

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: P973502

Luminaire Tested: FLR2-22-25-L830-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973502
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: FLR2-22-25-L830-CP125
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 1
Light Source:
Ballast/Driver: -

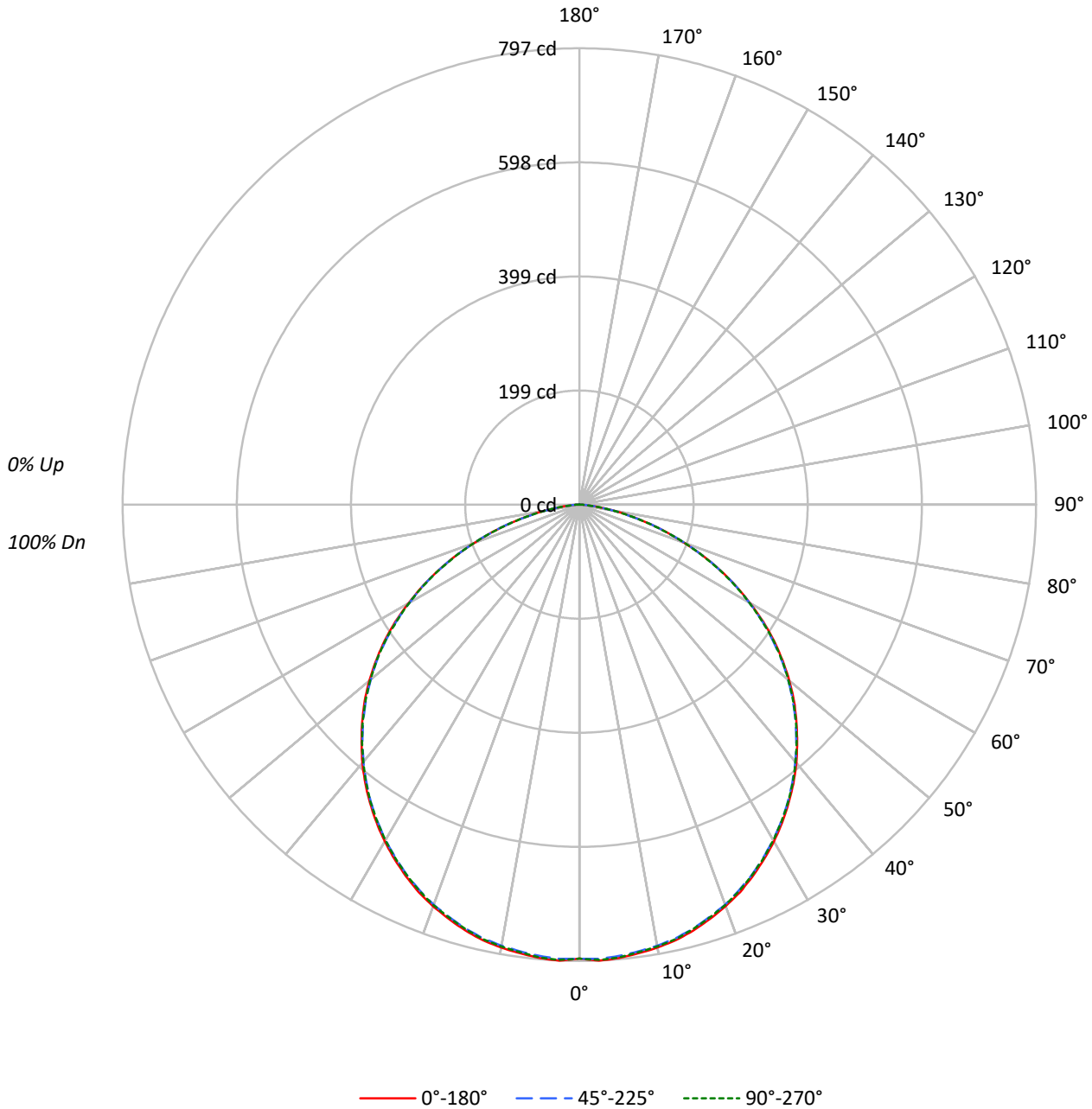
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2217.4 lumens
Efficiency: N/A
Efficacy: 117.3 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): 18.9
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°	2134	2134	2134
5°	2147	2138	2145
10°	2147	2137	2141
15°	2145	2135	2138
20°	2137	2129	2132
25°	2126	2117	2119
30°	2111	2102	2103
35°	2092	2083	2085
40°	2070	2059	2061
45°	2039	2030	2033
50°	2003	1989	1993
55°	1946	1930	1937
60°	1850	1842	1842
65°	1727	1724	1719
70°	1530	1537	1533
75°	1288	1278	1267
80°	927	911	903
85°	485	485	469

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2039 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	3.4
10°-20°	215.9	9.7
20°-30°	328.1	14.8
30°-40°	396.6	17.9
40°-50°	411.6	18.6
50°-60°	368.0	16.6
60°-70°	267.6	12.1
70°-80°	131.6	5.9
80°-90°	22.8	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°	619.1	27.9
0°-40°	1015.7	45.8
0°-60°	1795.4	81.0
0°-90°	2217.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2217.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	793	793	793	793	793	
5°	795	786	791	788	794	76
15°	770	761	766	764	767	217
25°	716	708	713	712	714	330
35°	637	632	634	635	635	398
45°	536	533	533	534	534	413
55°	415	412	411	412	413	370
65°	271	272	271	271	270	268
75°	124	125	123	123	122	132
85°	16	16	16	16	15	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	792.9	792.9	792.9	792.9	792.9
2.5°	797.3	788.0	793.9	790.5	795.9
5°	794.9	785.6	791.4	788.5	793.9
7.5°	790.5	781.2	787.0	784.1	788.5
10°	785.6	775.8	782.1	779.2	783.6
12.5°	779.2	769.9	775.8	773.3	777.2
15°	769.9	761.1	766.5	764.5	767.4
17.5°	758.6	749.8	755.2	753.7	756.2
20°	746.4	738.1	743.5	742.0	744.4
22.5°	732.7	723.9	728.8	727.8	729.7
25°	716.0	708.2	713.1	711.6	713.6
27.5°	698.4	691.0	695.0	695.0	695.9
30°	679.3	672.4	676.4	676.4	676.8
32.5°	658.7	653.3	655.8	656.3	656.3
35°	636.7	632.3	634.2	634.7	634.7
37.5°	613.7	609.3	610.7	611.7	611.7
40°	589.2	585.3	586.2	587.2	586.7
42.5°	562.7	559.8	560.3	561.3	561.3
45°	535.8	533.3	533.3	534.3	534.3
47.5°	508.4	505.9	504.9	505.9	505.9
50°	478.5	476.0	475.1	476.0	476.0
52.5°	447.1	444.7	444.7	444.7	445.2
55°	414.8	412.4	411.4	412.4	412.9
57.5°	380.5	379.6	378.1	378.6	377.1
60°	343.8	343.8	342.3	343.3	342.3
62.5°	308.1	309.0	307.6	307.6	306.6
65°	271.3	272.3	270.8	270.8	269.9
67.5°	233.6	235.1	233.1	233.1	232.1
70°	194.4	197.4	195.4	195.9	194.9
72.5°	159.2	160.6	158.7	158.7	157.7
75°	123.9	124.9	122.9	123.4	121.9
77.5°	89.1	90.6	88.6	89.1	88.6
80°	59.8	60.2	58.8	59.3	58.3
82.5°	34.8	35.3	34.8	34.3	33.8
85°	15.7	16.2	15.7	15.7	15.2
87.5°	3.9	3.9	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)