

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: P973275

Luminaire Tested: FLR2-14-30HE-L850-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973275
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: FLR2-14-30HE-L850-CP250
Description: 1*4 FLR-2.0 5000 Lumen High Efficacy at 5000CCT & 80CRI Clear Polycarbonate (0.250" thickness)

Light Source:
Ballast/Driver: -

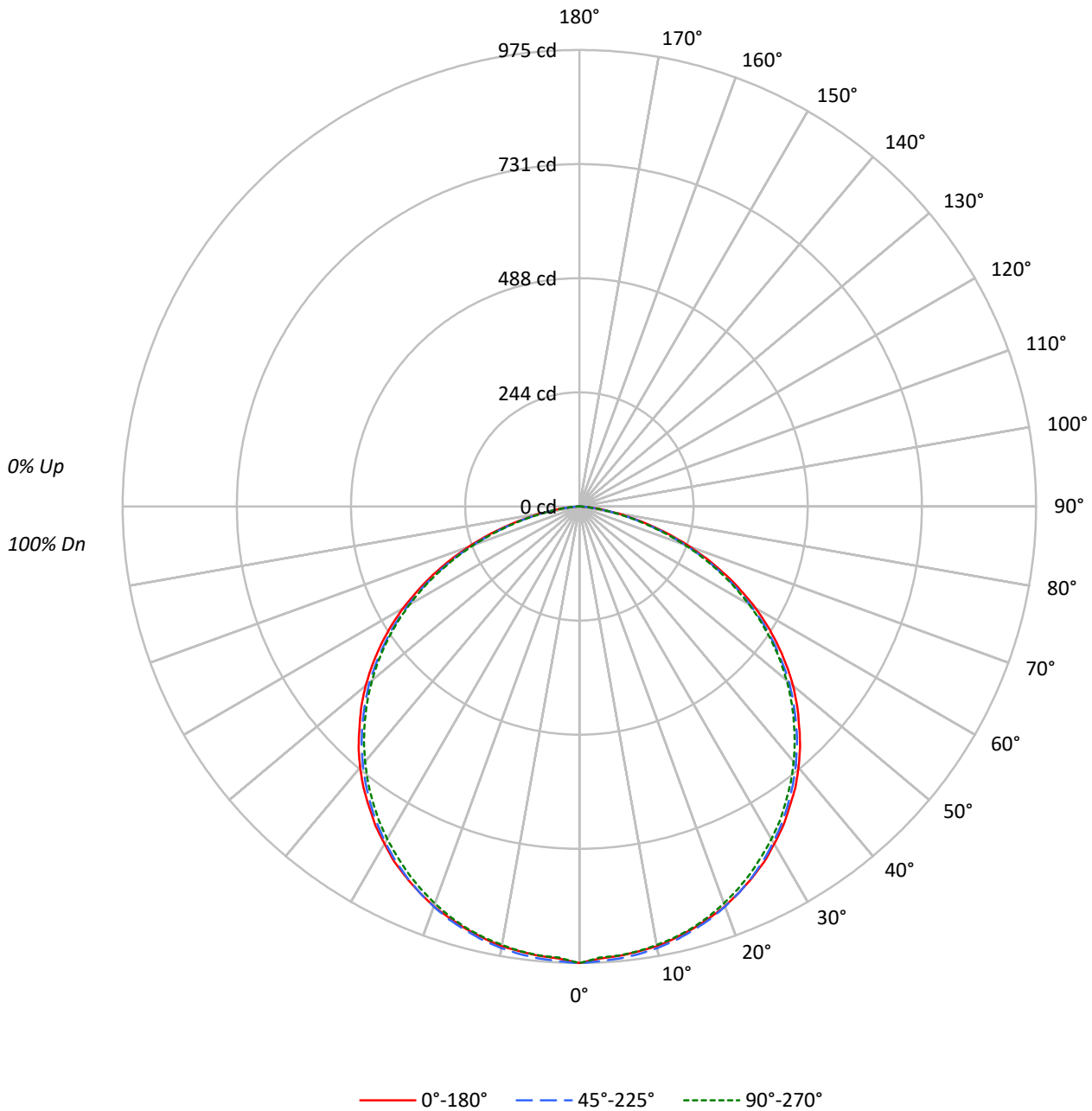
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2729.7 lumens
Efficiency: N/A
Efficacy: 121.9 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): 22.4
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	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°	2625	2625	2625
5°	2604	2619	2601
10°	2607	2617	2599
15°	2602	2612	2597
20°	2602	2605	2584
25°	2596	2591	2567
30°	2585	2574	2549
35°	2571	2552	2526
40°	2557	2526	2500
45°	2525	2490	2464
50°	2493	2447	2418
55°	2430	2373	2350
60°	2336	2270	2251
65°	2187	2123	2100
70°	1972	1893	1877
75°	1653	1570	1553
80°	1201	1120	1088
85°	636	562	513

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2525 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	3.4
10°-20°	265.3	9.7
20°-30°	403.0	14.8
30°-40°	487.5	17.9
40°-50°	506.7	18.6
50°-60°	453.7	16.6
60°-70°	330.9	12.1
70°-80°	163.0	6.0
80°-90°	27.2	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°	760.7	27.9
0°-40°	1248.2	45.7
0°-60°	2208.6	80.9
0°-90°	2729.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2729.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	975	975	975	975	975	
5°	964	974	970	979	963	92
15°	934	943	938	946	932	264
25°	874	879	873	877	865	403
35°	783	784	777	780	769	490
45°	664	663	654	656	648	512
55°	518	514	506	505	501	462
65°	344	340	333	331	330	339
75°	159	156	151	149	149	170
85°	21	20	18	16	17	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	975.3	975.3	975.3	975.3	975.3
2.5°	966.8	977.7	972.5	982.1	964.8
5°	964.0	974.5	969.6	978.9	962.8
7.5°	959.1	970.0	964.8	973.7	958.3
10°	953.9	963.6	957.9	966.8	951.1
12.5°	944.6	954.3	949.0	957.1	942.6
15°	934.1	942.6	937.7	945.8	932.1
17.5°	922.0	930.1	924.8	932.1	918.4
20°	908.7	915.1	909.5	915.5	902.2
22.5°	892.1	898.2	892.1	896.2	884.5
25°	874.4	878.8	872.8	876.8	864.7
27.5°	855.4	857.8	851.8	855.0	842.5
30°	832.0	834.8	828.3	832.4	820.3
32.5°	809.4	811.0	803.7	807.0	796.1
35°	782.7	784.3	776.7	779.9	769.0
37.5°	757.3	756.9	748.8	750.8	741.6
40°	727.8	727.4	719.0	720.6	711.7
42.5°	697.6	695.9	687.9	688.7	680.6
45°	663.6	662.8	654.4	655.6	647.5
47.5°	630.9	628.5	620.0	620.5	613.6
50°	595.4	591.8	584.5	583.7	577.7
52.5°	557.5	553.4	545.4	544.6	540.1
55°	517.9	513.5	505.8	504.6	501.0
57.5°	477.1	471.5	465.4	463.0	460.2
60°	434.0	428.7	421.8	419.4	418.2
62.5°	389.1	383.9	378.7	376.2	374.6
65°	343.5	339.5	333.4	331.0	329.8
67.5°	297.1	293.5	287.8	285.0	284.6
70°	250.7	247.1	240.6	239.0	238.6
72.5°	204.3	201.0	195.0	193.4	193.4
75°	159.0	156.2	151.0	149.4	149.4
77.5°	116.3	113.8	109.8	107.8	107.8
80°	77.5	75.9	72.3	70.6	70.2
82.5°	44.8	44.0	40.8	39.2	40.0
85°	20.6	19.8	18.2	16.1	16.6
87.5°	5.2	4.8	3.6	2.8	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)