

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: P973547

Luminaire Tested: FLR2-22-35-L930-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973547
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-L930-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

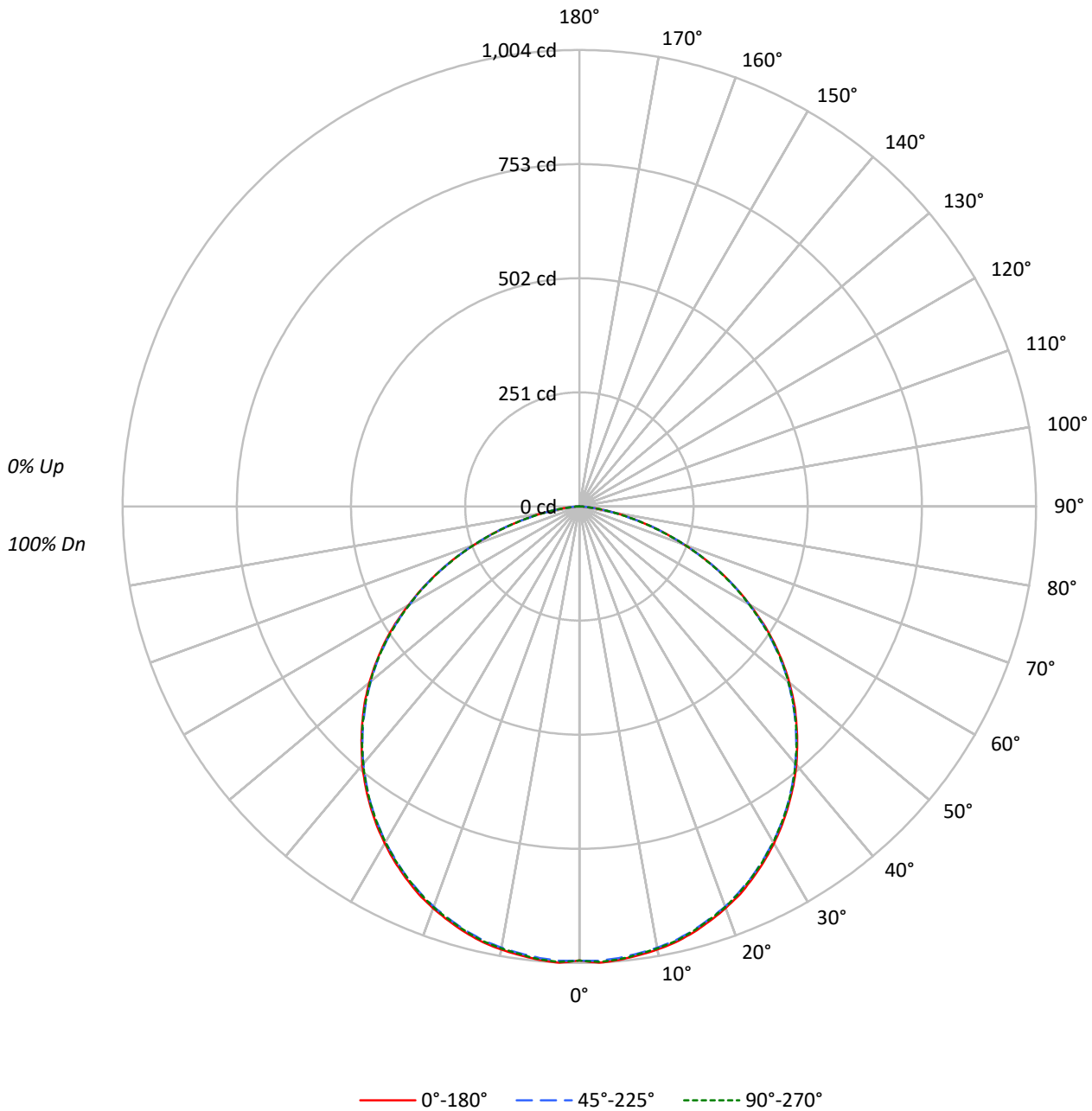
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2793.5 lumens
Efficiency: N/A
Efficacy: 100.1 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

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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°	2688	2688	2688
5°	2705	2693	2702
10°	2704	2693	2698
15°	2702	2690	2694
20°	2693	2682	2686
25°	2678	2667	2669
30°	2659	2648	2650
35°	2635	2625	2627
40°	2608	2595	2597
45°	2569	2557	2562
50°	2524	2506	2511
55°	2452	2432	2440
60°	2331	2321	2321
65°	2176	2173	2165
70°	1928	1937	1932
75°	1623	1611	1597
80°	1167	1147	1137
85°	608	608	590

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2569 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	3.4
10°-20°	272.0	9.7
20°-30°	413.4	14.8
30°-40°	499.7	17.9
40°-50°	518.6	18.6
50°-60°	463.6	16.6
60°-70°	337.1	12.1
70°-80°	165.8	5.9
80°-90°	28.7	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°	780.0	27.9
0°-40°	1279.7	45.8
0°-60°	2261.9	81.0
0°-90°	2793.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2793.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	999	999	999	999	999	
5°	1001	990	997	993	1000	95
15°	970	959	966	963	967	274
25°	902	892	898	896	899	416
35°	802	797	799	800	800	502
45°	675	672	672	673	673	521
55°	523	520	518	520	520	466
65°	342	343	341	341	340	337
75°	156	157	155	156	154	166
85°	20	20	20	20	19	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	998.9	998.9	998.9	998.9	998.9
2.5°	1004.5	992.8	1000.2	995.9	1002.6
5°	1001.4	989.7	997.1	993.4	1000.2
7.5°	995.9	984.1	991.5	987.8	993.4
10°	989.7	977.3	985.4	981.7	987.2
12.5°	981.7	969.9	977.3	974.3	979.2
15°	969.9	958.8	965.6	963.2	966.9
17.5°	955.8	944.6	951.4	949.6	952.7
20°	940.3	929.8	936.6	934.8	937.9
22.5°	923.1	911.9	918.1	916.9	919.3
25°	902.1	892.2	898.4	896.5	899.0
27.5°	879.9	870.6	875.5	875.5	876.8
30°	855.8	847.2	852.1	852.1	852.7
32.5°	829.9	823.1	826.2	826.8	826.8
35°	802.1	796.6	799.0	799.6	799.6
37.5°	773.1	767.6	769.4	770.6	770.6
40°	742.3	737.3	738.6	739.8	739.2
42.5°	708.9	705.2	705.9	707.1	707.1
45°	675.0	671.9	671.9	673.2	673.2
47.5°	640.5	637.4	636.1	637.4	637.4
50°	602.8	599.7	598.5	599.7	599.7
52.5°	563.3	560.2	560.2	560.2	560.9
55°	522.6	519.5	518.3	519.5	520.1
57.5°	479.4	478.2	476.3	477.0	475.1
60°	433.1	433.1	431.3	432.5	431.3
62.5°	388.1	389.3	387.5	387.5	386.2
65°	341.8	343.1	341.2	341.2	340.0
67.5°	294.3	296.2	293.7	293.7	292.5
70°	245.0	248.7	246.2	246.8	245.6
72.5°	200.5	202.4	199.9	199.9	198.7
75°	156.1	157.3	154.9	155.5	153.6
77.5°	112.3	114.1	111.7	112.3	111.7
80°	75.3	75.9	74.0	74.7	73.4
82.5°	43.8	44.4	43.8	43.2	42.6
85°	19.7	20.4	19.7	19.7	19.1
87.5°	4.9	4.9	4.9	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)