

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: P973150

Luminaire Tested: FLR2-14-30HE-L835-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973150
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-L835-CA125
Description: 1*4 FLR-2.0 3500 Lumen High Efficacy at 3500CCT & 80CRI Clear Aryalic (0.125" thickness)

Light Source:
Ballast/Driver: -

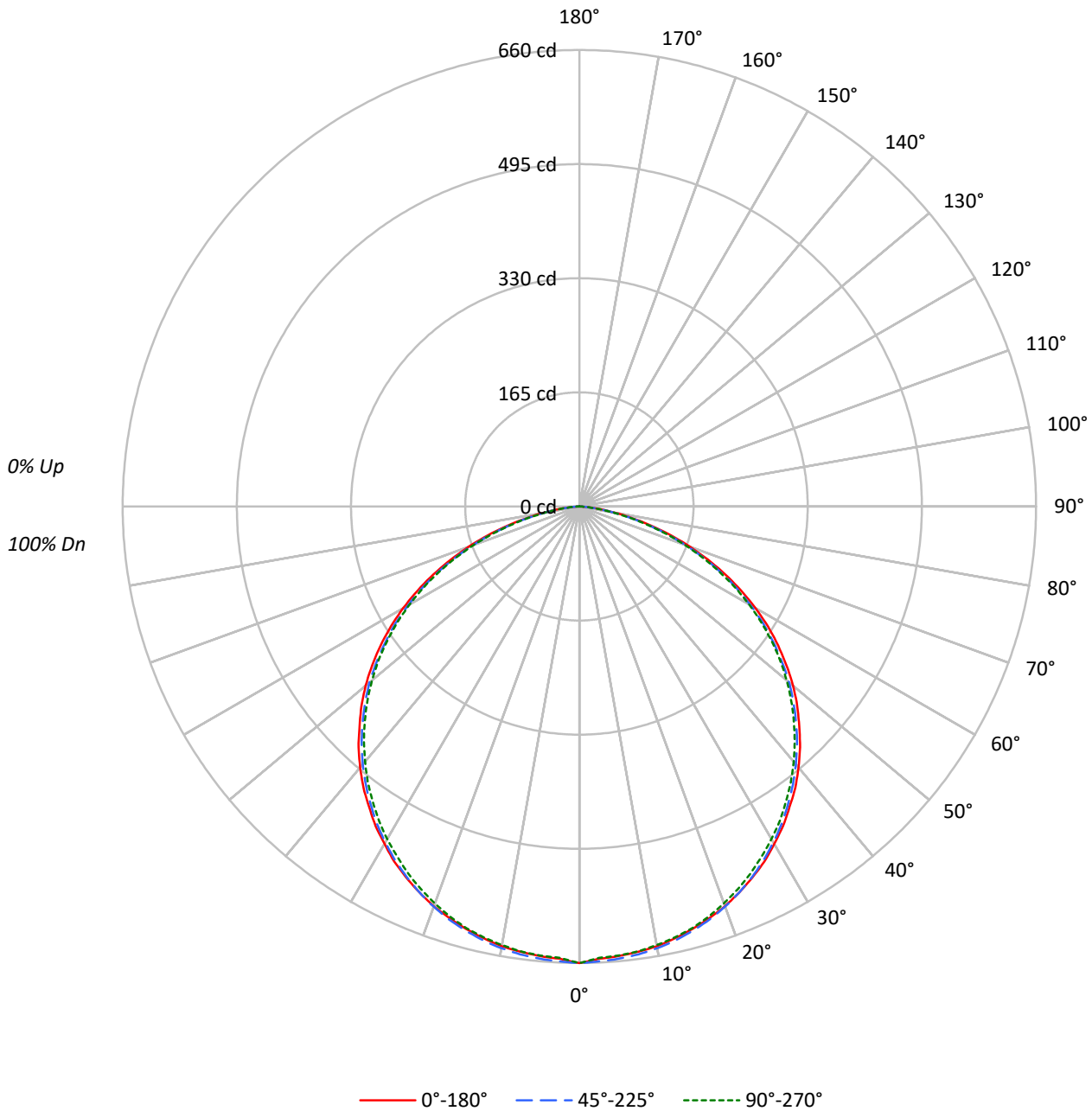
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1848.2 lumens
Efficiency: N/A
Efficacy: 82.5 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

TEST NUMBER: P973150
CATALOG NUMBER: FLR2-14-30HE-L835-CA125

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°	1777	1777	1777
5°	1763	1773	1761
10°	1765	1772	1759
15°	1762	1769	1758
20°	1762	1763	1749
25°	1758	1754	1738
30°	1750	1743	1726
35°	1741	1727	1711
40°	1731	1710	1692
45°	1710	1686	1668
50°	1688	1657	1637
55°	1645	1607	1591
60°	1581	1537	1524
65°	1481	1438	1422
70°	1335	1282	1271
75°	1120	1063	1051
80°	814	758	738
85°	429	380	346

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1710 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.5	3.4
10°-20°	179.6	9.7
20°-30°	272.9	14.8
30°-40°	330.1	17.9
40°-50°	343.1	18.6
50°-60°	307.2	16.6
60°-70°	224.0	12.1
70°-80°	110.3	6.0
80°-90°	18.5	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°	515.0	27.9
0°-40°	845.1	45.7
0°-60°	1495.4	80.9
0°-90°	1848.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1848.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	660	660	660	660	660	
5°	653	660	656	663	652	62
15°	632	638	635	640	631	179
25°	592	595	591	594	585	273
35°	530	531	526	528	521	332
45°	449	449	443	444	438	347
55°	351	348	342	342	339	313
65°	233	230	226	224	223	230
75°	108	106	102	101	101	115
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°	660.3	660.3	660.3	660.3	660.3
2.5°	654.6	662.0	658.4	665.0	653.2
5°	652.7	659.8	656.5	662.8	651.8
7.5°	649.4	656.8	653.2	659.2	648.8
10°	645.8	652.4	648.6	654.6	643.9
12.5°	639.5	646.1	642.6	648.0	638.2
15°	632.4	638.2	634.9	640.4	631.1
17.5°	624.2	629.7	626.2	631.1	621.8
20°	615.2	619.6	615.8	619.9	610.8
22.5°	604.0	608.1	604.0	606.7	598.8
25°	592.0	595.0	590.9	593.6	585.4
27.5°	579.1	580.8	576.7	578.9	570.4
30°	563.3	565.2	560.8	563.6	555.4
32.5°	548.0	549.1	544.2	546.3	539.0
35°	529.9	531.0	525.8	528.0	520.7
37.5°	512.7	512.5	507.0	508.4	502.1
40°	492.8	492.5	486.8	487.9	481.8
42.5°	472.3	471.2	465.7	466.3	460.8
45°	449.3	448.8	443.0	443.9	438.4
47.5°	427.2	425.5	419.8	420.1	415.4
50°	403.1	400.7	395.8	395.2	391.1
52.5°	377.4	374.7	369.2	368.7	365.7
55°	350.7	347.7	342.5	341.6	339.2
57.5°	323.1	319.2	315.1	313.5	311.6
60°	293.8	290.3	285.6	284.0	283.1
62.5°	263.5	259.9	256.4	254.7	253.6
65°	232.6	229.9	225.8	224.1	223.3
67.5°	201.2	198.7	194.9	193.0	192.7
70°	169.7	167.3	162.9	161.8	161.5
72.5°	138.3	136.1	132.0	130.9	130.9
75°	107.7	105.8	102.2	101.1	101.1
77.5°	78.7	77.1	74.3	73.0	73.0
80°	52.5	51.4	48.9	47.8	47.6
82.5°	30.3	29.8	27.6	26.5	27.1
85°	13.9	13.4	12.3	10.9	11.2
87.5°	3.6	3.3	2.5	1.9	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)