

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: P974249

Luminaire Tested: FLR2-24-20-L935-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974249
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-L935-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-20-L935-CP250
Ballast/Driver: -

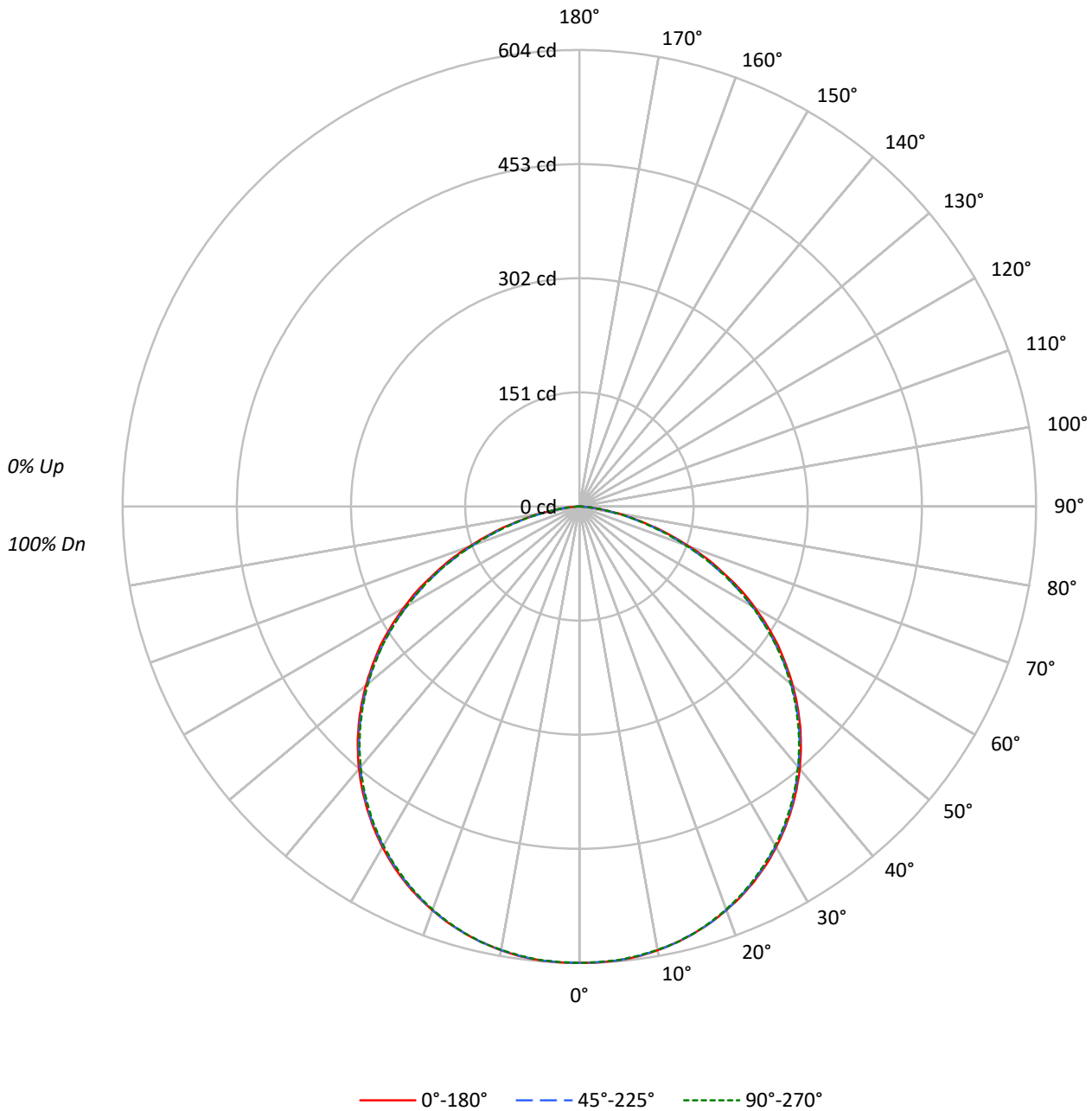
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1706.7 lumens
Efficiency: N/A
Efficacy: 102.2 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

TEST NUMBER: P974249
CATALOG NUMBER: FLR2-24-20-L935-CP250

Luminous Intensity Polar Plot





TEST NUMBER: P974249
 CATALOG NUMBER: FLR2-24-20-L935-CP250

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	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	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	813	813	813
5°	814	814	813
10°	815	814	814
15°	815	815	815
20°	814	814	813
25°	813	811	810
30°	809	806	805
35°	804	801	799
40°	797	792	790
45°	786	782	779
50°	772	765	763
55°	753	743	742
60°	722	709	709
65°	675	659	662
70°	608	589	587
75°	510	490	488
80°	373	354	370
85°	211	195	198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 786 cd/sqm



TEST NUMBER: P974249
 CATALOG NUMBER: FLR2-24-20-L935-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	3.4
10°-20°	165.1	9.7
20°-30°	251.8	14.8
30°-40°	305.0	17.9
40°-50°	316.8	18.6
50°-60°	283.5	16.6
60°-70°	206.6	12.1
70°-80°	102.3	6.0
80°-90°	18.3	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°	474.2	27.8
0°-40°	779.2	45.7
0°-60°	1379.5	80.8
0°-90°	1706.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1706.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	603	603	603	603	602	57
15°	585	585	585	585	585	165
25°	547	547	546	546	545	252
35°	489	489	488	487	486	306
45°	413	412	411	410	410	318
55°	321	319	317	317	316	286
65°	212	210	207	208	208	210
75°	98	97	94	96	94	105
85°	14	13	13	13	13	19
90°	0	0	0	0	0	



TEST NUMBER: P974249
 CATALOG NUMBER: FLR2-24-20-L935-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	603.9	603.9	603.9	603.9	603.9
2.5°	603.9	603.6	603.6	603.9	603.4
5°	602.8	603.0	602.8	602.8	602.3
7.5°	600.4	600.2	600.0	600.2	599.5
10°	596.3	596.3	596.1	596.3	595.8
12.5°	591.3	591.3	591.3	591.5	591.3
15°	585.0	584.8	584.8	585.2	584.8
17.5°	577.6	577.4	577.4	577.2	576.8
20°	568.5	568.5	568.3	568.1	567.5
22.5°	558.8	558.6	557.9	557.9	557.1
25°	547.3	546.7	546.2	546.0	545.4
27.5°	534.7	533.9	533.2	532.8	532.1
30°	520.7	519.8	519.1	518.5	518.1
32.5°	505.5	505.1	504.0	503.8	502.9
35°	489.2	488.6	487.9	487.1	486.2
37.5°	471.9	471.3	469.7	469.3	468.7
40°	453.5	452.6	450.7	450.7	450.0
42.5°	433.8	432.9	431.6	430.7	430.3
45°	413.2	412.3	410.8	409.9	409.5
47.5°	391.3	390.7	388.9	388.3	387.6
50°	368.6	367.7	365.7	365.3	364.7
52.5°	344.7	344.3	341.7	341.5	340.8
55°	321.1	318.7	316.6	316.6	316.1
57.5°	295.1	293.4	290.6	290.6	290.1
60°	268.2	266.7	263.5	263.9	263.5
62.5°	242.0	238.8	235.7	237.0	236.0
65°	212.1	210.4	207.1	208.0	207.8
67.5°	184.8	181.6	178.5	180.3	179.4
70°	154.5	152.8	149.7	151.5	149.3
72.5°	125.9	124.4	121.3	123.3	121.1
75°	98.2	96.6	94.3	96.0	93.8
77.5°	71.9	70.9	68.7	70.4	70.9
80°	48.1	46.8	45.7	47.2	47.7
82.5°	28.2	27.3	26.9	27.1	28.2
85°	13.7	12.6	12.6	12.8	12.8
87.5°	3.7	3.3	3.7	3.9	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)