

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: P974457

Luminaire Tested: FLR2-24-20-L950-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-20-L950-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-20-L950-CP125
Ballast/Driver: -

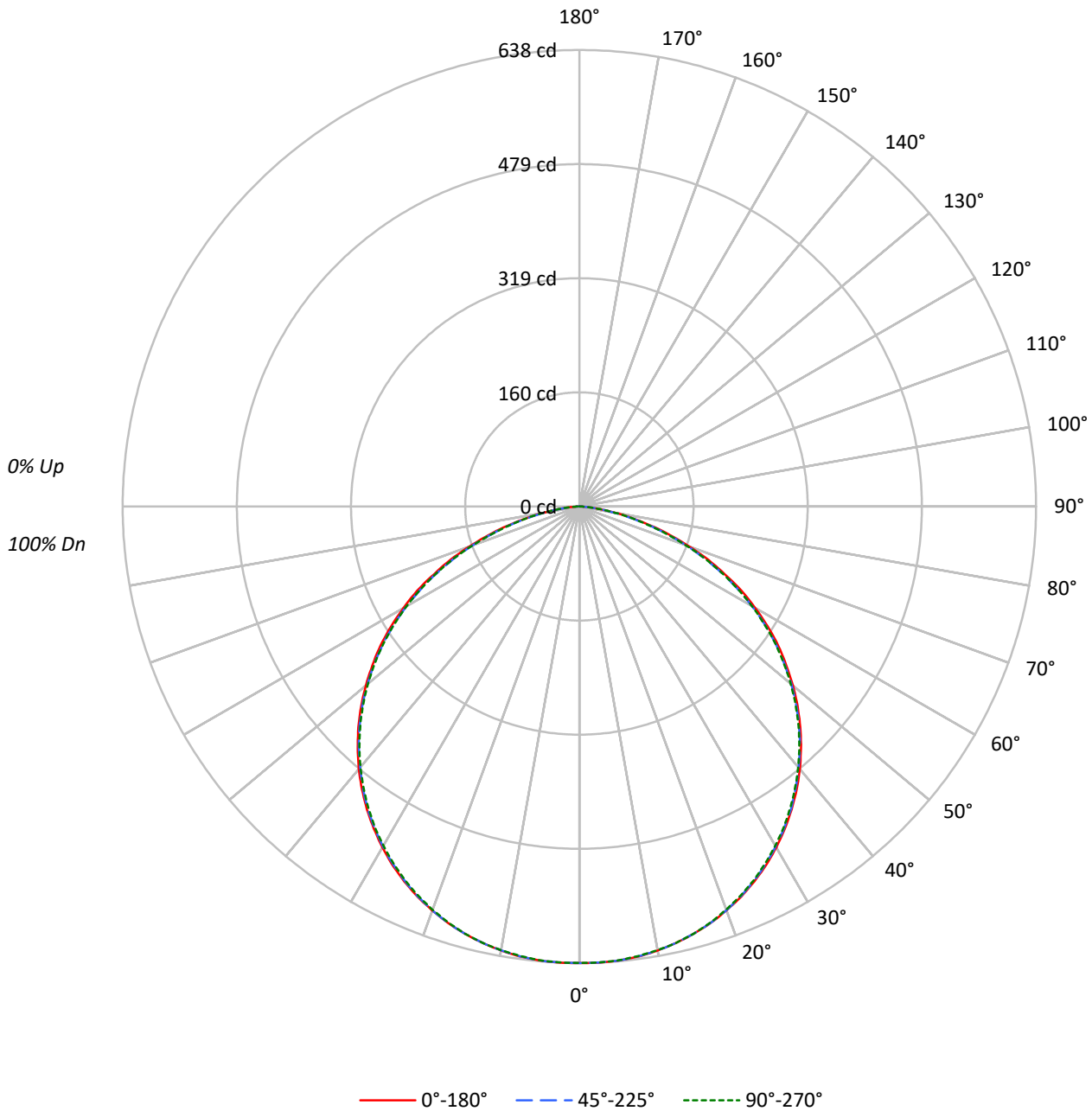
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1803.8 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.7
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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85					85															
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44					44															
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38					38															
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34															
8	61	47	39	33	59	47	38	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	39	33	29	27					27															
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	859	859	859
5°	860	860	860
10°	861	861	860
15°	861	861	861
20°	860	860	859
25°	859	857	856
30°	855	852	851
35°	849	847	844
40°	842	837	835
45°	831	826	824
50°	815	809	807
55°	796	785	784
60°	763	749	749
65°	714	697	699
70°	642	622	621
75°	539	518	516
80°	394	374	391
85°	222	205	208

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 831 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	3.4
10°-20°	174.5	9.7
20°-30°	266.1	14.8
30°-40°	322.4	17.9
40°-50°	334.9	18.6
50°-60°	299.6	16.6
60°-70°	218.3	12.1
70°-80°	108.1	6.0
80°-90°	19.3	1.1
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°	501.2	27.8
0°-40°	823.6	45.7
0°-60°	1458.0	80.8
0°-90°	1803.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1803.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	638	638	638	638	638	
5°	637	637	637	637	637	61
15°	618	618	618	618	618	175
25°	578	578	577	577	576	267
35°	517	516	516	515	514	323
45°	437	436	434	433	433	337
55°	339	337	335	335	334	302
65°	224	222	219	220	220	222
75°	104	102	100	101	99	111
85°	14	13	13	14	14	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	638.2	638.2	638.2	638.2	638.2
2.5°	638.2	638.0	638.0	638.2	637.8
5°	637.1	637.3	637.1	637.1	636.6
7.5°	634.5	634.3	634.1	634.3	633.6
10°	630.2	630.2	630.0	630.2	629.7
12.5°	624.9	624.9	624.9	625.2	624.9
15°	618.3	618.1	618.1	618.5	618.1
17.5°	610.5	610.3	610.3	610.0	609.6
20°	600.9	600.9	600.7	600.4	599.7
22.5°	590.6	590.4	589.7	589.7	588.7
25°	578.4	577.8	577.3	577.1	576.4
27.5°	565.2	564.2	563.6	563.1	562.4
30°	550.3	549.4	548.7	548.0	547.5
32.5°	534.2	533.8	532.6	532.4	531.5
35°	517.1	516.4	515.7	514.8	513.9
37.5°	498.8	498.1	496.5	496.0	495.3
40°	479.3	478.4	476.3	476.3	475.6
42.5°	458.4	457.5	456.2	455.2	454.8
45°	436.7	435.8	434.2	433.3	432.8
47.5°	413.6	412.9	411.0	410.4	409.7
50°	389.5	388.6	386.5	386.1	385.4
52.5°	364.3	363.9	361.1	360.9	360.2
55°	339.4	336.9	334.6	334.6	334.1
57.5°	311.9	310.1	307.1	307.1	306.6
60°	283.5	281.9	278.5	278.9	278.5
62.5°	255.8	252.4	249.1	250.5	249.4
65°	224.2	222.4	218.9	219.8	219.6
67.5°	195.3	191.9	188.7	190.5	189.6
70°	163.3	161.4	158.2	160.1	157.8
72.5°	133.0	131.4	128.2	130.3	128.0
75°	103.7	102.1	99.6	101.4	99.2
77.5°	76.0	74.9	72.6	74.4	74.9
80°	50.8	49.5	48.3	49.9	50.4
82.5°	29.8	28.9	28.4	28.6	29.8
85°	14.4	13.3	13.3	13.5	13.5
87.5°	3.9	3.4	3.9	4.1	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)