

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: P973573

Luminaire Tested: FLR2-22-20-L835-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973573
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

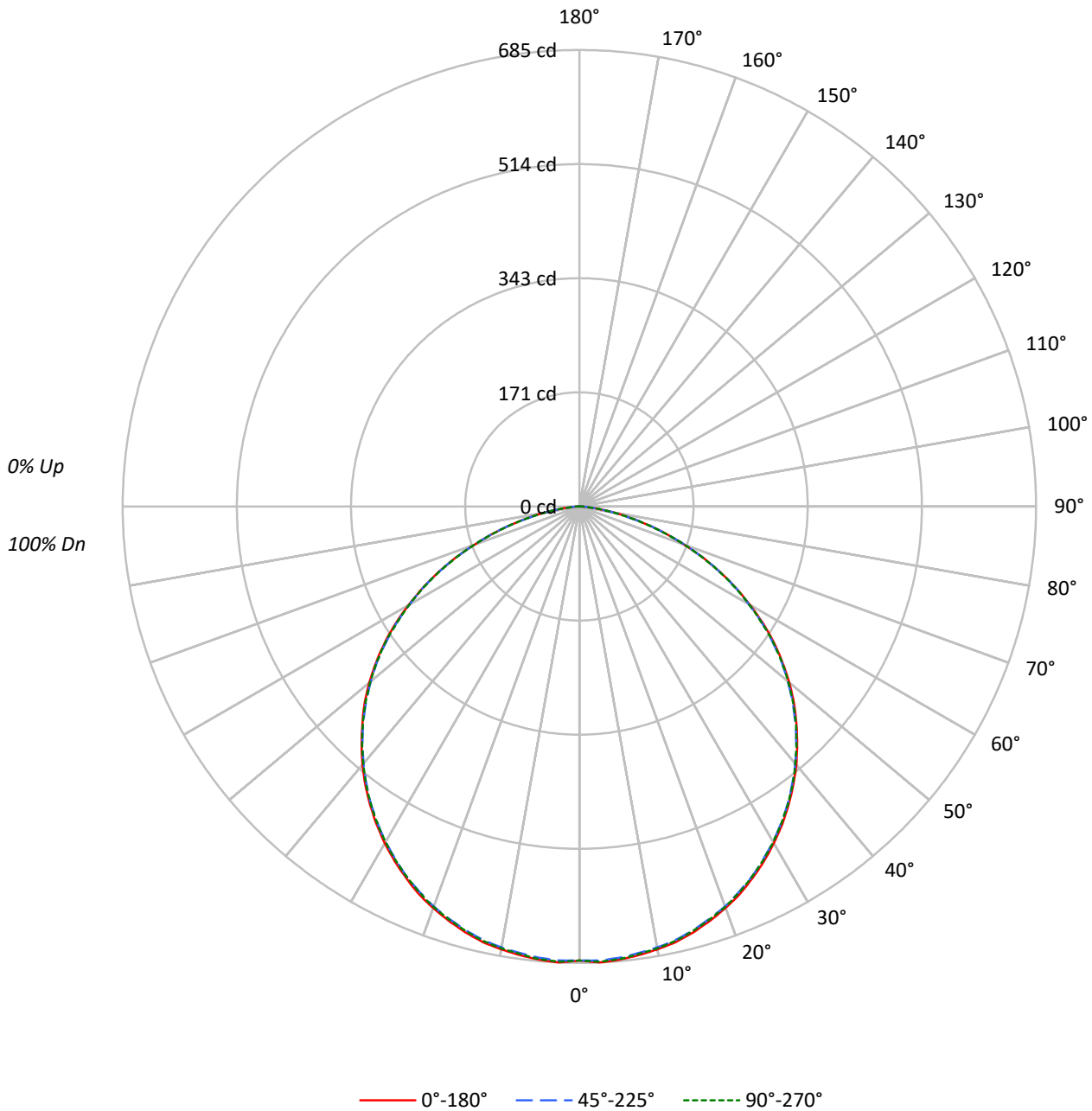
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1905.2 lumens
Efficiency: N/A
Efficacy: 126.2 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°	1833	1833	1833
5°	1845	1837	1843
10°	1844	1836	1840
15°	1843	1835	1837
20°	1836	1829	1832
25°	1827	1819	1820
30°	1813	1806	1807
35°	1797	1790	1791
40°	1778	1769	1771
45°	1752	1744	1747
50°	1721	1709	1712
55°	1672	1658	1664
60°	1590	1583	1583
65°	1484	1482	1477
70°	1315	1321	1318
75°	1107	1098	1090
80°	795	783	776
85°	417	417	401

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1752 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	3.4
10°-20°	185.5	9.7
20°-30°	281.9	14.8
30°-40°	340.7	17.9
40°-50°	353.7	18.6
50°-60°	316.2	16.6
60°-70°	229.9	12.1
70°-80°	113.1	5.9
80°-90°	19.6	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°	531.9	27.9
0°-40°	872.7	45.8
0°-60°	1542.6	81.0
0°-90°	1905.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1905.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	683	675	680	678	682	65
15°	662	654	658	657	659	187
25°	615	608	613	611	613	284
35°	547	543	545	545	545	342
45°	460	458	458	459	459	355
55°	356	354	354	354	355	318
65°	233	234	233	233	232	230
75°	106	107	106	106	105	113
85°	14	14	14	14	13	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	681.3	681.3	681.3	681.3	681.3
2.5°	685.0	677.1	682.1	679.2	683.8
5°	682.9	674.9	680.0	677.5	682.1
7.5°	679.2	671.2	676.2	673.7	677.5
10°	674.9	666.5	672.0	669.5	673.3
12.5°	669.5	661.5	666.5	664.4	667.8
15°	661.5	653.9	658.5	656.9	659.4
17.5°	651.8	644.2	648.9	647.6	649.7
20°	641.3	634.1	638.8	637.5	639.6
22.5°	629.5	621.9	626.1	625.3	627.0
25°	615.2	608.5	612.7	611.4	613.1
27.5°	600.0	593.7	597.1	597.1	597.9
30°	583.6	577.7	581.1	581.1	581.5
32.5°	566.0	561.3	563.4	563.9	563.9
35°	547.0	543.2	544.9	545.3	545.3
37.5°	527.2	523.5	524.7	525.6	525.6
40°	506.2	502.8	503.7	504.5	504.1
42.5°	483.5	481.0	481.4	482.2	482.2
45°	460.3	458.2	458.2	459.1	459.1
47.5°	436.8	434.7	433.8	434.7	434.7
50°	411.1	409.0	408.2	409.0	409.0
52.5°	384.2	382.1	382.1	382.1	382.5
55°	356.4	354.3	353.5	354.3	354.7
57.5°	327.0	326.1	324.8	325.3	324.0
60°	295.4	295.4	294.1	295.0	294.1
62.5°	264.7	265.5	264.3	264.3	263.4
65°	233.1	234.0	232.7	232.7	231.9
67.5°	200.7	202.0	200.3	200.3	199.5
70°	167.1	169.6	167.9	168.3	167.5
72.5°	136.8	138.0	136.3	136.3	135.5
75°	106.5	107.3	105.6	106.0	104.8
77.5°	76.6	77.8	76.2	76.6	76.2
80°	51.3	51.8	50.5	50.9	50.1
82.5°	29.9	30.3	29.9	29.5	29.0
85°	13.5	13.9	13.5	13.5	13.0
87.5°	3.4	3.4	3.4	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)