

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: P973511

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

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973511
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: FLR2-22-35-L830-CP250
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 3
Light Source:
Ballast/Driver: -

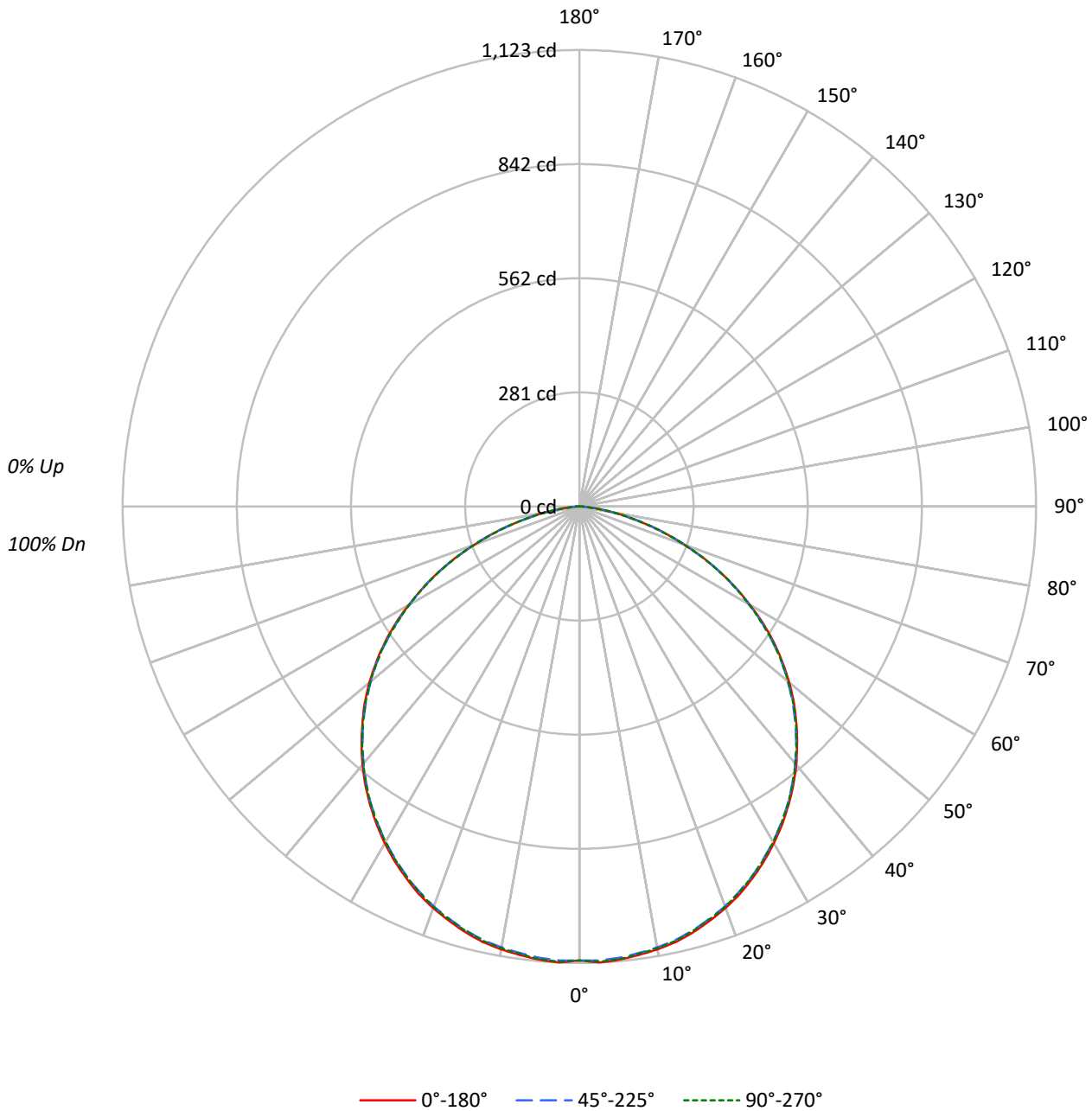
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3123.1 lumens
Efficiency: N/A
Efficacy: 111.9 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): 27.9
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°	3005	3005	3005
5°	3024	3011	3021
10°	3023	3010	3016
15°	3021	3007	3011
20°	3011	2999	3003
25°	2994	2982	2984
30°	2973	2960	2962
35°	2946	2935	2937
40°	2915	2901	2903
45°	2872	2859	2864
50°	2821	2801	2807
55°	2741	2718	2728
60°	2606	2595	2595
65°	2433	2429	2420
70°	2155	2165	2160
75°	1814	1800	1786
80°	1305	1283	1272
85°	682	682	661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2872 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	3.4
10°-20°	304.1	9.7
20°-30°	462.1	14.8
30°-40°	558.6	17.9
40°-50°	579.8	18.6
50°-60°	518.3	16.6
60°-70°	376.9	12.1
70°-80°	185.3	5.9
80°-90°	32.2	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°	872.0	27.9
0°-40°	1430.6	45.8
0°-60°	2528.8	81.0
0°-90°	3123.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3123.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1117	1117	1117	1117	1117	
5°	1120	1106	1115	1111	1118	106
15°	1084	1072	1080	1077	1081	306
25°	1008	998	1004	1002	1005	465
35°	897	890	893	894	894	561
45°	755	751	751	753	753	582
55°	584	581	579	581	582	521
65°	382	384	382	382	380	377
75°	174	176	173	174	172	185
85°	22	23	22	22	21	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1116.8	1116.8	1116.8	1116.8	1116.8
2.5°	1123.0	1109.9	1118.2	1113.3	1120.9
5°	1119.5	1106.4	1114.7	1110.6	1118.2
7.5°	1113.3	1100.2	1108.5	1104.4	1110.6
10°	1106.4	1092.6	1101.6	1097.5	1103.7
12.5°	1097.5	1084.4	1092.6	1089.2	1094.7
15°	1084.4	1071.9	1079.5	1076.8	1080.9
17.5°	1068.5	1056.1	1063.7	1061.6	1065.1
20°	1051.3	1039.5	1047.1	1045.0	1048.5
22.5°	1031.9	1019.5	1026.4	1025.0	1027.8
25°	1008.5	997.5	1004.3	1002.3	1005.0
27.5°	983.7	973.3	978.8	978.8	980.2
30°	956.8	947.1	952.6	952.6	953.3
32.5°	927.8	920.2	923.6	924.3	924.3
35°	896.7	890.5	893.3	894.0	894.0
37.5°	864.3	858.1	860.2	861.6	861.6
40°	829.8	824.3	825.7	827.1	826.4
42.5°	792.6	788.4	789.1	790.5	790.5
45°	754.6	751.2	751.2	752.6	752.6
47.5°	716.0	712.6	711.2	712.6	712.6
50°	673.9	670.5	669.1	670.5	670.5
52.5°	629.8	626.3	626.3	626.3	627.0
55°	584.3	580.8	579.4	580.8	581.5
57.5°	536.0	534.6	532.5	533.2	531.1
60°	484.2	484.2	482.2	483.6	482.2
62.5°	433.9	435.3	433.2	433.2	431.8
65°	382.1	383.5	381.5	381.5	380.1
67.5°	329.0	331.1	328.3	328.3	327.0
70°	273.9	278.0	275.2	275.9	274.5
72.5°	224.2	226.3	223.5	223.5	222.1
75°	174.5	175.9	173.1	173.8	171.8
77.5°	125.5	127.6	124.9	125.5	124.9
80°	84.2	84.8	82.8	83.5	82.1
82.5°	49.0	49.7	49.0	48.3	47.6
85°	22.1	22.8	22.1	22.1	21.4
87.5°	5.5	5.5	5.5	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)