

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: P974911

Luminaire Tested: FLR2-24-100HE-L940-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974911
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-L940-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

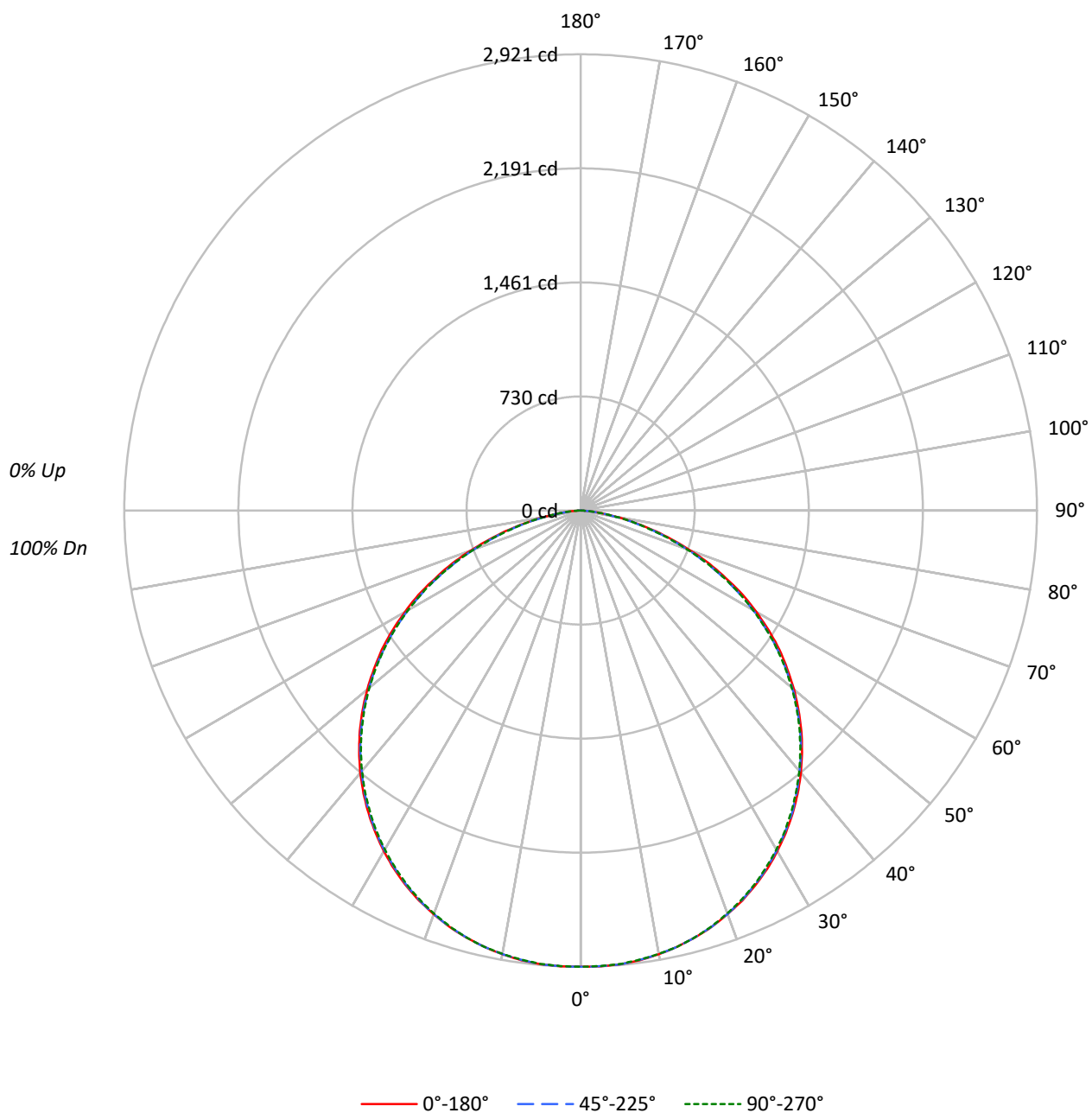
Lumens per Lamp: N/A
Luminaire Lumens: 8256.8 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	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	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3931	3931	3931
5°	3939	3939	3936
10°	3941	3940	3938
15°	3942	3941	3941
20°	3938	3937	3931
25°	3931	3923	3917
30°	3913	3902	3894
35°	3888	3877	3864
40°	3853	3830	3824
45°	3804	3782	3770
50°	3732	3704	3693
55°	3644	3593	3588
60°	3492	3430	3430
65°	3267	3190	3201
70°	2940	2849	2841
75°	2468	2371	2360
80°	1803	1714	1787
85°	1019	939	954

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3804 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.3	3.4
10°-20°	798.9	9.7
20°-30°	1218.0	14.8
30°-40°	1475.7	17.9
40°-50°	1532.9	18.6
50°-60°	1371.3	16.6
60°-70°	999.4	12.1
70°-80°	494.9	6.0
80°-90°	88.5	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°	2294.2	27.8
0°-40°	3769.9	45.7
0°-60°	6674.0	80.8
0°-90°	8256.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8256.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2921	2921	2921	2921	2921	
5°	2916	2917	2916	2916	2914	277
15°	2830	2829	2829	2831	2829	799
25°	2648	2645	2643	2642	2638	1220
35°	2367	2364	2361	2356	2352	1480
45°	1999	1995	1987	1983	1981	1541
55°	1554	1542	1532	1532	1529	1384
65°	1026	1018	1002	1006	1005	1017
75°	475	468	456	464	454	506
85°	66	61	61	62	62	91
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2921.4	2921.4	2921.4	2921.4	2921.4
2.5°	2921.4	2920.4	2920.4	2921.4	2919.3
5°	2916.2	2917.2	2916.2	2916.2	2914.1
7.5°	2904.6	2903.6	2902.5	2903.6	2900.5
10°	2884.7	2884.7	2883.7	2884.7	2882.6
12.5°	2860.6	2860.6	2860.6	2861.7	2860.6
15°	2830.2	2829.2	2829.2	2831.3	2829.2
17.5°	2794.6	2793.5	2793.5	2792.5	2790.4
20°	2750.6	2750.6	2749.5	2748.5	2745.3
22.5°	2703.4	2702.3	2699.2	2699.2	2695.0
25°	2647.8	2644.7	2642.6	2641.5	2638.4
27.5°	2587.0	2582.8	2579.7	2577.6	2574.5
30°	2518.9	2514.7	2511.6	2508.4	2506.3
32.5°	2445.5	2443.4	2438.2	2437.1	2432.9
35°	2366.9	2363.8	2360.6	2356.4	2352.2
37.5°	2283.0	2279.9	2272.6	2270.5	2267.3
40°	2193.9	2189.8	2180.3	2180.3	2177.2
42.5°	2098.6	2094.4	2088.1	2083.9	2081.8
45°	1999.0	1994.8	1987.4	1983.3	1981.2
47.5°	1893.1	1890.0	1881.6	1878.4	1875.3
50°	1783.0	1778.8	1769.4	1767.3	1764.2
52.5°	1667.7	1665.6	1653.1	1652.0	1648.9
55°	1553.5	1541.9	1531.5	1531.5	1529.4
57.5°	1427.7	1419.3	1405.7	1405.7	1403.6
60°	1297.7	1290.4	1274.6	1276.7	1274.6
62.5°	1170.9	1155.1	1140.5	1146.8	1141.5
65°	1026.2	1017.8	1002.1	1006.3	1005.3
67.5°	894.1	878.4	863.7	872.1	867.9
70°	747.4	739.0	724.3	732.7	722.2
72.5°	609.0	601.7	587.0	596.4	586.0
75°	474.8	467.5	456.0	464.4	453.9
77.5°	348.0	342.8	332.3	340.7	342.8
80°	232.7	226.4	221.2	228.5	230.6
82.5°	136.3	132.1	130.0	131.0	136.3
85°	66.0	60.8	60.8	61.8	61.8
87.5°	17.8	15.7	17.8	18.9	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)