

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: P973246

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

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973246
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: FLR2-14-42HE-L940-CP375
Description: 1*4 FLR-2.0 4200 Lumen High Efficacy at 4000CCT & 90 CRI with Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

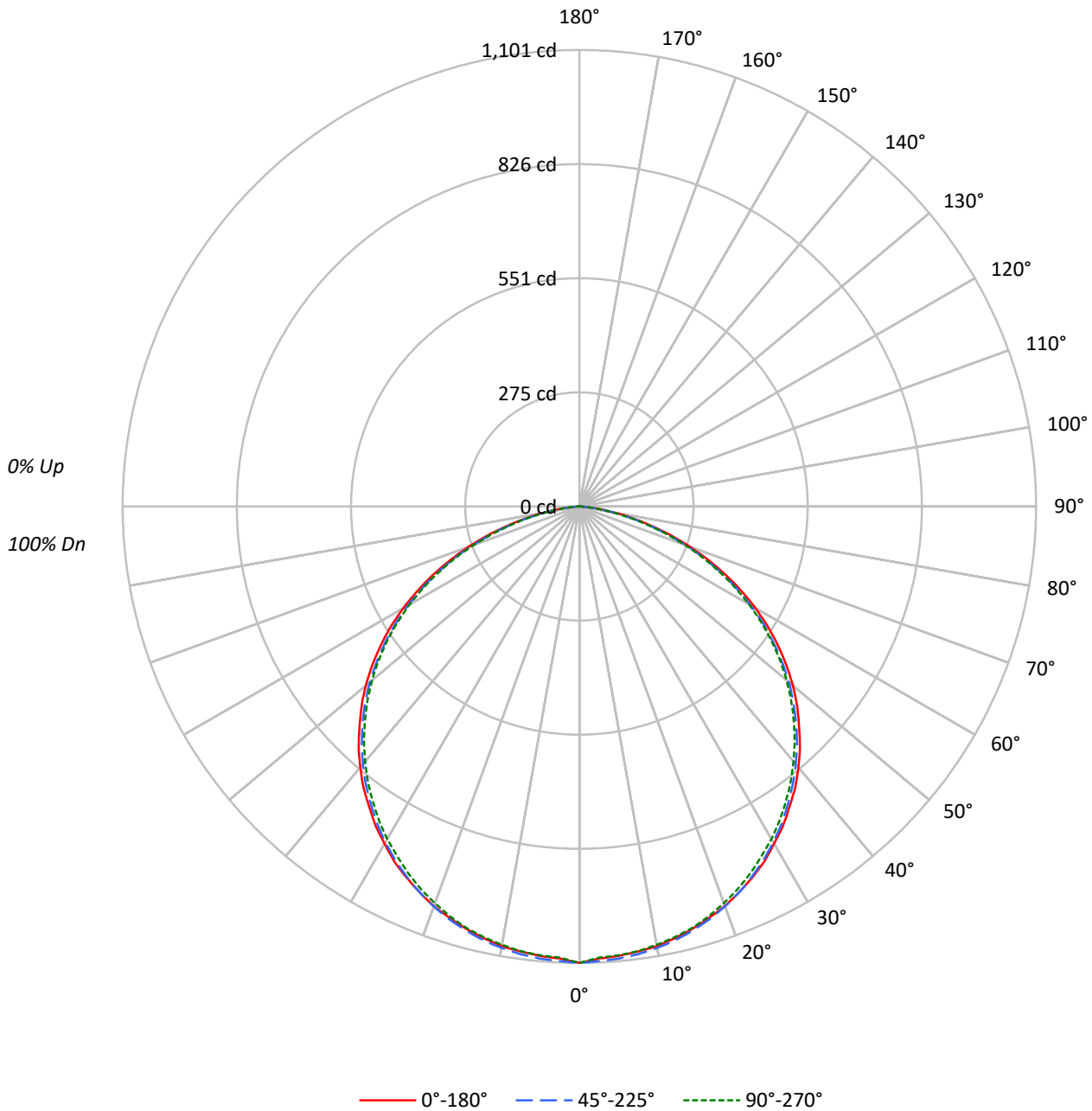
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3081.4 lumens
Efficiency: N/A
Efficacy: 96.6 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): 31.9
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°	2962	2962	2962
5°	2940	2957	2936
10°	2942	2955	2934
15°	2938	2949	2931
20°	2937	2940	2917
25°	2931	2925	2898
30°	2918	2906	2877
35°	2903	2880	2852
40°	2886	2851	2822
45°	2851	2811	2782
50°	2814	2762	2730
55°	2743	2679	2653
60°	2637	2563	2541
65°	2469	2397	2371
70°	2227	2137	2119
75°	1866	1772	1753
80°	1356	1265	1229
85°	716	633	577

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2851 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.3	3.4
10°-20°	299.5	9.7
20°-30°	455.0	14.8
30°-40°	550.4	17.9
40°-50°	572.0	18.6
50°-60°	512.1	16.6
60°-70°	373.5	12.1
70°-80°	183.9	6.0
80°-90°	30.8	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°	858.7	27.9
0°-40°	1409.1	45.7
0°-60°	2493.1	80.9
0°-90°	3081.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3081.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1101	1101	1101	1101	1101	
5°	1088	1100	1095	1105	1087	104
15°	1054	1064	1059	1068	1052	298
25°	987	992	985	990	976	455
35°	884	885	877	880	868	553
45°	749	748	739	740	731	578
55°	585	580	571	570	566	522
65°	388	383	376	374	372	383
75°	180	176	170	169	169	191
85°	23	22	20	18	19	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1100.9	1100.9	1100.9	1100.9	1100.9
2.5°	1091.4	1103.7	1097.7	1108.7	1089.1
5°	1088.2	1100.0	1094.6	1105.0	1086.8
7.5°	1082.7	1095.0	1089.1	1099.1	1081.8
10°	1076.8	1087.7	1081.3	1091.4	1073.6
12.5°	1066.3	1077.2	1071.3	1080.4	1064.0
15°	1054.5	1064.0	1058.6	1067.7	1052.2
17.5°	1040.8	1049.9	1044.0	1052.2	1036.7
20°	1025.7	1033.0	1026.7	1033.5	1018.5
22.5°	1007.1	1013.9	1007.1	1011.6	998.4
25°	987.0	992.0	985.2	989.8	976.1
27.5°	965.6	968.3	961.5	965.1	951.0
30°	939.2	942.4	935.1	939.6	926.0
32.5°	913.7	915.5	907.3	910.9	898.6
35°	883.6	885.4	876.7	880.4	868.1
37.5°	854.9	854.4	845.3	847.6	837.1
40°	821.6	821.1	811.6	813.4	803.4
42.5°	787.4	785.6	776.5	777.4	768.3
45°	749.1	748.2	738.7	740.0	730.9
47.5°	712.2	709.5	699.9	700.4	692.6
50°	672.1	668.0	659.8	658.9	652.1
52.5°	629.3	624.7	615.6	614.7	609.7
55°	584.6	579.6	571.0	569.6	565.5
57.5°	538.6	532.2	525.4	522.7	519.5
60°	489.9	483.9	476.2	473.5	472.1
62.5°	439.3	433.4	427.4	424.7	422.9
65°	387.8	383.2	376.4	373.7	372.3
67.5°	335.4	331.3	324.9	321.7	321.3
70°	283.0	278.9	271.6	269.8	269.3
72.5°	230.6	226.9	220.1	218.3	218.3
75°	179.5	176.4	170.4	168.6	168.6
77.5°	131.2	128.5	123.9	121.7	121.7
80°	87.5	85.7	81.6	79.7	79.3
82.5°	50.6	49.7	46.0	44.2	45.1
85°	23.2	22.3	20.5	18.2	18.7
87.5°	5.9	5.5	4.1	3.2	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)