

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: P973771

Luminaire Tested: FLR2-22-35HE-L930-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973771
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-L930-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

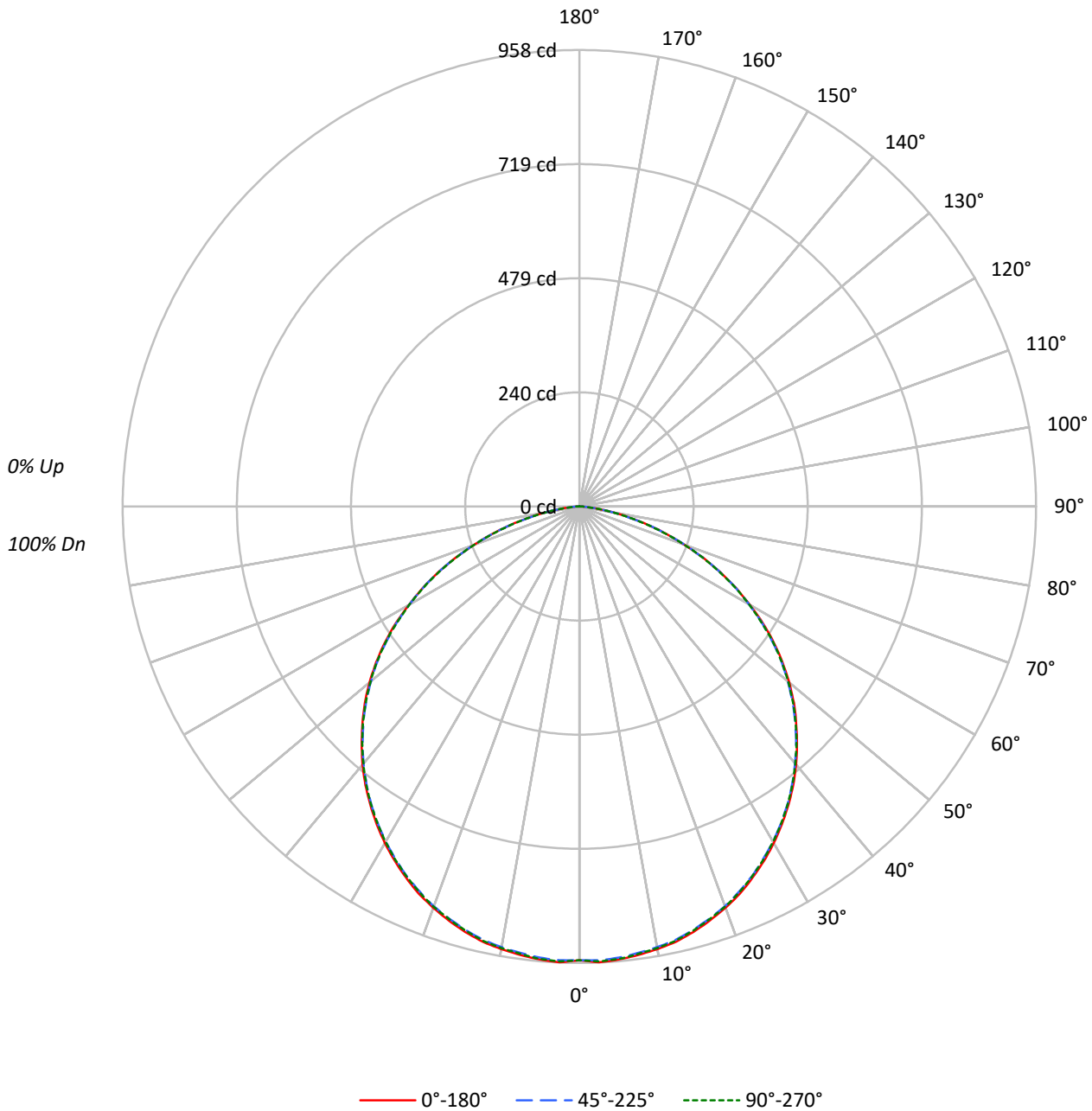
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2663.1 lumens
Efficiency: N/A
Efficacy: 97.9 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): 27.2
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°	2563	2563	2563
5°	2579	2568	2575
10°	2578	2567	2572
15°	2576	2564	2568
20°	2567	2557	2560
25°	2553	2543	2545
30°	2535	2524	2526
35°	2512	2502	2504
40°	2486	2473	2475
45°	2449	2437	2442
50°	2406	2388	2393
55°	2337	2318	2326
60°	2222	2213	2213
65°	2075	2071	2064
70°	1837	1847	1842
75°	1547	1535	1523
80°	1113	1094	1085
85°	580	580	562

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2449 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	3.4
10°-20°	259.3	9.7
20°-30°	394.1	14.8
30°-40°	476.3	17.9
40°-50°	494.4	18.6
50°-60°	442.0	16.6
60°-70°	321.4	12.1
70°-80°	158.0	5.9
80°-90°	27.4	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°	743.6	27.9
0°-40°	1219.9	45.8
0°-60°	2156.3	81.0
0°-90°	2663.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2663.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	955	943	950	947	953	91
15°	925	914	920	918	922	261
25°	860	850	856	855	857	396
35°	765	759	762	762	762	478
45°	644	640	640	642	642	496
55°	498	495	494	495	496	444
65°	326	327	325	325	324	321
75°	149	150	148	148	146	158
85°	19	19	19	19	18	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	952.3	952.3	952.3	952.3	952.3
2.5°	957.6	946.4	953.4	949.3	955.8
5°	954.6	943.4	950.5	947.0	953.4
7.5°	949.3	938.2	945.2	941.7	947.0
10°	943.4	931.7	939.3	935.8	941.1
12.5°	935.8	924.6	931.7	928.7	933.5
15°	924.6	914.0	920.5	918.2	921.7
17.5°	911.1	900.5	907.0	905.2	908.2
20°	896.4	886.4	892.9	891.1	894.0
22.5°	879.9	869.3	875.2	874.0	876.4
25°	859.9	850.5	856.4	854.6	857.0
27.5°	838.8	829.9	834.6	834.6	835.8
30°	815.8	807.6	812.3	812.3	812.9
32.5°	791.1	784.6	787.6	788.2	788.2
35°	764.6	759.3	761.7	762.3	762.3
37.5°	737.0	731.7	733.5	734.6	734.6
40°	707.6	702.9	704.1	705.2	704.6
42.5°	675.8	672.3	672.9	674.1	674.1
45°	643.5	640.5	640.5	641.7	641.7
47.5°	610.5	607.6	606.4	607.6	607.6
50°	574.7	571.7	570.5	571.7	571.7
52.5°	537.0	534.1	534.1	534.1	534.7
55°	498.2	495.3	494.1	495.3	495.8
57.5°	457.0	455.8	454.1	454.7	452.9
60°	412.9	412.9	411.1	412.3	411.1
62.5°	370.0	371.1	369.4	369.4	368.2
65°	325.9	327.0	325.3	325.3	324.1
67.5°	280.6	282.3	280.0	280.0	278.8
70°	233.5	237.0	234.7	235.3	234.1
72.5°	191.2	192.9	190.6	190.6	189.4
75°	148.8	150.0	147.6	148.2	146.5
77.5°	107.0	108.8	106.5	107.0	106.5
80°	71.8	72.3	70.6	71.2	70.0
82.5°	41.8	42.3	41.8	41.2	40.6
85°	18.8	19.4	18.8	18.8	18.2
87.5°	4.7	4.7	4.7	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)