

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: P973683

Luminaire Tested: FLR2-22-35-L850-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973683
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-L850-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

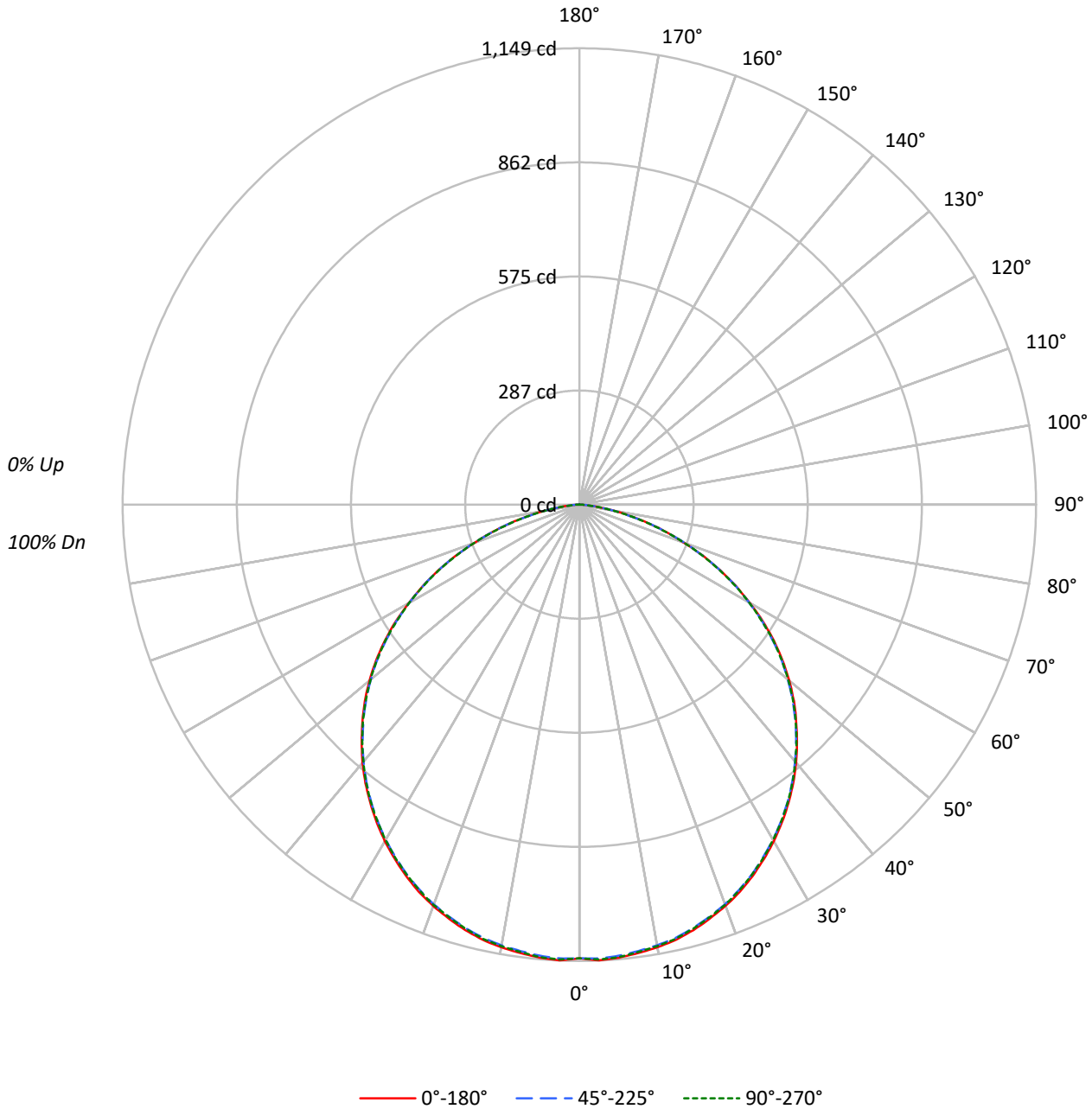
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3194.3 lumens
Efficiency: N/A
Efficacy: 114.5 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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	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	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3074	3074	3074
5°	3093	3080	3089
10°	3092	3079	3084
15°	3090	3076	3080
20°	3079	3067	3071
25°	3063	3050	3052
30°	3041	3027	3030
35°	3013	3001	3004
40°	2981	2967	2969
45°	2937	2924	2929
50°	2886	2865	2871
55°	2804	2780	2791
60°	2666	2654	2654
65°	2489	2485	2475
70°	2204	2215	2209
75°	1856	1841	1827
80°	1334	1313	1302
85°	698	698	676

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2937 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.2	3.4
10°-20°	311.0	9.7
20°-30°	472.7	14.8
30°-40°	571.3	17.9
40°-50°	593.0	18.6
50°-60°	530.2	16.6
60°-70°	385.5	12.1
70°-80°	189.6	5.9
80°-90°	32.9	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°	891.9	27.9
0°-40°	1463.2	45.8
0°-60°	2586.4	81.0
0°-90°	3194.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3194.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1145	1132	1140	1136	1144	109
15°	1109	1096	1104	1101	1106	313
25°	1032	1020	1027	1025	1028	475
35°	917	911	914	914	914	574
45°	772	768	768	770	770	595
55°	598	594	593	594	595	533
65°	391	392	390	390	389	385
75°	178	180	177	178	176	189
85°	23	23	23	23	22	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1142.2	1142.2	1142.2	1142.2	1142.2
2.5°	1148.6	1135.2	1143.6	1138.7	1146.5
5°	1145.1	1131.7	1140.1	1135.9	1143.6
7.5°	1138.7	1125.3	1133.8	1129.5	1135.9
10°	1131.7	1117.5	1126.7	1122.5	1128.8
12.5°	1122.5	1109.1	1117.5	1114.0	1119.7
15°	1109.1	1096.4	1104.1	1101.3	1105.5
17.5°	1092.8	1080.1	1087.9	1085.8	1089.3
20°	1075.2	1063.2	1071.0	1068.9	1072.4
22.5°	1055.5	1042.8	1049.8	1048.4	1051.2
25°	1031.5	1020.2	1027.2	1025.1	1027.9
27.5°	1006.1	995.5	1001.1	1001.1	1002.5
30°	978.6	968.7	974.3	974.3	975.0
32.5°	948.9	941.2	944.7	945.4	945.4
35°	917.2	910.8	913.6	914.4	914.4
37.5°	884.0	877.7	879.8	881.2	881.2
40°	848.7	843.1	844.5	845.9	845.2
42.5°	810.6	806.4	807.1	808.5	808.5
45°	771.8	768.3	768.3	769.7	769.7
47.5°	732.3	728.8	727.4	728.8	728.8
50°	689.3	685.8	684.4	685.8	685.8
52.5°	644.1	640.6	640.6	640.6	641.3
55°	597.6	594.0	592.6	594.0	594.8
57.5°	548.2	546.8	544.7	545.4	543.2
60°	495.3	495.3	493.2	494.6	493.2
62.5°	443.8	445.2	443.1	443.1	441.7
65°	390.9	392.3	390.2	390.2	388.7
67.5°	336.5	338.6	335.8	335.8	334.4
70°	280.1	284.3	281.5	282.2	280.8
72.5°	229.3	231.4	228.6	228.6	227.2
75°	178.5	179.9	177.1	177.8	175.7
77.5°	128.4	130.5	127.7	128.4	127.7
80°	86.1	86.8	84.7	85.4	84.0
82.5°	50.1	50.8	50.1	49.4	48.7
85°	22.6	23.3	22.6	22.6	21.9
87.5°	5.6	5.6	5.6	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)