

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: P974811

Luminaire Tested: FLR2-24-90HE-L935-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974811
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: FLR2-24-90HE-L935-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

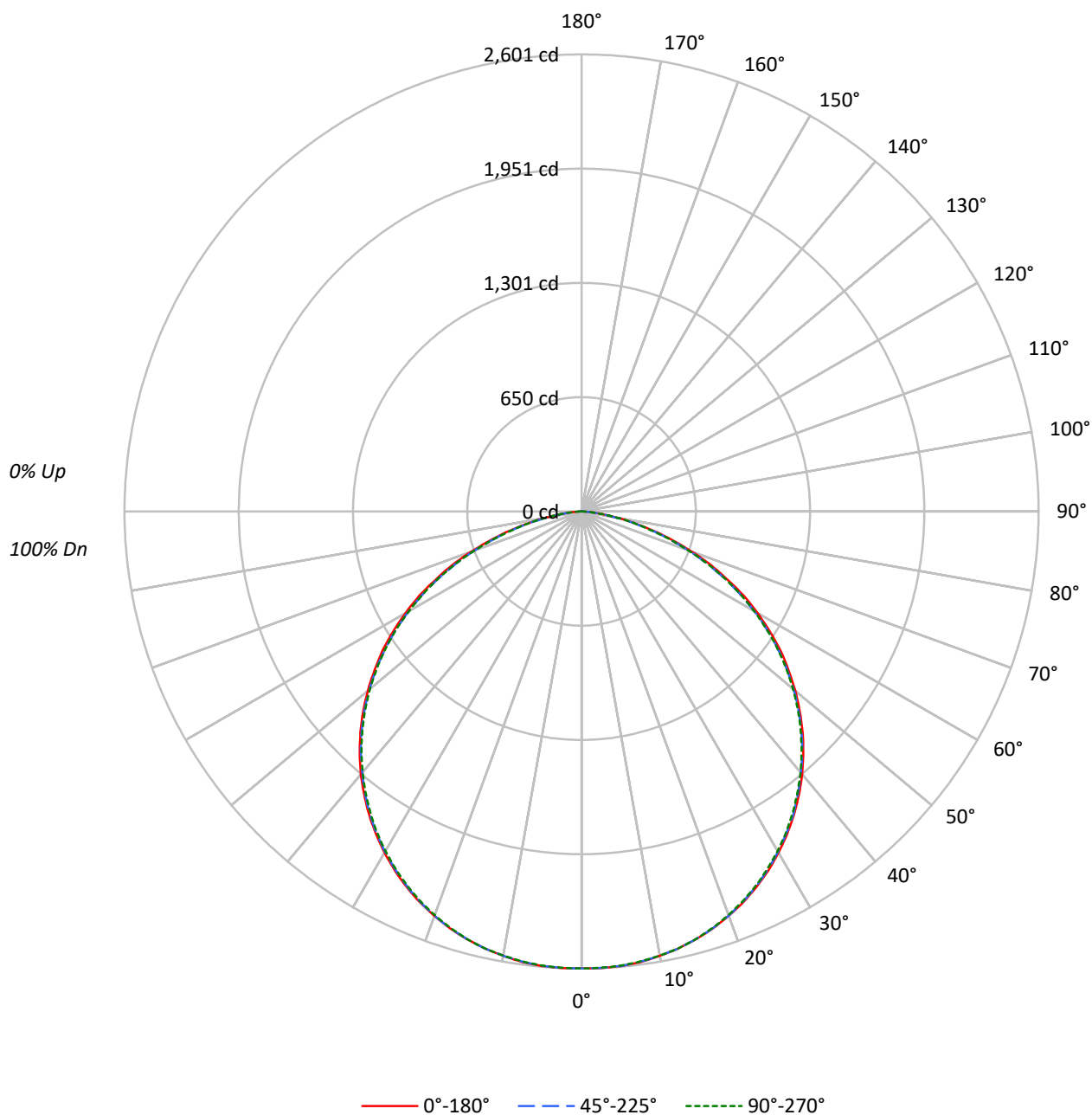
Lumens per Lamp: N/A
Luminaire Lumens: 7351.6 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.3
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°	3500	3500	3500
5°	3507	3507	3504
10°	3509	3508	3507
15°	3510	3509	3509
20°	3507	3505	3500
25°	3500	3493	3487
30°	3484	3474	3467
35°	3461	3452	3440
40°	3431	3410	3405
45°	3387	3367	3357
50°	3323	3298	3288
55°	3245	3199	3194
60°	3109	3054	3054
65°	2909	2840	2849
70°	2618	2537	2530
75°	2198	2111	2101
80°	1605	1526	1591
85°	908	835	851

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3387 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.9	3.4
10°-20°	711.3	9.7
20°-30°	1084.5	14.8
30°-40°	1313.9	17.9
40°-50°	1364.8	18.6
50°-60°	1220.9	16.6
60°-70°	889.8	12.1
70°-80°	440.7	6.0
80°-90°	78.8	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°	2042.7	27.8
0°-40°	3356.6	45.7
0°-60°	5942.3	80.8
0°-90°	7351.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7351.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2601	2601	2601	2601	2601	
5°	2596	2597	2596	2596	2595	247
15°	2520	2519	2519	2521	2519	711
25°	2358	2355	2353	2352	2349	1087
35°	2107	2105	2102	2098	2094	1318
45°	1780	1776	1770	1766	1764	1372
55°	1383	1373	1364	1364	1362	1232
65°	914	906	892	896	895	906
75°	423	416	406	414	404	451
85°	59	54	54	55	55	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2601.1	2601.1	2601.1	2601.1	2601.1
2.5°	2601.1	2600.2	2600.2	2601.1	2599.3
5°	2596.5	2597.4	2596.5	2596.5	2594.6
7.5°	2586.2	2585.3	2584.3	2585.3	2582.5
10°	2568.5	2568.5	2567.5	2568.5	2566.6
12.5°	2547.0	2547.0	2547.0	2547.9	2547.0
15°	2519.9	2519.0	2519.0	2520.9	2519.0
17.5°	2488.2	2487.3	2487.3	2486.3	2484.5
20°	2449.0	2449.0	2448.1	2447.1	2444.3
22.5°	2407.0	2406.1	2403.3	2403.3	2399.5
25°	2357.5	2354.7	2352.9	2351.9	2349.1
27.5°	2303.4	2299.7	2296.9	2295.0	2292.2
30°	2242.7	2239.0	2236.2	2233.4	2231.5
32.5°	2177.4	2175.5	2170.9	2169.9	2166.2
35°	2107.4	2104.6	2101.8	2098.1	2094.3
37.5°	2032.7	2029.9	2023.4	2021.5	2018.7
40°	1953.4	1949.7	1941.3	1941.3	1938.5
42.5°	1868.5	1864.8	1859.2	1855.4	1853.6
45°	1779.8	1776.1	1769.6	1765.8	1764.0
47.5°	1685.6	1682.8	1675.3	1672.5	1669.7
50°	1587.6	1583.8	1575.4	1573.6	1570.8
52.5°	1484.9	1483.0	1471.8	1470.9	1468.1
55°	1383.2	1372.9	1363.6	1363.6	1361.7
57.5°	1271.2	1263.7	1251.6	1251.6	1249.7
60°	1155.4	1148.9	1134.9	1136.8	1134.9
62.5°	1042.5	1028.5	1015.4	1021.0	1016.4
65°	913.7	906.2	892.2	896.0	895.0
67.5°	796.1	782.1	769.0	776.5	772.8
70°	665.4	658.0	644.9	652.4	643.1
72.5°	542.3	535.7	522.7	531.1	521.7
75°	422.8	416.3	406.0	413.5	404.1
77.5°	309.9	305.2	295.9	303.3	305.2
80°	207.2	201.6	196.9	203.5	205.3
82.5°	121.3	117.6	115.7	116.7	121.3
85°	58.8	54.1	54.1	55.1	55.1
87.5°	15.9	14.0	15.9	16.8	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)