

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: P973135

Luminaire Tested: FLR2-14-30HE-L835-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973135
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-CP250
Description: 1*4 FLR-2.0 3500 Lumen High Efficacy at 3500CCT & 80CRI Clear Polycarbonate (0.250" thickness)

Light Source:
Ballast/Driver: -

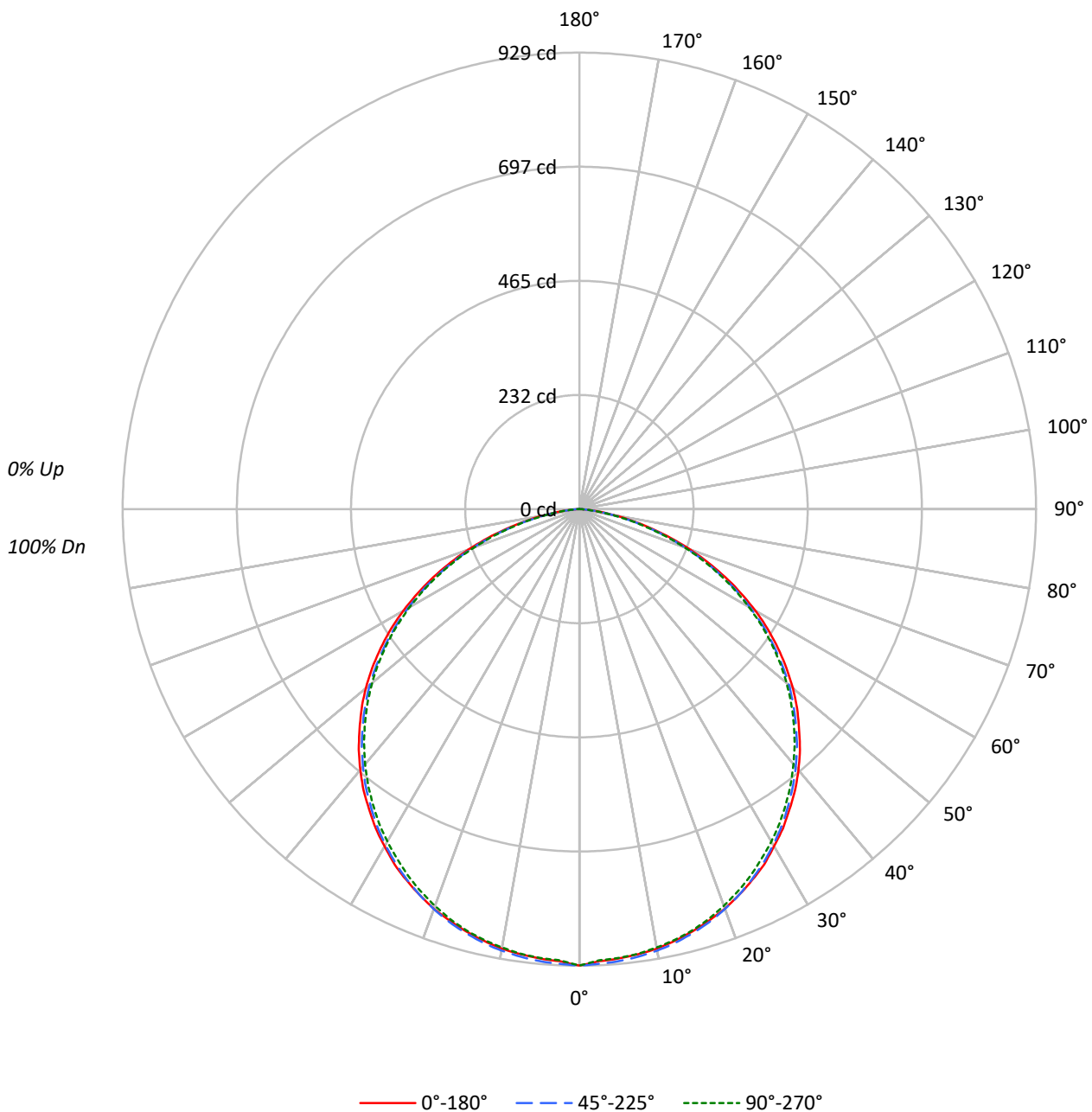
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2599.7 lumens
Efficiency: N/A
Efficacy: 116.1 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				20	
RC	80				70				50				30				10	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	39	32	27	38	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2499	2499	2499
5°	2480	2495	2477
10°	2482	2493	2475
15°	2478	2488	2473
20°	2478	2481	2461
25°	2472	2468	2445
30°	2462	2451	2427
35°	2449	2430	2406
40°	2435	2405	2381
45°	2405	2372	2347
50°	2374	2331	2303
55°	2314	2260	2238
60°	2224	2162	2144
65°	2083	2022	2000
70°	1878	1803	1788
75°	1575	1495	1478
80°	1144	1066	1037
85°	605	534	488

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2405 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	3.4
10°-20°	252.7	9.7
20°-30°	383.8	14.8
30°-40°	464.3	17.9
40°-50°	482.6	18.6
50°-60°	432.1	16.6
60°-70°	315.1	12.1
70°-80°	155.2	6.0
80°-90°	26.0	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°	724.5	27.9
0°-40°	1188.8	45.7
0°-60°	2103.5	80.9
0°-90°	2599.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2599.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	918	928	924	932	917	87
15°	890	898	893	901	888	251
25°	833	837	831	835	824	384
35°	746	747	740	743	732	467
45°	632	631	623	624	617	488
55°	493	489	482	481	477	440
65°	327	323	318	315	314	323
75°	152	149	144	142	142	161
85°	20	19	17	15	16	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	928.8	928.8	928.8	928.8	928.8
2.5°	920.8	931.2	926.2	935.4	918.8
5°	918.1	928.1	923.5	932.3	916.9
7.5°	913.5	923.8	918.8	927.3	912.7
10°	908.5	917.7	912.3	920.8	905.8
12.5°	899.6	908.9	903.9	911.5	897.7
15°	889.6	897.7	893.1	900.8	887.7
17.5°	878.1	885.8	880.8	887.7	874.6
20°	865.4	871.6	866.2	871.9	859.3
22.5°	849.6	855.4	849.6	853.5	842.3
25°	832.7	837.0	831.2	835.0	823.5
27.5°	814.7	817.0	811.2	814.3	802.4
30°	792.4	795.1	788.9	792.7	781.2
32.5°	770.8	772.4	765.5	768.5	758.1
35°	745.5	747.0	739.7	742.8	732.4
37.5°	721.2	720.9	713.2	715.1	706.2
40°	693.2	692.8	684.7	686.3	677.8
42.5°	664.3	662.8	655.1	655.9	648.2
45°	632.0	631.3	623.2	624.4	616.7
47.5°	600.9	598.6	590.5	590.9	584.4
50°	567.1	563.6	556.7	555.9	550.2
52.5°	530.9	527.1	519.4	518.6	514.4
55°	493.3	489.0	481.7	480.6	477.1
57.5°	454.4	449.0	443.3	441.0	438.3
60°	413.3	408.3	401.8	399.4	398.3
62.5°	370.6	365.6	360.6	358.3	356.8
65°	327.2	323.3	317.6	315.3	314.1
67.5°	283.0	279.5	274.1	271.4	271.0
70°	238.7	235.3	229.1	227.6	227.2
72.5°	194.5	191.5	185.7	184.2	184.2
75°	151.5	148.8	143.8	142.2	142.2
77.5°	110.7	108.4	104.6	102.6	102.6
80°	73.8	72.3	68.8	67.3	66.9
82.5°	42.7	41.9	38.8	37.3	38.1
85°	19.6	18.8	17.3	15.4	15.8
87.5°	5.0	4.6	3.5	2.7	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)