

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: P973553

Luminaire Tested: FLR2-22-20-L835-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973553
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

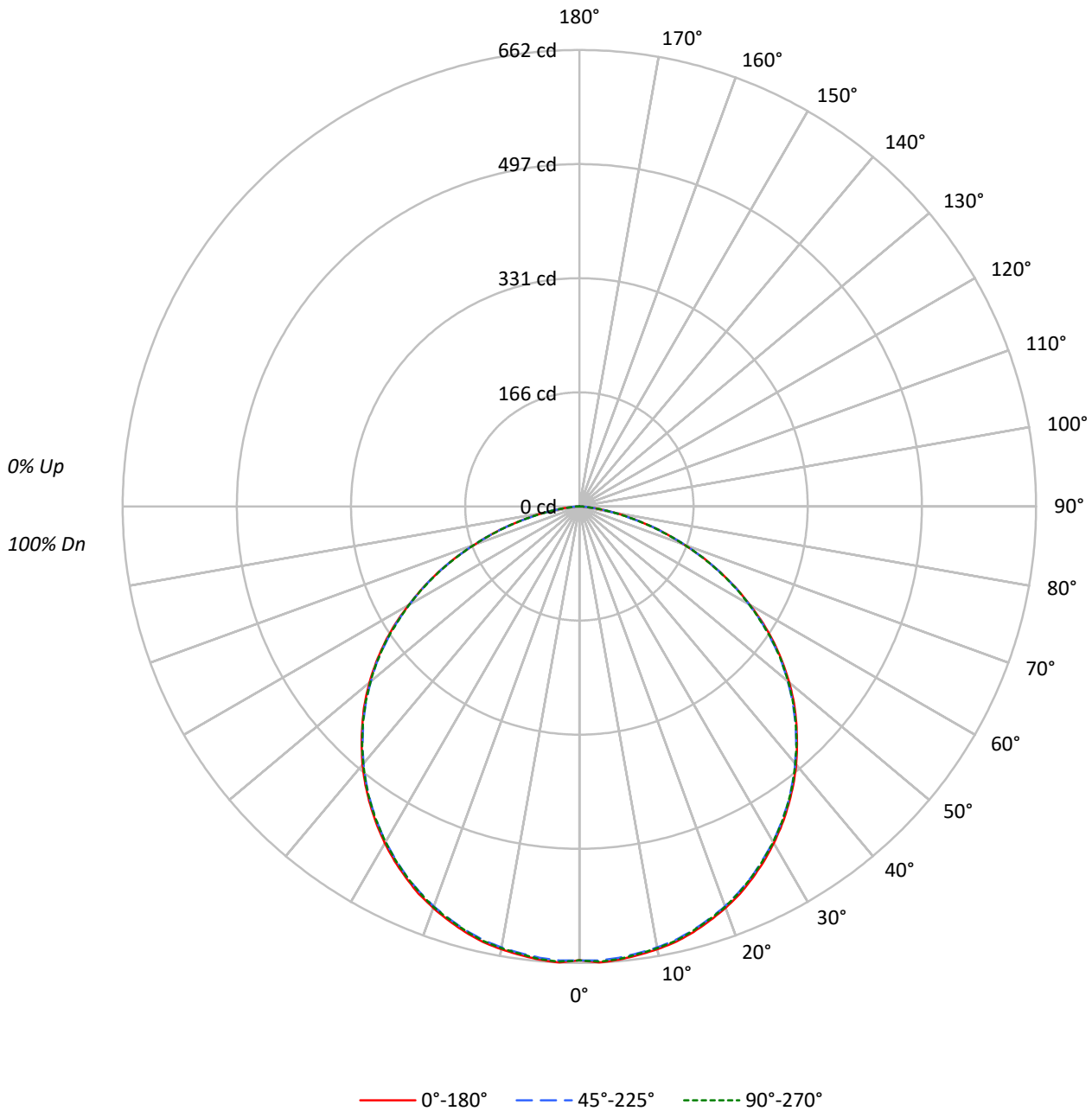
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1840.8 lumens
Efficiency: N/A
Efficacy: 121.9 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°	1771	1771	1771
5°	1783	1775	1780
10°	1782	1774	1777
15°	1780	1773	1775
20°	1774	1767	1770
25°	1765	1758	1759
30°	1752	1745	1746
35°	1736	1730	1731
40°	1718	1710	1711
45°	1693	1685	1688
50°	1663	1651	1654
55°	1616	1602	1608
60°	1536	1530	1530
65°	1434	1431	1426
70°	1270	1276	1273
75°	1070	1061	1052
80°	769	756	750
85°	401	401	389

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1693 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	3.4
10°-20°	179.2	9.7
20°-30°	272.4	14.8
30°-40°	329.2	17.9
40°-50°	341.7	18.6
50°-60°	305.5	16.6
60°-70°	222.1	12.1
70°-80°	109.2	5.9
80°-90°	19.0	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°	514.0	27.9
0°-40°	843.2	45.8
0°-60°	1490.5	81.0
0°-90°	1840.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1840.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	658	658	658	658	658	
5°	660	652	657	655	659	63
15°	639	632	636	635	637	180
25°	594	588	592	591	592	274
35°	528	525	526	527	527	331
45°	445	443	443	444	444	343
55°	344	342	342	342	343	307
65°	225	226	225	225	224	222
75°	103	104	102	102	101	109
85°	13	13	13	13	13	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	658.2	658.2	658.2	658.2	658.2
2.5°	661.9	654.2	659.0	656.2	660.7
5°	659.9	652.1	657.0	654.6	659.0
7.5°	656.2	648.5	653.4	650.9	654.6
10°	652.1	644.0	649.3	646.8	650.5
12.5°	646.8	639.1	644.0	642.0	645.2
15°	639.1	631.8	636.3	634.7	637.1
17.5°	629.8	622.5	626.9	625.7	627.7
20°	619.6	612.7	617.2	615.9	618.0
22.5°	608.2	600.9	605.0	604.2	605.8
25°	594.4	587.9	592.0	590.7	592.4
27.5°	579.8	573.7	576.9	576.9	577.7
30°	563.9	558.2	561.5	561.5	561.9
32.5°	546.8	542.4	544.4	544.8	544.8
35°	528.5	524.9	526.5	526.9	526.9
37.5°	509.4	505.8	507.0	507.8	507.8
40°	489.1	485.8	486.7	487.5	487.1
42.5°	467.1	464.7	465.1	465.9	465.9
45°	444.8	442.8	442.8	443.6	443.6
47.5°	422.0	420.0	419.2	420.0	420.0
50°	397.2	395.2	394.4	395.2	395.2
52.5°	371.2	369.2	369.2	369.2	369.6
55°	344.4	342.3	341.5	342.3	342.7
57.5°	315.9	315.1	313.9	314.3	313.1
60°	285.4	285.4	284.2	285.0	284.2
62.5°	255.7	256.5	255.3	255.3	254.5
65°	225.2	226.1	224.8	224.8	224.0
67.5°	193.9	195.2	193.5	193.5	192.7
70°	161.4	163.8	162.2	162.6	161.8
72.5°	132.1	133.4	131.7	131.7	130.9
75°	102.9	103.7	102.0	102.5	101.2
77.5°	74.0	75.2	73.6	74.0	73.6
80°	49.6	50.0	48.8	49.2	48.4
82.5°	28.9	29.3	28.9	28.5	28.1
85°	13.0	13.4	13.0	13.0	12.6
87.5°	3.3	3.3	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)