

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: P973501

Luminaire Tested: FLR2-22-20-L830-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973501
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-L830-CP125
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 1
Light Source:
Ballast/Driver: -

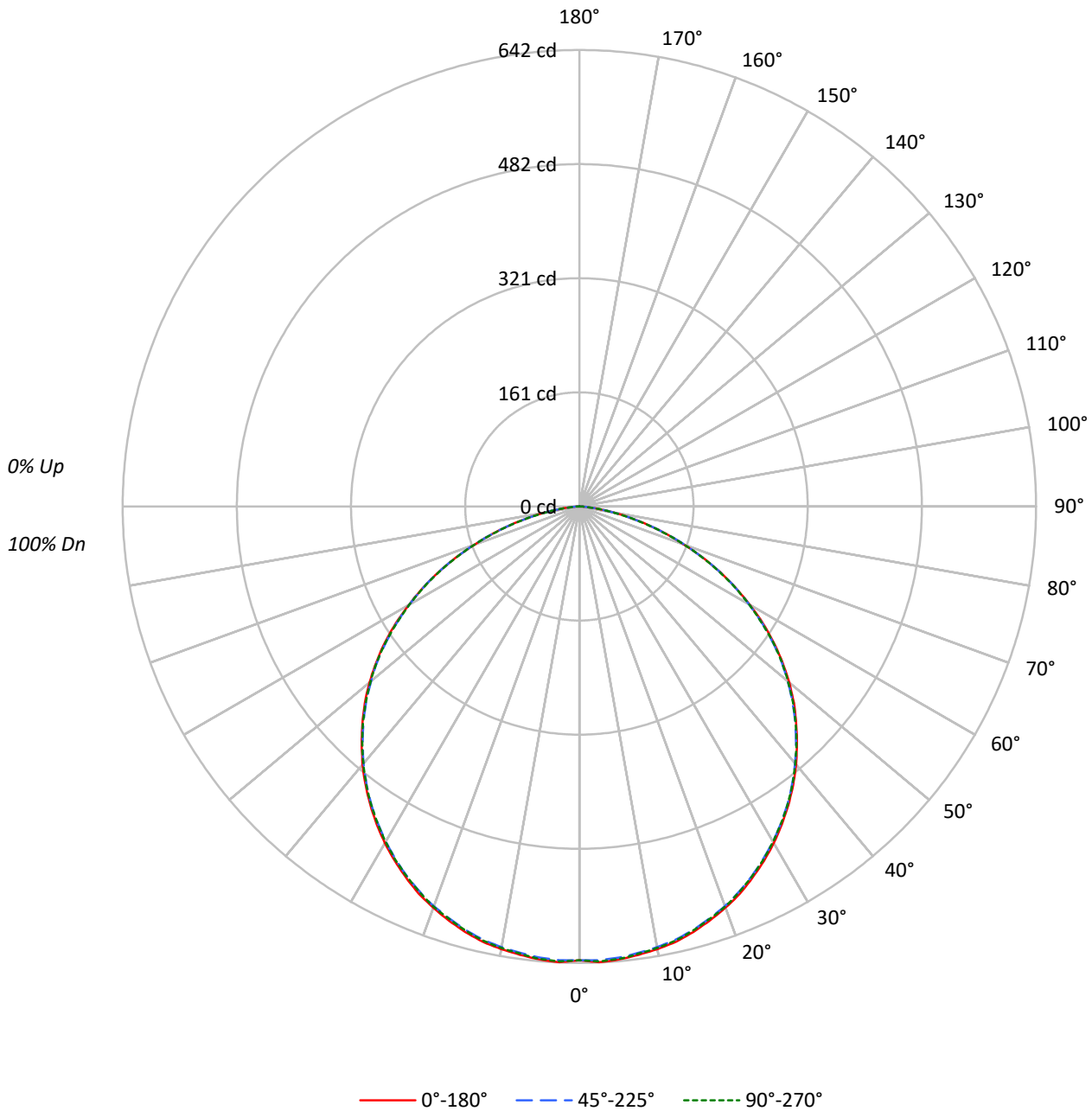
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1784.5 lumens
Efficiency: N/A
Efficacy: 118.2 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

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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°	1717	1717	1717
5°	1728	1720	1726
10°	1727	1720	1723
15°	1726	1718	1721
20°	1720	1713	1716
25°	1711	1704	1705
30°	1699	1691	1693
35°	1683	1677	1678
40°	1665	1657	1659
45°	1641	1633	1636
50°	1612	1600	1604
55°	1566	1553	1559
60°	1489	1483	1483
65°	1390	1388	1383
70°	1231	1238	1234
75°	1037	1028	1020
80°	745	733	727
85°	389	389	377

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1641 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	3.4
10°-20°	173.8	9.7
20°-30°	264.1	14.8
30°-40°	319.2	17.9
40°-50°	331.3	18.6
50°-60°	296.2	16.6
60°-70°	215.3	12.1
70°-80°	105.9	5.9
80°-90°	18.4	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°	498.2	27.9
0°-40°	817.4	45.8
0°-60°	1444.9	81.0
0°-90°	1784.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1784.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	638	638	638	638	638	
5°	640	632	637	634	639	61
15°	620	612	617	615	618	175
25°	576	570	574	573	574	266
35°	512	509	510	511	511	321
45°	431	429	429	430	430	333
55°	334	332	331	332	332	298
65°	218	219	218	218	217	215
75°	100	100	99	99	98	106
85°	13	13	13	13	12	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	638.1	638.1	638.1	638.1	638.1
2.5°	641.6	634.1	638.9	636.1	640.5
5°	639.7	632.2	636.9	634.5	638.9
7.5°	636.1	628.6	633.4	631.0	634.5
10°	632.2	624.3	629.4	627.1	630.6
12.5°	627.1	619.6	624.3	622.3	625.5
15°	619.6	612.5	616.8	615.2	617.6
17.5°	610.5	603.4	607.7	606.6	608.5
20°	600.6	593.9	598.3	597.1	599.1
22.5°	589.6	582.5	586.5	585.7	587.2
25°	576.2	569.9	573.8	572.7	574.2
27.5°	562.0	556.1	559.3	559.3	560.1
30°	546.7	541.1	544.3	544.3	544.7
32.5°	530.1	525.8	527.7	528.1	528.1
35°	512.4	508.8	510.4	510.8	510.8
37.5°	493.8	490.3	491.5	492.3	492.3
40°	474.1	471.0	471.8	472.6	472.2
42.5°	452.8	450.5	450.9	451.7	451.7
45°	431.2	429.2	429.2	430.0	430.0
47.5°	409.1	407.1	406.3	407.1	407.1
50°	385.1	383.1	382.3	383.1	383.1
52.5°	359.8	357.9	357.9	357.9	358.3
55°	333.8	331.9	331.1	331.9	332.2
57.5°	306.2	305.4	304.3	304.7	303.5
60°	276.7	276.7	275.5	276.3	275.5
62.5°	247.9	248.7	247.5	247.5	246.7
65°	218.3	219.1	218.0	218.0	217.2
67.5°	188.0	189.2	187.6	187.6	186.8
70°	156.5	158.8	157.3	157.6	156.9
72.5°	128.1	129.3	127.7	127.7	126.9
75°	99.7	100.5	98.9	99.3	98.1
77.5°	71.7	72.9	71.3	71.7	71.3
80°	48.1	48.5	47.3	47.7	46.9
82.5°	28.0	28.4	28.0	27.6	27.2
85°	12.6	13.0	12.6	12.6	12.2
87.5°	3.2	3.2	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)