

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: P973855

Luminaire Tested: FLR2-22-35HE-L935-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973855
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-L935-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2727.2 lumens
Efficiency: N/A
Efficacy: 100.3 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									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	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°	2624	2624	2624
5°	2641	2629	2638
10°	2640	2629	2634
15°	2638	2626	2630
20°	2629	2619	2622
25°	2615	2604	2606
30°	2596	2585	2587
35°	2573	2563	2565
40°	2545	2533	2535
45°	2508	2496	2501
50°	2464	2446	2451
55°	2394	2374	2382
60°	2276	2266	2266
65°	2125	2121	2113
70°	1881	1891	1886
75°	1585	1572	1560
80°	1139	1120	1111
85°	596	596	577

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2508 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	3.4
10°-20°	265.6	9.7
20°-30°	403.6	14.8
30°-40°	487.8	17.9
40°-50°	506.3	18.6
50°-60°	452.6	16.6
60°-70°	329.1	12.1
70°-80°	161.8	5.9
80°-90°	28.1	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°	761.5	27.9
0°-40°	1249.3	45.8
0°-60°	2208.2	81.0
0°-90°	2727.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2727.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	975	975	975	975	975	
5°	978	966	973	970	976	93
15°	947	936	943	940	944	267
25°	881	871	877	875	878	406
35°	783	778	780	781	781	490
45°	659	656	656	657	657	508
55°	510	507	506	507	508	455
65°	334	335	333	333	332	329
75°	152	154	151	152	150	162
85°	19	20	19	19	19	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	975.2	975.2	975.2	975.2	975.2
2.5°	980.6	969.2	976.4	972.2	978.8
5°	977.6	966.2	973.4	969.8	976.4
7.5°	972.2	960.8	968.0	964.4	969.8
10°	966.2	954.1	962.0	958.4	963.8
12.5°	958.4	946.9	954.1	951.1	955.9
15°	946.9	936.1	942.7	940.3	943.9
17.5°	933.1	922.2	928.8	927.0	930.0
20°	918.0	907.8	914.4	912.6	915.6
22.5°	901.1	890.3	896.3	895.1	897.5
25°	880.6	871.0	877.0	875.2	877.6
27.5°	859.0	849.9	854.7	854.7	856.0
30°	835.5	827.0	831.9	831.9	832.5
32.5°	810.2	803.5	806.6	807.2	807.2
35°	783.1	777.6	780.1	780.7	780.7
37.5°	754.8	749.3	751.1	752.3	752.3
40°	724.6	719.8	721.0	722.2	721.6
42.5°	692.1	688.5	689.1	690.3	690.3
45°	659.0	656.0	656.0	657.2	657.2
47.5°	625.2	622.2	621.0	622.2	622.2
50°	588.5	585.5	584.3	585.5	585.5
52.5°	550.0	546.9	546.9	546.9	547.5
55°	510.2	507.2	506.0	507.2	507.8
57.5°	468.0	466.8	465.0	465.6	463.8
60°	422.9	422.9	421.0	422.3	421.0
62.5°	378.9	380.1	378.3	378.3	377.1
65°	333.7	334.9	333.1	333.1	331.9
67.5°	287.3	289.1	286.7	286.7	285.5
70°	239.1	242.8	240.3	240.9	239.7
72.5°	195.8	197.6	195.2	195.2	194.0
75°	152.4	153.6	151.2	151.8	150.0
77.5°	109.6	111.4	109.0	109.6	109.0
80°	73.5	74.1	72.3	72.9	71.7
82.5°	42.8	43.4	42.8	42.2	41.6
85°	19.3	19.9	19.3	19.3	18.7
87.5°	4.8	4.8	4.8	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)