

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: P973538

Luminaire Tested: FLR2-22-25-L930-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973538
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: FLR2-22-25-L930-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

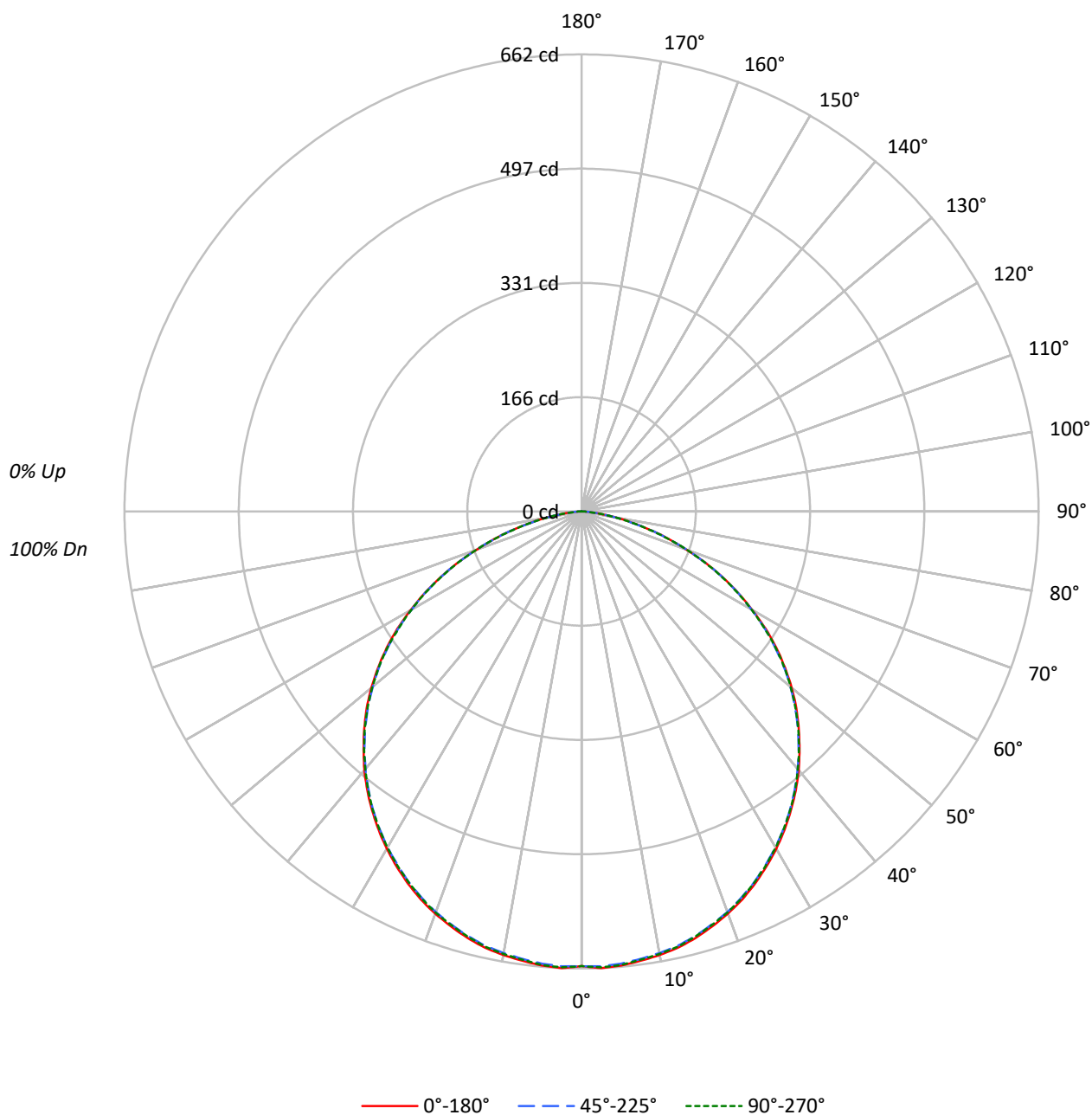
Lumens per Lamp: N/A
Luminaire Lumens: 1841.8 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 18.9
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				0
RW	70	50	30	10	70	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		100
1	109	105	101	97	107	102	99	95	98	95	92		94	92	89		85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		60
4	83	71	63	56	81	70	62	55	67	60	55		65	59	54		51
5	76	64	55	48	74	62	54	48	60	53	47		58	52	47		44
6	71	57	48	42	69	56	48	42	54	47	41		53	46	41		39
7	65	52	43	37	64	51	43	37	50	42	37		48	41	36		34
8	61	47	39	33	59	47	39	33	45	38	33		44	37	32		30
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		27
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1772	1772	1772
5°	1783	1776	1781
10°	1783	1775	1779
15°	1782	1774	1776
20°	1775	1768	1771
25°	1766	1759	1760
30°	1753	1746	1747
35°	1737	1731	1732
40°	1719	1710	1712
45°	1694	1686	1689
50°	1664	1652	1655
55°	1616	1603	1609
60°	1537	1530	1530
65°	1435	1433	1427
70°	1271	1277	1274
75°	1070	1062	1053
80°	769	756	750
85°	401	401	389

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1694 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	3.4
10°-20°	179.3	9.7
20°-30°	272.5	14.8
30°-40°	329.4	17.9
40°-50°	341.9	18.6
50°-60°	305.7	16.6
60°-70°	222.3	12.1
70°-80°	109.3	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°	514.2	27.9
0°-40°	843.7	45.8
0°-60°	1491.3	81.0
0°-90°	1841.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1841.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	659	659	659	659	659	
5°	660	652	657	655	659	63
15°	640	632	637	635	637	180
25°	595	588	592	591	593	274
35°	529	525	527	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°	658.6	658.6	658.6	658.6	658.6
2.5°	662.2	654.5	659.4	656.5	661.0
5°	660.2	652.5	657.4	654.9	659.4
7.5°	656.5	648.8	653.7	651.3	654.9
10°	652.5	644.3	649.6	647.2	650.9
12.5°	647.2	639.5	644.3	642.3	645.6
15°	639.5	632.1	636.6	635.0	637.4
17.5°	630.1	622.8	627.3	626.0	628.1
20°	619.9	613.0	617.5	616.3	618.3
22.5°	608.5	601.2	605.3	604.5	606.1
25°	594.7	588.2	592.3	591.1	592.7
27.5°	580.1	574.0	577.2	577.2	578.0
30°	564.2	558.5	561.8	561.8	562.2
32.5°	547.1	542.6	544.7	545.1	545.1
35°	528.8	525.2	526.8	527.2	527.2
37.5°	509.7	506.0	507.3	508.1	508.1
40°	489.4	486.1	486.9	487.7	487.3
42.5°	467.4	465.0	465.4	466.2	466.2
45°	445.0	443.0	443.0	443.8	443.8
47.5°	422.2	420.2	419.4	420.2	420.2
50°	397.4	395.4	394.6	395.4	395.4
52.5°	371.4	369.4	369.4	369.4	369.8
55°	344.5	342.5	341.7	342.5	342.9
57.5°	316.1	315.3	314.0	314.4	313.2
60°	285.6	285.6	284.3	285.2	284.3
62.5°	255.9	256.7	255.5	255.5	254.6
65°	225.4	226.2	225.0	225.0	224.1
67.5°	194.0	195.3	193.6	193.6	192.8
70°	161.5	163.9	162.3	162.7	161.9
72.5°	132.2	133.4	131.8	131.8	131.0
75°	102.9	103.7	102.1	102.5	101.3
77.5°	74.0	75.3	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)