

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: P973741

Luminaire Tested: FLR2-22-35HE-L830-CP250

Issue Date: 3/13/2025

**Test Information**

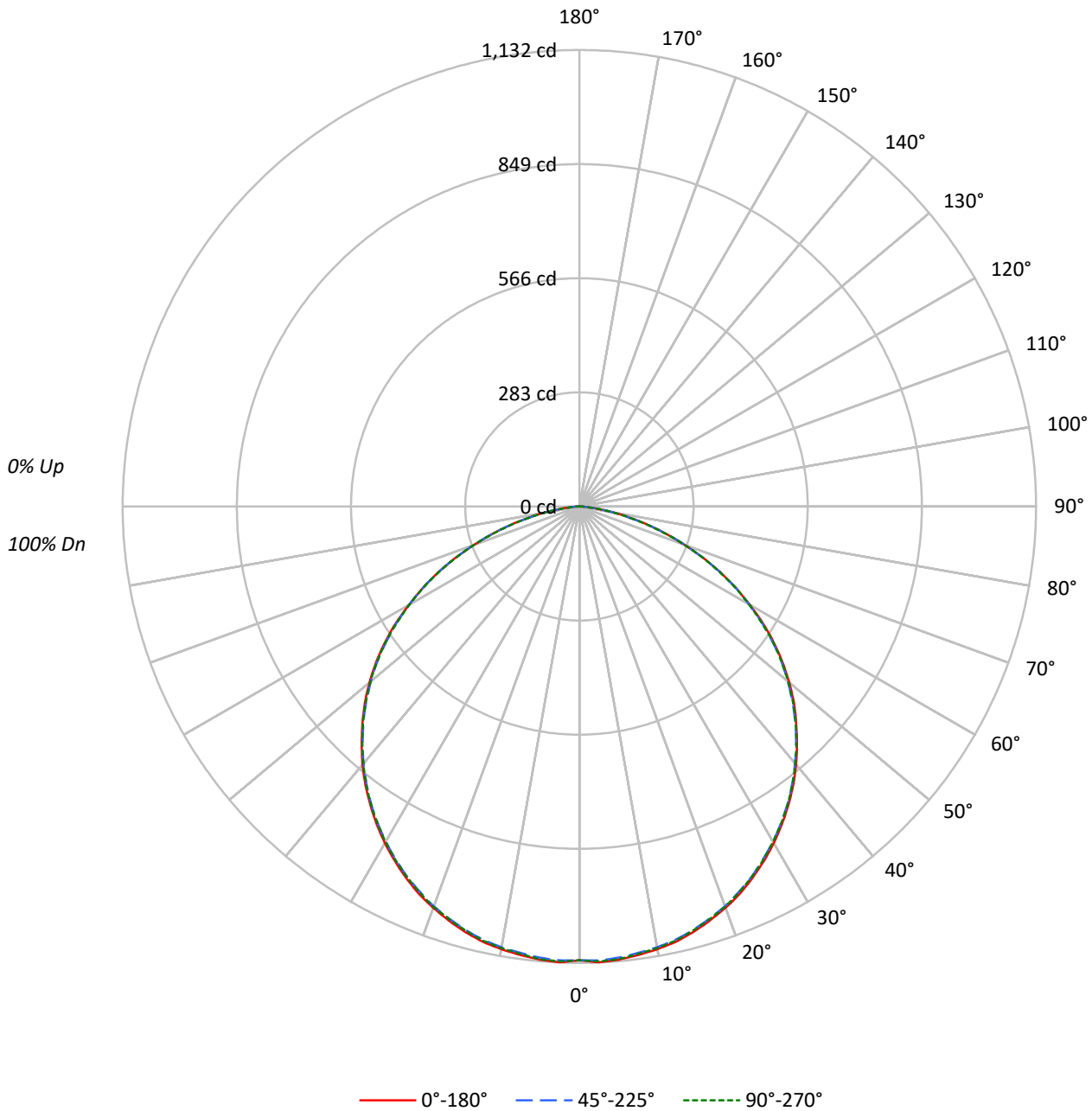
Test Method: LM-79-2019  
Report Number: P973741  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-22-35HE-L830-CP250  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3146.9 lumens  
Efficiency: N/A  
Efficacy: 115.7 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				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°	3028	3028	3028
5°	3047	3034	3044
10°	3046	3033	3039
15°	3044	3030	3034
20°	3033	3021	3025
25°	3017	3005	3007
30°	2995	2983	2985
35°	2968	2957	2959
40°	2937	2923	2925
45°	2894	2880	2886
50°	2843	2822	2828
55°	2762	2739	2749
60°	2626	2615	2615
65°	2452	2448	2439
70°	2171	2182	2176
75°	1828	1814	1800
80°	1314	1292	1282
85°	685	685	664

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2894 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.6	3.4
10°-20°	306.4	9.7
20°-30°	465.7	14.8
30°-40°	562.9	17.9
40°-50°	584.2	18.6
50°-60°	522.3	16.6
60°-70°	379.7	12.1
70°-80°	186.7	5.9
80°-90°	32.4	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°	878.6	27.9
0°-40°	1441.5	45.8
0°-60°	2548.0	81.0
0°-90°	3146.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3146.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1125	1125	1125	1125	1125	
5°	1128	1115	1123	1119	1127	107
15°	1093	1080	1088	1085	1089	308
25°	1016	1005	1012	1010	1013	468
35°	904	897	900	901	901	565
45°	760	757	757	758	758	587
55°	589	585	584	585	586	525
65°	385	386	384	384	383	380
75°	176	177	174	175	173	187
85°	22	23	22	22	22	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1125.3	1125.3	1125.3	1125.3	1125.3
2.5°	1131.5	1118.3	1126.7	1121.8	1129.4
5°	1128.1	1114.8	1123.2	1119.0	1126.7
7.5°	1121.8	1108.6	1116.9	1112.8	1119.0
10°	1114.8	1100.9	1110.0	1105.8	1112.1
12.5°	1105.8	1092.6	1100.9	1097.5	1103.0
15°	1092.6	1080.1	1087.7	1085.0	1089.1
17.5°	1076.6	1064.1	1071.8	1069.7	1073.1
20°	1059.2	1047.4	1055.1	1053.0	1056.5
22.5°	1039.8	1027.3	1034.2	1032.8	1035.6
25°	1016.2	1005.0	1012.0	1009.9	1012.7
27.5°	991.1	980.7	986.3	986.3	987.7
30°	964.0	954.3	959.9	959.9	960.5
32.5°	934.8	927.2	930.7	931.4	931.4
35°	903.6	897.3	900.1	900.8	900.8
37.5°	870.9	864.6	866.7	868.1	868.1
40°	836.1	830.6	832.0	833.4	832.7
42.5°	798.6	794.4	795.1	796.5	796.5
45°	760.4	756.9	756.9	758.3	758.3
47.5°	721.5	718.0	716.6	718.0	718.0
50°	679.1	675.6	674.2	675.6	675.6
52.5°	634.6	631.1	631.1	631.1	631.8
55°	588.7	585.2	583.8	585.2	585.9
57.5°	540.0	538.7	536.6	537.3	535.2
60°	487.9	487.9	485.8	487.2	485.8
62.5°	437.2	438.6	436.5	436.5	435.1
65°	385.1	386.4	384.4	384.4	383.0
67.5°	331.5	333.6	330.8	330.8	329.4
70°	275.9	280.1	277.3	278.0	276.6
72.5°	225.9	228.0	225.2	225.2	223.8
75°	175.8	177.2	174.5	175.2	173.1
77.5°	126.5	128.6	125.8	126.5	125.8
80°	84.8	85.5	83.4	84.1	82.7
82.5°	49.3	50.0	49.3	48.7	48.0
85°	22.2	22.9	22.2	22.2	21.5
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)