

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: P973541

Luminaire Tested: FLR2-22-20-L930-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973541
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-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

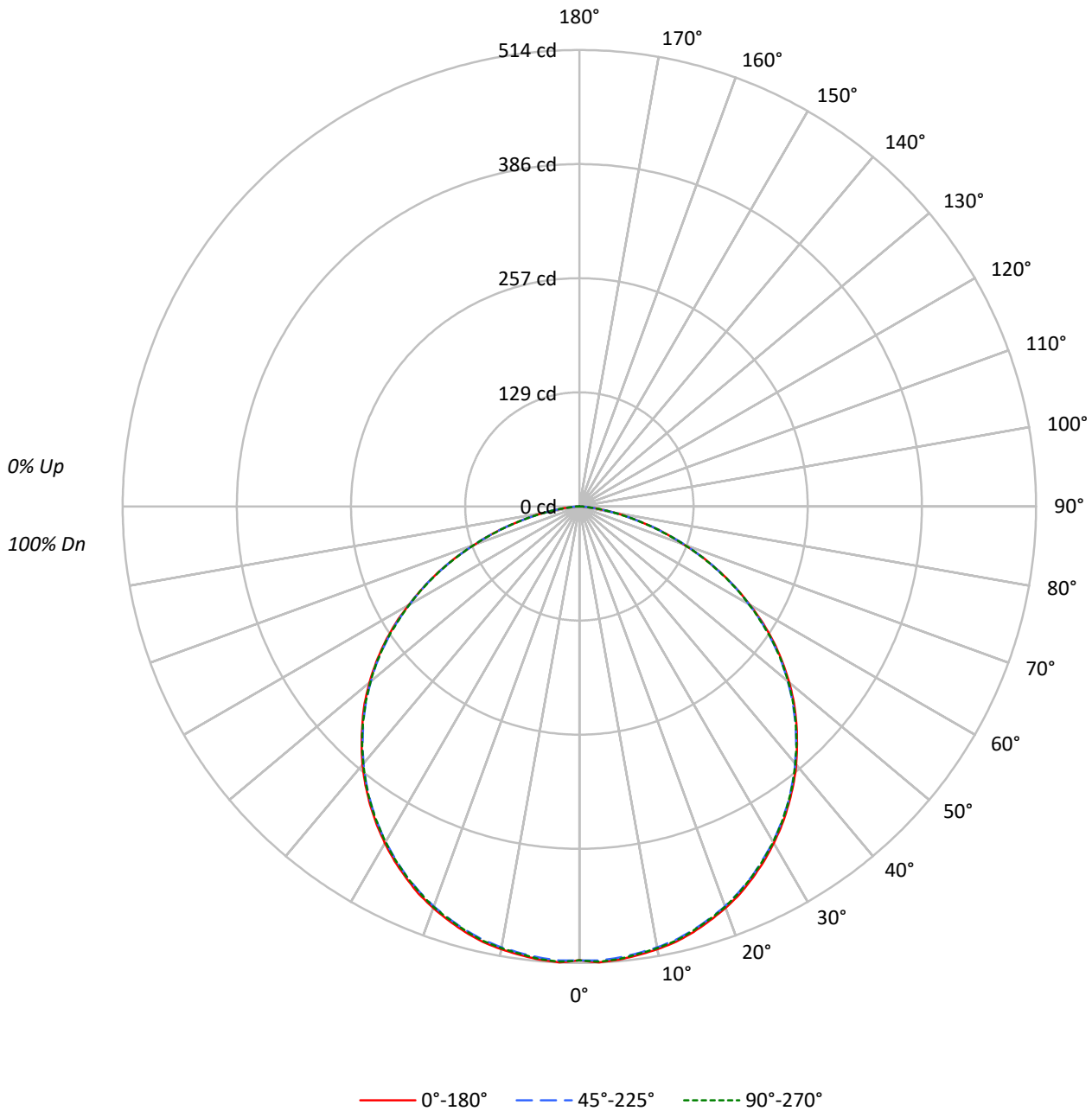
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1429.3 lumens
Efficiency: N/A
Efficacy: 94.7 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°	1375	1375	1375
5°	1384	1378	1382
10°	1383	1377	1380
15°	1382	1376	1378
20°	1378	1372	1374
25°	1370	1365	1366
30°	1360	1355	1356
35°	1348	1343	1344
40°	1334	1327	1329
45°	1314	1308	1311
50°	1291	1282	1284
55°	1255	1244	1248
60°	1193	1188	1188
65°	1114	1112	1107
70°	986	991	988
75°	831	823	817
80°	597	587	583
85°	312	312	303

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1314 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	3.4
10°-20°	139.2	9.7
20°-30°	211.5	14.8
30°-40°	255.6	17.9
40°-50°	265.3	18.6
50°-60°	237.2	16.6
60°-70°	172.5	12.1
70°-80°	84.8	5.9
80°-90°	14.7	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°	399.1	27.9
0°-40°	654.7	45.8
0°-60°	1157.3	81.0
0°-90°	1429.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1429.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	511	511	511	511	511	
5°	512	506	510	508	512	49
15°	496	491	494	493	495	140
25°	462	456	460	459	460	213
35°	410	408	409	409	409	257
45°	345	344	344	344	344	266
55°	267	266	265	266	266	238
65°	175	176	175	175	174	172
75°	80	80	79	80	79	85
85°	10	10	10	10	10	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	511.1	511.1	511.1	511.1	511.1
2.5°	513.9	507.9	511.7	509.5	513.0
5°	512.3	506.3	510.1	508.2	511.7
7.5°	509.5	503.5	507.3	505.4	508.2
10°	506.3	500.0	504.1	502.2	505.1
12.5°	502.2	496.2	500.0	498.5	501.0
15°	496.2	490.6	494.0	492.8	494.7
17.5°	489.0	483.3	486.8	485.8	487.4
20°	481.1	475.7	479.2	478.3	479.8
22.5°	472.3	466.6	469.7	469.1	470.4
25°	461.5	456.5	459.6	458.7	459.9
27.5°	450.2	445.4	447.9	447.9	448.6
30°	437.8	433.4	436.0	436.0	436.3
32.5°	424.6	421.1	422.7	423.0	423.0
35°	410.4	407.5	408.8	409.1	409.1
37.5°	395.5	392.7	393.7	394.3	394.3
40°	379.8	377.2	377.9	378.5	378.2
42.5°	362.7	360.8	361.1	361.8	361.8
45°	345.4	343.8	343.8	344.4	344.4
47.5°	327.7	326.1	325.5	326.1	326.1
50°	308.4	306.8	306.2	306.8	306.8
52.5°	288.2	286.6	286.6	286.6	287.0
55°	267.4	265.8	265.2	265.8	266.1
57.5°	245.3	244.7	243.7	244.0	243.1
60°	221.6	221.6	220.7	221.3	220.7
62.5°	198.6	199.2	198.2	198.2	197.6
65°	174.9	175.5	174.6	174.6	173.9
67.5°	150.6	151.5	150.3	150.3	149.6
70°	125.3	127.2	126.0	126.3	125.6
72.5°	102.6	103.5	102.3	102.3	101.6
75°	79.9	80.5	79.2	79.6	78.6
77.5°	57.5	58.4	57.1	57.5	57.1
80°	38.5	38.8	37.9	38.2	37.6
82.5°	22.4	22.7	22.4	22.1	21.8
85°	10.1	10.4	10.1	10.1	9.8
87.5°	2.5	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)