

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: P973813

Luminaire Tested: FLR2-22-35HE-L835-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973813
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-L835-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

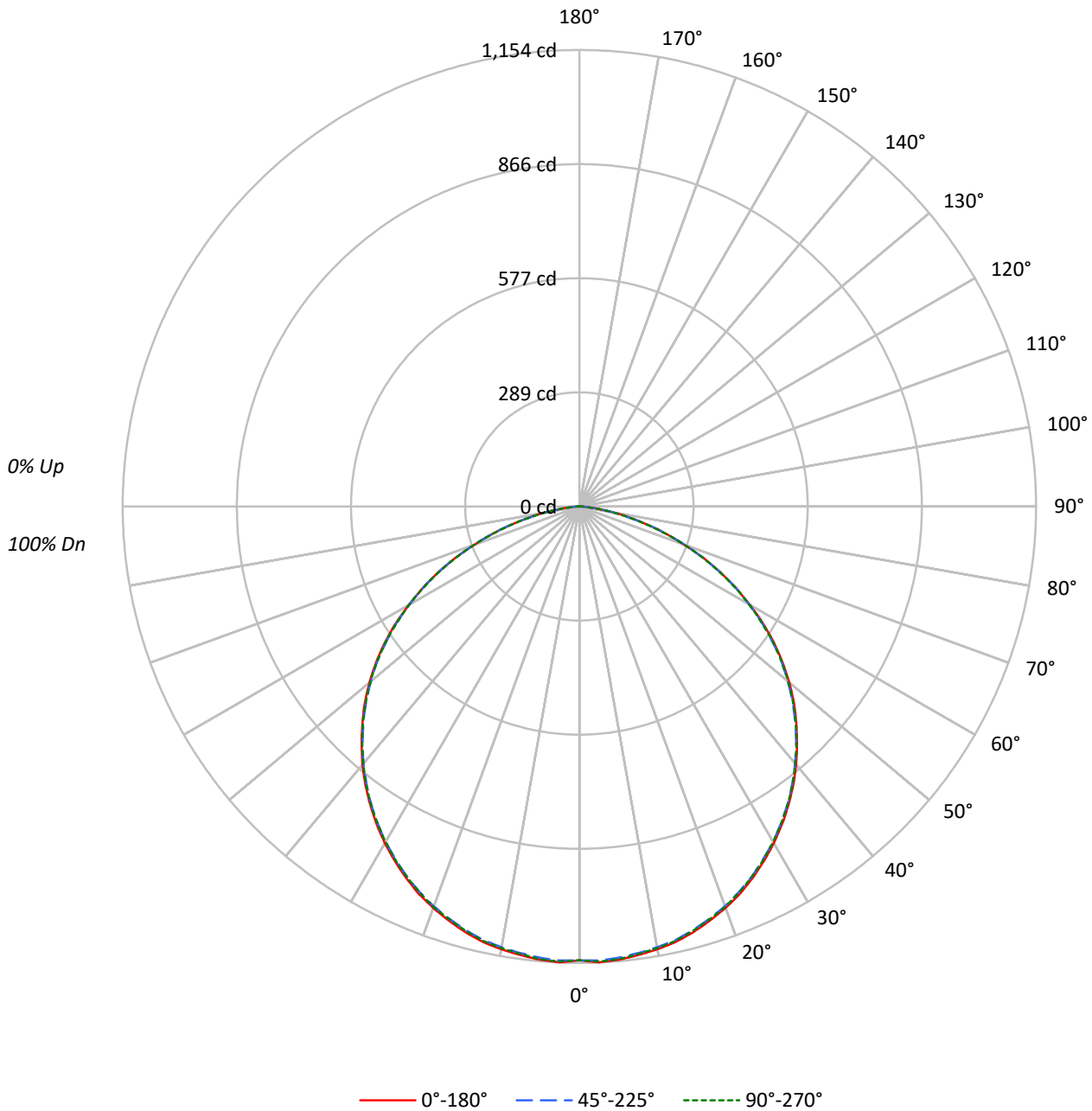
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3208.5 lumens
Efficiency: N/A
Efficacy: 118.0 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	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°	3087	3087	3087
5°	3107	3093	3103
10°	3106	3092	3098
15°	3103	3090	3094
20°	3093	3080	3085
25°	3076	3064	3066
30°	3054	3041	3043
35°	3027	3015	3017
40°	2995	2980	2982
45°	2950	2937	2942
50°	2899	2878	2884
55°	2816	2793	2803
60°	2678	2666	2666
65°	2500	2495	2486
70°	2213	2225	2219
75°	1864	1850	1835
80°	1340	1317	1306
85°	701	701	679

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2950 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	3.4
10°-20°	312.4	9.7
20°-30°	474.8	14.8
30°-40°	573.9	17.9
40°-50°	595.6	18.6
50°-60°	532.5	16.6
60°-70°	387.2	12.1
70°-80°	190.4	5.9
80°-90°	33.0	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°	895.9	27.9
0°-40°	1469.7	45.8
0°-60°	2597.9	81.0
0°-90°	3208.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3208.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1147	1147	1147	1147	1147	
5°	1150	1137	1145	1141	1149	109
15°	1114	1101	1109	1106	1110	314
25°	1036	1025	1032	1030	1032	478
35°	921	915	918	918	918	576
45°	775	772	772	773	773	598
55°	600	597	595	597	597	535
65°	393	394	392	392	390	387
75°	179	181	178	179	176	190
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°	1147.3	1147.3	1147.3	1147.3	1147.3
2.5°	1153.7	1140.2	1148.7	1143.8	1151.6
5°	1150.2	1136.7	1145.2	1140.9	1148.7
7.5°	1143.8	1130.3	1138.8	1134.6	1140.9
10°	1136.7	1122.5	1131.7	1127.5	1133.9
12.5°	1127.5	1114.0	1122.5	1119.0	1124.6
15°	1114.0	1101.3	1109.0	1106.2	1110.5
17.5°	1097.7	1085.0	1092.7	1090.6	1094.2
20°	1080.0	1067.9	1075.7	1073.6	1077.2
22.5°	1060.2	1047.4	1054.5	1053.1	1055.9
25°	1036.1	1024.7	1031.8	1029.7	1032.5
27.5°	1010.5	999.9	1005.6	1005.6	1007.0
30°	982.9	973.0	978.7	978.7	979.4
32.5°	953.1	945.3	948.9	949.6	949.6
35°	921.3	914.9	917.7	918.4	918.4
37.5°	887.9	881.6	883.7	885.1	885.1
40°	852.5	846.8	848.3	849.7	849.0
42.5°	814.2	810.0	810.7	812.1	812.1
45°	775.3	771.7	771.7	773.1	773.1
47.5°	735.6	732.0	730.6	732.0	732.0
50°	692.4	688.8	687.4	688.8	688.8
52.5°	647.0	643.5	643.5	643.5	644.2
55°	600.2	596.7	595.3	596.7	597.4
57.5°	550.6	549.2	547.1	547.8	545.7
60°	497.5	497.5	495.4	496.8	495.4
62.5°	445.7	447.2	445.0	445.0	443.6
65°	392.6	394.0	391.9	391.9	390.5
67.5°	338.0	340.2	337.3	337.3	335.9
70°	281.3	285.6	282.8	283.5	282.0
72.5°	230.3	232.4	229.6	229.6	228.2
75°	179.3	180.7	177.9	178.6	176.5
77.5°	129.0	131.1	128.3	129.0	128.3
80°	86.5	87.2	85.0	85.7	84.3
82.5°	50.3	51.0	50.3	49.6	48.9
85°	22.7	23.4	22.7	22.7	22.0
87.5°	5.7	5.7	5.7	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)