

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: P974636

Luminaire Tested: FLR2-24-100HE-L930-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-100HE-L930-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

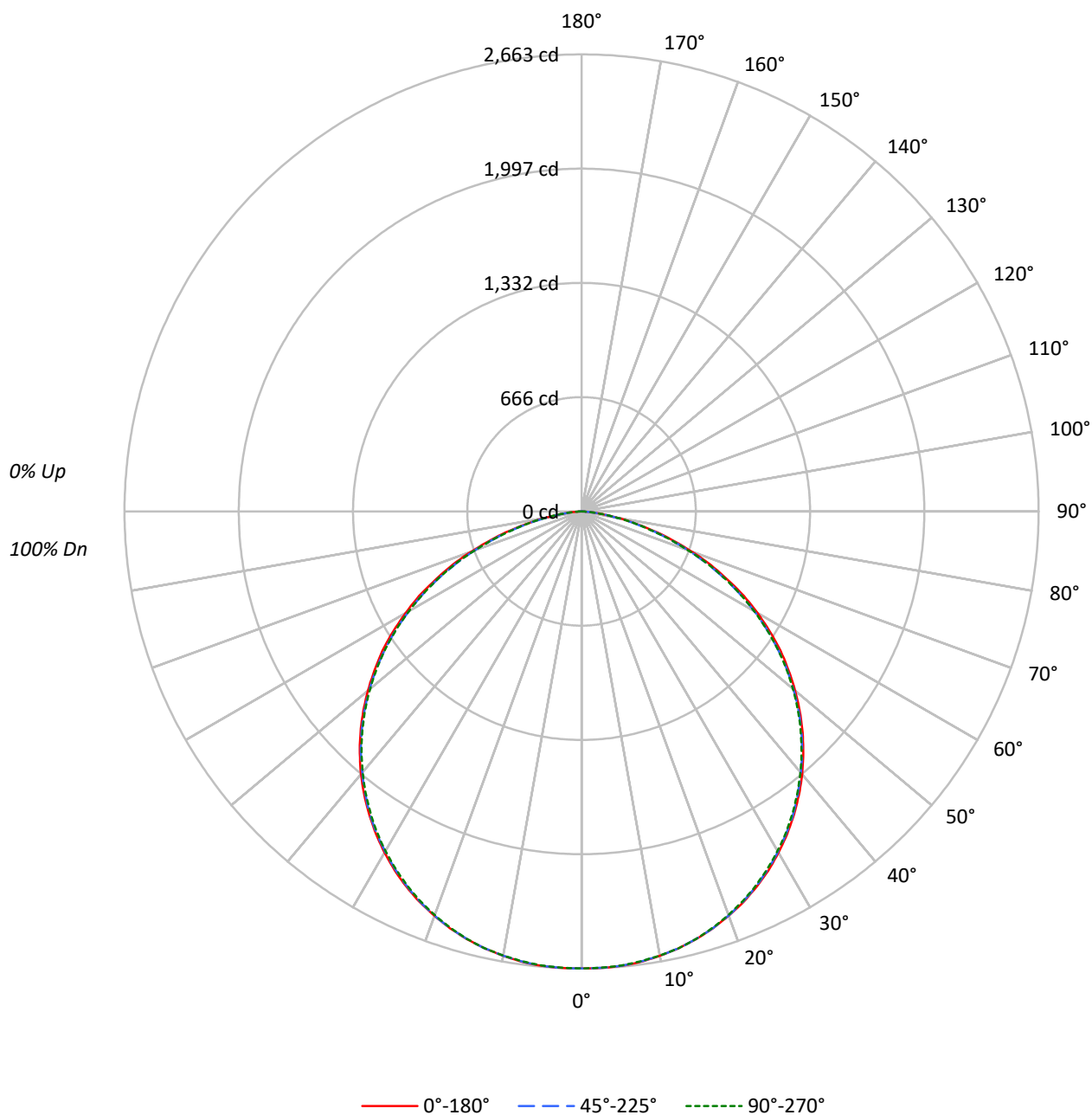
Lumens per Lamp: N/A
Luminaire Lumens: 7525.6 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 82.6
Input Voltage (V):
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					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27		
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3583	3583	3583
5°	3590	3590	3587
10°	3592	3591	3590
15°	3593	3592	3592
20°	3590	3588	3583
25°	3583	3576	3570
30°	3567	3556	3549
35°	3543	3534	3521
40°	3512	3490	3485
45°	3467	3447	3436
50°	3402	3376	3366
55°	3321	3274	3270
60°	3183	3126	3126
65°	2978	2908	2917
70°	2680	2597	2590
75°	2250	2161	2151
80°	1643	1562	1629
85°	929	855	871

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3467 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.7	3.4
10°-20°	728.1	9.7
20°-30°	1110.1	14.8
30°-40°	1345.0	17.9
40°-50°	1397.1	18.6
50°-60°	1249.8	16.6
60°-70°	910.9	12.1
70°-80°	451.1	6.0
80°-90°	80.6	1.1
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°	2091.0	27.8
0°-40°	3436.0	45.7
0°-60°	6082.9	80.8
0°-90°	7525.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7525.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2663	2663	2663	2663	2663	
5°	2658	2659	2658	2658	2656	253
15°	2580	2579	2579	2580	2579	728
25°	2413	2410	2409	2408	2405	1112
35°	2157	2154	2152	2148	2144	1349
45°	1822	1818	1811	1808	1806	1404
55°	1416	1405	1396	1396	1394	1261
65°	935	928	913	917	916	927
75°	433	426	416	423	414	461
85°	60	55	55	56	56	83
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2662.7	2662.7	2662.7	2662.7	2662.7
2.5°	2662.7	2661.7	2661.7	2662.7	2660.8
5°	2657.9	2658.9	2657.9	2657.9	2656.0
7.5°	2647.4	2646.5	2645.5	2646.5	2643.6
10°	2629.3	2629.3	2628.3	2629.3	2627.3
12.5°	2607.3	2607.3	2607.3	2608.2	2607.3
15°	2579.6	2578.6	2578.6	2580.5	2578.6
17.5°	2547.1	2546.1	2546.1	2545.2	2543.3
20°	2507.0	2507.0	2506.0	2505.1	2502.2
22.5°	2464.0	2463.0	2460.2	2460.2	2456.3
25°	2413.3	2410.5	2408.6	2407.6	2404.7
27.5°	2357.9	2354.1	2351.2	2349.3	2346.5
30°	2295.8	2292.0	2289.1	2286.3	2284.4
32.5°	2228.9	2227.0	2222.3	2221.3	2217.5
35°	2157.3	2154.4	2151.6	2147.7	2143.9
37.5°	2080.9	2078.0	2071.3	2069.4	2066.5
40°	1999.7	1995.8	1987.2	1987.2	1984.4
42.5°	1912.7	1908.9	1903.2	1899.3	1897.4
45°	1821.9	1818.1	1811.4	1807.6	1805.7
47.5°	1725.5	1722.6	1714.9	1712.1	1709.2
50°	1625.1	1621.3	1612.7	1610.8	1607.9
52.5°	1520.0	1518.1	1506.7	1505.7	1502.8
55°	1415.9	1405.4	1395.8	1395.8	1393.9
57.5°	1301.3	1293.6	1281.2	1281.2	1279.3
60°	1182.8	1176.1	1161.8	1163.7	1161.8
62.5°	1067.2	1052.9	1039.5	1045.2	1040.4
65°	935.3	927.7	913.4	917.2	916.2
67.5°	815.0	800.6	787.2	794.9	791.1
70°	681.2	673.6	660.2	667.8	658.3
72.5°	555.1	548.4	535.0	543.6	534.1
75°	432.8	426.1	415.6	423.2	413.7
77.5°	317.2	312.4	302.9	310.5	312.4
80°	212.1	206.4	201.6	208.3	210.2
82.5°	124.2	120.4	118.5	119.4	124.2
85°	60.2	55.4	55.4	56.4	56.4
87.5°	16.2	14.3	16.2	17.2	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)