

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: P973596

Luminaire Tested: FLR2-22-45-L935-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973596
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-L935-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

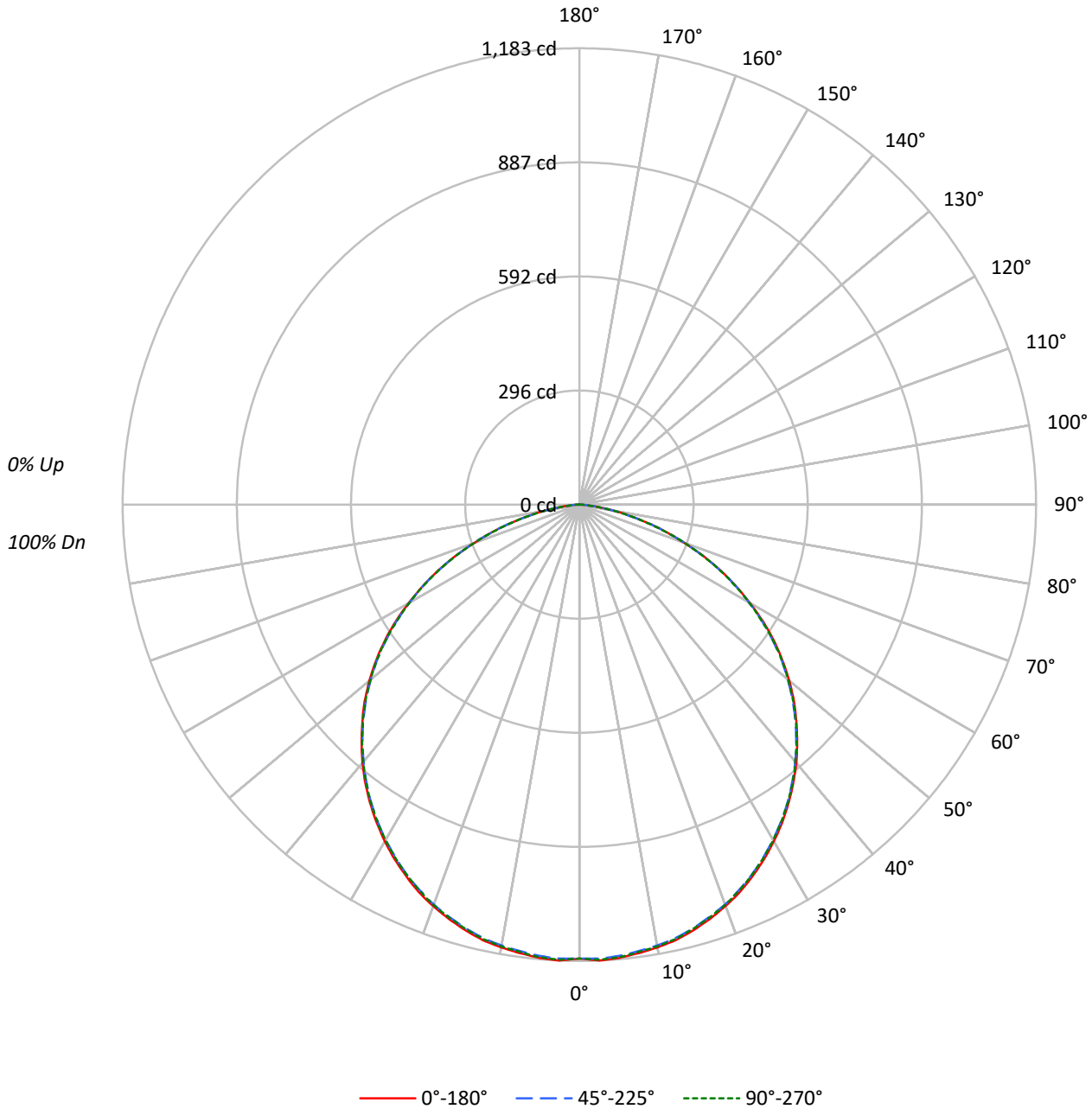
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3290.3 lumens
Efficiency: N/A
Efficacy: 91.1 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): 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									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																				
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°	3166	3166	3166
5°	3186	3172	3182
10°	3185	3171	3177
15°	3183	3168	3173
20°	3172	3159	3163
25°	3155	3142	3144
30°	3132	3118	3121
35°	3103	3092	3094
40°	3071	3056	3058
45°	3025	3012	3017
50°	2972	2951	2957
55°	2888	2864	2874
60°	2746	2734	2734
65°	2564	2559	2550
70°	2270	2282	2275
75°	1912	1896	1882
80°	1375	1351	1340
85°	719	719	695

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3025 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	3.4
10°-20°	320.4	9.7
20°-30°	486.9	14.8
30°-40°	588.5	17.9
40°-50°	610.8	18.6
50°-60°	546.1	16.6
60°-70°	397.1	12.1
70°-80°	195.3	5.9
80°-90°	33.9	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°	918.7	27.9
0°-40°	1507.2	45.8
0°-60°	2664.1	81.0
0°-90°	3290.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3290.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1177	1177	1177	1177	1177	
5°	1180	1166	1174	1170	1178	112
15°	1142	1129	1137	1134	1139	322
25°	1062	1051	1058	1056	1059	490
35°	945	938	941	942	942	591
45°	795	791	791	793	793	613
55°	616	612	610	612	613	549
65°	403	404	402	402	400	397
75°	184	185	182	183	181	195
85°	23	24	23	23	22	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1176.6	1176.6	1176.6	1176.6	1176.6
2.5°	1183.1	1169.3	1178.0	1172.9	1180.9
5°	1179.5	1165.7	1174.4	1170.0	1178.0
7.5°	1172.9	1159.1	1167.9	1163.5	1170.0
10°	1165.7	1151.1	1160.6	1156.2	1162.8
12.5°	1156.2	1142.4	1151.1	1147.5	1153.3
15°	1142.4	1129.3	1137.3	1134.4	1138.8
17.5°	1125.7	1112.6	1120.6	1118.4	1122.1
20°	1107.5	1095.2	1103.2	1101.0	1104.6
22.5°	1087.2	1074.1	1081.4	1079.9	1082.8
25°	1062.5	1050.9	1058.1	1055.9	1058.8
27.5°	1036.3	1025.4	1031.2	1031.2	1032.7
30°	1008.0	997.8	1003.6	1003.6	1004.3
32.5°	977.5	969.5	973.1	973.8	973.8
35°	944.7	938.2	941.1	941.8	941.8
37.5°	910.6	904.1	906.2	907.7	907.7
40°	874.3	868.4	869.9	871.3	870.6
42.5°	835.0	830.7	831.4	832.8	832.8
45°	795.0	791.4	791.4	792.9	792.9
47.5°	754.3	750.7	749.3	750.7	750.7
50°	710.0	706.4	704.9	706.4	706.4
52.5°	663.5	659.9	659.9	659.9	660.6
55°	615.5	611.9	610.5	611.9	612.6
57.5°	564.7	563.2	561.0	561.8	559.6
60°	510.2	510.2	508.0	509.4	508.0
62.5°	457.1	458.6	456.4	456.4	454.9
65°	402.6	404.1	401.9	401.9	400.4
67.5°	346.7	348.8	345.9	345.9	344.5
70°	288.5	292.9	290.0	290.7	289.2
72.5°	236.2	238.4	235.5	235.5	234.0
75°	183.9	185.3	182.4	183.1	181.0
77.5°	132.3	134.4	131.5	132.3	131.5
80°	88.7	89.4	87.2	87.9	86.5
82.5°	51.6	52.3	51.6	50.9	50.1
85°	23.3	24.0	23.3	23.3	22.5
87.5°	5.8	5.8	5.8	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)