

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: P973642

Luminaire Tested: FLR2-22-25-L940-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973642
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-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

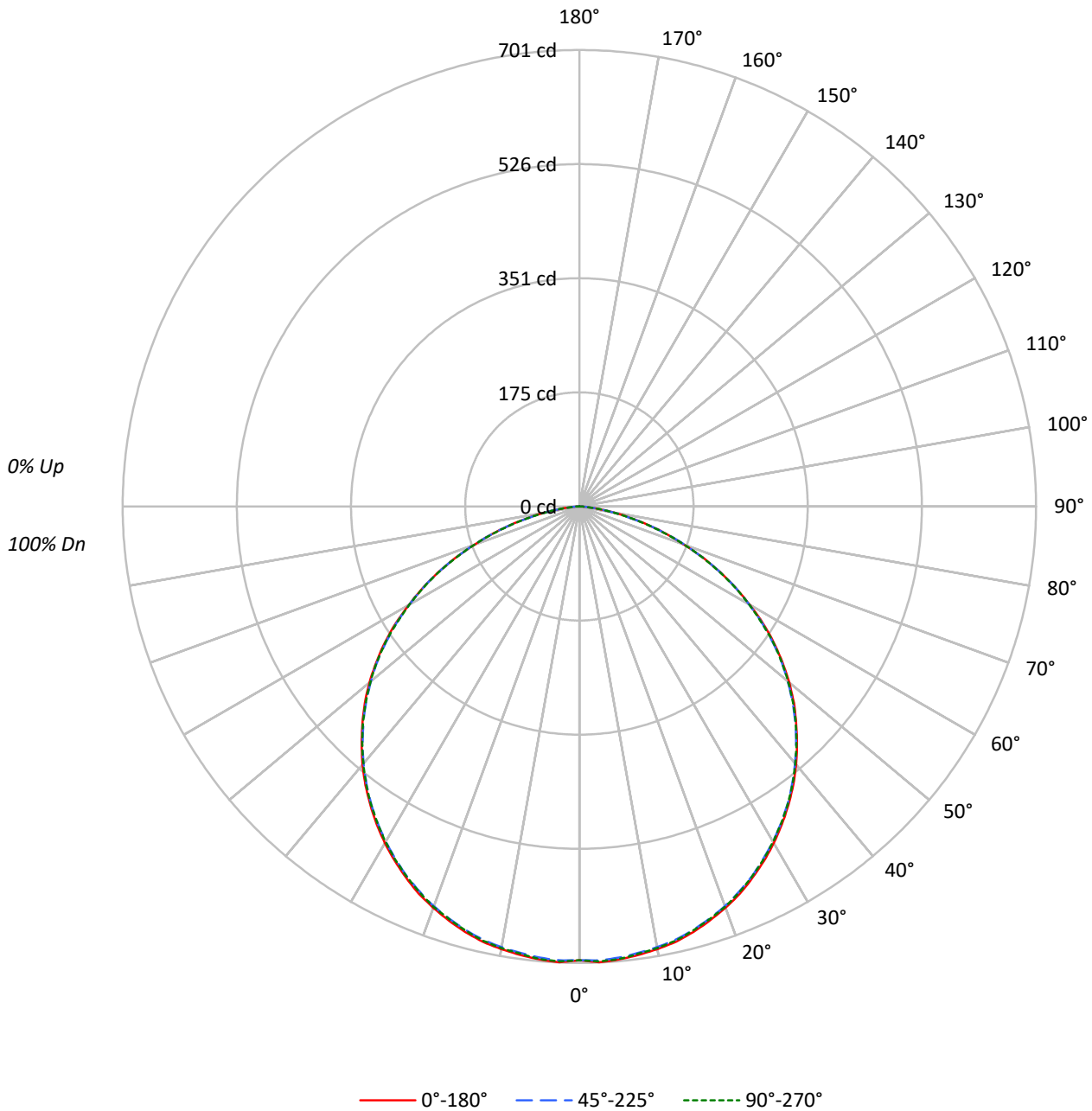
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1948.6 lumens
Efficiency: N/A
Efficacy: 103.1 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				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°	1875	1875	1875
5°	1887	1879	1885
10°	1886	1878	1882
15°	1885	1877	1879
20°	1878	1871	1873
25°	1868	1861	1862
30°	1855	1847	1848
35°	1838	1831	1832
40°	1819	1810	1811
45°	1792	1784	1787
50°	1760	1748	1751
55°	1710	1696	1702
60°	1626	1619	1619
65°	1518	1515	1510
70°	1345	1351	1348
75°	1132	1123	1115
80°	814	800	793
85°	426	426	411

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1792 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	3.4
10°-20°	189.7	9.7
20°-30°	288.4	14.8
30°-40°	348.5	17.9
40°-50°	361.8	18.6
50°-60°	323.4	16.6
60°-70°	235.1	12.1
70°-80°	115.6	5.9
80°-90°	20.0	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°	544.1	27.9
0°-40°	892.6	45.8
0°-60°	1577.8	81.0
0°-90°	1948.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1948.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	697	697	697	697	697	
5°	698	690	696	693	698	66
15°	677	669	674	672	674	191
25°	629	622	627	625	627	290
35°	560	556	557	558	558	350
45°	471	469	469	470	470	363
55°	364	362	362	362	363	325
65°	238	239	238	238	237	235
75°	109	110	108	108	107	116
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°	696.8	696.8	696.8	696.8	696.8
2.5°	700.7	692.5	697.7	694.7	699.4
5°	698.5	690.3	695.5	692.9	697.7
7.5°	694.7	686.5	691.6	689.1	692.9
10°	690.3	681.7	687.3	684.8	688.6
12.5°	684.8	676.6	681.7	679.6	683.0
15°	676.6	668.8	673.6	671.8	674.4
17.5°	666.7	658.9	663.7	662.4	664.5
20°	655.9	648.6	653.3	652.0	654.2
22.5°	643.9	636.1	640.4	639.6	641.3
25°	629.2	622.3	626.7	625.4	627.1
27.5°	613.7	607.3	610.7	610.7	611.6
30°	597.0	590.9	594.4	594.4	594.8
32.5°	578.9	574.1	576.3	576.7	576.7
35°	559.5	555.6	557.4	557.8	557.8
37.5°	539.3	535.4	536.7	537.6	537.6
40°	517.8	514.3	515.2	516.0	515.6
42.5°	494.5	491.9	492.4	493.2	493.2
45°	470.8	468.7	468.7	469.6	469.6
47.5°	446.7	444.6	443.7	444.6	444.6
50°	420.5	418.3	417.5	418.3	418.3
52.5°	392.9	390.8	390.8	390.8	391.2
55°	364.5	362.4	361.5	362.4	362.8
57.5°	334.4	333.6	332.3	332.7	331.4
60°	302.1	302.1	300.8	301.7	300.8
62.5°	270.7	271.6	270.3	270.3	269.4
65°	238.4	239.3	238.0	238.0	237.1
67.5°	205.3	206.6	204.9	204.9	204.0
70°	170.9	173.4	171.7	172.2	171.3
72.5°	139.9	141.2	139.4	139.4	138.6
75°	108.9	109.8	108.0	108.5	107.2
77.5°	78.3	79.6	77.9	78.3	77.9
80°	52.5	52.9	51.6	52.1	51.2
82.5°	30.6	31.0	30.6	30.1	29.7
85°	13.8	14.2	13.8	13.8	13.3
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)