

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: P973292

Luminaire Tested: FLR2-14-70HE-L850-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973292
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: FLR2-14-70HE-L850-CA125
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 5000CCT & 80CRI Clear Aryalic (0.125" thickness)

Light Source:
Ballast/Driver: -

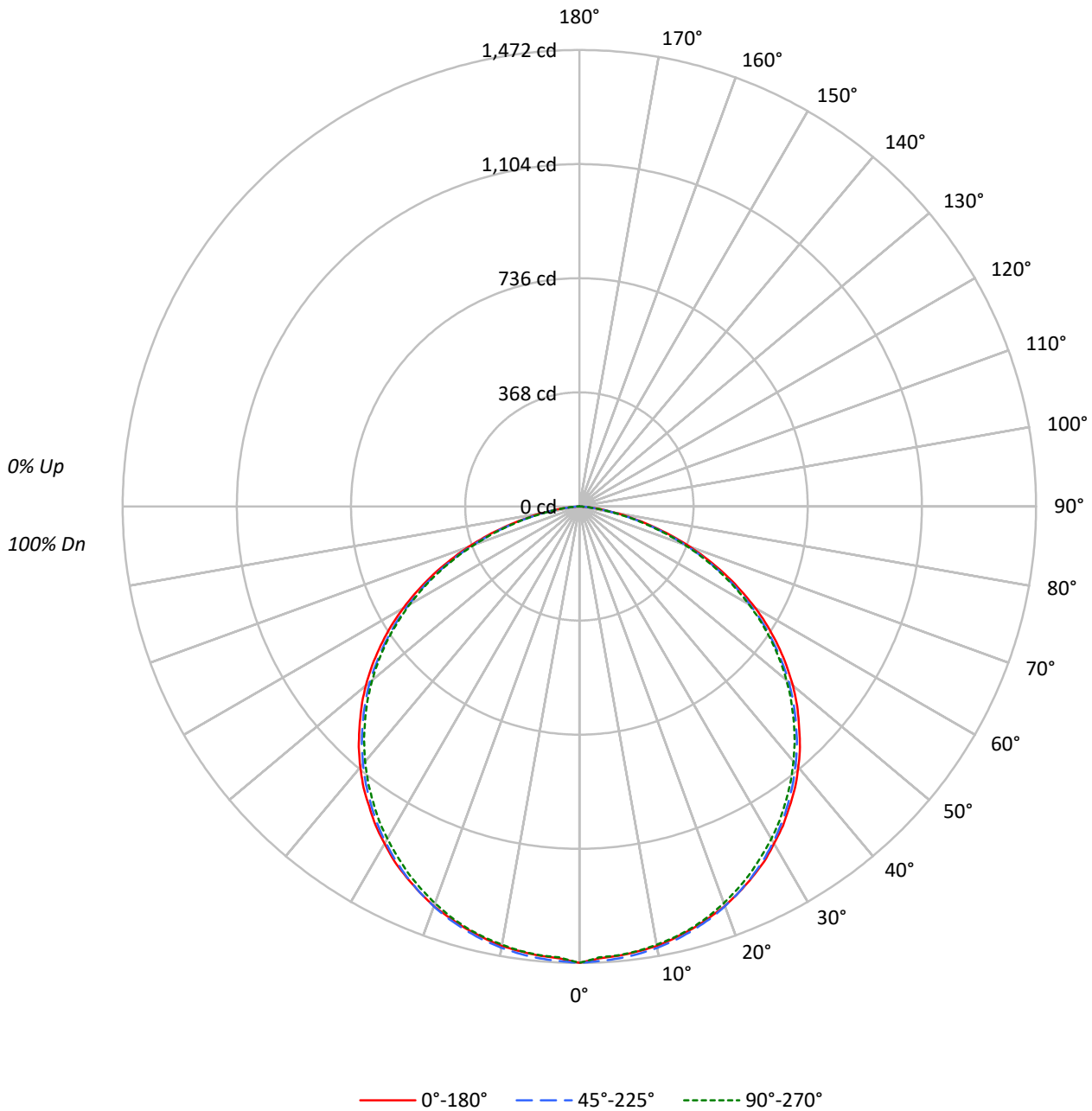
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4118.9 lumens
Efficiency: N/A
Efficacy: 78.5 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): 52.5
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°	3960	3960	3960
5°	3929	3952	3924
10°	3933	3950	3921
15°	3927	3942	3918
20°	3926	3930	3899
25°	3917	3910	3874
30°	3901	3884	3846
35°	3880	3850	3812
40°	3858	3811	3772
45°	3811	3758	3718
50°	3761	3692	3649
55°	3666	3581	3546
60°	3524	3426	3396
65°	3301	3203	3168
70°	2976	2856	2832
75°	2495	2368	2344
80°	1813	1689	1643
85°	960	846	772

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3811 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.4	3.4
10°-20°	400.3	9.7
20°-30°	608.1	14.8
30°-40°	735.7	17.9
40°-50°	764.6	18.6
50°-60°	684.5	16.6
60°-70°	499.3	12.1
70°-80°	245.9	6.0
80°-90°	41.1	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°	1147.8	27.9
0°-40°	1883.5	45.7
0°-60°	3332.6	80.9
0°-90°	4118.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4118.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1472	1472	1472	1472	1472	
5°	1455	1470	1463	1477	1453	138
15°	1410	1422	1415	1427	1406	398
25°	1319	1326	1317	1323	1305	608
35°	1181	1184	1172	1177	1160	740
45°	1001	1000	987	989	977	773
55°	782	775	763	761	756	698
65°	518	512	503	500	498	512
75°	240	236	228	225	225	256
85°	31	30	27	24	25	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1471.6	1471.6	1471.6	1471.6	1471.6
2.5°	1458.8	1475.3	1467.4	1482.0	1455.8
5°	1454.6	1470.4	1463.1	1477.1	1452.7
7.5°	1447.3	1463.7	1455.8	1469.2	1446.0
10°	1439.3	1454.0	1445.4	1458.8	1435.1
12.5°	1425.3	1440.0	1432.0	1444.2	1422.3
15°	1409.5	1422.3	1415.0	1427.2	1406.5
17.5°	1391.2	1403.4	1395.5	1406.5	1385.7
20°	1371.1	1380.9	1372.3	1381.5	1361.4
22.5°	1346.1	1355.3	1346.1	1352.2	1334.6
25°	1319.3	1326.0	1316.9	1323.0	1304.7
27.5°	1290.7	1294.4	1285.2	1290.1	1271.2
30°	1255.4	1259.7	1249.9	1256.0	1237.7
32.5°	1221.3	1223.7	1212.8	1217.6	1201.2
35°	1181.1	1183.5	1171.9	1176.8	1160.4
37.5°	1142.7	1142.1	1129.9	1133.0	1118.9
40°	1098.2	1097.6	1084.8	1087.3	1073.9
42.5°	1052.6	1050.1	1037.9	1039.2	1027.0
45°	1001.4	1000.2	987.4	989.2	977.0
47.5°	952.1	948.4	935.6	936.2	925.9
50°	898.4	893.0	882.0	880.8	871.6
52.5°	841.2	835.1	822.9	821.7	815.0
55°	781.5	774.8	763.2	761.4	755.9
57.5°	720.0	711.4	702.3	698.7	694.4
60°	654.8	646.9	636.5	632.9	631.0
62.5°	587.2	579.3	571.4	567.7	565.3
65°	518.4	512.3	503.1	499.5	497.6
67.5°	448.3	442.8	434.3	430.0	429.4
70°	378.3	372.8	363.0	360.6	360.0
72.5°	308.2	303.3	294.2	291.8	291.8
75°	240.0	235.7	227.8	225.4	225.4
77.5°	175.4	171.8	165.7	162.6	162.6
80°	117.0	114.5	109.0	106.6	106.0
82.5°	67.6	66.4	61.5	59.1	60.3
85°	31.1	29.8	27.4	24.4	25.0
87.5°	7.9	7.3	5.5	4.3	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)