

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: P974403

Luminaire Tested: FLR2-24-35-L850-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974403
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: FLR2-24-35-L850-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L850-CP125
Ballast/Driver: -

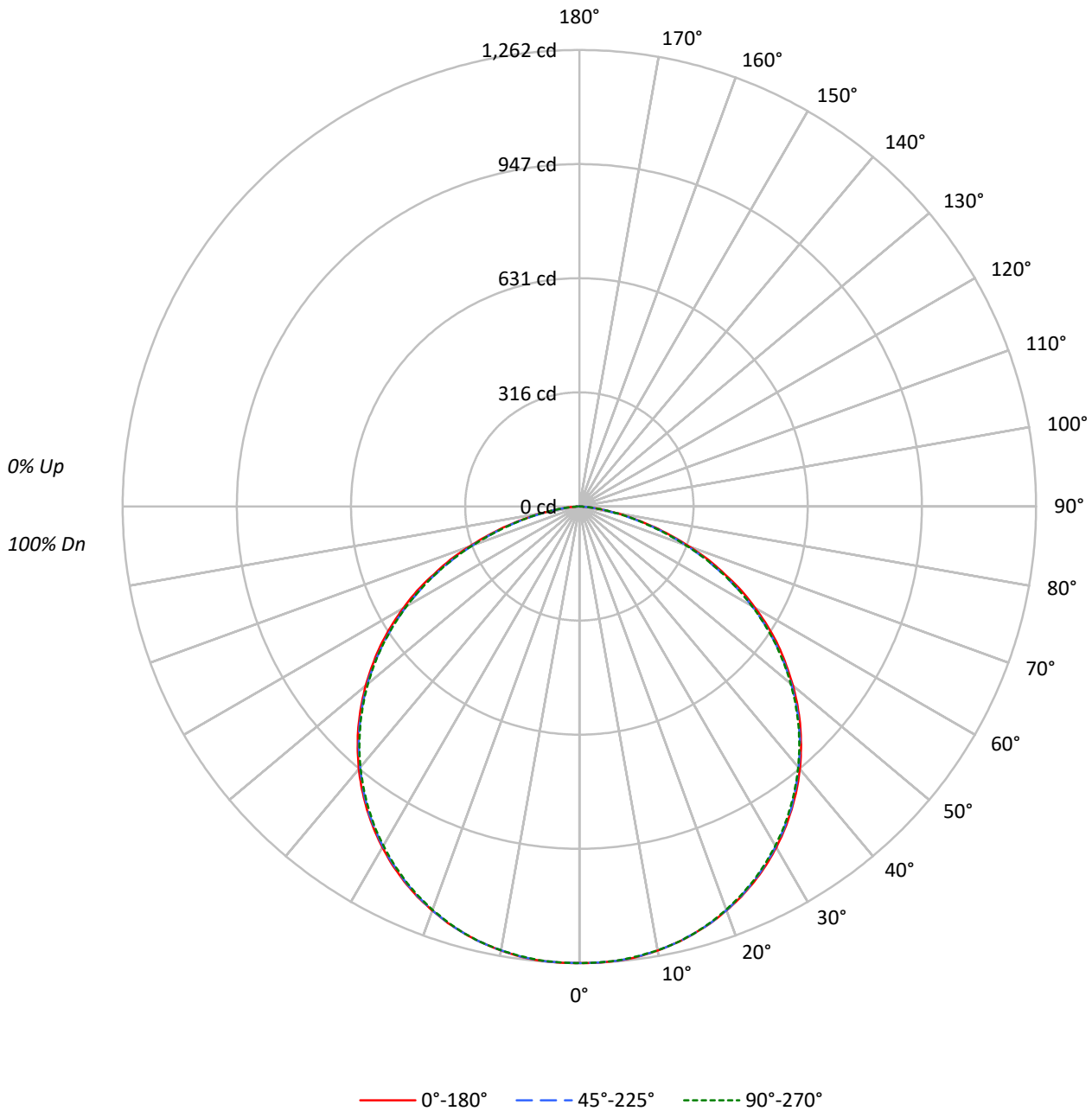
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3568.3 lumens
Efficiency: N/A
Efficacy: 125.6 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): 28.4
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	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°	1699	1699	1699
5°	1702	1702	1701
10°	1703	1703	1702
15°	1704	1703	1703
20°	1702	1701	1699
25°	1699	1695	1693
30°	1691	1686	1683
35°	1680	1676	1670
40°	1665	1655	1653
45°	1644	1634	1629
50°	1613	1601	1596
55°	1575	1552	1550
60°	1509	1482	1482
65°	1412	1379	1383
70°	1271	1231	1228
75°	1067	1025	1019
80°	779	741	773
85°	440	406	412

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1644 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	3.4
10°-20°	345.2	9.7
20°-30°	526.4	14.8
30°-40°	637.7	17.9
40°-50°	662.4	18.6
50°-60°	592.6	16.6
60°-70°	431.9	12.1
70°-80°	213.9	6.0
80°-90°	38.2	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°	991.4	27.8
0°-40°	1629.2	45.7
0°-60°	2884.2	80.8
0°-90°	3568.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3568.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1262	1262	1262	1262	1262	
5°	1260	1261	1260	1260	1259	120
15°	1223	1223	1223	1224	1223	345
25°	1144	1143	1142	1142	1140	527
35°	1023	1022	1020	1018	1016	640
45°	864	862	859	857	856	666
55°	671	666	662	662	661	598
65°	444	440	433	435	434	440
75°	205	202	197	201	196	219
85°	28	26	26	27	27	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1262.5	1262.5	1262.5	1262.5	1262.5
2.5°	1262.5	1262.1	1262.1	1262.5	1261.6
5°	1260.3	1260.7	1260.3	1260.3	1259.3
7.5°	1255.3	1254.8	1254.4	1254.8	1253.5
10°	1246.7	1246.7	1246.2	1246.7	1245.8
12.5°	1236.2	1236.2	1236.2	1236.7	1236.2
15°	1223.1	1222.7	1222.7	1223.6	1222.7
17.5°	1207.7	1207.2	1207.2	1206.8	1205.9
20°	1188.7	1188.7	1188.2	1187.8	1186.4
22.5°	1168.3	1167.8	1166.5	1166.5	1164.7
25°	1144.3	1142.9	1142.0	1141.6	1140.2
27.5°	1118.0	1116.2	1114.8	1113.9	1112.6
30°	1088.6	1086.8	1085.4	1084.0	1083.1
32.5°	1056.9	1055.9	1053.7	1053.2	1051.4
35°	1022.9	1021.5	1020.2	1018.3	1016.5
37.5°	986.6	985.3	982.1	981.2	979.8
40°	948.1	946.3	942.2	942.2	940.9
42.5°	906.9	905.1	902.4	900.6	899.7
45°	863.9	862.1	858.9	857.1	856.2
47.5°	818.1	816.8	813.1	811.8	810.4
50°	770.6	768.7	764.7	763.8	762.4
52.5°	720.7	719.8	714.4	713.9	712.6
55°	671.3	666.4	661.8	661.8	660.9
57.5°	617.0	613.4	607.5	607.5	606.6
60°	560.8	557.6	550.8	551.8	550.8
62.5°	506.0	499.2	492.9	495.6	493.3
65°	443.5	439.9	433.1	434.9	434.4
67.5°	386.4	379.6	373.3	376.9	375.1
70°	323.0	319.4	313.0	316.6	312.1
72.5°	263.2	260.0	253.7	257.8	253.2
75°	205.2	202.0	197.1	200.7	196.1
77.5°	150.4	148.1	143.6	147.2	148.1
80°	100.6	97.8	95.6	98.8	99.7
82.5°	58.9	57.1	56.2	56.6	58.9
85°	28.5	26.3	26.3	26.7	26.7
87.5°	7.7	6.8	7.7	8.2	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)