

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: P974010

Luminaire Tested: FLR2-22-25HE-L850-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974010
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: FLR2-22-25HE-L850-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

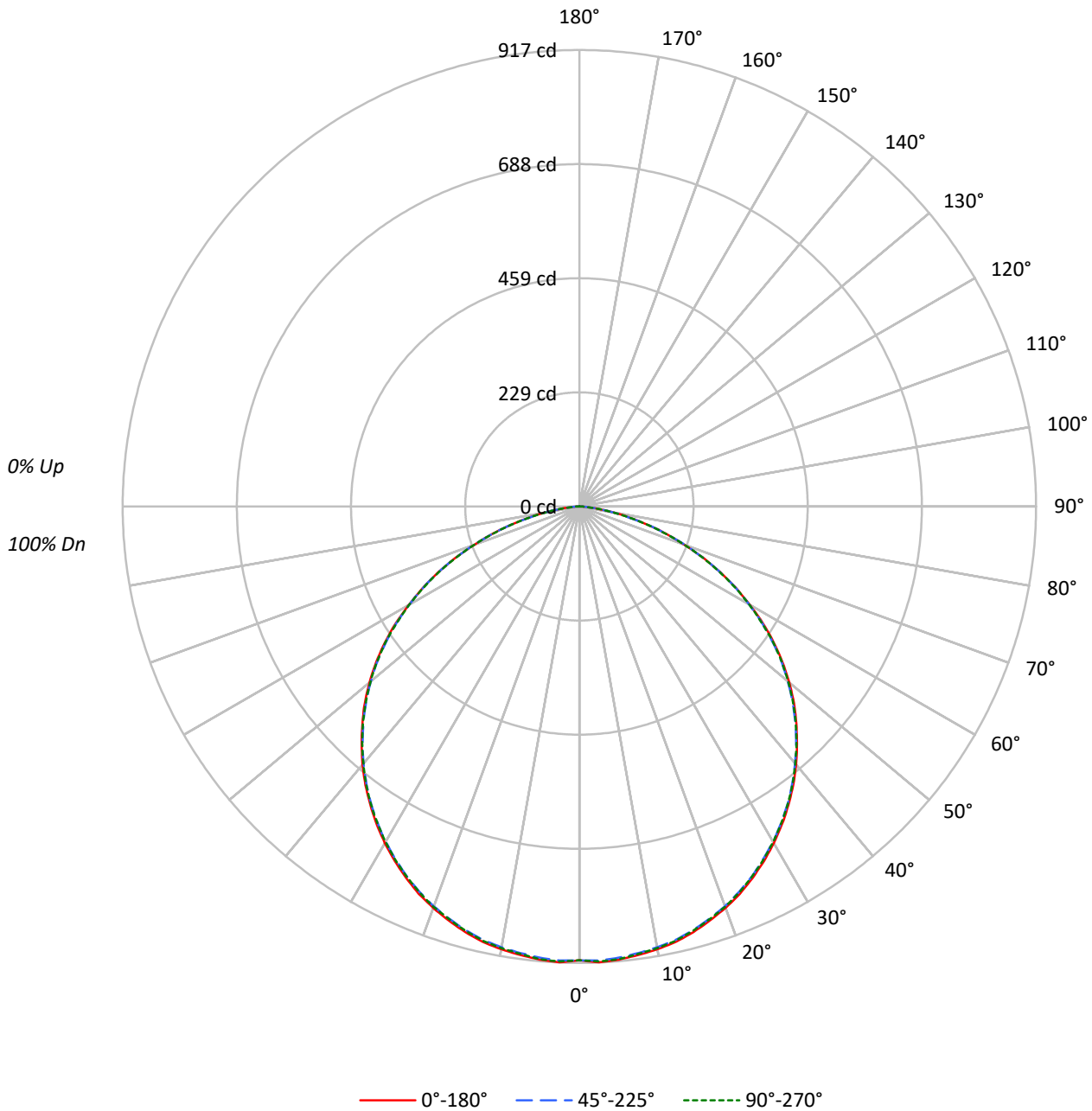
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2549.5 lumens
Efficiency: N/A
Efficacy: 132.8 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): 19.2
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°	2453	2453	2453
5°	2469	2458	2466
10°	2468	2457	2462
15°	2466	2455	2458
20°	2458	2448	2451
25°	2445	2434	2436
30°	2427	2416	2418
35°	2405	2395	2397
40°	2380	2368	2370
45°	2344	2334	2338
50°	2303	2287	2291
55°	2237	2219	2227
60°	2127	2118	2118
65°	1987	1983	1976
70°	1759	1768	1763
75°	1482	1469	1458
80°	1065	1048	1038
85°	556	556	540

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2344 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	3.4
10°-20°	248.3	9.7
20°-30°	377.3	14.8
30°-40°	456.0	17.9
40°-50°	473.3	18.6
50°-60°	423.1	16.6
60°-70°	307.6	12.1
70°-80°	151.3	5.9
80°-90°	26.2	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°	711.8	27.9
0°-40°	1167.8	45.8
0°-60°	2064.3	81.0
0°-90°	2549.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2549.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	912	912	912	912	912	
5°	914	903	910	907	913	87
15°	885	875	881	879	882	250
25°	823	814	820	818	820	379
35°	732	727	729	730	730	458
45°	616	613	613	614	614	475
55°	477	474	473	474	475	425
65°	312	313	311	311	310	308
75°	142	144	141	142	140	151
85°	18	19	18	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	911.7	911.7	911.7	911.7	911.7
2.5°	916.7	906.0	912.8	908.8	915.0
5°	913.9	903.2	910.0	906.6	912.8
7.5°	908.8	898.1	904.9	901.5	906.6
10°	903.2	892.0	899.3	895.9	901.0
12.5°	895.9	885.2	892.0	889.1	893.6
15°	885.2	875.1	881.3	879.0	882.4
17.5°	872.2	862.1	868.3	866.6	869.4
20°	858.2	848.6	854.8	853.1	855.9
22.5°	842.4	832.3	837.9	836.8	839.0
25°	823.3	814.2	819.9	818.2	820.4
27.5°	803.0	794.5	799.0	799.0	800.2
30°	781.0	773.1	777.6	777.6	778.2
32.5°	757.4	751.2	754.0	754.6	754.6
35°	732.0	727.0	729.2	729.8	729.8
37.5°	705.6	700.5	702.2	703.3	703.3
40°	677.4	672.9	674.0	675.2	674.6
42.5°	647.0	643.6	644.2	645.3	645.3
45°	616.0	613.2	613.2	614.3	614.3
47.5°	584.5	581.7	580.6	581.7	581.7
50°	550.1	547.3	546.2	547.3	547.3
52.5°	514.1	511.3	511.3	511.3	511.9
55°	476.9	474.1	473.0	474.1	474.7
57.5°	437.5	436.4	434.7	435.3	433.6
60°	395.3	395.3	393.6	394.7	393.6
62.5°	354.2	355.3	353.6	353.6	352.5
65°	312.0	313.1	311.4	311.4	310.3
67.5°	268.6	270.3	268.0	268.0	266.9
70°	223.6	226.9	224.7	225.2	224.1
72.5°	183.0	184.7	182.4	182.4	181.3
75°	142.5	143.6	141.3	141.9	140.2
77.5°	102.5	104.2	101.9	102.5	101.9
80°	68.7	69.3	67.6	68.1	67.0
82.5°	40.0	40.5	40.0	39.4	38.9
85°	18.0	18.6	18.0	18.0	17.5
87.5°	4.5	4.5	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)