

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: P973364

Luminaire Tested: FLR2-14-42-L930-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973364
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: FLR2-14-42-L930-CP375
Description: 1*4 FLR-2.0 4200 LUMEN at 3000CCT & 80CRI with Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

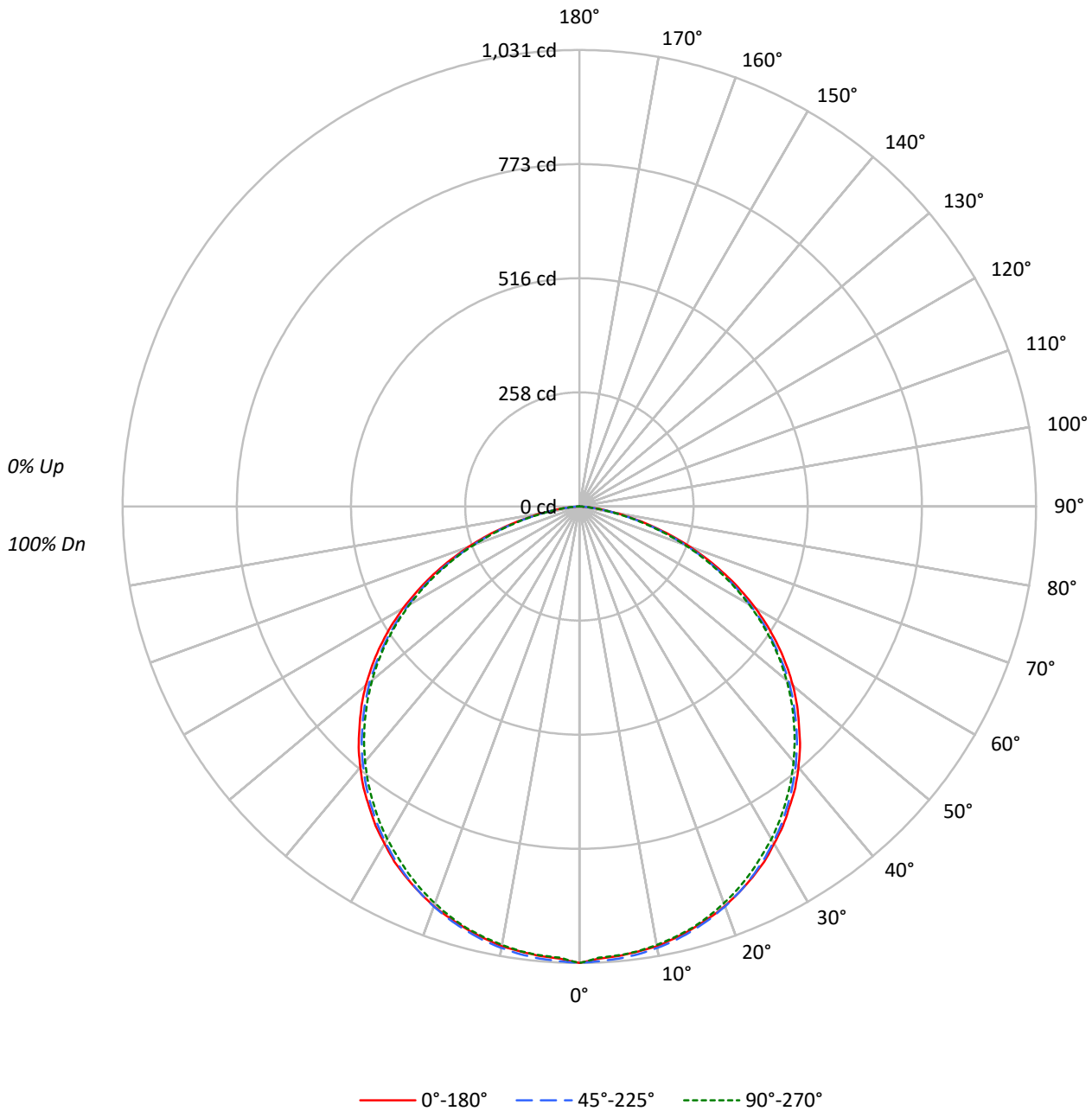
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2885.8 lumens
Efficiency: N/A
Efficacy: 91.0 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): 31.7
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																				
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°	2775	2775	2775
5°	2753	2769	2749
10°	2756	2767	2748
15°	2751	2762	2745
20°	2751	2753	2731
25°	2745	2740	2714
30°	2733	2721	2695
35°	2718	2697	2671
40°	2703	2670	2643
45°	2670	2633	2605
50°	2635	2587	2557
55°	2569	2509	2485
60°	2469	2400	2379
65°	2313	2245	2220
70°	2085	2002	1984
75°	1748	1659	1642
80°	1269	1184	1151
85°	673	593	540

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2670 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	3.4
10°-20°	280.5	9.7
20°-30°	426.1	14.8
30°-40°	515.4	17.9
40°-50°	535.7	18.6
50°-60°	479.6	16.6
60°-70°	349.8	12.1
70°-80°	172.2	6.0
80°-90°	28.8	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°	804.2	27.9
0°-40°	1319.7	45.7
0°-60°	2335.0	80.9
0°-90°	2885.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2885.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1031	1031	1031	1031	1031	
5°	1019	1030	1025	1035	1018	97
15°	988	996	991	1000	985	279
25°	924	929	923	927	914	426
35°	828	829	821	824	813	518
45°	702	701	692	693	684	542
55°	548	543	535	534	530	489
65°	363	359	352	350	349	359
75°	168	165	160	158	158	179
85°	22	21	19	17	18	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1031.1	1031.1	1031.1	1031.1	1031.1
2.5°	1022.1	1033.6	1028.1	1038.3	1020.0
5°	1019.1	1030.2	1025.1	1034.9	1017.8
7.5°	1014.0	1025.5	1020.0	1029.4	1013.2
10°	1008.5	1018.7	1012.7	1022.1	1005.5
12.5°	998.6	1008.9	1003.3	1011.9	996.5
15°	987.5	996.5	991.4	999.9	985.4
17.5°	974.7	983.3	977.7	985.4	970.9
20°	960.7	967.5	961.5	967.9	953.8
22.5°	943.2	949.6	943.2	947.4	935.1
25°	924.4	929.1	922.7	926.9	914.1
27.5°	904.3	906.9	900.5	903.9	890.7
30°	879.6	882.6	875.7	880.0	867.2
32.5°	855.7	857.4	849.7	853.1	841.6
35°	827.5	829.2	821.1	824.5	813.0
37.5°	800.6	800.2	791.7	793.8	784.0
40°	769.5	769.0	760.1	761.8	752.4
42.5°	737.5	735.8	727.2	728.1	719.5
45°	701.6	700.8	691.8	693.1	684.5
47.5°	667.0	664.5	655.5	655.9	648.7
50°	629.5	625.6	618.0	617.1	610.7
52.5°	589.4	585.1	576.6	575.7	571.0
55°	547.5	542.9	534.7	533.5	529.6
57.5°	504.4	498.5	492.1	489.5	486.5
60°	458.8	453.2	446.0	443.4	442.1
62.5°	411.4	405.9	400.3	397.7	396.0
65°	363.2	358.9	352.5	350.0	348.7
67.5°	314.1	310.3	304.3	301.3	300.9
70°	265.0	261.2	254.4	252.6	252.2
72.5°	215.9	212.5	206.1	204.4	204.4
75°	168.1	165.2	159.6	157.9	157.9
77.5°	122.9	120.3	116.1	113.9	113.9
80°	81.9	80.2	76.4	74.7	74.3
82.5°	47.4	46.5	43.1	41.4	42.3
85°	21.8	20.9	19.2	17.1	17.5
87.5°	5.5	5.1	3.8	3.0	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)