

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: P973729

Luminaire Tested: FLR2-22-35HE-L830-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973729  
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-L830-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

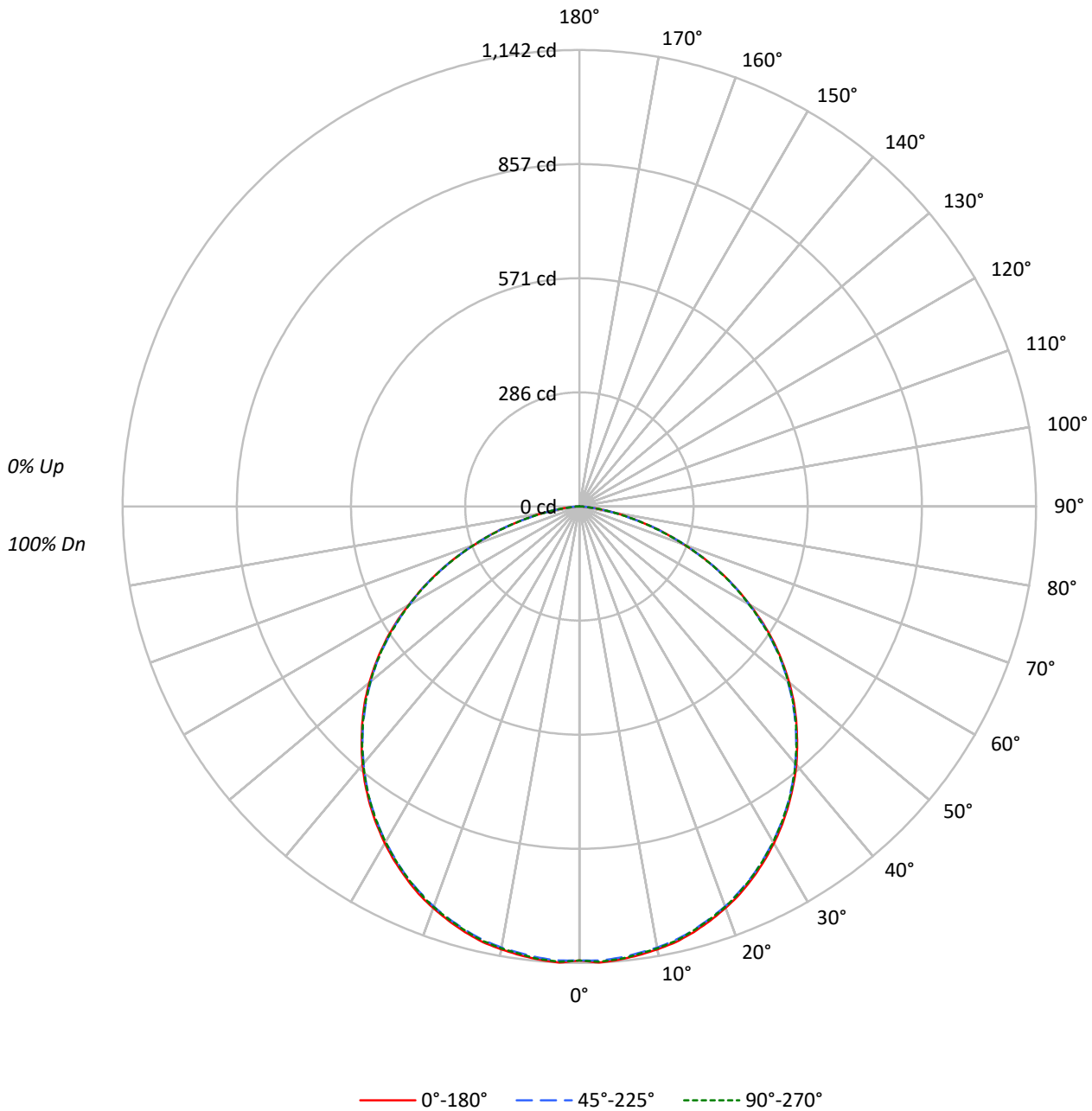
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3176.4 lumens  
Efficiency: N/A  
Efficacy: 116.8 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): 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°	3056	3056	3056
5°	3076	3062	3072
10°	3075	3061	3067
15°	3073	3059	3063
20°	3062	3050	3054
25°	3045	3033	3035
30°	3024	3011	3013
35°	2996	2984	2987
40°	2965	2950	2953
45°	2921	2907	2913
50°	2869	2849	2855
55°	2788	2765	2775
60°	2651	2639	2639
65°	2475	2471	2462
70°	2191	2202	2197
75°	1845	1831	1816
80°	1327	1305	1294
85°	695	695	670

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2921 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.6	3.4
10°-20°	309.3	9.7
20°-30°	470.0	14.8
30°-40°	568.1	17.9
40°-50°	589.7	18.6
50°-60°	527.2	16.6
60°-70°	383.3	12.1
70°-80°	188.5	5.9
80°-90°	32.7	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°	886.9	27.9
0°-40°	1455.0	45.8
0°-60°	2571.9	81.0
0°-90°	3176.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3176.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1136	1136	1136	1136	1136	
5°	1139	1125	1134	1130	1137	108
15°	1103	1090	1098	1095	1099	311
25°	1026	1014	1022	1019	1022	473
35°	912	906	908	909	909	571
45°	768	764	764	765	765	592
55°	594	591	589	591	591	530
65°	389	390	388	388	387	383
75°	178	179	176	177	175	188
85°	22	23	22	22	22	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1135.8	1135.8	1135.8	1135.8	1135.8
2.5°	1142.2	1128.8	1137.2	1132.3	1140.1
5°	1138.6	1125.3	1133.7	1129.5	1137.2
7.5°	1132.3	1119.0	1127.4	1123.2	1129.5
10°	1125.3	1111.3	1120.4	1116.2	1122.5
12.5°	1116.2	1102.9	1111.3	1107.8	1113.4
15°	1102.9	1090.2	1098.0	1095.2	1099.4
17.5°	1086.7	1074.1	1081.8	1079.7	1083.2
20°	1069.2	1057.3	1065.0	1062.9	1066.4
22.5°	1049.5	1036.9	1043.9	1042.5	1045.3
25°	1025.7	1014.5	1021.5	1019.4	1022.2
27.5°	1000.4	989.9	995.5	995.5	996.9
30°	973.1	963.3	968.9	968.9	969.6
32.5°	943.6	935.9	939.4	940.1	940.1
35°	912.0	905.7	908.5	909.2	909.2
37.5°	879.1	872.8	874.9	876.3	876.3
40°	844.0	838.4	839.8	841.2	840.5
42.5°	806.1	801.9	802.6	804.0	804.0
45°	767.5	764.0	764.0	765.4	765.4
47.5°	728.2	724.7	723.3	724.7	724.7
50°	685.4	681.9	680.5	681.9	681.9
52.5°	640.5	637.0	637.0	637.0	637.7
55°	594.2	590.7	589.3	590.7	591.4
57.5°	545.1	543.7	541.6	542.3	540.2
60°	492.5	492.5	490.4	491.8	490.4
62.5°	441.3	442.7	440.6	440.6	439.2
65°	388.7	390.1	388.0	388.0	386.6
67.5°	334.6	336.8	333.9	333.9	332.5
70°	278.5	282.7	279.9	280.6	279.2
72.5°	228.0	230.1	227.3	227.3	225.9
75°	177.5	178.9	176.1	176.8	174.7
77.5°	127.7	129.8	127.0	127.7	127.0
80°	85.6	86.3	84.2	84.9	83.5
82.5°	49.8	50.5	49.8	49.1	48.4
85°	22.5	23.2	22.5	22.5	21.7
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)