

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: P973727

Luminaire Tested: FLR2-22-20HE-L830-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973727
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: FLR2-22-20HE-L830-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

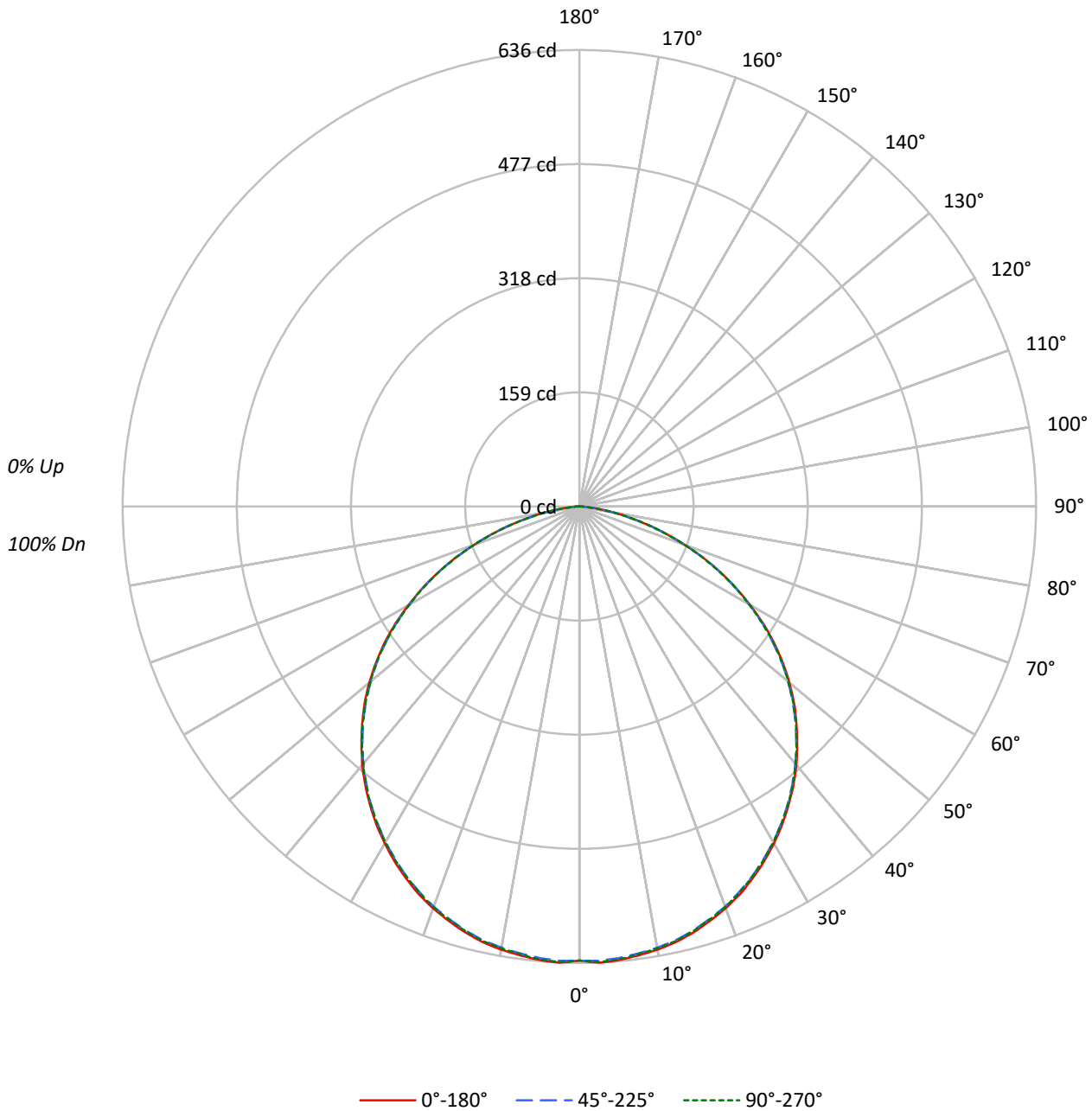
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1769.7 lumens
Efficiency: N/A
Efficacy: 119.6 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): 14.8
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

TEST NUMBER: P973727
CATALOG NUMBER: FLR2-22-20HE-L830-CP125

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°	1703	1703	1703
5°	1714	1706	1712
10°	1713	1706	1709
15°	1712	1704	1706
20°	1706	1699	1701
25°	1697	1690	1691
30°	1684	1677	1679
35°	1669	1663	1664
40°	1652	1644	1645
45°	1627	1620	1623
50°	1599	1587	1590
55°	1553	1540	1546
60°	1477	1470	1470
65°	1379	1377	1372
70°	1221	1227	1224
75°	1028	1020	1012
80°	739	727	721
85°	386	386	374

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1627 cd/sqm



TEST NUMBER: P973727
 CATALOG NUMBER: FLR2-22-20HE-L830-CP125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	3.4
10°-20°	172.3	9.7
20°-30°	261.9	14.8
30°-40°	316.5	17.9
40°-50°	328.5	18.6
50°-60°	293.7	16.6
60°-70°	213.6	12.1
70°-80°	105.0	5.9
80°-90°	18.2	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°	494.1	27.9
0°-40°	810.6	45.8
0°-60°	1432.9	81.0
0°-90°	1769.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1769.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	633	633	633	633	633	
5°	634	627	632	629	634	60
15°	614	607	612	610	612	173
25°	572	565	569	568	570	263
35°	508	505	506	507	507	318
45°	428	426	426	426	426	330
55°	331	329	328	329	330	295
65°	216	217	216	216	215	214
75°	99	100	98	98	97	105
85°	12	13	12	12	12	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	632.8	632.8	632.8	632.8	632.8
2.5°	636.3	628.9	633.6	630.9	635.2
5°	634.4	627.0	631.6	629.3	633.6
7.5°	630.9	623.4	628.1	625.8	629.3
10°	627.0	619.1	624.2	621.9	625.4
12.5°	621.9	614.4	619.1	617.2	620.3
15°	614.4	607.4	611.7	610.1	612.5
17.5°	605.5	598.4	602.7	601.5	603.5
20°	595.7	589.0	593.3	592.2	594.1
22.5°	584.7	577.7	581.6	580.8	582.4
25°	571.5	565.2	569.1	567.9	569.5
27.5°	557.4	551.5	554.6	554.6	555.4
30°	542.1	536.7	539.8	539.8	540.2
32.5°	525.7	521.4	523.4	523.8	523.8
35°	508.1	504.6	506.2	506.6	506.6
37.5°	489.8	486.2	487.4	488.2	488.2
40°	470.2	467.1	467.9	468.7	468.3
42.5°	449.1	446.8	447.2	447.9	447.9
45°	427.6	425.7	425.7	426.4	426.4
47.5°	405.7	403.8	403.0	403.8	403.8
50°	381.9	379.9	379.1	379.9	379.9
52.5°	356.9	354.9	354.9	354.9	355.3
55°	331.1	329.1	328.3	329.1	329.5
57.5°	303.7	302.9	301.8	302.1	301.0
60°	274.4	274.4	273.2	274.0	273.2
62.5°	245.9	246.6	245.5	245.5	244.7
65°	216.5	217.3	216.2	216.2	215.4
67.5°	186.4	187.6	186.1	186.1	185.3
70°	155.2	157.5	156.0	156.3	155.6
72.5°	127.0	128.2	126.6	126.6	125.9
75°	98.9	99.7	98.1	98.5	97.3
77.5°	71.1	72.3	70.7	71.1	70.7
80°	47.7	48.1	46.9	47.3	46.5
82.5°	27.8	28.1	27.8	27.4	27.0
85°	12.5	12.9	12.5	12.5	12.1
87.5°	3.1	3.1	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)