

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: P973355

Luminaire Tested: FLR2-14-42-L930-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973355
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-CP125
Description: 1*4 FLR-2.0 4200 LUMEN at 3000CCT & 80CRI with Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

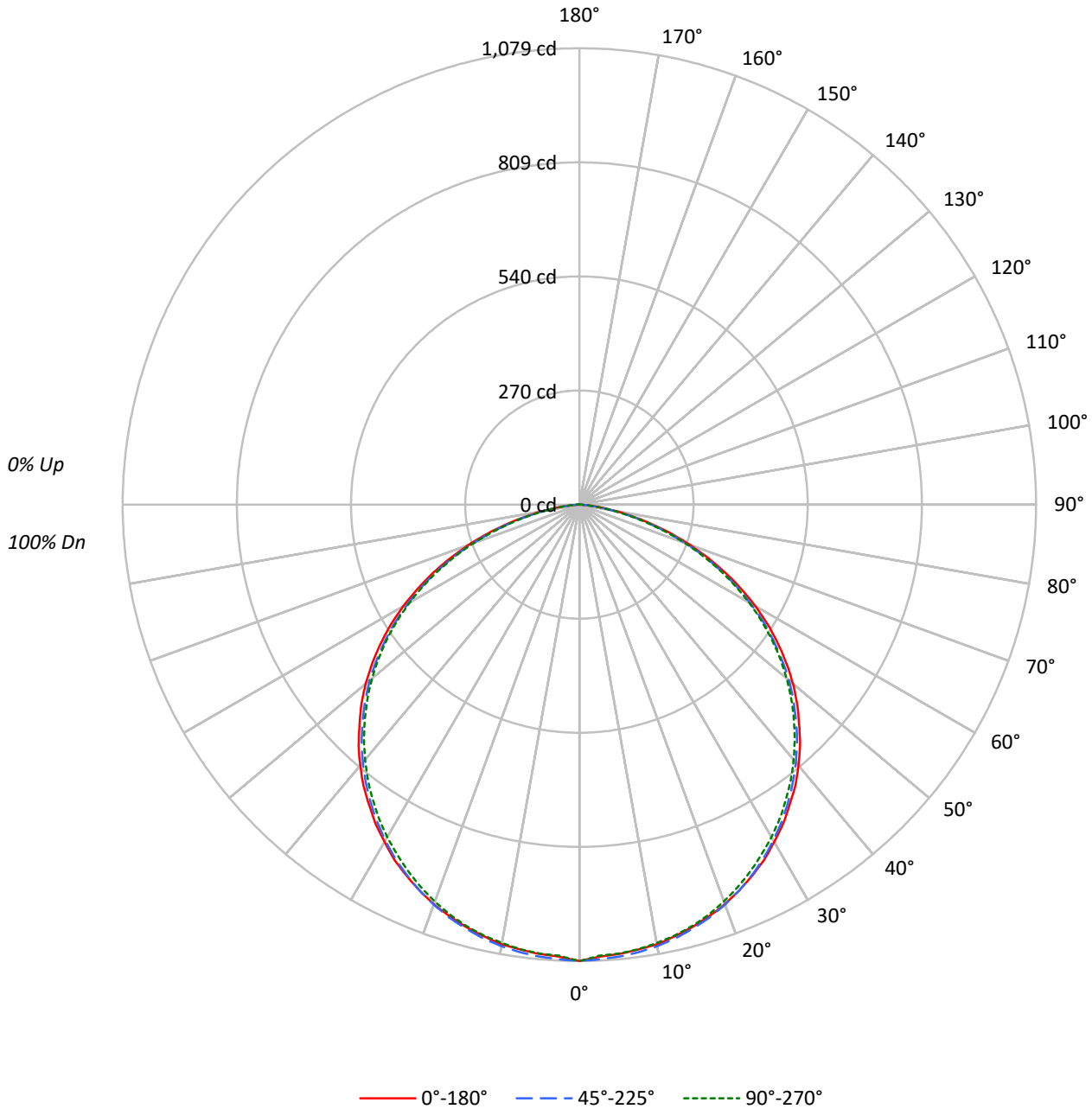
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3020.7 lumens
Efficiency: N/A
Efficacy: 95.3 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): 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				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	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°	2904	2904	2904
5°	2881	2898	2878
10°	2884	2896	2876
15°	2880	2891	2873
20°	2879	2882	2859
25°	2873	2868	2841
30°	2861	2848	2820
35°	2846	2824	2796
40°	2829	2795	2766
45°	2795	2756	2727
50°	2758	2708	2676
55°	2689	2626	2601
60°	2584	2512	2491
65°	2420	2350	2324
70°	2183	2094	2077
75°	1830	1737	1719
80°	1330	1240	1204
85°	704	621	565

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2795 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	3.4
10°-20°	293.6	9.7
20°-30°	446.0	14.8
30°-40°	539.5	17.9
40°-50°	560.7	18.6
50°-60°	502.0	16.6
60°-70°	366.2	12.1
70°-80°	180.3	6.0
80°-90°	30.2	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°	841.8	27.9
0°-40°	1381.3	45.7
0°-60°	2444.0	80.9
0°-90°	3020.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3020.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1079	1079	1079	1079	1079	
5°	1067	1078	1073	1083	1065	101
15°	1034	1043	1038	1047	1031	292
25°	968	972	966	970	957	446
35°	866	868	860	863	851	542
45°	734	734	724	726	716	567
55°	573	568	560	558	554	512
65°	380	376	369	366	365	375
75°	176	173	167	165	165	188
85°	23	22	20	18	18	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1079.2	1079.2	1079.2	1079.2	1079.2
2.5°	1069.9	1081.9	1076.1	1086.8	1067.6
5°	1066.7	1078.4	1073.0	1083.3	1065.4
7.5°	1061.4	1073.4	1067.6	1077.5	1060.5
10°	1055.6	1066.3	1060.0	1069.9	1052.4
12.5°	1045.3	1056.0	1050.2	1059.1	1043.1
15°	1033.7	1043.1	1037.7	1046.6	1031.4
17.5°	1020.3	1029.2	1023.4	1031.4	1016.3
20°	1005.5	1012.7	1006.4	1013.1	998.4
22.5°	987.2	993.9	987.2	991.7	978.7
25°	967.6	972.5	965.8	970.2	956.8
27.5°	946.6	949.3	942.6	946.1	932.3
30°	920.7	923.8	916.6	921.1	907.7
32.5°	895.6	897.4	889.4	893.0	880.9
35°	866.2	868.0	859.5	863.0	851.0
37.5°	838.0	837.6	828.6	830.9	820.6
40°	805.4	805.0	795.6	797.4	787.5
42.5°	771.9	770.1	761.2	762.1	753.1
45°	734.4	733.5	724.1	725.5	716.5
47.5°	698.2	695.5	686.1	686.6	679.0
50°	658.9	654.9	646.8	645.9	639.2
52.5°	616.9	612.4	603.5	602.6	597.7
55°	573.1	568.2	559.7	558.4	554.4
57.5°	528.0	521.8	515.1	512.4	509.2
60°	480.2	474.4	466.8	464.1	462.8
62.5°	430.6	424.8	419.0	416.3	414.5
65°	380.1	375.7	369.0	366.3	365.0
67.5°	328.8	324.8	318.5	315.4	314.9
70°	277.4	273.4	266.2	264.5	264.0
72.5°	226.0	222.5	215.8	214.0	214.0
75°	176.0	172.9	167.1	165.3	165.3
77.5°	128.7	126.0	121.5	119.3	119.3
80°	85.8	84.0	80.0	78.2	77.7
82.5°	49.6	48.7	45.1	43.3	44.2
85°	22.8	21.9	20.1	17.9	18.3
87.5°	5.8	5.4	4.0	3.1	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)