

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: P973939

Luminaire Tested: FLR2-22-35HE-L940-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973939
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-L940-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

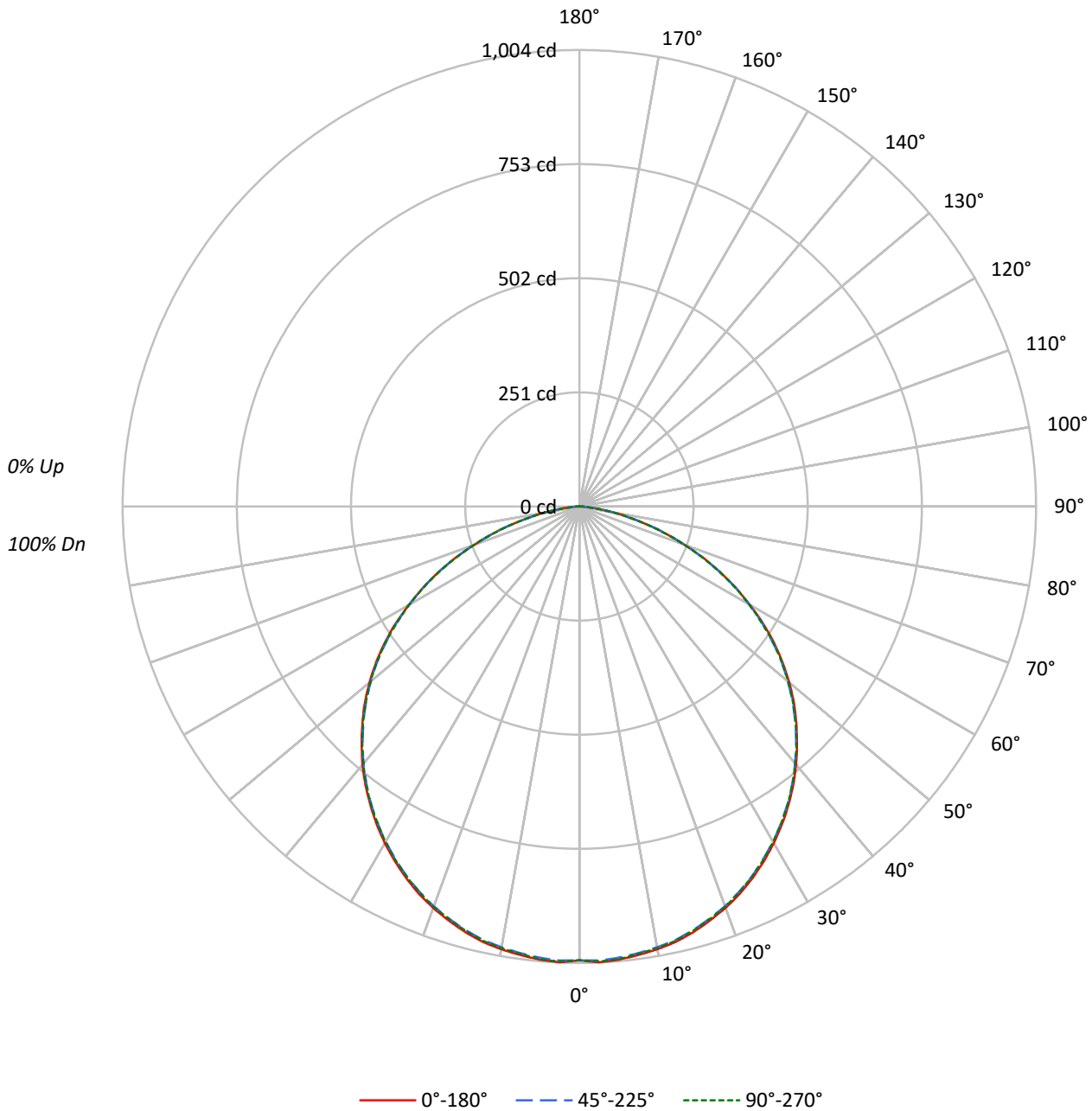
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2791.4 lumens
Efficiency: N/A
Efficacy: 102.6 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									70									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	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°	2686	2686	2686
5°	2703	2691	2700
10°	2702	2690	2696
15°	2700	2688	2691
20°	2691	2680	2684
25°	2676	2665	2667
30°	2657	2646	2647
35°	2633	2623	2625
40°	2605	2592	2595
45°	2567	2555	2560
50°	2522	2503	2509
55°	2450	2430	2438
60°	2329	2320	2320
65°	2175	2171	2163
70°	1926	1936	1931
75°	1622	1608	1596
80°	1165	1147	1137
85°	608	608	590

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2567 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	3.4
10°-20°	271.8	9.7
20°-30°	413.1	14.8
30°-40°	499.3	17.9
40°-50°	518.2	18.6
50°-60°	463.3	16.6
60°-70°	336.8	12.1
70°-80°	165.7	5.9
80°-90°	28.7	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°	779.4	27.9
0°-40°	1278.7	45.8
0°-60°	2260.2	81.0
0°-90°	2791.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2791.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	998	998	998	998	998	
5°	1001	989	996	993	999	95
15°	969	958	965	962	966	273
25°	901	892	898	896	898	415
35°	802	796	798	799	799	501
45°	674	671	671	673	673	520
55°	522	519	518	519	520	465
65°	342	343	341	341	340	337
75°	156	157	155	155	154	166
85°	20	20	20	20	19	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	998.2	998.2	998.2	998.2	998.2
2.5°	1003.7	992.0	999.4	995.1	1001.9
5°	1000.6	988.9	996.3	992.6	999.4
7.5°	995.1	983.4	990.8	987.1	992.6
10°	988.9	976.6	984.6	980.9	986.5
12.5°	980.9	969.2	976.6	973.5	978.4
15°	969.2	958.1	964.9	962.4	966.1
17.5°	955.0	943.9	950.7	948.8	951.9
20°	939.6	929.1	935.9	934.0	937.1
22.5°	922.3	911.2	917.4	916.2	918.6
25°	901.4	891.5	897.7	895.8	898.3
27.5°	879.2	869.9	874.9	874.9	876.1
30°	855.1	846.5	851.4	851.4	852.0
32.5°	829.2	822.5	825.5	826.2	826.2
35°	801.5	795.9	798.4	799.0	799.0
37.5°	772.5	767.0	768.8	770.0	770.0
40°	741.7	736.8	738.0	739.2	738.6
42.5°	708.4	704.7	705.3	706.5	706.5
45°	674.5	671.4	671.4	672.6	672.6
47.5°	640.0	636.9	635.6	636.9	636.9
50°	602.4	599.3	598.0	599.3	599.3
52.5°	562.9	559.8	559.8	559.8	560.4
55°	522.2	519.1	517.9	519.1	519.7
57.5°	479.0	477.8	476.0	476.6	474.7
60°	432.8	432.8	431.0	432.2	431.0
62.5°	387.8	389.0	387.2	387.2	385.9
65°	341.6	342.8	340.9	340.9	339.7
67.5°	294.1	295.9	293.5	293.5	292.2
70°	244.8	248.5	246.0	246.6	245.4
72.5°	200.4	202.2	199.8	199.8	198.5
75°	156.0	157.2	154.7	155.4	153.5
77.5°	112.2	114.1	111.6	112.2	111.6
80°	75.2	75.8	74.0	74.6	73.4
82.5°	43.8	44.4	43.8	43.2	42.5
85°	19.7	20.3	19.7	19.7	19.1
87.5°	4.9	4.9	4.9	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)