

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: P973210

Luminaire Tested: FLR2-14-30HE-L840-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973210
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-L840-CP375
Description: 1*4 FLR-2.0 4000 Lumen High Efficacy at 4000CCT & 80CRI Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

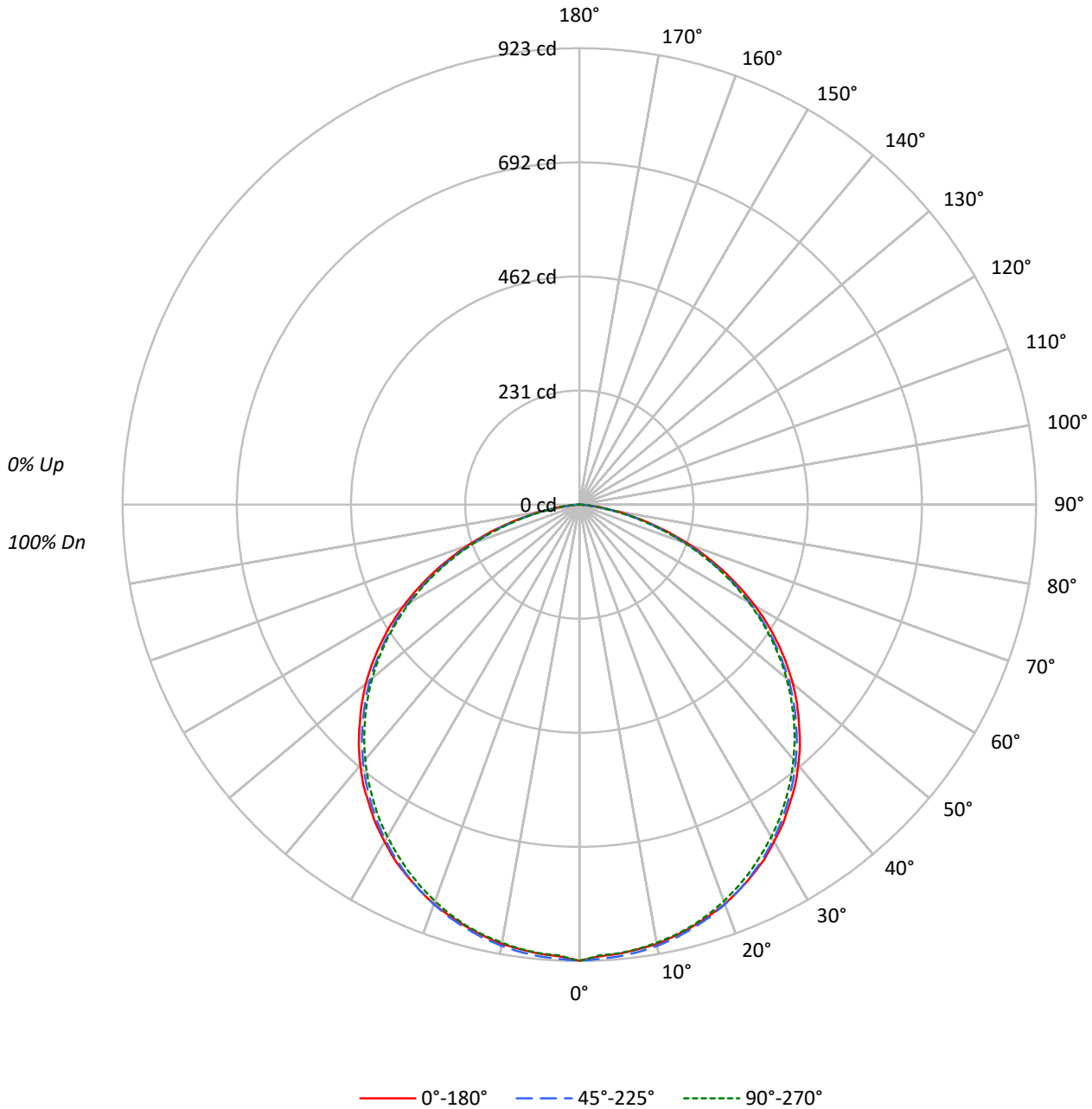
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2582.2 lumens
Efficiency: N/A
Efficacy: 115.3 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									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°	2483	2483	2483
5°	2463	2478	2460
10°	2466	2476	2458
15°	2462	2471	2456
20°	2462	2464	2444
25°	2456	2451	2429
30°	2445	2435	2411
35°	2432	2414	2390
40°	2419	2389	2365
45°	2389	2356	2331
50°	2358	2315	2288
55°	2298	2245	2223
60°	2209	2148	2129
65°	2069	2008	1987
70°	1865	1791	1776
75°	1565	1485	1469
80°	1136	1060	1029
85°	602	531	485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2389 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	3.4
10°-20°	251.0	9.7
20°-30°	381.3	14.8
30°-40°	461.2	17.9
40°-50°	479.3	18.6
50°-60°	429.1	16.6
60°-70°	313.0	12.1
70°-80°	154.1	6.0
80°-90°	25.8	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°	719.6	27.9
0°-40°	1180.8	45.7
0°-60°	2089.3	80.9
0°-90°	2582.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2582.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	912	922	917	926	911	87
15°	884	892	887	895	882	250
25°	827	831	826	829	818	381
35°	740	742	735	738	728	464
45°	628	627	619	620	612	485
55°	490	486	478	477	474	437
65°	325	321	315	313	312	321
75°	150	148	143	141	141	160
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°	922.6	922.6	922.6	922.6	922.6
2.5°	914.6	924.9	919.9	929.1	912.7
5°	911.9	921.8	917.2	926.0	910.8
7.5°	907.3	917.6	912.7	921.1	906.6
10°	902.4	911.5	906.2	914.6	899.7
12.5°	893.6	902.7	897.8	905.4	891.7
15°	883.6	891.7	887.1	894.7	881.7
17.5°	872.2	879.8	874.9	881.7	868.8
20°	859.6	865.7	860.3	866.1	853.5
22.5°	843.9	849.7	843.9	847.7	836.7
25°	827.1	831.3	825.6	829.4	818.0
27.5°	809.2	811.5	805.7	808.8	797.0
30°	787.0	789.7	783.6	787.4	776.0
32.5°	765.6	767.2	760.3	763.4	753.0
35°	740.4	742.0	734.7	737.8	727.5
37.5°	716.4	716.0	708.4	710.3	701.5
40°	688.5	688.1	680.1	681.6	673.2
42.5°	659.9	658.3	650.7	651.5	643.8
45°	627.8	627.0	619.0	620.2	612.5
47.5°	596.9	594.6	586.5	586.9	580.4
50°	563.3	559.8	552.9	552.2	546.5
52.5°	527.4	523.5	515.9	515.1	510.9
55°	489.9	485.7	478.5	477.3	473.9
57.5°	451.4	446.0	440.3	438.0	435.3
60°	410.5	405.5	399.1	396.8	395.6
62.5°	368.1	363.2	358.2	355.9	354.4
65°	325.0	321.2	315.4	313.1	312.0
67.5°	281.1	277.6	272.3	269.6	269.2
70°	237.1	233.7	227.6	226.1	225.7
72.5°	193.2	190.2	184.4	182.9	182.9
75°	150.5	147.8	142.8	141.3	141.3
77.5°	110.0	107.7	103.9	102.0	102.0
80°	73.3	71.8	68.4	66.8	66.4
82.5°	42.4	41.6	38.6	37.0	37.8
85°	19.5	18.7	17.2	15.3	15.7
87.5°	5.0	4.6	3.4	2.7	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)