

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: P973161

Luminaire Tested: FLR2-14-42HE-L935-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973161
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-L935-CP125
Description: 1*4 FLR-2.0 4200 Lumen High Efficacy at 3500CCT & 90 CRI with Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

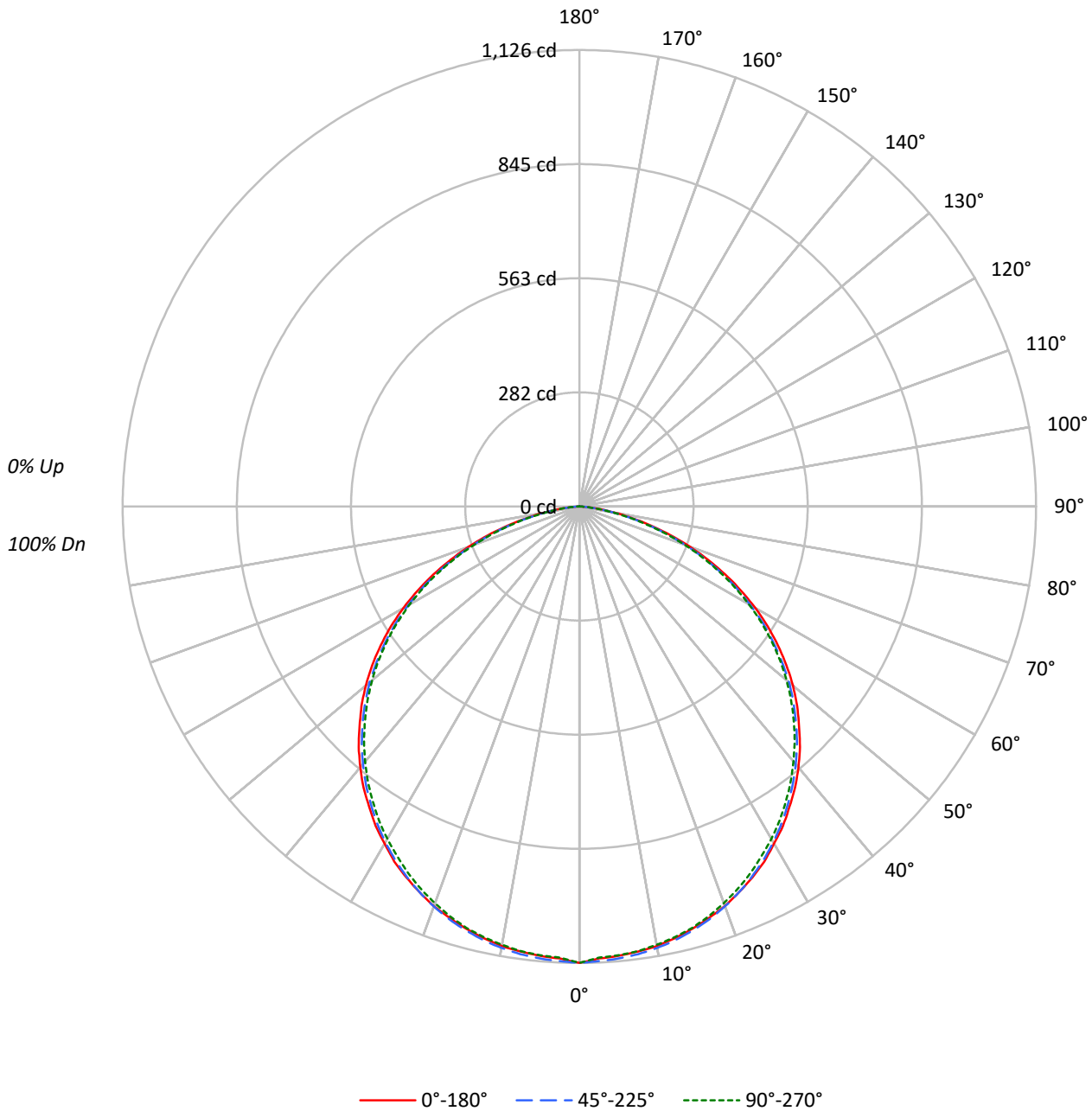
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3151.2 lumens
Efficiency: N/A
Efficacy: 98.8 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 (A_{in}): 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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CATALOG NUMBER: FLR2-14-42HE-L935-CP125

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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	3030	3030	3030
5°	3006	3024	3002
10°	3009	3022	3000
15°	3004	3016	2998
20°	3004	3007	2983
25°	2997	2991	2964
30°	2984	2971	2942
35°	2968	2945	2916
40°	2951	2916	2886
45°	2915	2875	2845
50°	2878	2825	2792
55°	2805	2739	2713
60°	2696	2621	2598
65°	2525	2451	2424
70°	2277	2185	2167
75°	1909	1812	1792
80°	1387	1292	1257
85°	735	648	590

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2915 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	3.4
10°-20°	306.3	9.7
20°-30°	465.3	14.8
30°-40°	562.8	17.9
40°-50°	584.9	18.6
50°-60°	523.7	16.6
60°-70°	382.0	12.1
70°-80°	188.1	6.0
80°-90°	31.5	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°	878.2	27.9
0°-40°	1441.0	45.7
0°-60°	2549.7	80.9
0°-90°	3151.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3151.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1113	1125	1119	1130	1111	106
15°	1078	1088	1082	1092	1076	305
25°	1009	1014	1008	1012	998	465
35°	904	906	897	900	888	566
45°	766	765	755	757	748	592
55°	598	593	584	582	578	534
65°	397	392	385	382	381	392
75°	184	180	174	172	172	196
85°	24	23	21	19	19	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1125.9	1125.9	1125.9	1125.9	1125.9
2.5°	1116.1	1128.7	1122.6	1133.8	1113.8
5°	1112.8	1124.9	1119.4	1130.1	1111.4
7.5°	1107.2	1119.8	1113.8	1124.0	1106.3
10°	1101.2	1112.4	1105.8	1116.1	1097.9
12.5°	1090.5	1101.6	1095.6	1104.9	1088.1
15°	1078.3	1088.1	1082.5	1091.9	1076.0
17.5°	1064.4	1073.7	1067.6	1076.0	1060.2
20°	1049.0	1056.4	1049.9	1056.9	1041.5
22.5°	1029.9	1036.9	1029.9	1034.5	1021.0
25°	1009.4	1014.5	1007.5	1012.2	998.2
27.5°	987.5	990.3	983.3	987.0	972.6
30°	960.4	963.7	956.3	960.9	946.9
32.5°	934.4	936.2	927.8	931.6	919.0
35°	903.6	905.5	896.6	900.3	887.8
37.5°	874.2	873.8	864.4	866.8	856.1
40°	840.2	839.8	830.0	831.8	821.6
42.5°	805.3	803.4	794.1	795.0	785.7
45°	766.1	765.2	755.4	756.8	747.5
47.5°	728.4	725.6	715.8	716.3	708.3
50°	687.4	683.2	674.8	673.9	666.9
52.5°	643.6	638.9	629.6	628.6	623.5
55°	597.9	592.8	583.9	582.5	578.3
57.5°	550.8	544.3	537.3	534.5	531.3
60°	501.0	494.9	487.0	484.2	482.8
62.5°	449.2	443.2	437.1	434.3	432.5
65°	396.6	391.9	384.9	382.1	380.7
67.5°	343.0	338.8	332.3	329.0	328.5
70°	289.4	285.2	277.7	275.9	275.4
72.5°	235.8	232.1	225.1	223.2	223.2
75°	183.6	180.3	174.3	172.4	172.4
77.5°	134.2	131.4	126.8	124.4	124.4
80°	89.5	87.6	83.4	81.6	81.1
82.5°	51.7	50.8	47.1	45.2	46.1
85°	23.8	22.8	21.0	18.6	19.1
87.5°	6.1	5.6	4.2	3.3	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)