

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: P973565

Luminaire Tested: FLR2-22-20-L835-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973565
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-L835-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

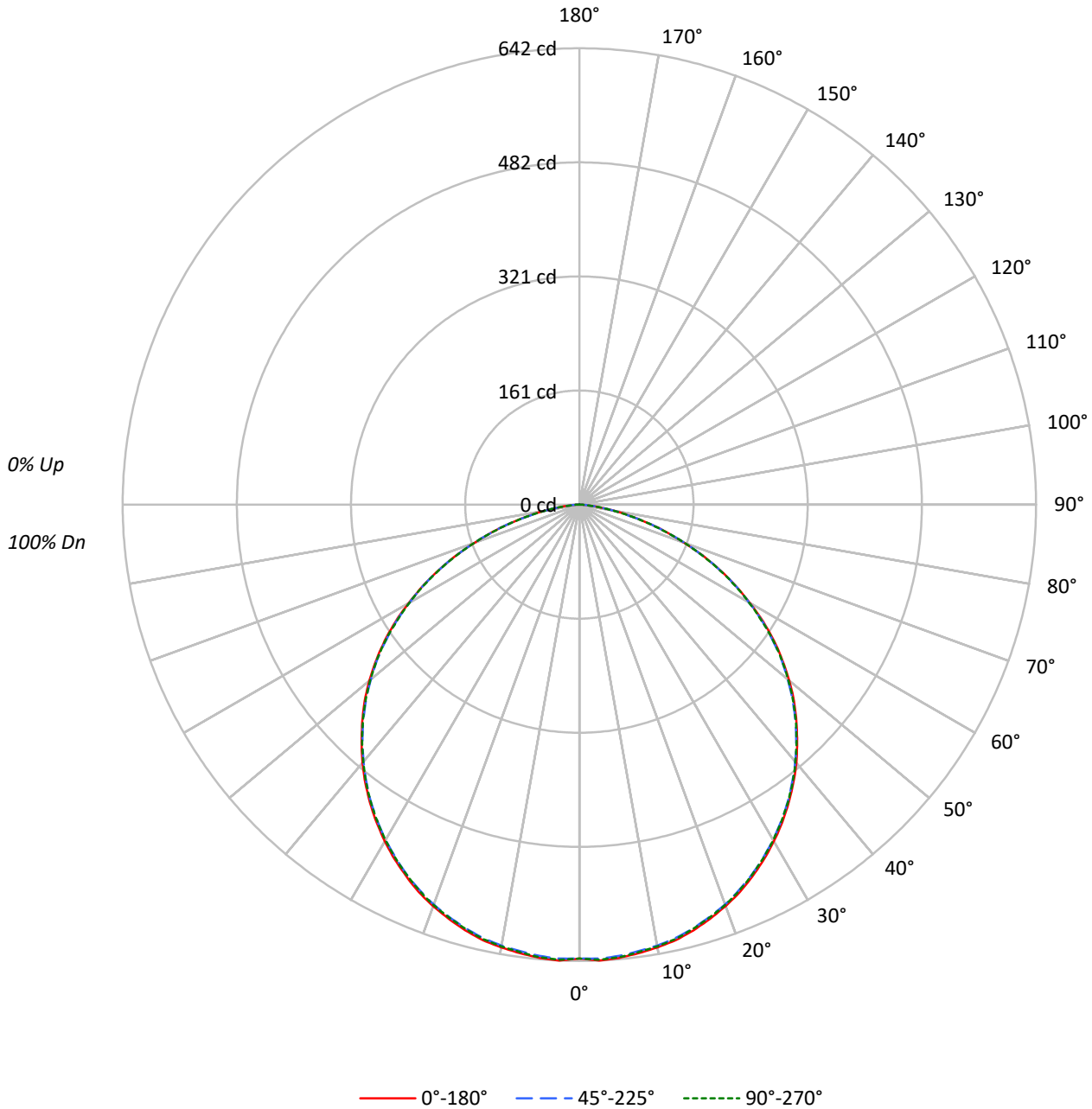
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1785.7 lumens
Efficiency: N/A
Efficacy: 118.3 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										
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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44														
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39														
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	39	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	40	34	29	27						27														
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1718	1718	1718
5°	1729	1722	1727
10°	1729	1721	1724
15°	1727	1719	1722
20°	1721	1714	1717
25°	1712	1705	1706
30°	1700	1693	1694
35°	1684	1678	1679
40°	1667	1658	1660
45°	1642	1635	1638
50°	1613	1602	1605
55°	1567	1554	1560
60°	1490	1484	1484
65°	1391	1389	1384
70°	1232	1238	1235
75°	1038	1029	1021
80°	745	733	727
85°	389	389	377

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1642 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	3.4
10°-20°	173.9	9.7
20°-30°	264.2	14.8
30°-40°	319.4	17.9
40°-50°	331.5	18.6
50°-60°	296.4	16.6
60°-70°	215.5	12.1
70°-80°	106.0	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°	498.6	27.9
0°-40°	818.0	45.8
0°-60°	1445.9	81.0
0°-90°	1785.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1785.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	638	638	638	638	638	
5°	640	633	637	635	639	61
15°	620	613	617	616	618	175
25°	577	570	574	573	575	266
35°	513	509	511	511	511	321
45°	432	430	430	430	430	333
55°	334	332	331	332	332	298
65°	218	219	218	218	217	215
75°	100	101	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°	638.5	638.5	638.5	638.5	638.5
2.5°	642.1	634.6	639.3	636.6	640.9
5°	640.1	632.6	637.4	635.0	639.3
7.5°	636.6	629.1	633.8	631.4	635.0
10°	632.6	624.7	629.9	627.5	631.0
12.5°	627.5	620.0	624.7	622.8	625.9
15°	620.0	612.9	617.2	615.7	618.0
17.5°	610.9	603.8	608.2	607.0	609.0
20°	601.1	594.4	598.7	597.5	599.5
22.5°	590.0	582.9	586.9	586.1	587.7
25°	576.6	570.3	574.2	573.1	574.6
27.5°	562.4	556.5	559.7	559.7	560.4
30°	547.0	541.5	544.7	544.7	545.1
32.5°	530.5	526.1	528.1	528.5	528.5
35°	512.7	509.2	510.7	511.1	511.1
37.5°	494.2	490.6	491.8	492.6	492.6
40°	474.5	471.3	472.1	472.9	472.5
42.5°	453.2	450.8	451.2	452.0	452.0
45°	431.5	429.5	429.5	430.3	430.3
47.5°	409.4	407.4	406.6	407.4	407.4
50°	385.3	383.4	382.6	383.4	383.4
52.5°	360.1	358.1	358.1	358.1	358.5
55°	334.1	332.1	331.3	332.1	332.5
57.5°	306.4	305.7	304.5	304.9	303.7
60°	276.9	276.9	275.7	276.5	275.7
62.5°	248.1	248.9	247.7	247.7	246.9
65°	218.5	219.3	218.1	218.1	217.3
67.5°	188.1	189.3	187.7	187.7	186.9
70°	156.6	158.9	157.4	157.8	157.0
72.5°	128.2	129.4	127.8	127.8	127.0
75°	99.8	100.6	99.0	99.4	98.2
77.5°	71.8	73.0	71.4	71.8	71.4
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)