

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: P973654

Luminaire Tested: FLR2-22-25-L940-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973654
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-L940-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

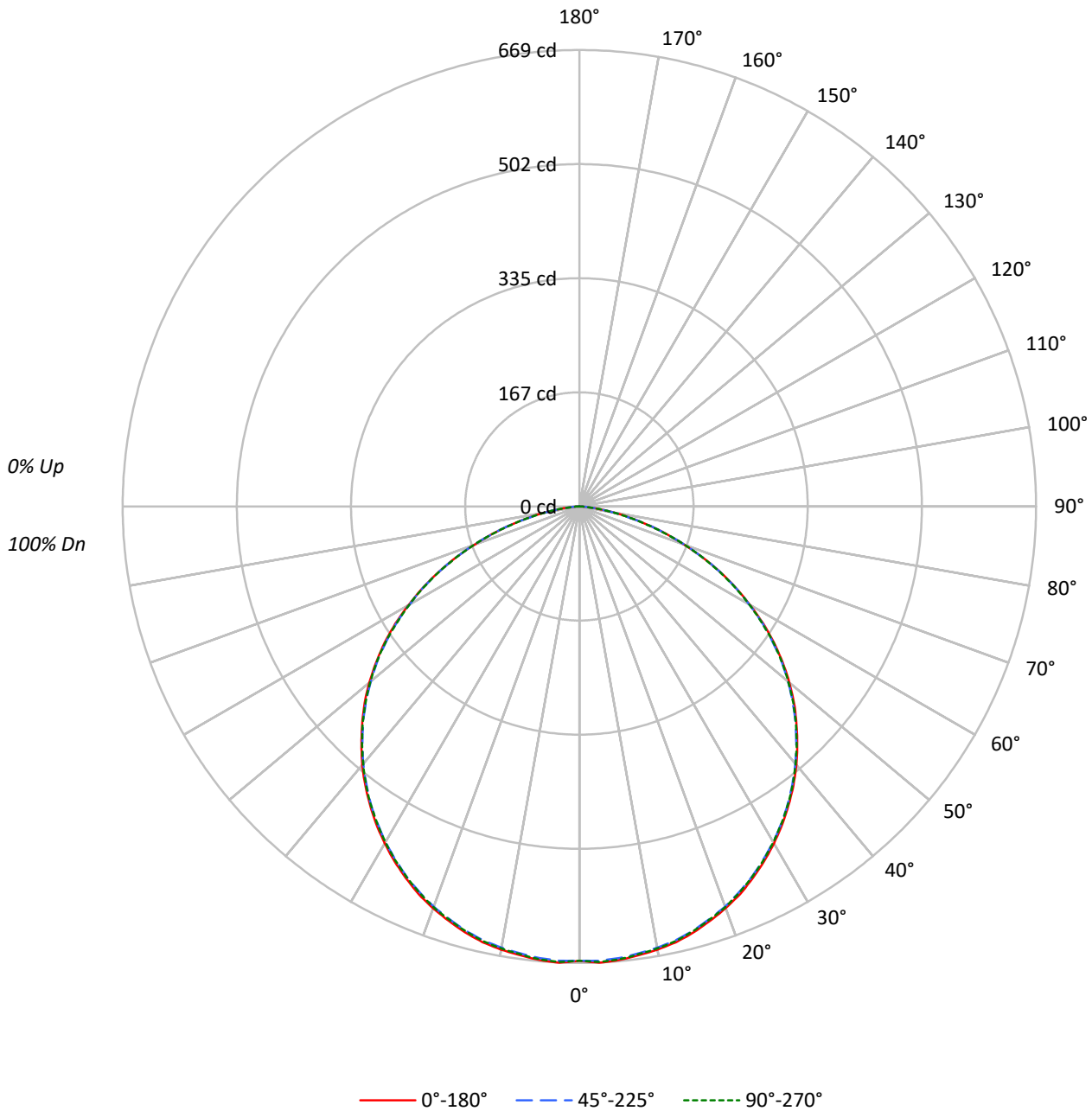
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1861.7 lumens
Efficiency: N/A
Efficacy: 98.5 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										
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°	1791	1791	1791
5°	1803	1795	1800
10°	1802	1794	1798
15°	1801	1793	1795
20°	1794	1788	1790
25°	1785	1778	1779
30°	1772	1764	1766
35°	1756	1749	1751
40°	1738	1729	1730
45°	1712	1704	1707
50°	1682	1670	1673
55°	1634	1620	1626
60°	1553	1547	1547
65°	1450	1448	1443
70°	1284	1291	1288
75°	1081	1073	1065
80°	778	764	758
85°	408	408	392

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1712 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	3.4
10°-20°	181.3	9.7
20°-30°	275.5	14.8
30°-40°	333.0	17.9
40°-50°	345.6	18.6
50°-60°	309.0	16.6
60°-70°	224.7	12.1
70°-80°	110.5	5.9
80°-90°	19.2	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°	519.8	27.9
0°-40°	852.8	45.8
0°-60°	1507.4	81.0
0°-90°	1861.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1861.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	667	660	664	662	666	63
15°	646	639	644	642	644	182
25°	601	595	599	597	599	277
35°	534	531	532	533	533	334
45°	450	448	448	449	449	347
55°	348	346	345	346	347	310
65°	228	229	227	227	227	225
75°	104	105	103	104	102	110
85°	13	14	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°	665.7	665.7	665.7	665.7	665.7
2.5°	669.4	661.6	666.5	663.6	668.2
5°	667.3	659.5	664.5	662.0	666.5
7.5°	663.6	655.8	660.8	658.3	662.0
10°	659.5	651.3	656.7	654.2	657.9
12.5°	654.2	646.4	651.3	649.3	652.5
15°	646.4	639.0	643.5	641.9	644.3
17.5°	636.9	629.5	634.0	632.8	634.9
20°	626.6	619.7	624.2	622.9	625.0
22.5°	615.1	607.7	611.8	611.0	612.7
25°	601.1	594.6	598.7	597.4	599.1
27.5°	586.3	580.2	583.5	583.5	584.3
30°	570.3	564.6	567.8	567.8	568.3
32.5°	553.0	548.5	550.6	551.0	551.0
35°	534.5	530.8	532.5	532.9	532.9
37.5°	515.2	511.5	512.7	513.6	513.6
40°	494.7	491.4	492.2	493.0	492.6
42.5°	472.4	470.0	470.4	471.2	471.2
45°	449.8	447.8	447.8	448.6	448.6
47.5°	426.8	424.8	423.9	424.8	424.8
50°	401.7	399.7	398.8	399.7	399.7
52.5°	375.4	373.4	373.4	373.4	373.8
55°	348.3	346.2	345.4	346.2	346.6
57.5°	319.5	318.7	317.4	317.8	316.6
60°	288.6	288.6	287.4	288.2	287.4
62.5°	258.6	259.5	258.2	258.2	257.4
65°	227.8	228.6	227.4	227.4	226.6
67.5°	196.1	197.4	195.7	195.7	194.9
70°	163.2	165.7	164.1	164.5	163.7
72.5°	133.6	134.9	133.2	133.2	132.4
75°	104.0	104.9	103.2	103.6	102.4
77.5°	74.8	76.1	74.4	74.8	74.4
80°	50.2	50.6	49.3	49.8	48.9
82.5°	29.2	29.6	29.2	28.8	28.4
85°	13.2	13.6	13.2	13.2	12.7
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)