

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: P973448

Luminaire Tested: FLR2-14-42-L940-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973448
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-L940-CP375
Description: 1*4 FLR-2.0 4200 LUMEN at 4000 CCT & 90 CRI with Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

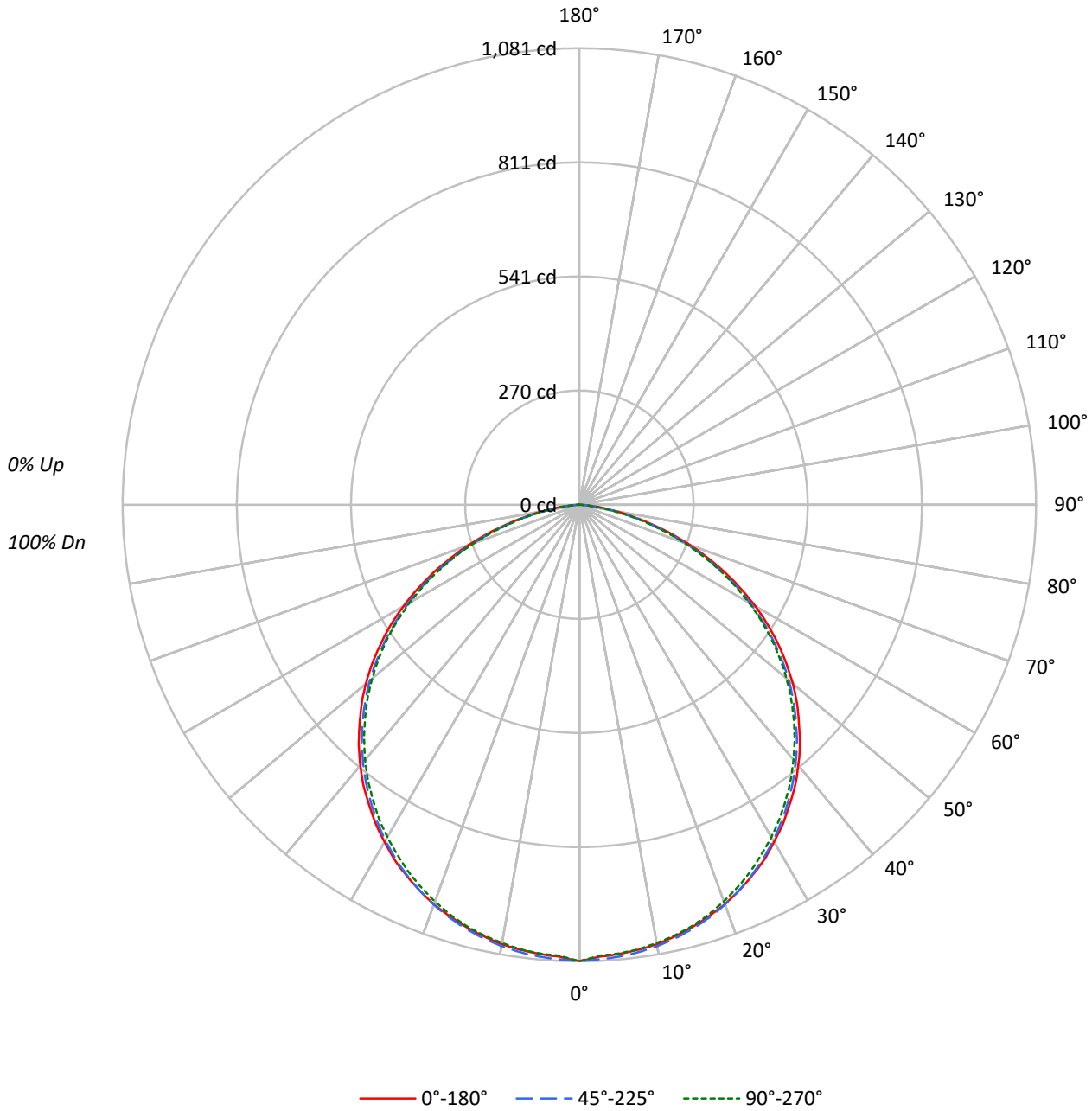
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3024.9 lumens
Efficiency: N/A
Efficacy: 95.4 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): 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°	2908	2908	2908
5°	2885	2903	2882
10°	2889	2901	2880
15°	2884	2895	2878
20°	2884	2886	2863
25°	2877	2871	2845
30°	2865	2852	2825
35°	2849	2827	2800
40°	2833	2799	2771
45°	2799	2759	2731
50°	2762	2712	2680
55°	2692	2630	2604
60°	2588	2516	2494
65°	2424	2353	2327
70°	2186	2098	2080
75°	1833	1739	1721
80°	1331	1241	1206
85°	704	621	565

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2799 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	3.4
10°-20°	294.0	9.7
20°-30°	446.6	14.8
30°-40°	540.3	17.9
40°-50°	561.5	18.6
50°-60°	502.7	16.6
60°-70°	366.7	12.1
70°-80°	180.6	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°	843.0	27.9
0°-40°	1383.2	45.7
0°-60°	2447.5	80.9
0°-90°	3024.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3024.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1081	1081	1081	1081	1081	
5°	1068	1080	1074	1085	1067	102
15°	1035	1044	1039	1048	1033	292
25°	969	974	967	972	958	447
35°	867	869	861	864	852	543
45°	735	734	725	726	718	568
55°	574	569	560	559	555	512
65°	381	376	370	367	366	376
75°	176	173	167	166	166	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°	1080.8	1080.8	1080.8	1080.8	1080.8
2.5°	1071.4	1083.4	1077.6	1088.4	1069.1
5°	1068.2	1079.9	1074.5	1084.8	1066.9
7.5°	1062.9	1074.9	1069.1	1079.0	1062.0
10°	1057.1	1067.8	1061.5	1071.4	1053.9
12.5°	1046.8	1057.5	1051.7	1060.6	1044.5
15°	1035.1	1044.5	1039.2	1048.1	1032.9
17.5°	1021.7	1030.7	1024.8	1032.9	1017.7
20°	1007.0	1014.1	1007.8	1014.6	999.8
22.5°	988.6	995.3	988.6	993.1	980.1
25°	968.9	973.9	967.1	971.6	958.2
27.5°	947.9	950.6	943.9	947.5	933.6
30°	922.0	925.1	917.9	922.4	909.0
32.5°	896.9	898.7	890.6	894.2	882.1
35°	867.4	869.2	860.7	864.3	852.2
37.5°	839.2	838.8	829.8	832.0	821.8
40°	806.5	806.1	796.7	798.5	788.7
42.5°	773.0	771.2	762.3	763.2	754.2
45°	735.4	734.5	725.1	726.5	717.5
47.5°	699.2	696.5	687.1	687.6	680.0
50°	659.8	655.8	647.7	646.8	640.1
52.5°	617.8	613.3	604.4	603.5	598.5
55°	573.9	569.0	560.5	559.2	555.1
57.5°	528.8	522.5	515.8	513.1	510.0
60°	480.9	475.1	467.5	464.8	463.4
62.5°	431.2	425.4	419.6	416.9	415.1
65°	380.7	376.2	369.5	366.8	365.5
67.5°	329.2	325.2	319.0	315.8	315.4
70°	277.8	273.8	266.6	264.8	264.4
72.5°	226.4	222.8	216.1	214.3	214.3
75°	176.3	173.1	167.3	165.5	165.5
77.5°	128.8	126.1	121.7	119.4	119.4
80°	85.9	84.1	80.1	78.3	77.8
82.5°	49.7	48.8	45.2	43.4	44.3
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)