

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: P973529

Luminaire Tested: FLR2-22-20-L930-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973529  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-22-20-L930-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

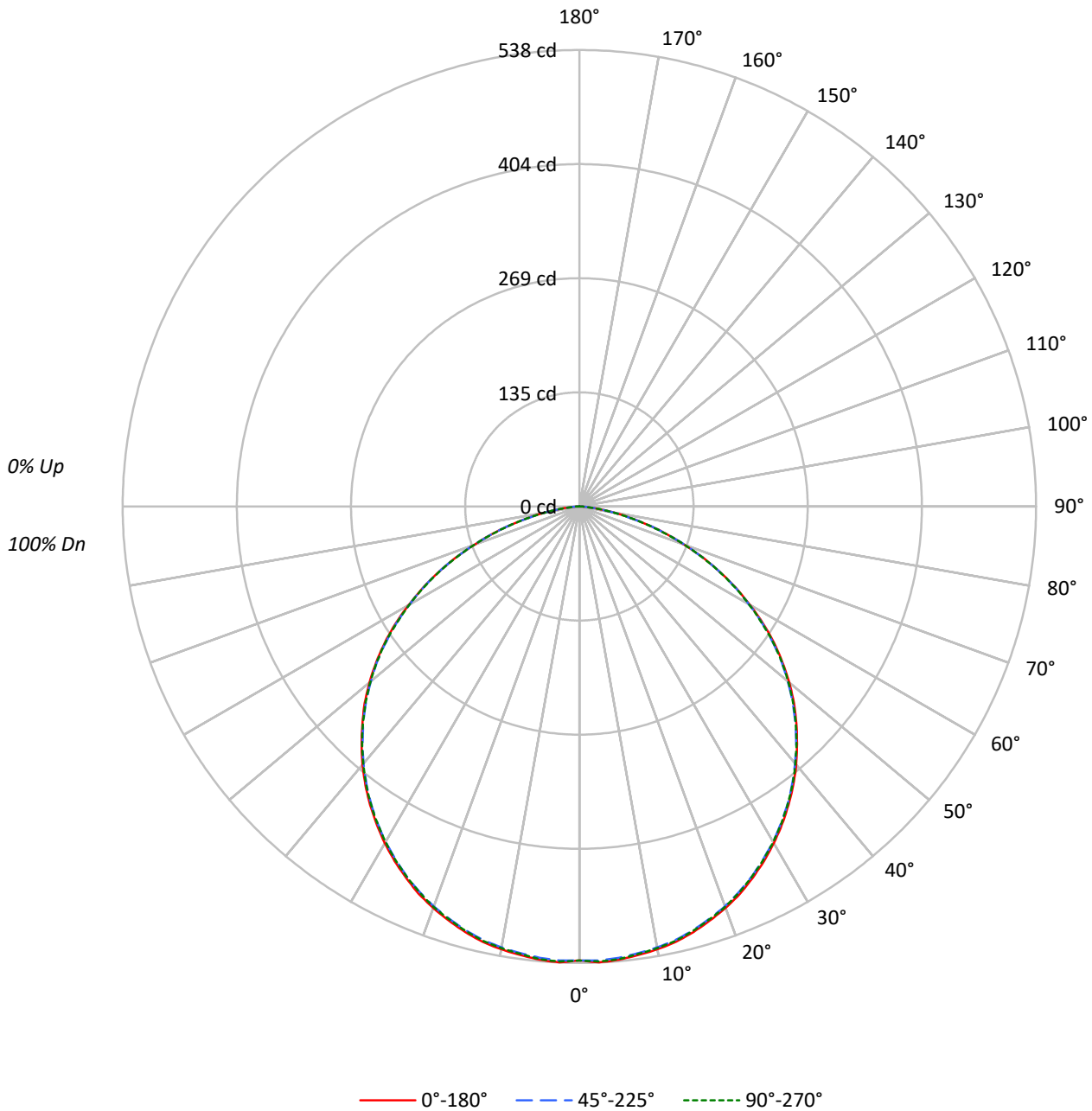
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1496.0 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 15.1  
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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	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	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1440	1440	1440
5°	1449	1442	1447
10°	1448	1442	1445
15°	1447	1441	1443
20°	1442	1436	1438
25°	1434	1428	1429
30°	1424	1418	1419
35°	1411	1406	1407
40°	1396	1389	1391
45°	1376	1369	1372
50°	1351	1342	1345
55°	1313	1302	1307
60°	1249	1243	1243
65°	1166	1163	1160
70°	1032	1037	1035
75°	869	862	856
80°	625	615	609
85°	327	327	315

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1376 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.7	3.4
10°-20°	145.7	9.7
20°-30°	221.4	14.8
30°-40°	267.6	17.9
40°-50°	277.7	18.6
50°-60°	248.3	16.6
60°-70°	180.5	12.1
70°-80°	88.8	5.9
80°-90°	15.4	1.0
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°	417.7	27.9
0°-40°	685.3	45.8
0°-60°	1211.3	81.0
0°-90°	1496.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1496.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	535	535	535	535	535	
5°	536	530	534	532	536	51
15°	519	514	517	516	518	147
25°	483	478	481	480	481	223
35°	430	427	428	428	428	269
45°	362	360	360	360	360	279
55°	280	278	278	278	279	249
65°	183	184	183	183	182	181
75°	84	84	83	83	82	89
85°	11	11	11	11	10	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	535.0	535.0	535.0	535.0	535.0
2.5°	537.9	531.7	535.6	533.3	536.9
5°	536.3	530.0	534.0	532.0	535.6
7.5°	533.3	527.0	531.0	529.0	532.0
10°	530.0	523.4	527.7	525.7	528.7
12.5°	525.7	519.4	523.4	521.7	524.4
15°	519.4	513.5	517.1	515.8	517.8
17.5°	511.8	505.9	509.5	508.5	510.2
20°	503.6	498.0	501.6	500.6	502.3
22.5°	494.3	488.4	491.7	491.0	492.3
25°	483.1	477.8	481.1	480.1	481.4
27.5°	471.2	466.2	468.9	468.9	469.5
30°	458.3	453.7	456.3	456.3	456.7
32.5°	444.4	440.8	442.4	442.8	442.8
35°	429.6	426.6	427.9	428.2	428.2
37.5°	414.0	411.1	412.0	412.7	412.7
40°	397.5	394.9	395.5	396.2	395.9
42.5°	379.7	377.7	378.0	378.7	378.7
45°	361.5	359.8	359.8	360.5	360.5
47.5°	343.0	341.3	340.7	341.3	341.3
50°	322.8	321.2	320.5	321.2	321.2
52.5°	301.7	300.0	300.0	300.0	300.4
55°	279.9	278.2	277.6	278.2	278.6
57.5°	256.7	256.1	255.1	255.4	254.4
60°	232.0	232.0	231.0	231.6	231.0
62.5°	207.8	208.5	207.5	207.5	206.8
65°	183.1	183.7	182.7	182.7	182.1
67.5°	157.6	158.6	157.3	157.3	156.6
70°	131.2	133.2	131.8	132.2	131.5
72.5°	107.4	108.4	107.1	107.1	106.4
75°	83.6	84.3	82.9	83.3	82.3
77.5°	60.1	61.1	59.8	60.1	59.8
80°	40.3	40.6	39.7	40.0	39.3
82.5°	23.5	23.8	23.5	23.1	22.8
85°	10.6	10.9	10.6	10.6	10.2
87.5°	2.6	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)