

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: P974812

Luminaire Tested: FLR2-24-100HE-L935-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974812
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-L935-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

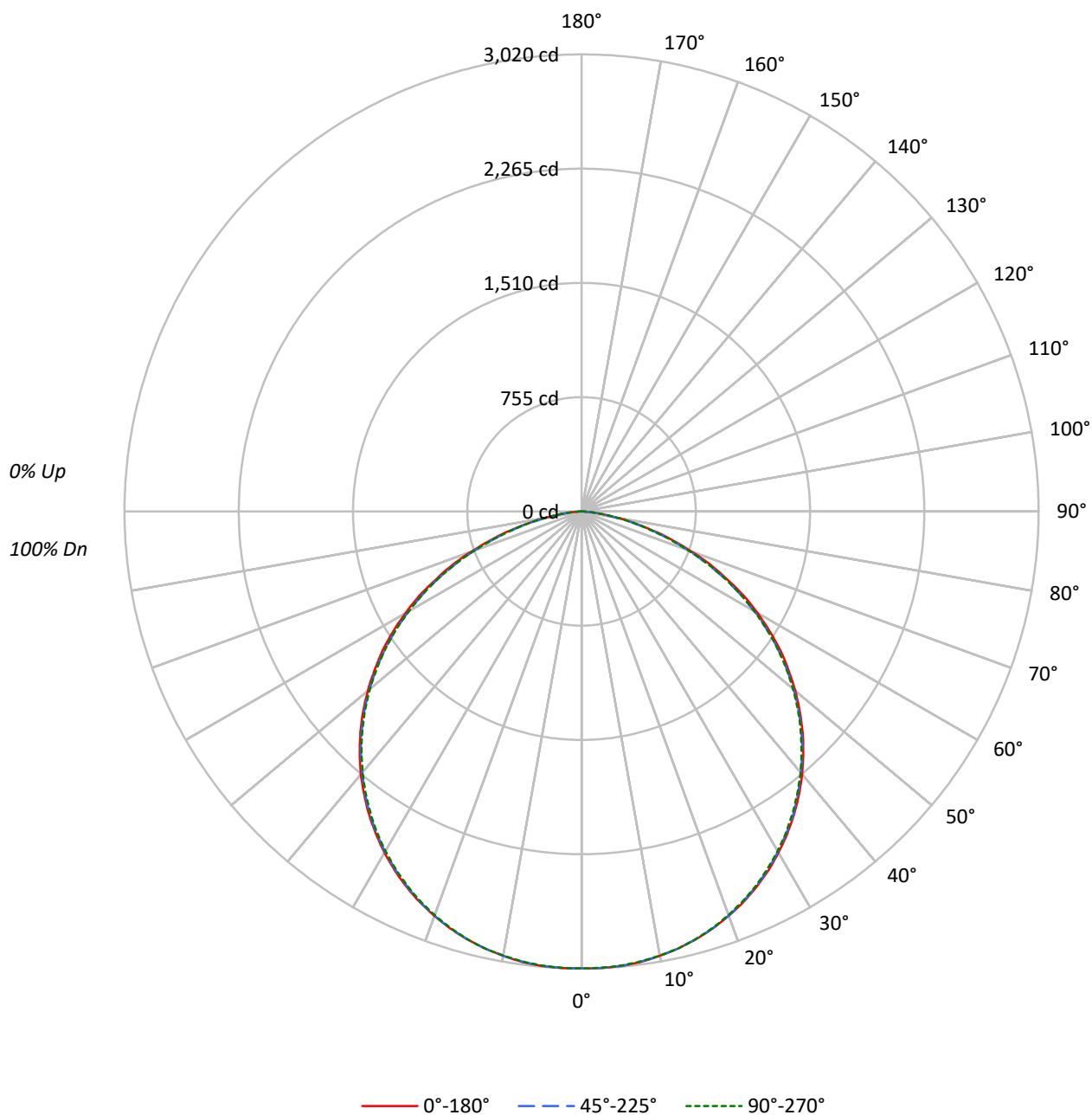
Lumens per Lamp: N/A
Luminaire Lumens: 8535.9 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	4064	4064	4064
5°	4072	4072	4069
10°	4074	4073	4072
15°	4076	4074	4074
20°	4071	4070	4064
25°	4064	4056	4049
30°	4046	4034	4025
35°	4019	4008	3994
40°	3984	3959	3953
45°	3932	3910	3897
50°	3858	3829	3818
55°	3767	3714	3709
60°	3610	3546	3546
65°	3378	3298	3309
70°	3039	2946	2937
75°	2552	2451	2439
80°	1864	1772	1847
85°	1054	971	986

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3932 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.7	3.4
10°-20°	825.9	9.7
20°-30°	1259.2	14.8
30°-40°	1525.6	17.9
40°-50°	1584.7	18.6
50°-60°	1417.6	16.6
60°-70°	1033.2	12.1
70°-80°	511.7	6.0
80°-90°	91.5	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°	2371.7	27.8
0°-40°	3897.3	45.7
0°-60°	6899.6	80.8
0°-90°	8535.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8535.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3020	3020	3020	3020	3020	
5°	3015	3016	3015	3015	3013	287
15°	2926	2925	2925	2927	2925	826
25°	2737	2734	2732	2731	2728	1262
35°	2447	2444	2440	2436	2432	1530
45°	2066	2062	2055	2050	2048	1593
55°	1606	1594	1583	1583	1581	1431
65°	1061	1052	1036	1040	1039	1052
75°	491	483	471	480	469	523
85°	68	63	63	64	64	95
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3020.1	3020.1	3020.1	3020.1	3020.1
2.5°	3020.1	3019.1	3019.1	3020.1	3018.0
5°	3014.7	3015.8	3014.7	3014.7	3012.6
7.5°	3002.8	3001.7	3000.6	3001.7	2998.5
10°	2982.2	2982.2	2981.1	2982.2	2980.1
12.5°	2957.3	2957.3	2957.3	2958.4	2957.3
15°	2925.9	2924.8	2924.8	2927.0	2924.8
17.5°	2889.0	2887.9	2887.9	2886.9	2884.7
20°	2843.5	2843.5	2842.4	2841.3	2838.1
22.5°	2794.7	2793.7	2790.4	2790.4	2786.1
25°	2737.3	2734.1	2731.9	2730.8	2727.6
27.5°	2674.5	2670.1	2666.9	2664.7	2661.5
30°	2604.0	2599.7	2596.4	2593.2	2591.0
32.5°	2528.2	2526.0	2520.6	2519.5	2515.2
35°	2446.9	2443.6	2440.4	2436.1	2431.7
37.5°	2360.2	2356.9	2349.4	2347.2	2343.9
40°	2268.1	2263.8	2254.0	2254.0	2250.8
42.5°	2169.5	2165.1	2158.6	2154.3	2152.1
45°	2066.5	2062.2	2054.6	2050.3	2048.1
47.5°	1957.1	1953.8	1945.2	1941.9	1938.7
50°	1843.3	1839.0	1829.2	1827.0	1823.8
52.5°	1724.1	1721.9	1708.9	1707.8	1704.6
55°	1606.0	1594.1	1583.2	1583.2	1581.1
57.5°	1475.9	1467.3	1453.2	1453.2	1451.0
60°	1341.6	1334.0	1317.7	1319.9	1317.7
62.5°	1210.4	1194.2	1179.0	1185.5	1180.1
65°	1060.9	1052.2	1036.0	1040.3	1039.2
67.5°	924.4	908.1	892.9	901.6	897.3
70°	772.6	764.0	748.8	757.5	746.6
72.5°	629.6	622.0	606.8	616.6	605.8
75°	490.9	483.3	471.4	480.1	469.2
77.5°	359.8	354.4	343.5	352.2	354.4
80°	240.6	234.1	228.7	236.2	238.4
82.5°	140.9	136.5	134.4	135.5	140.9
85°	68.3	62.9	62.9	63.9	63.9
87.5°	18.4	16.3	18.4	19.5	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)