

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: P973060

Luminaire Tested: FLR2-14-30HE-L830-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973060
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-L830-CP187
Description: 1*4 FLR-2.0 3000 Lumen High Efficacy at 3000CCT & 80CRI Clear Polycarbonate (0.187" thickness)

Light Source:
Ballast/Driver: -

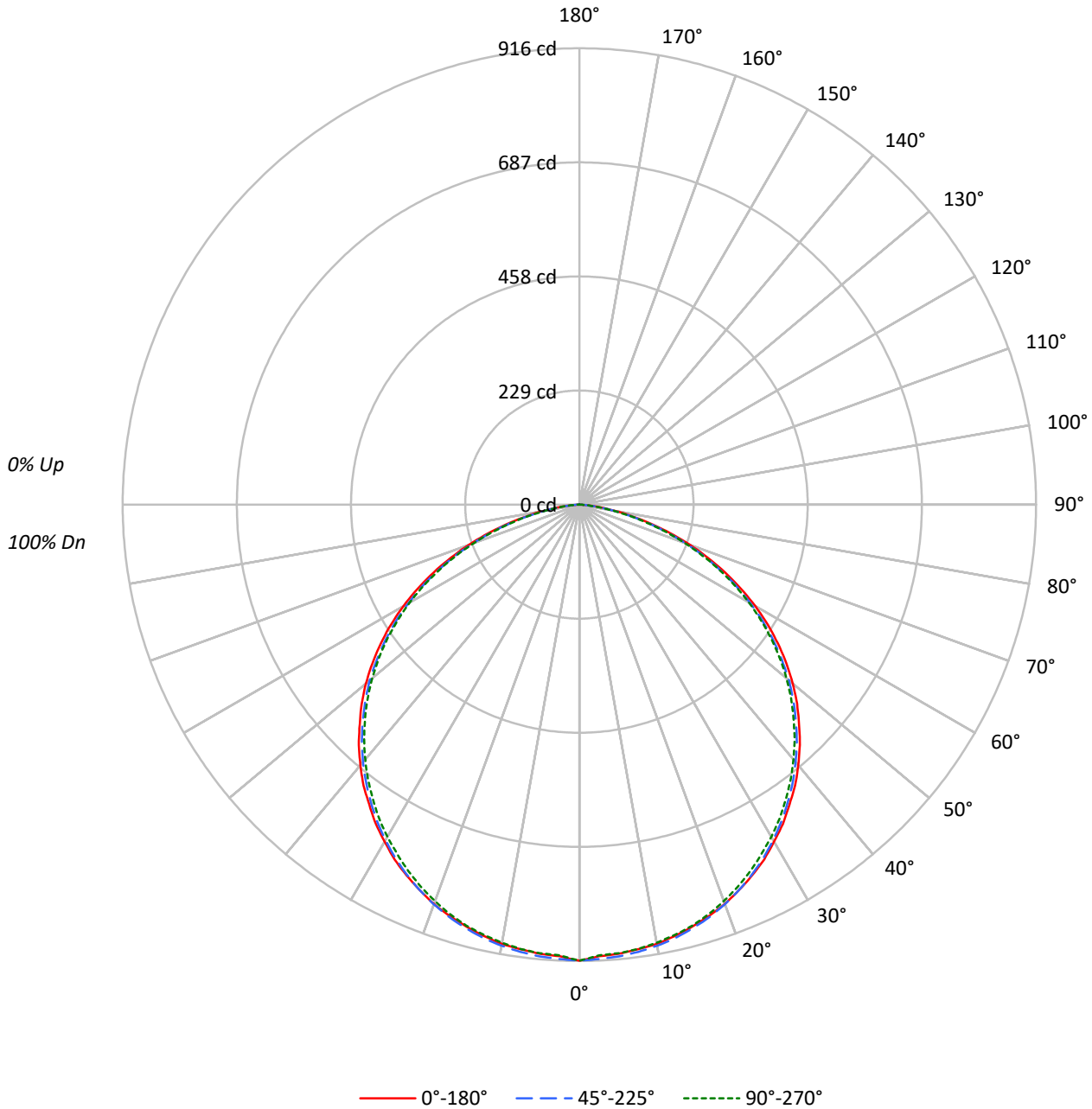
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2562.4 lumens
Efficiency: N/A
Efficacy: 114.4 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°	2464	2464	2464
5°	2444	2459	2441
10°	2447	2457	2440
15°	2443	2452	2438
20°	2443	2445	2425
25°	2437	2433	2410
30°	2427	2416	2393
35°	2414	2395	2371
40°	2400	2371	2347
45°	2371	2337	2313
50°	2340	2297	2270
55°	2281	2228	2206
60°	2193	2131	2113
65°	2053	1993	1971
70°	1851	1777	1762
75°	1552	1473	1458
80°	1128	1051	1021
85°	596	528	479

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2371 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	3.4
10°-20°	249.0	9.7
20°-30°	378.3	14.8
30°-40°	457.7	17.9
40°-50°	475.6	18.6
50°-60°	425.9	16.6
60°-70°	310.6	12.1
70°-80°	152.9	6.0
80°-90°	25.6	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°	714.1	27.9
0°-40°	1171.7	45.7
0°-60°	2073.2	80.9
0°-90°	2562.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2562.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	916	916	916	916	916	
5°	905	915	910	919	904	86
15°	877	885	880	888	875	248
25°	821	825	819	823	812	378
35°	735	736	729	732	722	460
45°	623	622	614	615	608	481
55°	486	482	475	474	470	434
65°	322	319	313	311	310	319
75°	149	147	142	140	140	159
85°	19	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°	915.5	915.5	915.5	915.5	915.5
2.5°	907.5	917.8	912.8	921.9	905.6
5°	904.9	914.7	910.2	918.9	903.8
7.5°	900.3	910.6	905.6	914.0	899.6
10°	895.4	904.5	899.2	907.5	892.8
12.5°	886.7	895.8	890.9	898.4	884.8
15°	876.8	884.8	880.3	887.8	875.0
17.5°	865.5	873.1	868.1	875.0	862.1
20°	853.0	859.0	853.7	859.4	846.9
22.5°	837.4	843.1	837.4	841.2	830.2
25°	820.8	824.9	819.3	823.0	811.7
27.5°	803.0	805.2	799.5	802.6	790.8
30°	781.0	783.6	777.6	781.4	770.0
32.5°	759.8	761.3	754.5	757.5	747.3
35°	734.8	736.3	729.1	732.1	721.9
37.5°	710.9	710.5	702.9	704.8	696.1
40°	683.2	682.8	674.9	676.4	668.1
42.5°	654.8	653.3	645.7	646.5	638.9
45°	623.0	622.2	614.2	615.4	607.8
47.5°	592.3	590.0	582.0	582.4	576.0
50°	558.9	555.5	548.7	547.9	542.3
52.5°	523.3	519.5	511.9	511.2	507.0
55°	486.2	482.0	474.8	473.7	470.3
57.5°	447.9	442.6	436.9	434.6	432.0
60°	407.4	402.4	396.0	393.7	392.6
62.5°	365.3	360.4	355.4	353.2	351.6
65°	322.5	318.7	313.0	310.7	309.6
67.5°	278.9	275.5	270.2	267.5	267.1
70°	235.3	231.9	225.8	224.3	223.9
72.5°	191.7	188.7	183.0	181.5	181.5
75°	149.3	146.6	141.7	140.2	140.2
77.5°	109.1	106.9	103.1	101.2	101.2
80°	72.8	71.2	67.8	66.3	65.9
82.5°	42.1	41.3	38.3	36.8	37.5
85°	19.3	18.6	17.1	15.2	15.5
87.5°	4.9	4.5	3.4	2.7	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)