

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: P973561

Luminaire Tested: FLR2-22-20-L835-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973561
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

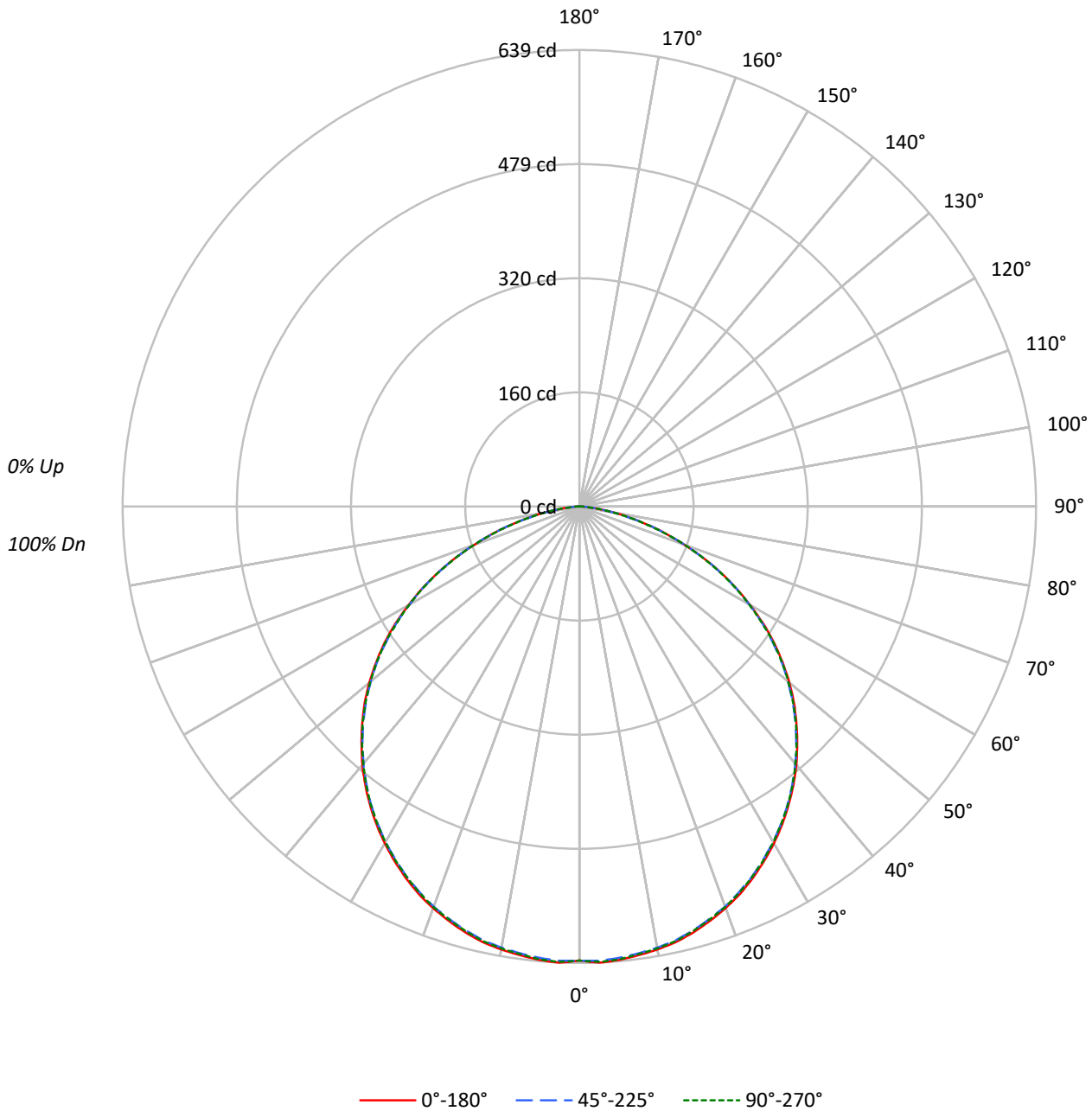
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1777.8 lumens
Efficiency: N/A
Efficacy: 117.7 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										
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°	1711	1711	1711
5°	1722	1714	1719
10°	1721	1714	1717
15°	1720	1712	1714
20°	1714	1707	1709
25°	1705	1697	1699
30°	1692	1685	1686
35°	1677	1670	1672
40°	1659	1651	1652
45°	1635	1627	1630
50°	1606	1595	1598
55°	1560	1547	1553
60°	1483	1477	1477
65°	1385	1382	1378
70°	1227	1233	1230
75°	1032	1025	1017
80°	742	730	724
85°	389	389	377

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1635 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.2	3.4
10°-20°	173.1	9.7
20°-30°	263.1	14.8
30°-40°	318.0	17.9
40°-50°	330.0	18.6
50°-60°	295.1	16.6
60°-70°	214.5	12.1
70°-80°	105.5	5.9
80°-90°	18.3	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°	496.4	27.9
0°-40°	814.4	45.8
0°-60°	1439.5	81.0
0°-90°	1777.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1777.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	636	636	636	636	636	
5°	637	630	634	632	636	61
15°	617	610	614	613	615	174
25°	574	568	572	570	572	265
35°	510	507	508	509	509	319
45°	430	428	428	428	428	331
55°	333	331	330	331	331	296
65°	218	218	217	217	216	215
75°	99	100	99	99	98	105
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°	635.7	635.7	635.7	635.7	635.7
2.5°	639.3	631.8	636.5	633.8	638.1
5°	637.3	629.8	634.5	632.2	636.5
7.5°	633.8	626.3	631.0	628.7	632.2
10°	629.8	622.0	627.1	624.7	628.3
12.5°	624.7	617.3	622.0	620.0	623.2
15°	617.3	610.2	614.5	612.9	615.3
17.5°	608.2	601.2	605.5	604.3	606.3
20°	598.4	591.7	596.1	594.9	596.8
22.5°	587.4	580.4	584.3	583.5	585.1
25°	574.1	567.8	571.7	570.5	572.1
27.5°	559.9	554.0	557.2	557.2	558.0
30°	544.6	539.1	542.3	542.3	542.7
32.5°	528.1	523.8	525.8	526.2	526.2
35°	510.5	506.9	508.5	508.9	508.9
37.5°	492.0	488.5	489.6	490.4	490.4
40°	472.4	469.2	470.0	470.8	470.4
42.5°	451.2	448.8	449.2	450.0	450.0
45°	429.6	427.6	427.6	428.4	428.4
47.5°	407.6	405.6	404.8	405.6	405.6
50°	383.6	381.7	380.9	381.7	381.7
52.5°	358.5	356.5	356.5	356.5	356.9
55°	332.6	330.6	329.8	330.6	331.0
57.5°	305.1	304.3	303.1	303.5	302.3
60°	275.6	275.6	274.5	275.3	274.5
62.5°	247.0	247.8	246.6	246.6	245.8
65°	217.5	218.3	217.1	217.1	216.4
67.5°	187.3	188.5	186.9	186.9	186.1
70°	155.9	158.2	156.7	157.1	156.3
72.5°	127.6	128.8	127.2	127.2	126.4
75°	99.3	100.1	98.6	99.0	97.8
77.5°	71.5	72.6	71.1	71.5	71.1
80°	47.9	48.3	47.1	47.5	46.7
82.5°	27.9	28.3	27.9	27.5	27.1
85°	12.6	13.0	12.6	12.6	12.2
87.5°	3.1	3.1	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)