

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: P973544

Luminaire Tested: FLR2-22-45-L930-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973544
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: FLR2-22-45-L930-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

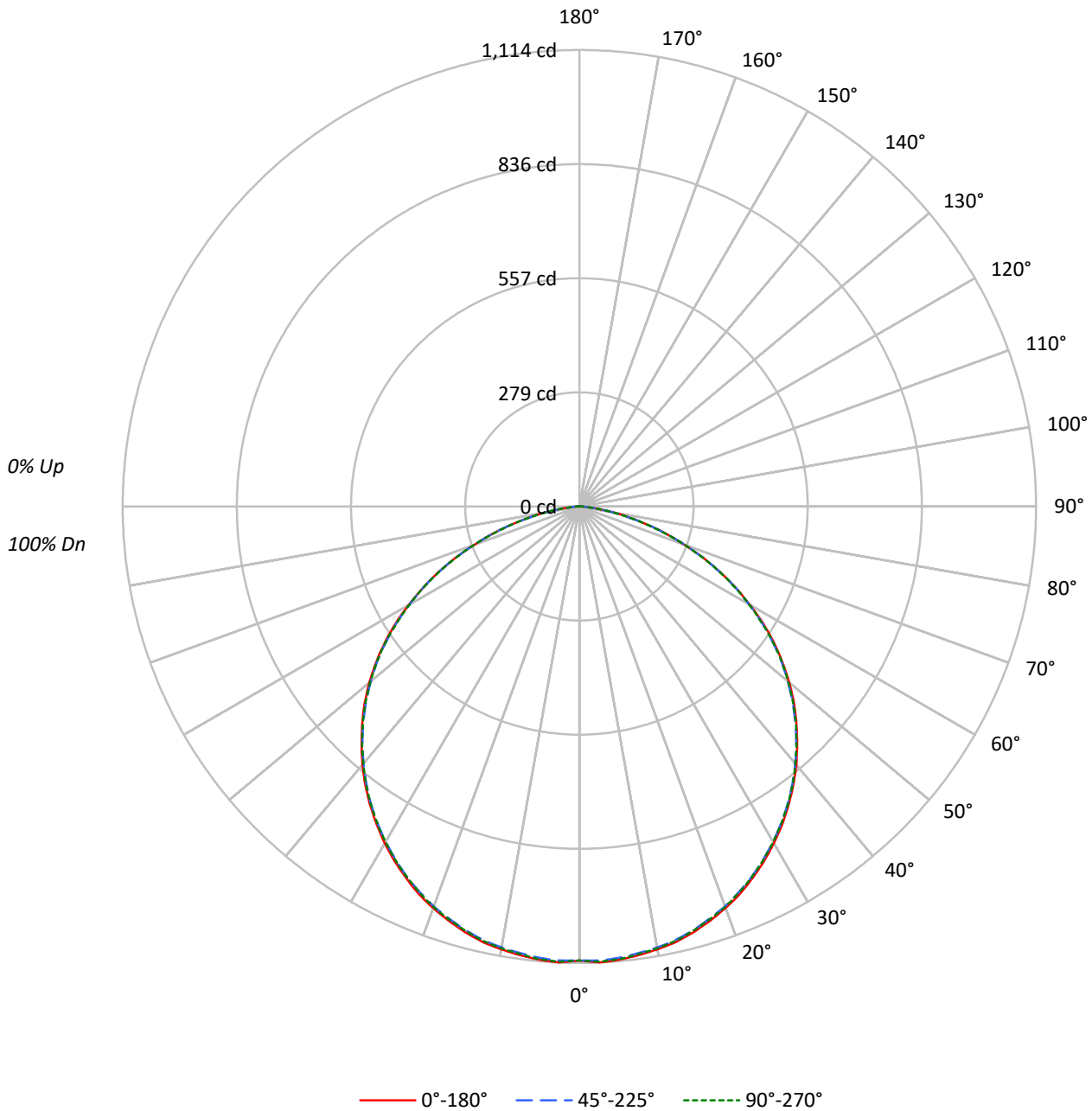
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3098.4 lumens
Efficiency: N/A
Efficacy: 85.8 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): 36.1
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									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°	2981	2981	2981
5°	3000	2987	2997
10°	2999	2986	2992
15°	2997	2984	2987
20°	2987	2975	2979
25°	2971	2958	2961
30°	2949	2937	2939
35°	2922	2911	2914
40°	2892	2877	2880
45°	2849	2836	2841
50°	2799	2779	2785
55°	2719	2697	2707
60°	2585	2574	2574
65°	2414	2409	2401
70°	2138	2148	2143
75°	1800	1786	1772
80°	1294	1272	1261
85°	676	676	655

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2849 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	3.4
10°-20°	301.7	9.7
20°-30°	458.5	14.8
30°-40°	554.2	17.9
40°-50°	575.2	18.6
50°-60°	514.3	16.6
60°-70°	373.9	12.1
70°-80°	183.9	5.9
80°-90°	31.9	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°	865.1	27.9
0°-40°	1419.3	45.8
0°-60°	2508.7	81.0
0°-90°	3098.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3098.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1108	1108	1108	1108	1108	
5°	1111	1098	1106	1102	1109	106
15°	1076	1063	1071	1068	1072	304
25°	1000	990	996	994	997	461
35°	890	884	886	887	887	557
45°	749	745	745	747	747	578
55°	580	576	575	576	577	517
65°	379	380	378	378	377	374
75°	173	174	172	172	170	184
85°	22	23	22	22	21	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1107.9	1107.9	1107.9	1107.9	1107.9
2.5°	1114.1	1101.1	1109.3	1104.5	1112.0
5°	1110.7	1097.7	1105.9	1101.8	1109.3
7.5°	1104.5	1091.5	1099.7	1095.6	1101.8
10°	1097.7	1084.0	1092.9	1088.8	1094.9
12.5°	1088.8	1075.8	1084.0	1080.5	1086.0
15°	1075.8	1063.4	1071.0	1068.2	1072.3
17.5°	1060.0	1047.7	1055.2	1053.2	1056.6
20°	1042.9	1031.3	1038.8	1036.8	1040.2
22.5°	1023.8	1011.4	1018.3	1016.9	1019.6
25°	1000.5	989.5	996.4	994.3	997.1
27.5°	975.8	965.6	971.1	971.1	972.4
30°	949.2	939.6	945.1	945.1	945.7
32.5°	920.4	912.9	916.3	917.0	917.0
35°	889.6	883.5	886.2	886.9	886.9
37.5°	857.5	851.3	853.4	854.7	854.7
40°	823.2	817.8	819.1	820.5	819.8
42.5°	786.3	782.2	782.9	784.2	784.2
45°	748.7	745.2	745.2	746.6	746.6
47.5°	710.3	706.9	705.5	706.9	706.9
50°	668.6	665.2	663.8	665.2	665.2
52.5°	624.8	621.4	621.4	621.4	622.1
55°	579.6	576.2	574.8	576.2	576.9
57.5°	531.7	530.4	528.3	529.0	526.9
60°	480.4	480.4	478.3	479.7	478.3
62.5°	430.4	431.8	429.8	429.8	428.4
65°	379.1	380.5	378.4	378.4	377.1
67.5°	326.4	328.5	325.7	325.7	324.4
70°	271.7	275.8	273.0	273.7	272.4
72.5°	222.4	224.5	221.7	221.7	220.4
75°	173.1	174.5	171.8	172.4	170.4
77.5°	124.5	126.6	123.9	124.5	123.9
80°	83.5	84.2	82.1	82.8	81.4
82.5°	48.6	49.3	48.6	47.9	47.2
85°	21.9	22.6	21.9	21.9	21.2
87.5°	5.5	5.5	5.5	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)