

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: P974473

Luminaire Tested: FLR2-24-20-L950-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974473
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-20-L950-CP250
Ballast/Driver: -

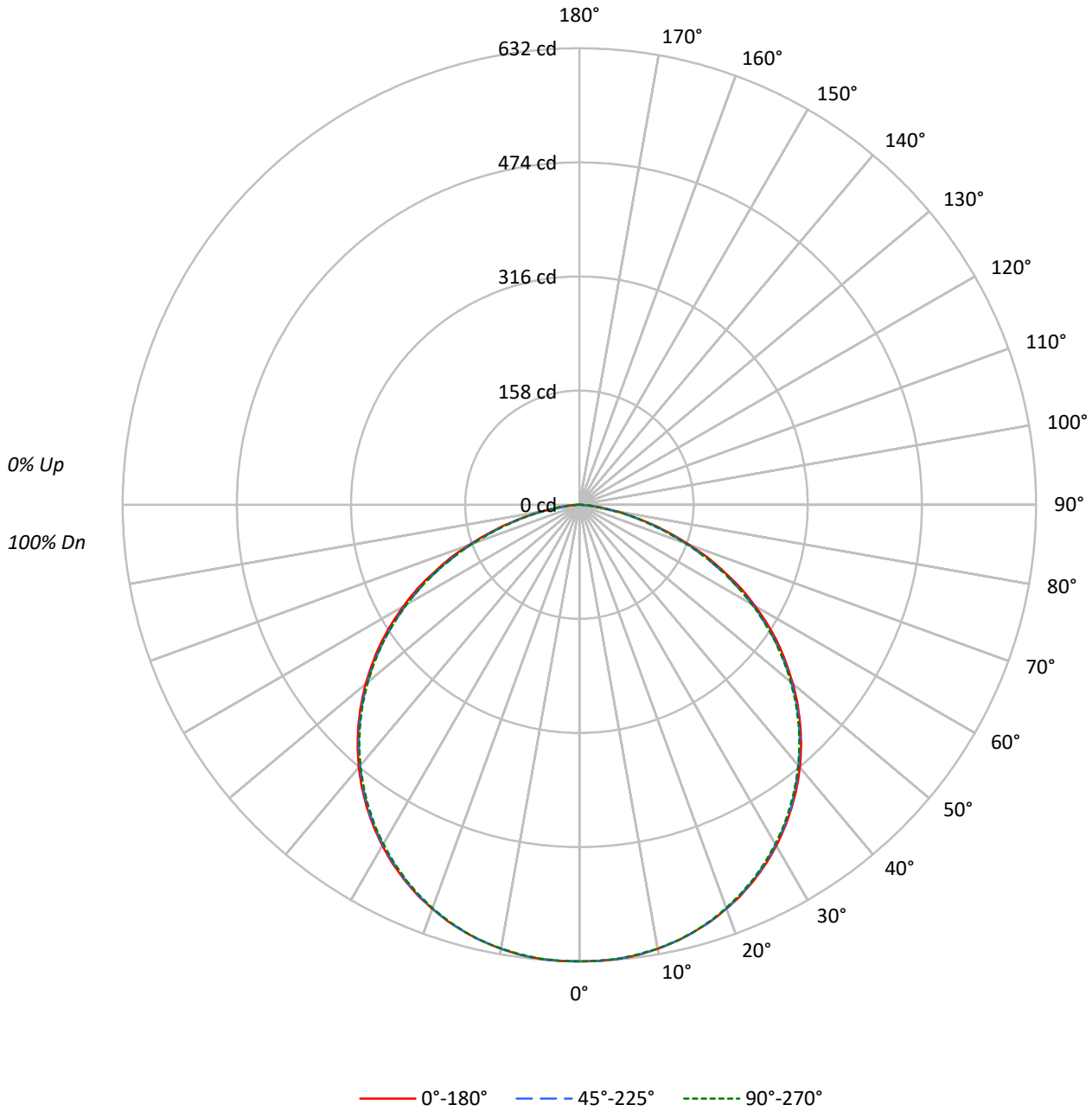
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1787.0 lumens
Efficiency: N/A
Efficacy: 107.0 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°	851	851	851
5°	852	852	852
10°	853	853	852
15°	853	853	853
20°	852	852	851
25°	851	849	848
30°	847	845	843
35°	841	839	836
40°	834	829	828
45°	823	818	816
50°	808	801	799
55°	789	777	776
60°	756	742	742
65°	707	691	693
70°	637	617	615
75°	534	513	510
80°	391	371	387
85°	221	204	207

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 823 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.0	3.4
10°-20°	172.9	9.7
20°-30°	263.6	14.8
30°-40°	319.4	17.9
40°-50°	331.7	18.6
50°-60°	296.8	16.6
60°-70°	216.3	12.1
70°-80°	107.1	6.0
80°-90°	19.2	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°	496.5	27.8
0°-40°	815.9	45.7
0°-60°	1444.4	80.8
0°-90°	1787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1787.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	631	631	631	631	631	60
15°	612	612	612	613	612	173
25°	573	572	572	572	571	264
35°	512	512	511	510	509	320
45°	433	432	430	429	429	333
55°	336	334	331	331	331	300
65°	222	220	217	218	218	220
75°	103	101	99	100	98	110
85°	14	13	13	13	13	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	632.3	632.3	632.3	632.3	632.3
2.5°	632.3	632.0	632.0	632.3	631.8
5°	631.1	631.4	631.1	631.1	630.7
7.5°	628.6	628.4	628.2	628.4	627.7
10°	624.3	624.3	624.1	624.3	623.9
12.5°	619.1	619.1	619.1	619.3	619.1
15°	612.5	612.3	612.3	612.8	612.3
17.5°	604.8	604.6	604.6	604.4	603.9
20°	595.3	595.3	595.1	594.8	594.2
22.5°	585.1	584.9	584.2	584.2	583.3
25°	573.1	572.4	571.9	571.7	571.0
27.5°	559.9	559.0	558.3	557.9	557.2
30°	545.2	544.2	543.6	542.9	542.4
32.5°	529.3	528.8	527.7	527.5	526.6
35°	512.3	511.6	510.9	510.0	509.1
37.5°	494.1	493.4	491.8	491.4	490.7
40°	474.8	473.9	471.9	471.9	471.2
42.5°	454.2	453.3	451.9	451.0	450.6
45°	432.6	431.7	430.1	429.2	428.8
47.5°	409.7	409.0	407.2	406.5	405.9
50°	385.9	385.0	382.9	382.5	381.8
52.5°	360.9	360.5	357.8	357.5	356.9
55°	336.2	333.7	331.4	331.4	331.0
57.5°	309.0	307.2	304.2	304.2	303.8
60°	280.9	279.3	275.9	276.3	275.9
62.5°	253.4	250.0	246.8	248.2	247.1
65°	222.1	220.3	216.9	217.8	217.6
67.5°	193.5	190.1	186.9	188.8	187.8
70°	161.8	159.9	156.8	158.6	156.3
72.5°	131.8	130.2	127.0	129.1	126.8
75°	102.8	101.2	98.7	100.5	98.2
77.5°	75.3	74.2	71.9	73.7	74.2
80°	50.4	49.0	47.9	49.5	49.9
82.5°	29.5	28.6	28.1	28.4	29.5
85°	14.3	13.2	13.2	13.4	13.4
87.5°	3.9	3.4	3.9	4.1	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)