1473	1473	1472
10°	1474	1474	1473
15°	1475	1474	1474
20°	1473	1473	1470
25°	1470	1468	1465
30°	1464	1460	1457
35°	1454	1451	1445
40°	1441	1433	1431
45°	1423	1415	1410
50°	1396	1385	1382
55°	1363	1344	1342
60°	1306	1283	1283
65°	1222	1194	1197
70°	1100	1066	1063
75°	923	887	883
80°	675	641	669
85°	381	350	357

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1423 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	3.4
10°-20°	298.9	9.7
20°-30°	455.6	14.8
30°-40°	552.0	17.9
40°-50°	573.4	18.6
50°-60°	513.0	16.6
60°-70°	373.9	12.1
70°-80°	185.1	6.0
80°-90°	33.1	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°	858.2	27.8
0°-40°	1410.3	45.7
0°-60°	2496.7	80.8
0°-90°	3088.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3088.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1093	1093	1093	1093	1093	
5°	1091	1091	1091	1091	1090	104
15°	1059	1058	1058	1059	1058	299
25°	990	989	989	988	987	457
35°	885	884	883	882	880	554
45°	748	746	744	742	741	576
55°	581	577	573	573	572	518
65°	384	381	375	376	376	381
75°	178	175	171	174	170	189
85°	25	23	23	23	23	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1092.9	1092.9	1092.9	1092.9	1092.9
2.5°	1092.9	1092.5	1092.5	1092.9	1092.1
5°	1090.9	1091.3	1090.9	1090.9	1090.1
7.5°	1086.6	1086.2	1085.8	1086.2	1085.0
10°	1079.2	1079.2	1078.8	1079.2	1078.4
12.5°	1070.1	1070.1	1070.1	1070.5	1070.1
15°	1058.8	1058.4	1058.4	1059.2	1058.4
17.5°	1045.4	1045.0	1045.0	1044.6	1043.9
20°	1029.0	1029.0	1028.6	1028.2	1027.0
22.5°	1011.3	1010.9	1009.7	1009.7	1008.2
25°	990.5	989.4	988.6	988.2	987.0
27.5°	967.8	966.2	965.0	964.3	963.1
30°	942.3	940.7	939.6	938.4	937.6
32.5°	914.8	914.1	912.1	911.7	910.1
35°	885.4	884.3	883.1	881.5	879.9
37.5°	854.1	852.9	850.1	849.4	848.2
40°	820.7	819.2	815.6	815.6	814.5
42.5°	785.1	783.5	781.1	779.6	778.8
45°	747.8	746.2	743.5	741.9	741.1
47.5°	708.2	707.0	703.9	702.7	701.5
50°	667.0	665.5	661.9	661.1	660.0
52.5°	623.9	623.1	618.4	618.0	616.8
55°	581.1	576.8	572.9	572.9	572.1
57.5°	534.1	530.9	525.9	525.9	525.1
60°	485.5	482.7	476.8	477.6	476.8
62.5°	438.0	432.1	426.6	429.0	427.0
65°	383.9	380.8	374.9	376.4	376.1
67.5°	334.5	328.6	323.1	326.3	324.7
70°	279.6	276.5	271.0	274.1	270.2
72.5°	227.8	225.1	219.6	223.1	219.2
75°	177.6	174.9	170.6	173.7	169.8
77.5°	130.2	128.2	124.3	127.4	128.2
80°	87.1	84.7	82.7	85.5	86.3
82.5°	51.0	49.4	48.6	49.0	51.0
85°	24.7	22.7	22.7	23.1	23.1
87.5°	6.7	5.9	6.7	7.1	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)