

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: P973525

Luminaire Tested: FLR2-22-20-L930-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973525
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

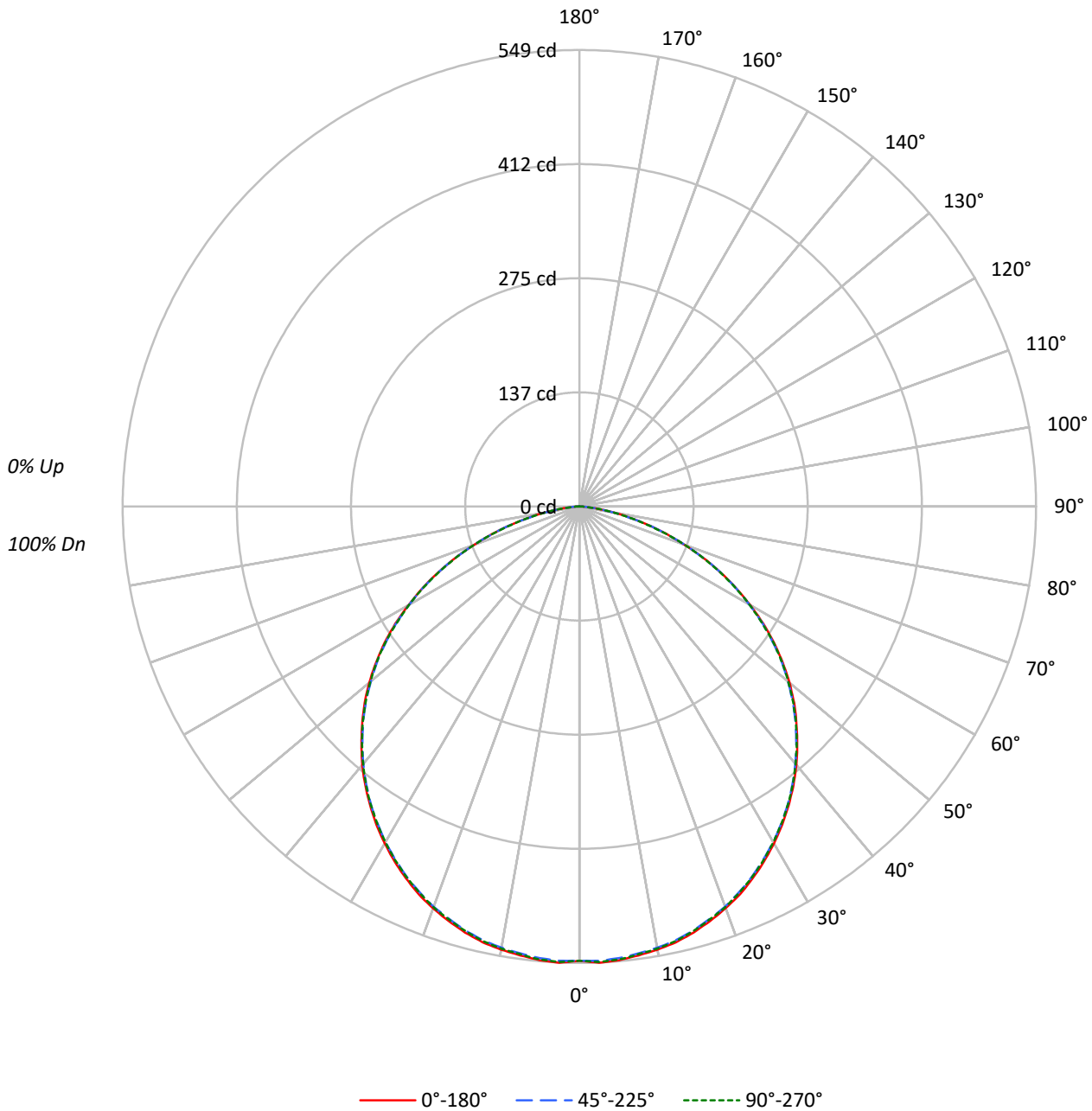
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1527.8 lumens
Efficiency: N/A
Efficacy: 101.2 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

TEST NUMBER: P973525
CATALOG NUMBER: FLR2-22-20-L930-CP080

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°	1470	1470	1470
5°	1479	1473	1478
10°	1479	1473	1475
15°	1478	1471	1473
20°	1473	1467	1469
25°	1465	1459	1460
30°	1454	1448	1449
35°	1441	1436	1437
40°	1426	1419	1420
45°	1405	1399	1401
50°	1380	1370	1373
55°	1341	1330	1335
60°	1275	1270	1270
65°	1190	1188	1184
70°	1054	1059	1057
75°	888	881	873
80°	638	628	623
85°	333	333	324

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1405 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	3.4
10°-20°	148.8	9.7
20°-30°	226.1	14.8
30°-40°	273.3	17.9
40°-50°	283.6	18.6
50°-60°	253.6	16.6
60°-70°	184.4	12.1
70°-80°	90.7	5.9
80°-90°	15.7	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°	426.6	27.9
0°-40°	699.9	45.8
0°-60°	1237.1	81.0
0°-90°	1527.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1527.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	546	546	546	546	546	
5°	548	541	545	543	547	52
15°	530	524	528	527	529	150
25°	493	488	491	490	492	227
35°	439	436	437	437	437	274
45°	369	368	368	368	368	285
55°	286	284	284	284	284	255
65°	187	188	187	187	186	184
75°	85	86	85	85	84	91
85°	11	11	11	11	10	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	546.3	546.3	546.3	546.3	546.3
2.5°	549.4	543.0	547.0	544.6	548.4
5°	547.7	541.3	545.3	543.3	547.0
7.5°	544.6	538.2	542.3	540.3	543.3
10°	541.3	534.5	538.9	536.9	539.9
12.5°	536.9	530.5	534.5	532.8	535.5
15°	530.5	524.4	528.1	526.8	528.8
17.5°	522.7	516.6	520.3	519.3	521.0
20°	514.3	508.5	512.3	511.2	512.9
22.5°	504.8	498.8	502.1	501.5	502.8
25°	493.4	488.0	491.3	490.3	491.7
27.5°	481.2	476.1	478.8	478.8	479.5
30°	468.0	463.3	466.0	466.0	466.4
32.5°	453.9	450.2	451.8	452.2	452.2
35°	438.7	435.6	437.0	437.3	437.3
37.5°	422.8	419.8	420.8	421.5	421.5
40°	406.0	403.3	403.9	404.6	404.3
42.5°	387.7	385.7	386.0	386.7	386.7
45°	369.2	367.5	367.5	368.2	368.2
47.5°	350.3	348.6	347.9	348.6	348.6
50°	329.7	328.0	327.3	328.0	328.0
52.5°	308.1	306.4	306.4	306.4	306.7
55°	285.8	284.1	283.5	284.1	284.5
57.5°	262.2	261.5	260.5	260.8	259.8
60°	236.9	236.9	235.9	236.6	235.9
62.5°	212.3	212.9	211.9	211.9	211.2
65°	186.9	187.6	186.6	186.6	185.9
67.5°	161.0	162.0	160.6	160.6	160.0
70°	134.0	136.0	134.6	135.0	134.3
72.5°	109.7	110.7	109.3	109.3	108.7
75°	85.4	86.0	84.7	85.0	84.0
77.5°	61.4	62.4	61.1	61.4	61.1
80°	41.2	41.5	40.5	40.8	40.2
82.5°	24.0	24.3	24.0	23.6	23.3
85°	10.8	11.1	10.8	10.8	10.5
87.5°	2.7	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)