

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: P973603

Luminaire Tested: FLR2-22-35-L935-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973603
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: FLR2-22-35-L935-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

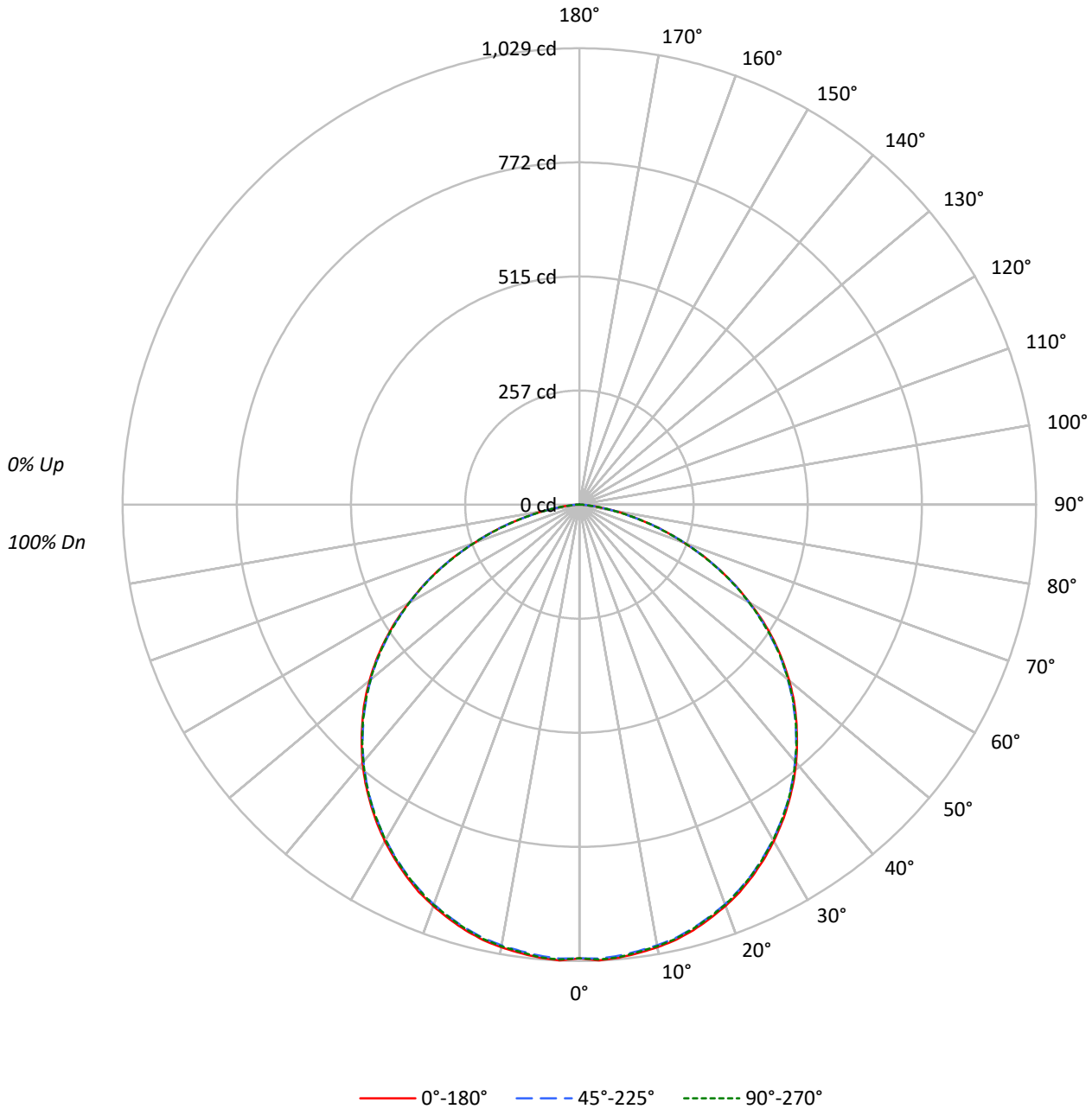
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2860.9 lumens
Efficiency: N/A
Efficacy: 102.5 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): 27.9
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

TEST NUMBER: P973603
CATALOG NUMBER: FLR2-22-35-L935-CA080

Luminous Intensity Polar Plot





TEST NUMBER: P973603
 CATALOG NUMBER: FLR2-22-35-L935-CA080

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	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°	2753	2753	2753
5°	2770	2758	2767
10°	2769	2757	2763
15°	2767	2755	2759
20°	2758	2747	2751
25°	2743	2732	2733
30°	2723	2711	2714
35°	2698	2688	2690
40°	2670	2657	2659
45°	2631	2619	2624
50°	2584	2566	2571
55°	2511	2490	2499
60°	2387	2377	2377
65°	2229	2225	2217
70°	1974	1983	1979
75°	1663	1649	1635
80°	1195	1175	1165
85°	624	624	605

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2631 cd/sqm



TEST NUMBER: P973603
 CATALOG NUMBER: FLR2-22-35-L935-CA080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	3.4
10°-20°	278.6	9.7
20°-30°	423.3	14.8
30°-40°	511.7	17.9
40°-50°	531.1	18.6
50°-60°	474.8	16.6
60°-70°	345.2	12.1
70°-80°	169.8	5.9
80°-90°	29.5	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°	798.8	27.9
0°-40°	1310.5	45.8
0°-60°	2316.4	81.0
0°-90°	2860.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2860.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1023	1023	1023	1023	1023	
5°	1026	1014	1021	1017	1024	97
15°	993	982	989	986	990	280
25°	924	914	920	918	921	426
35°	821	816	818	819	819	514
45°	691	688	688	689	689	533
55°	535	532	531	532	533	477
65°	350	351	349	349	348	345
75°	160	161	159	159	157	170
85°	20	21	20	20	20	30
90°	0	0	0	0	0	



TEST NUMBER: P973603
 CATALOG NUMBER: FLR2-22-35-L935-CA080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1023.0	1023.0	1023.0	1023.0	1023.0
2.5°	1028.7	1016.7	1024.3	1019.9	1026.8
5°	1025.5	1013.5	1021.1	1017.3	1024.3
7.5°	1019.9	1007.8	1015.4	1011.6	1017.3
10°	1013.5	1000.9	1009.1	1005.3	1011.0
12.5°	1005.3	993.3	1000.9	997.7	1002.8
15°	993.3	981.9	988.9	986.4	990.2
17.5°	978.8	967.4	974.4	972.5	975.6
20°	963.0	952.2	959.2	957.3	960.5
22.5°	945.3	933.9	940.2	939.0	941.5
25°	923.8	913.7	920.0	918.1	920.6
27.5°	901.1	891.6	896.6	896.6	897.9
30°	876.4	867.6	872.6	872.6	873.3
32.5°	849.9	842.9	846.1	846.7	846.7
35°	821.4	815.8	818.3	818.9	818.9
37.5°	791.7	786.1	788.0	789.2	789.2
40°	760.2	755.1	756.4	757.6	757.0
42.5°	726.0	722.2	722.9	724.1	724.1
45°	691.3	688.1	688.1	689.4	689.4
47.5°	655.9	652.7	651.5	652.7	652.7
50°	617.3	614.2	612.9	614.2	614.2
52.5°	576.9	573.7	573.7	573.7	574.4
55°	535.2	532.0	530.8	532.0	532.7
57.5°	491.0	489.7	487.8	488.4	486.5
60°	443.6	443.6	441.7	442.9	441.7
62.5°	397.5	398.7	396.8	396.8	395.6
65°	350.1	351.3	349.4	349.4	348.2
67.5°	301.4	303.3	300.8	300.8	299.5
70°	250.9	254.6	252.1	252.8	251.5
72.5°	205.4	207.3	204.7	204.7	203.5
75°	159.9	161.1	158.6	159.2	157.3
77.5°	115.0	116.9	114.4	115.0	114.4
80°	77.1	77.7	75.8	76.5	75.2
82.5°	44.9	45.5	44.9	44.2	43.6
85°	20.2	20.9	20.2	20.2	19.6
87.5°	5.1	5.1	5.1	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)