

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: P973993

Luminaire Tested: FLR2-22-35HE-L850-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973993
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: FLR2-22-35HE-L850-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

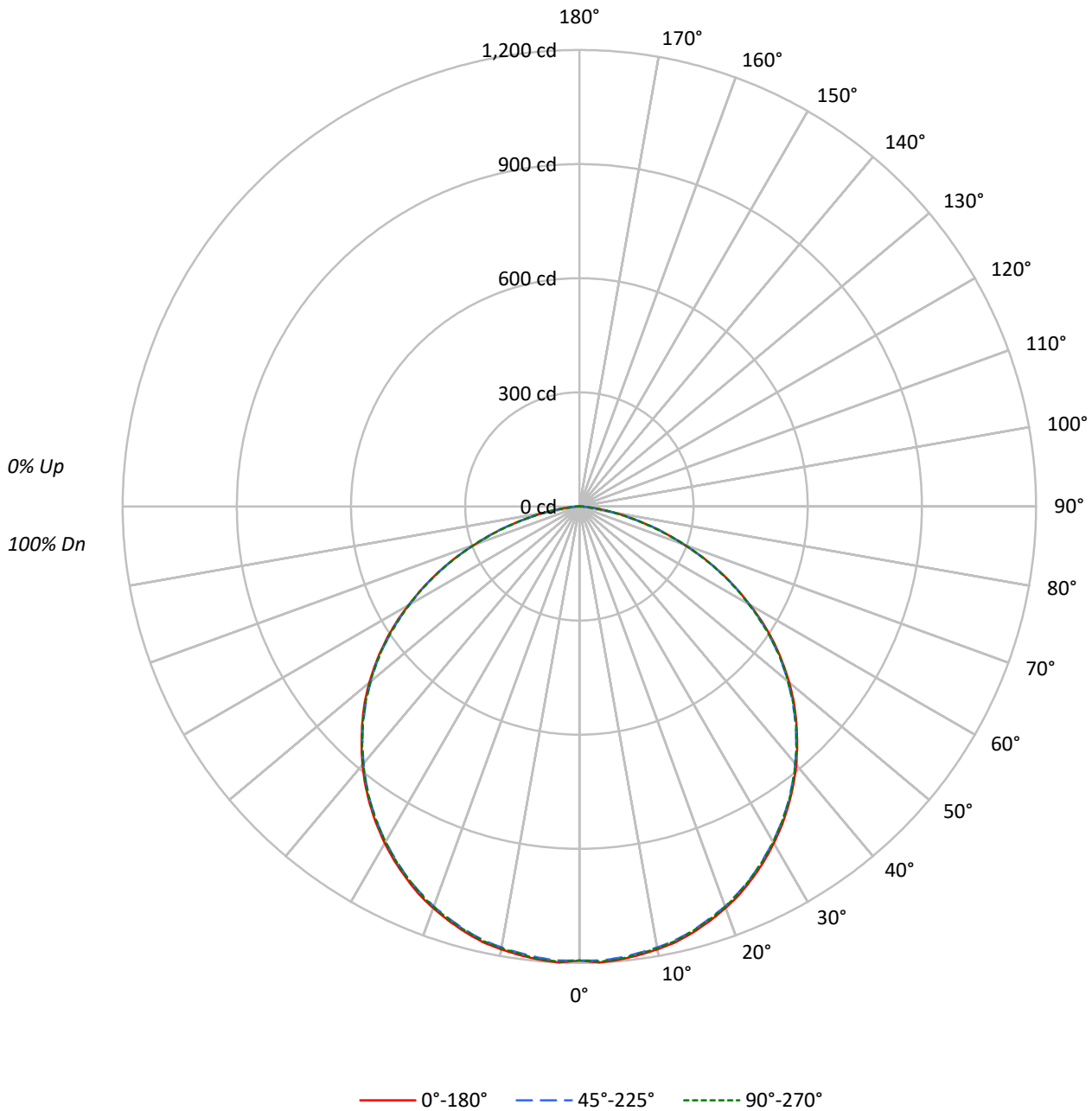
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3337.6 lumens
Efficiency: N/A
Efficacy: 122.7 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): 27.2
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°	3212	3212	3212
5°	3232	3218	3228
10°	3231	3217	3223
15°	3228	3214	3218
20°	3217	3204	3209
25°	3200	3187	3189
30°	3177	3163	3166
35°	3148	3136	3139
40°	3115	3100	3102
45°	3069	3055	3060
50°	3015	2994	3000
55°	2929	2905	2915
60°	2785	2773	2773
65°	2600	2596	2586
70°	2303	2314	2308
75°	1939	1923	1909
80°	1393	1371	1359
85°	729	729	707

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3069 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	3.4
10°-20°	325.0	9.7
20°-30°	493.9	14.8
30°-40°	597.0	17.9
40°-50°	619.6	18.6
50°-60°	553.9	16.6
60°-70°	402.8	12.1
70°-80°	198.1	5.9
80°-90°	34.4	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°	931.9	27.9
0°-40°	1528.8	45.8
0°-60°	2702.4	81.0
0°-90°	3337.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3337.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1196	1182	1191	1187	1195	114
15°	1159	1146	1154	1151	1155	327
25°	1078	1066	1073	1071	1074	497
35°	958	952	955	955	955	600
45°	806	803	803	804	804	622
55°	624	621	619	621	621	557
65°	408	410	408	408	406	403
75°	186	188	185	186	184	198
85°	24	24	24	24	23	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1193.5	1193.5	1193.5	1193.5	1193.5
2.5°	1200.1	1186.1	1194.9	1189.8	1197.9
5°	1196.4	1182.4	1191.3	1186.8	1194.9
7.5°	1189.8	1175.8	1184.6	1180.2	1186.8
10°	1182.4	1167.7	1177.3	1172.8	1179.5
12.5°	1172.8	1158.8	1167.7	1164.0	1169.9
15°	1158.8	1145.6	1153.7	1150.7	1155.1
17.5°	1141.9	1128.6	1136.7	1134.5	1138.2
20°	1123.4	1110.9	1119.0	1116.8	1120.5
22.5°	1102.8	1089.5	1096.9	1095.4	1098.4
25°	1077.7	1065.9	1073.3	1071.1	1074.0
27.5°	1051.2	1040.1	1046.0	1046.0	1047.5
30°	1022.4	1012.1	1018.0	1018.0	1018.8
32.5°	991.5	983.4	987.1	987.8	987.8
35°	958.3	951.7	954.6	955.4	955.4
37.5°	923.7	917.0	919.2	920.7	920.7
40°	886.8	880.9	882.4	883.9	883.1
42.5°	847.0	842.6	843.3	844.8	844.8
45°	806.5	802.8	802.8	804.2	804.2
47.5°	765.2	761.5	760.0	761.5	761.5
50°	720.2	716.5	715.1	716.5	716.5
52.5°	673.0	669.3	669.3	669.3	670.1
55°	624.4	620.7	619.2	620.7	621.4
57.5°	572.8	571.3	569.1	569.8	567.6
60°	517.5	517.5	515.3	516.8	515.3
62.5°	463.7	465.2	462.9	462.9	461.5
65°	408.4	409.9	407.7	407.7	406.2
67.5°	351.6	353.8	350.9	350.9	349.4
70°	292.7	297.1	294.1	294.9	293.4
72.5°	239.6	241.8	238.8	238.8	237.4
75°	186.5	188.0	185.0	185.8	183.6
77.5°	134.2	136.4	133.4	134.2	133.4
80°	89.9	90.7	88.5	89.2	87.7
82.5°	52.3	53.1	52.3	51.6	50.9
85°	23.6	24.3	23.6	23.6	22.9
87.5°	5.9	5.9	5.9	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)