

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: P973406

Luminaire Tested: FLR2-14-42-L935-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973406
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-L935-CP375
Description: 1*4 FLR-2.0 4200 LUMEN at 3500 CCT & 90 CRI with Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

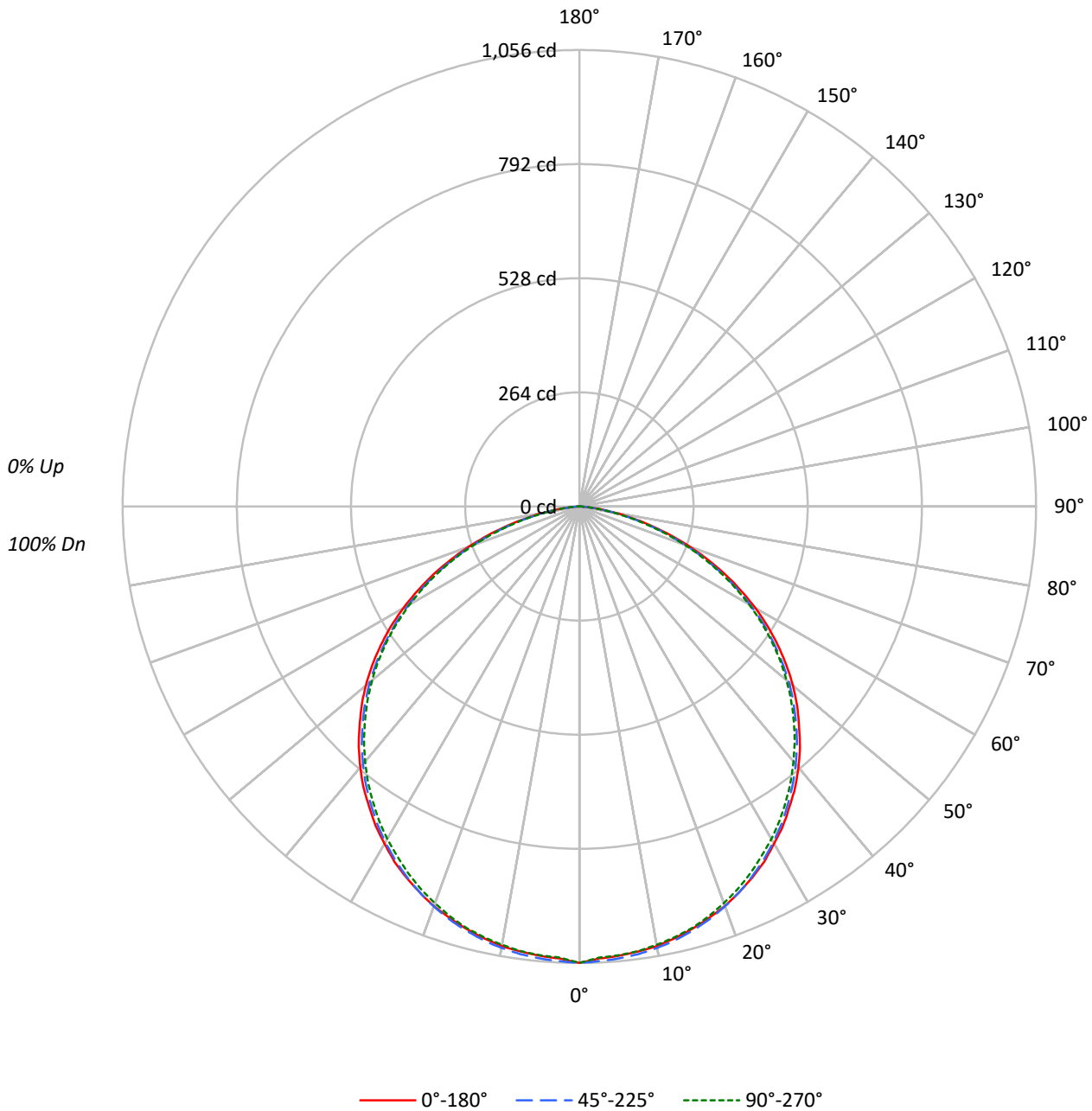
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2955.4 lumens
Efficiency: N/A
Efficacy: 93.2 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									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	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°	2841	2841	2841
5°	2819	2836	2816
10°	2822	2834	2814
15°	2817	2829	2812
20°	2817	2820	2797
25°	2811	2806	2780
30°	2799	2787	2760
35°	2784	2762	2735
40°	2768	2734	2707
45°	2734	2696	2668
50°	2699	2650	2618
55°	2631	2569	2545
60°	2528	2458	2437
65°	2368	2299	2274
70°	2135	2050	2032
75°	1790	1700	1681
80°	1300	1212	1178
85°	689	608	553

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2734 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.0	3.4
10°-20°	287.2	9.7
20°-30°	436.4	14.8
30°-40°	527.8	17.9
40°-50°	548.6	18.6
50°-60°	491.2	16.6
60°-70°	358.2	12.1
70°-80°	176.4	6.0
80°-90°	29.5	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°	823.6	27.9
0°-40°	1351.5	45.7
0°-60°	2391.2	80.9
0°-90°	2955.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2955.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1044	1055	1050	1060	1042	99
15°	1011	1020	1015	1024	1009	286
25°	947	952	945	949	936	436
35°	847	849	841	844	833	531
45°	718	718	708	710	701	555
55°	561	556	548	546	542	501
65°	372	368	361	358	357	367
75°	172	169	164	162	162	184
85°	22	21	20	18	18	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1055.9	1055.9	1055.9	1055.9	1055.9
2.5°	1046.7	1058.5	1052.9	1063.3	1044.6
5°	1043.7	1055.0	1049.8	1059.9	1042.4
7.5°	1038.4	1050.2	1044.6	1054.2	1037.6
10°	1032.8	1043.2	1037.1	1046.7	1029.7
12.5°	1022.7	1033.2	1027.5	1036.3	1020.5
15°	1011.3	1020.5	1015.3	1024.0	1009.2
17.5°	998.2	1007.0	1001.3	1009.2	994.3
20°	983.8	990.8	984.7	991.2	976.8
22.5°	965.9	972.4	965.9	970.3	957.6
25°	946.7	951.5	944.9	949.3	936.2
27.5°	926.1	928.7	922.2	925.7	912.1
30°	900.8	903.8	896.8	901.2	888.1
32.5°	876.3	878.0	870.2	873.7	861.9
35°	847.4	849.2	840.9	844.4	832.6
37.5°	819.9	819.5	810.7	812.9	802.9
40°	788.0	787.6	778.4	780.1	770.5
42.5°	755.2	753.5	744.7	745.6	736.9
45°	718.5	717.6	708.5	709.8	701.0
47.5°	683.1	680.5	671.3	671.8	664.3
50°	644.7	640.7	632.9	632.0	625.4
52.5°	603.6	599.2	590.5	589.6	584.8
55°	560.7	555.9	547.6	546.3	542.4
57.5°	516.6	510.5	503.9	501.3	498.2
60°	469.8	464.2	456.7	454.1	452.8
62.5°	421.3	415.6	410.0	407.3	405.6
65°	371.9	367.6	361.0	358.4	357.1
67.5°	321.7	317.7	311.6	308.6	308.1
70°	271.4	267.5	260.5	258.7	258.3
72.5°	221.1	217.7	211.1	209.3	209.3
75°	172.2	169.1	163.5	161.7	161.7
77.5°	125.9	123.2	118.9	116.7	116.7
80°	83.9	82.2	78.2	76.5	76.0
82.5°	48.5	47.6	44.1	42.4	43.3
85°	22.3	21.4	19.7	17.5	17.9
87.5°	5.7	5.2	3.9	3.1	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)