

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: P973266

Luminaire Tested: FLR2-14-42HE-L850-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973266
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-L850-CP125
Description: 1*4 FLR-2.0 4200 Lumen High Efficacy at 5000CCT & 80CRI with Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

Summary

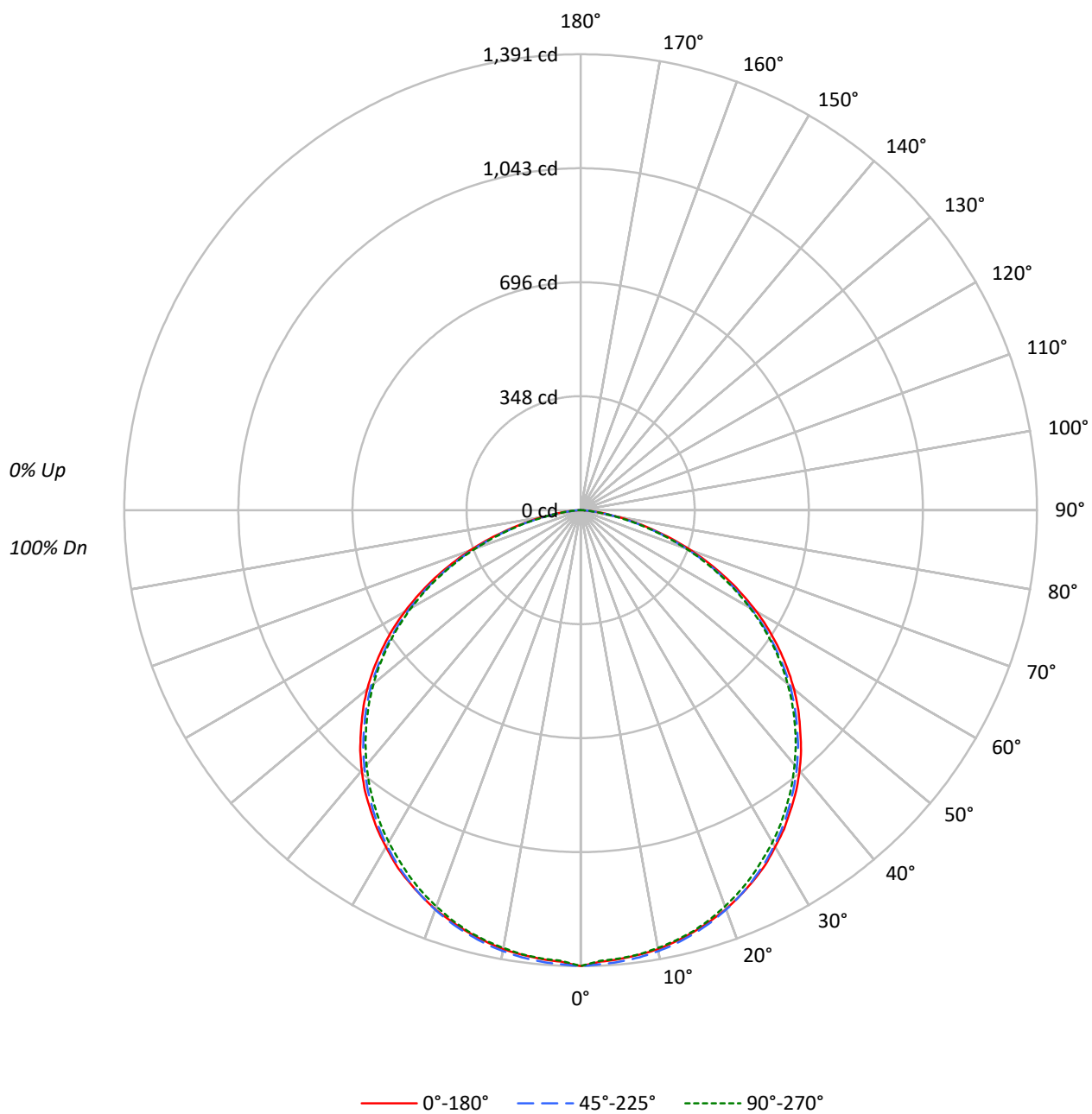
Lumens per Lamp: N/A
Luminaire Lumens: 3892.6 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P973266

CATALOG NUMBER: FLR2-14-42HE-L850-CP125

Luminous Intensity Polar Plot



TEST NUMBER: P973266

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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°	3743	3743	3743
5°	3713	3735	3709
10°	3717	3733	3706
15°	3711	3726	3703
20°	3711	3714	3684
25°	3702	3695	3661
30°	3686	3671	3635
35°	3667	3639	3602
40°	3646	3602	3565
45°	3602	3551	3514
50°	3555	3490	3449
55°	3465	3384	3352
60°	3330	3238	3210
65°	3119	3028	2995
70°	2813	2699	2677
75°	2358	2239	2215
80°	1712	1596	1553
85°	908	800	729

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3602 cd/sqm

TEST NUMBER: P973266

CATALOG NUMBER: FLR2-14-42HE-L850-CP125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	3.4
10°-20°	378.3	9.7
20°-30°	574.7	14.8
30°-40°	695.2	17.9
40°-50°	722.6	18.6
50°-60°	646.9	16.6
60°-70°	471.9	12.1
70°-80°	232.4	6.0
80°-90°	38.8	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°	1084.8	27.9
0°-40°	1780.0	45.7
0°-60°	3149.6	80.9
0°-90°	3892.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3892.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1391	1391	1391	1391	1391	
5°	1375	1390	1383	1396	1373	131
15°	1332	1344	1337	1349	1329	376
25°	1247	1253	1245	1250	1233	575
35°	1116	1118	1108	1112	1097	699
45°	946	945	933	935	923	731
55°	739	732	721	720	714	659
65°	490	484	476	472	470	484
75°	227	223	215	213	213	242
85°	29	28	26	23	24	42
90°	0	0	0	0	0	

TEST NUMBER: P973266

CATALOG NUMBER: FLR2-14-42HE-L850-CP125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1390.8	1390.8	1390.8	1390.8	1390.8
2.5°	1378.7	1394.2	1386.8	1400.6	1375.8
5°	1374.7	1389.6	1382.7	1396.0	1372.9
7.5°	1367.8	1383.3	1375.8	1388.5	1366.6
10°	1360.3	1374.1	1366.0	1378.7	1356.3
12.5°	1347.0	1360.9	1353.4	1364.9	1344.2
15°	1332.1	1344.2	1337.3	1348.8	1329.2
17.5°	1314.8	1326.3	1318.8	1329.2	1309.6
20°	1295.8	1305.0	1297.0	1305.6	1286.6
22.5°	1272.2	1280.8	1272.2	1278.0	1261.3
25°	1246.9	1253.2	1244.6	1250.3	1233.1
27.5°	1219.8	1223.3	1214.6	1219.2	1201.4
30°	1186.4	1190.5	1181.3	1187.0	1169.7
32.5°	1154.2	1156.5	1146.1	1150.7	1135.2
35°	1116.2	1118.5	1107.6	1112.2	1096.6
37.5°	1079.9	1079.4	1067.8	1070.7	1057.5
40°	1037.9	1037.3	1025.3	1027.6	1014.9
42.5°	994.7	992.4	980.9	982.1	970.6
45°	946.4	945.2	933.1	934.9	923.4
47.5°	899.8	896.3	884.2	884.8	875.0
50°	849.1	843.9	833.6	832.4	823.8
52.5°	795.0	789.2	777.7	776.6	770.2
55°	738.6	732.2	721.3	719.6	714.4
57.5°	680.4	672.4	663.7	660.3	656.3
60°	618.8	611.4	601.6	598.1	596.4
62.5°	554.9	547.5	540.0	536.5	534.2
65°	489.9	484.1	475.5	472.0	470.3
67.5°	423.7	418.5	410.4	406.4	405.8
70°	357.5	352.3	343.1	340.8	340.2
72.5°	291.3	286.7	278.0	275.7	275.7
75°	226.8	222.8	215.3	213.0	213.0
77.5°	165.8	162.3	156.6	153.7	153.7
80°	110.5	108.2	103.0	100.7	100.2
82.5°	63.9	62.7	58.1	55.8	57.0
85°	29.4	28.2	25.9	23.0	23.6
87.5°	7.5	6.9	5.2	4.0	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)