

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: P973662

Luminaire Tested: FLR2-22-25-L940-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973662
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

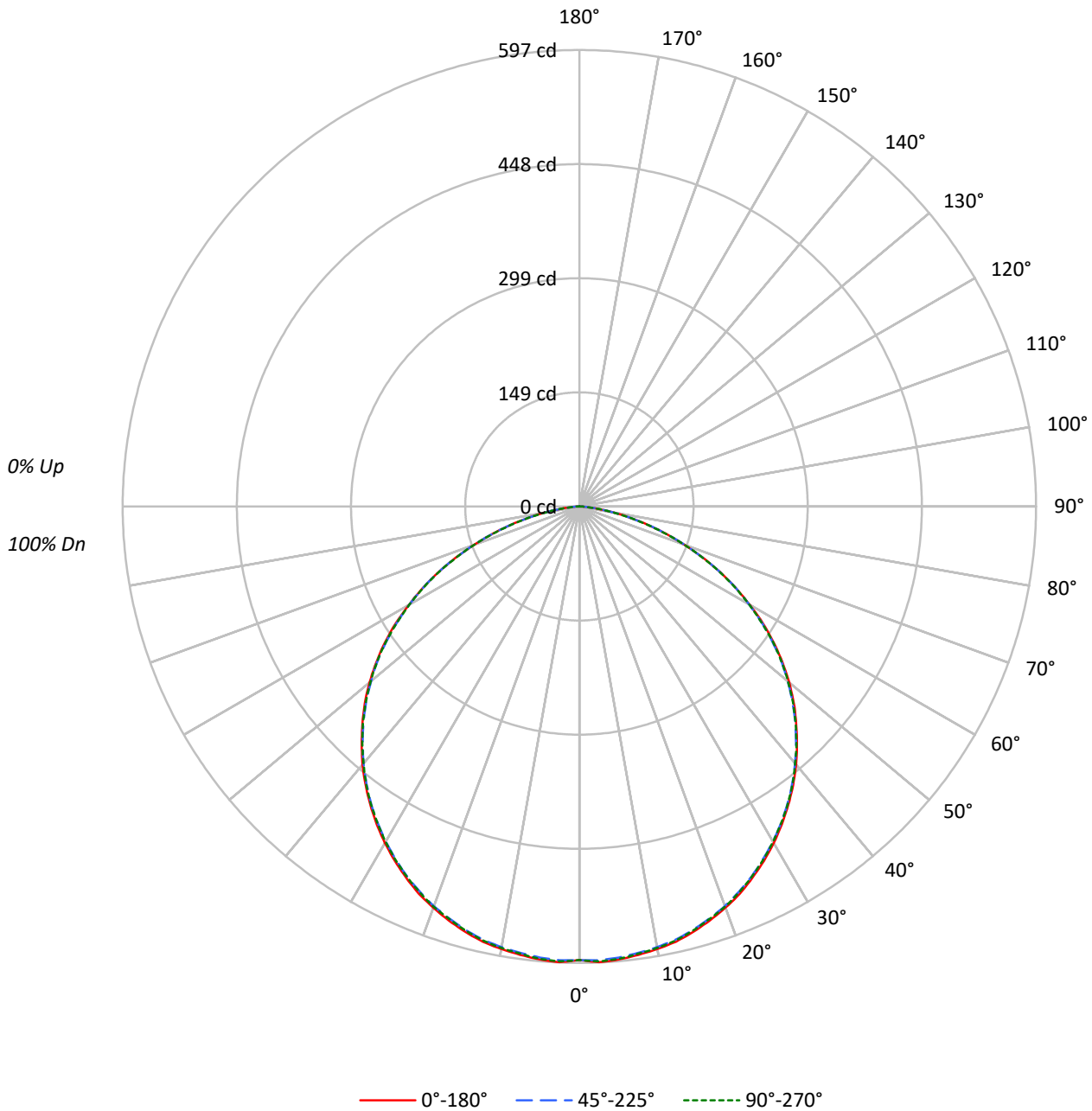
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1659.3 lumens
Efficiency: N/A
Efficacy: 87.8 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°	1597	1597	1597
5°	1607	1600	1605
10°	1606	1599	1602
15°	1605	1598	1600
20°	1599	1593	1595
25°	1591	1584	1586
30°	1579	1573	1574
35°	1565	1559	1560
40°	1549	1541	1542
45°	1526	1519	1521
50°	1499	1488	1491
55°	1456	1444	1449
60°	1385	1379	1379
65°	1293	1291	1286
70°	1145	1150	1148
75°	964	957	949
80°	693	682	676
85°	361	361	352

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1526 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	3.4
10°-20°	161.6	9.7
20°-30°	245.5	14.8
30°-40°	296.8	17.9
40°-50°	308.0	18.6
50°-60°	275.4	16.6
60°-70°	200.2	12.1
70°-80°	98.5	5.9
80°-90°	17.1	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°	463.3	27.9
0°-40°	760.1	45.8
0°-60°	1343.5	81.0
0°-90°	1659.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1659.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	593	593	593	593	593	
5°	595	588	592	590	594	57
15°	576	570	574	572	574	163
25°	536	530	534	532	534	247
35°	476	473	475	475	475	298
45°	401	399	399	400	400	309
55°	310	309	308	309	309	277
65°	203	204	203	203	202	200
75°	93	94	92	92	91	98
85°	12	12	12	12	11	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	593.3	593.3	593.3	593.3	593.3
2.5°	596.6	589.7	594.1	591.5	595.5
5°	594.8	587.8	592.2	590.0	594.1
7.5°	591.5	584.5	588.9	586.7	590.0
10°	587.8	580.5	585.3	583.1	586.4
12.5°	583.1	576.1	580.5	578.7	581.6
15°	576.1	569.5	573.5	572.1	574.3
17.5°	567.7	561.1	565.1	564.0	565.8
20°	558.5	552.3	556.3	555.2	557.1
22.5°	548.3	541.7	545.3	544.6	546.1
25°	535.8	529.9	533.6	532.5	534.0
27.5°	522.6	517.1	520.0	520.0	520.8
30°	508.3	503.2	506.1	506.1	506.5
32.5°	492.9	488.9	490.7	491.1	491.1
35°	476.4	473.1	474.6	475.0	475.0
37.5°	459.2	455.9	457.0	457.7	457.7
40°	440.9	437.9	438.7	439.4	439.0
42.5°	421.1	418.9	419.3	420.0	420.0
45°	400.9	399.1	399.1	399.8	399.8
47.5°	380.4	378.6	377.8	378.6	378.6
50°	358.1	356.2	355.5	356.2	356.2
52.5°	334.6	332.8	332.8	332.8	333.1
55°	310.4	308.6	307.8	308.6	308.9
57.5°	284.8	284.0	282.9	283.3	282.2
60°	257.3	257.3	256.2	256.9	256.2
62.5°	230.5	231.3	230.2	230.2	229.4
65°	203.0	203.8	202.7	202.7	201.9
67.5°	174.8	175.9	174.4	174.4	173.7
70°	145.5	147.7	146.2	146.6	145.9
72.5°	119.1	120.2	118.7	118.7	118.0
75°	92.7	93.5	92.0	92.4	91.3
77.5°	66.7	67.8	66.3	66.7	66.3
80°	44.7	45.1	44.0	44.3	43.6
82.5°	26.0	26.4	26.0	25.7	25.3
85°	11.7	12.1	11.7	11.7	11.4
87.5°	2.9	2.9	2.9	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)