

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: P973264

Luminaire Tested: FLR2-14-20HE-L850-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-14-20HE-L850-CP125
Description: 1*4 FLR-2.0 2000 Lumen High Efficacy at 5000CCT & 80CRI with Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

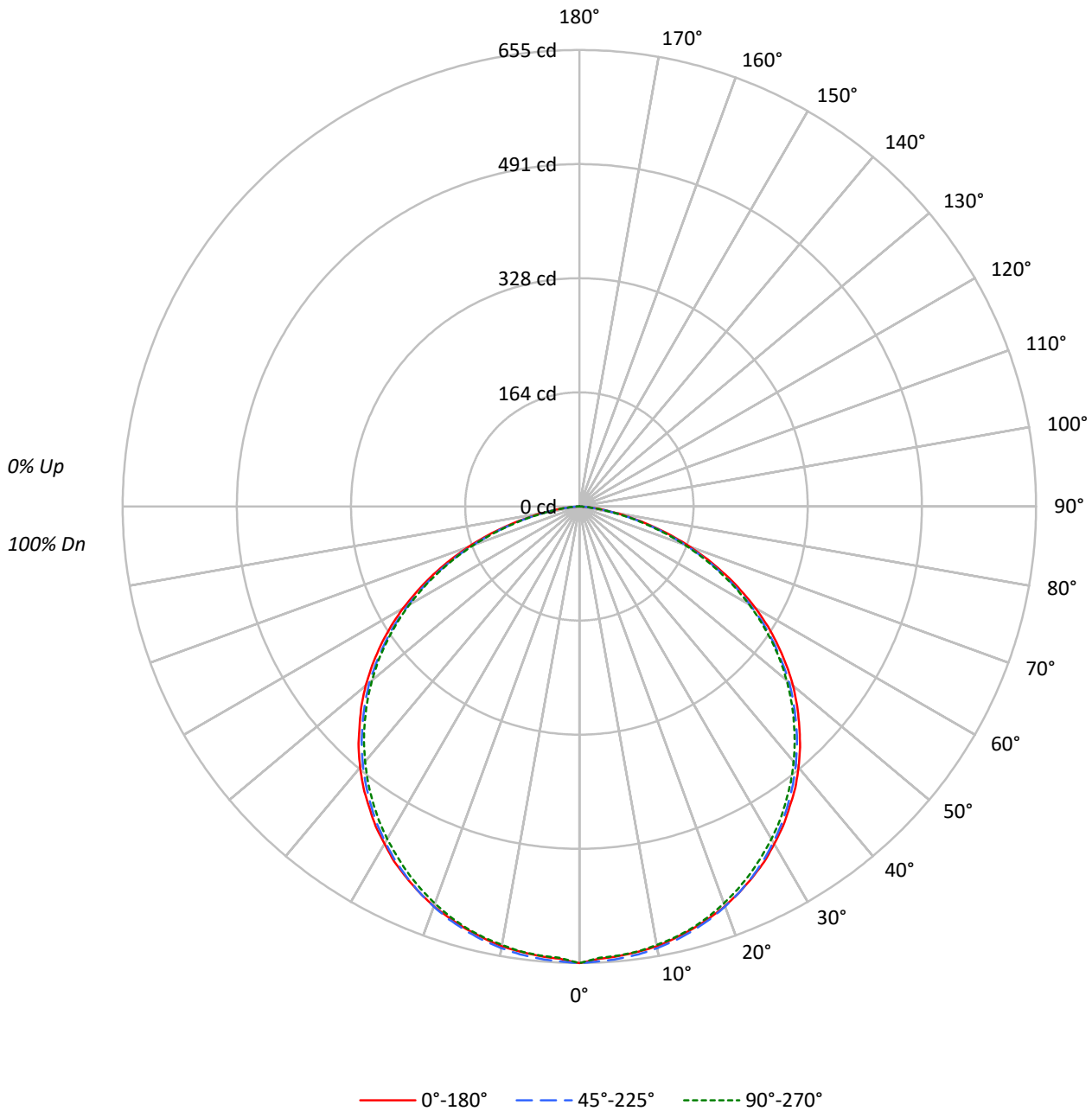
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1834.0 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 14.8
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	62	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	70	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	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	40	34	29	27					27															
10	53	40	32	27	52	39	32	27	38	32	27	38	31	27	37	31	26	25					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1763	1763	1763
5°	1750	1760	1747
10°	1751	1759	1746
15°	1748	1755	1745
20°	1748	1750	1736
25°	1744	1741	1725
30°	1737	1729	1712
35°	1728	1714	1697
40°	1718	1697	1679
45°	1697	1673	1655
50°	1675	1644	1625
55°	1633	1594	1579
60°	1569	1525	1512
65°	1470	1426	1411
70°	1325	1271	1261
75°	1111	1054	1043
80°	807	752	731
85°	426	377	343

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1697 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	3.4
10°-20°	178.2	9.7
20°-30°	270.8	14.8
30°-40°	327.6	17.9
40°-50°	340.4	18.6
50°-60°	304.8	16.6
60°-70°	222.3	12.1
70°-80°	109.5	6.0
80°-90°	18.3	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°	511.1	27.9
0°-40°	838.6	45.7
0°-60°	1483.9	80.9
0°-90°	1834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1834.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	655	655	655	655	655	
5°	648	655	652	658	647	62
15°	628	633	630	636	626	177
25°	587	590	586	589	581	271
35°	526	527	522	524	517	329
45°	446	445	440	440	435	344
55°	348	345	340	339	337	311
65°	231	228	224	222	222	228
75°	107	105	101	100	100	114
85°	14	13	12	11	11	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	655.3	655.3	655.3	655.3	655.3
2.5°	649.6	656.9	653.4	659.9	648.2
5°	647.7	654.7	651.5	657.7	646.8
7.5°	644.4	651.7	648.2	654.2	643.9
10°	640.9	647.4	643.6	649.6	639.0
12.5°	634.6	641.1	637.6	643.0	633.3
15°	627.6	633.3	630.0	635.5	626.2
17.5°	619.5	624.9	621.3	626.2	617.0
20°	610.5	614.8	611.0	615.1	606.2
22.5°	599.4	603.4	599.4	602.1	594.2
25°	587.4	590.4	586.4	589.1	580.9
27.5°	574.7	576.3	572.3	574.4	566.0
30°	559.0	560.9	556.5	559.2	551.1
32.5°	543.8	544.9	540.0	542.2	534.8
35°	525.9	527.0	521.8	524.0	516.7
37.5°	508.8	508.5	503.1	504.5	498.2
40°	489.0	488.7	483.0	484.1	478.1
42.5°	468.7	467.6	462.1	462.7	457.3
45°	445.9	445.3	439.6	440.5	435.0
47.5°	423.9	422.3	416.6	416.9	412.2
50°	400.0	397.6	392.7	392.2	388.1
52.5°	374.5	371.8	366.4	365.9	362.9
55°	348.0	345.0	339.8	339.0	336.6
57.5°	320.6	316.8	312.7	311.1	309.2
60°	291.6	288.0	283.4	281.8	281.0
62.5°	261.4	257.9	254.4	252.8	251.7
65°	230.8	228.1	224.0	222.4	221.6
67.5°	199.6	197.2	193.4	191.5	191.2
70°	168.4	166.0	161.6	160.6	160.3
72.5°	137.2	135.1	131.0	129.9	129.9
75°	106.9	105.0	101.4	100.3	100.3
77.5°	78.1	76.5	73.8	72.4	72.4
80°	52.1	51.0	48.5	47.5	47.2
82.5°	30.1	29.6	27.4	26.3	26.9
85°	13.8	13.3	12.2	10.8	11.1
87.5°	3.5	3.3	2.4	1.9	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)