

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: P973126

Luminaire Tested: FLR2-14-42HE-L835-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973126
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-L835-CP125
Description: 1*4 FLR-2.0 4200 Lumen High Efficacy at 3500CCT & 80CRI with Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

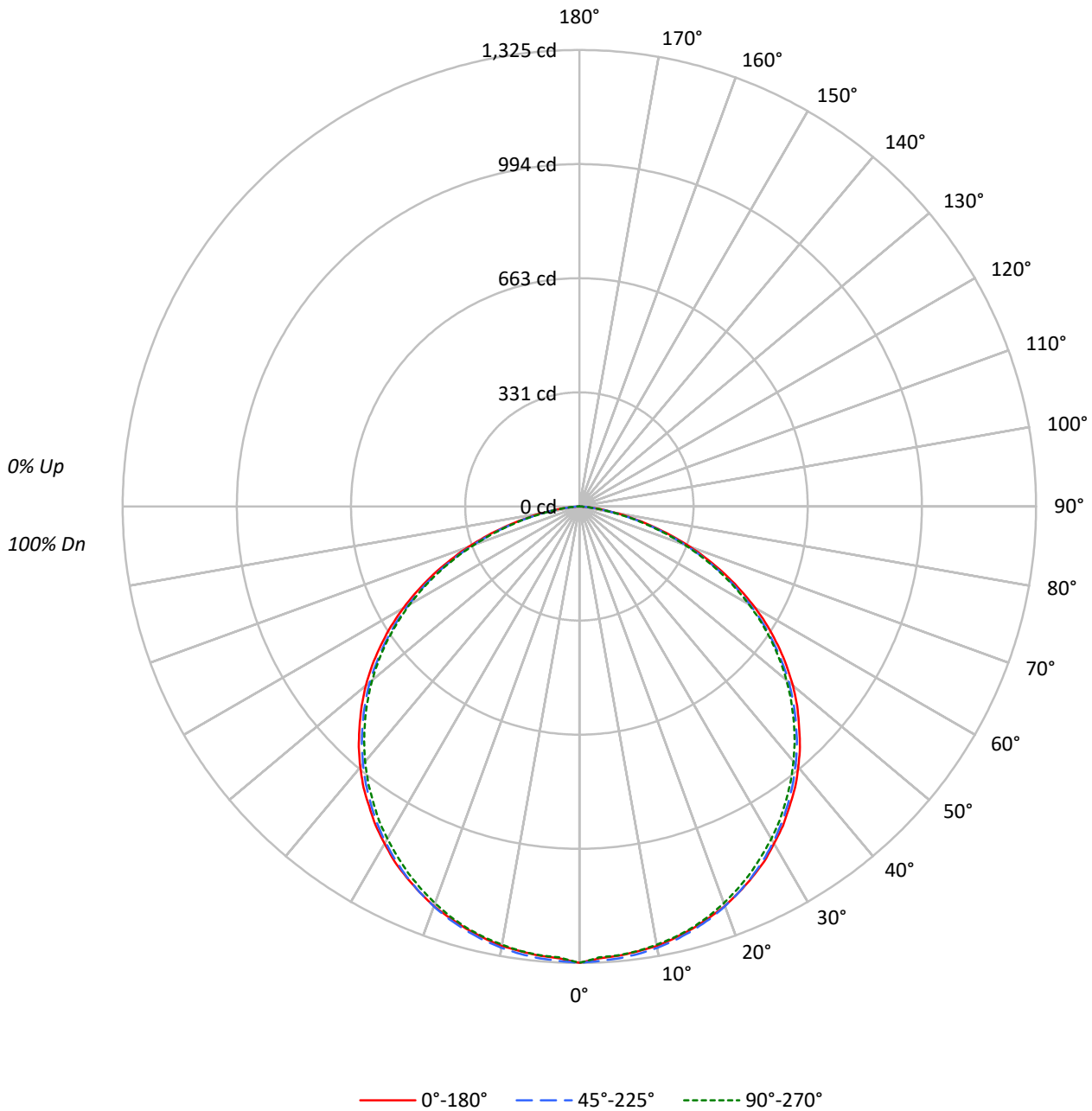
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3707.3 lumens
Efficiency: N/A
Efficacy: 116.2 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): 31.9
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									70									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°	3564	3564	3564
5°	3536	3557	3532
10°	3540	3555	3530
15°	3534	3548	3527
20°	3534	3537	3509
25°	3526	3519	3487
30°	3511	3496	3462
35°	3492	3465	3431
40°	3472	3430	3395
45°	3430	3382	3347
50°	3386	3324	3284
55°	3300	3223	3192
60°	3172	3083	3057
65°	2971	2884	2852
70°	2679	2571	2549
75°	2246	2131	2110
80°	1632	1520	1478
85°	865	763	695

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3430 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	3.4
10°-20°	360.3	9.7
20°-30°	547.4	14.8
30°-40°	662.1	17.9
40°-50°	688.2	18.6
50°-60°	616.1	16.6
60°-70°	449.4	12.1
70°-80°	221.3	6.0
80°-90°	37.0	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°	1033.1	27.9
0°-40°	1695.3	45.7
0°-60°	2999.6	80.9
0°-90°	3707.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3707.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1325	1325	1325	1325	1325	
5°	1309	1324	1317	1330	1308	125
15°	1269	1280	1274	1284	1266	358
25°	1188	1194	1185	1191	1174	547
35°	1063	1065	1055	1059	1044	666
45°	901	900	889	890	879	696
55°	703	697	687	685	680	628
65°	467	461	453	450	448	461
75°	216	212	205	203	203	230
85°	28	27	25	22	22	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1324.6	1324.6	1324.6	1324.6	1324.6
2.5°	1313.1	1327.9	1320.7	1333.9	1310.3
5°	1309.2	1323.5	1316.9	1329.5	1307.6
7.5°	1302.6	1317.4	1310.3	1322.4	1301.5
10°	1295.5	1308.7	1301.0	1313.1	1291.7
12.5°	1282.9	1296.1	1288.9	1299.9	1280.2
15°	1268.6	1280.2	1273.6	1284.5	1265.9
17.5°	1252.2	1263.2	1256.0	1265.9	1247.3
20°	1234.1	1242.9	1235.2	1243.4	1225.3
22.5°	1211.6	1219.9	1211.6	1217.1	1201.2
25°	1187.5	1193.5	1185.3	1190.8	1174.3
27.5°	1161.7	1165.0	1156.8	1161.2	1144.2
30°	1129.9	1133.8	1125.0	1130.5	1114.0
32.5°	1099.2	1101.4	1091.6	1095.9	1081.1
35°	1063.1	1065.2	1054.8	1059.2	1044.4
37.5°	1028.5	1028.0	1017.0	1019.7	1007.1
40°	988.5	987.9	976.4	978.6	966.6
42.5°	947.4	945.2	934.2	935.3	924.3
45°	901.3	900.2	888.7	890.4	879.4
47.5°	856.9	853.6	842.1	842.7	833.3
50°	808.7	803.7	793.9	792.8	784.5
52.5°	757.1	751.6	740.7	739.6	733.6
55°	703.4	697.4	687.0	685.3	680.4
57.5°	648.0	640.4	632.1	628.8	625.0
60°	589.4	582.2	572.9	569.6	568.0
62.5°	528.5	521.4	514.3	511.0	508.8
65°	466.6	461.1	452.9	449.6	447.9
67.5°	403.5	398.6	390.9	387.1	386.5
70°	340.5	335.5	326.8	324.6	324.0
72.5°	277.4	273.0	264.8	262.6	262.6
75°	216.0	212.2	205.0	202.9	202.9
77.5°	157.9	154.6	149.1	146.4	146.4
80°	105.3	103.1	98.1	95.9	95.4
82.5°	60.9	59.8	55.4	53.2	54.3
85°	28.0	26.9	24.7	21.9	22.5
87.5°	7.1	6.6	4.9	3.8	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)