

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: P973082

Luminaire Tested: FLR2-14-70HE-L830-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973082
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-L830-CA125
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 3000CCT & 80CRI Clear Aryalic (0.125" thickness)

Light Source:
Ballast/Driver: -

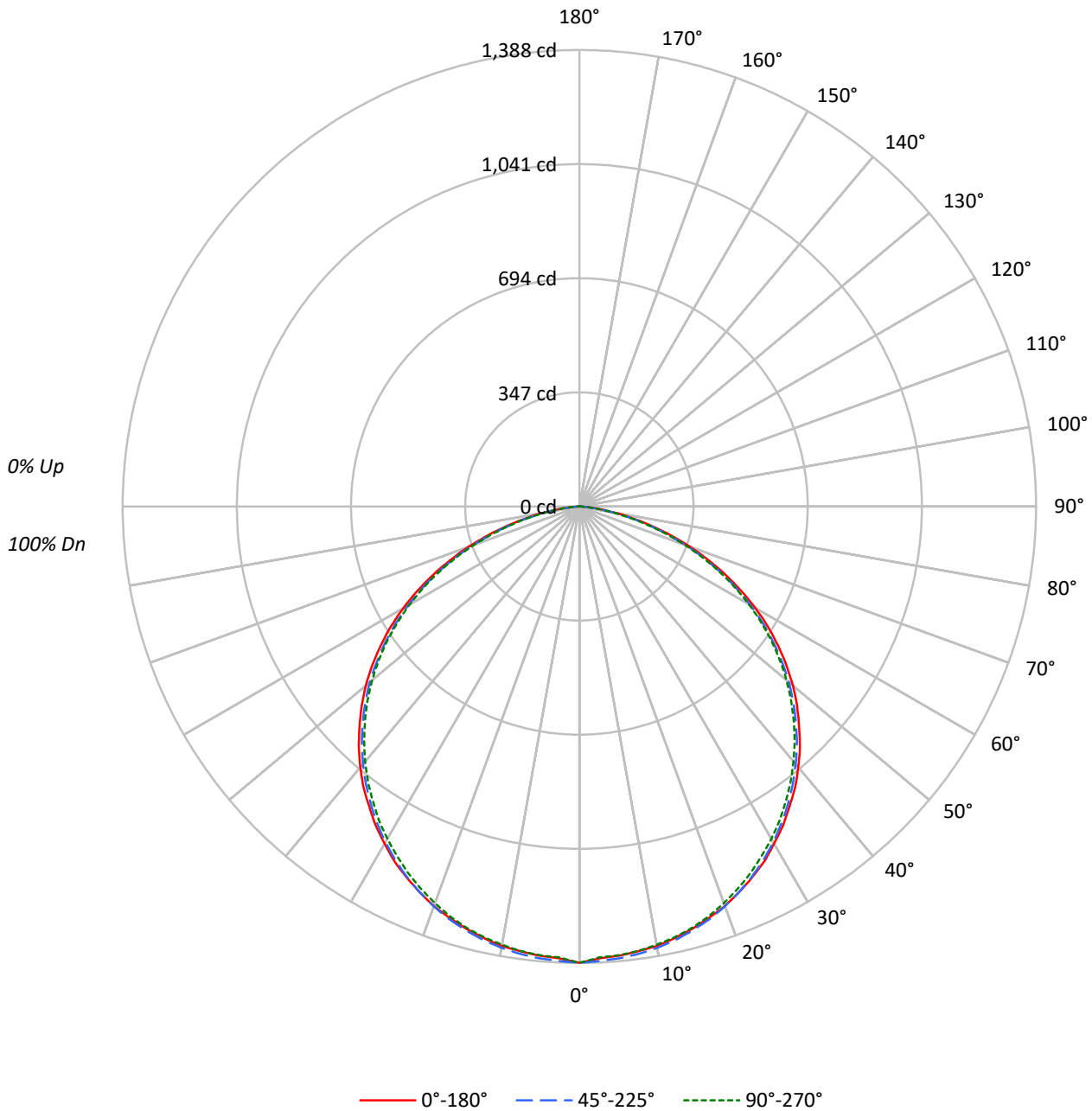
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3883.5 lumens
Efficiency: N/A
Efficacy: 74.0 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): 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

TEST NUMBER: P973082
CATALOG NUMBER: FLR2-14-70HE-L830-CA125

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°	3734	3734	3734
5°	3705	3726	3700
10°	3708	3724	3697
15°	3702	3717	3694
20°	3702	3705	3676
25°	3694	3687	3653
30°	3678	3662	3626
35°	3658	3630	3594
40°	3638	3593	3557
45°	3593	3543	3506
50°	3546	3481	3440
55°	3457	3376	3344
60°	3323	3230	3202
65°	3112	3021	2988
70°	2806	2693	2670
75°	2353	2233	2209
80°	1709	1593	1548
85°	905	797	726

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3593 cd/sqm



TEST NUMBER: P973082
 CATALOG NUMBER: FLR2-14-70HE-L830-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	3.4
10°-20°	377.4	9.7
20°-30°	573.4	14.8
30°-40°	693.6	17.9
40°-50°	720.9	18.6
50°-60°	645.4	16.6
60°-70°	470.8	12.1
70°-80°	231.8	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°	1082.3	27.9
0°-40°	1775.9	45.7
0°-60°	3142.2	80.9
0°-90°	3883.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3883.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1372	1386	1380	1393	1370	130
15°	1329	1341	1334	1346	1326	375
25°	1244	1250	1242	1247	1230	573
35°	1114	1116	1105	1110	1094	697
45°	944	943	931	933	921	729
55°	737	730	720	718	713	658
65°	489	483	474	471	469	483
75°	226	222	215	212	212	241
85°	29	28	26	23	24	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1387.5	1387.5	1387.5	<i>1387.5</i>	1387.5
2.5°	<i>1375.5</i>	<i>1391.0</i>	<i>1383.5</i>	<i>1397.3</i>	<i>1372.6</i>
5°	1371.5	1386.4	1379.5	<i>1392.7</i>	1369.7
7.5°	1364.6	1380.1	1372.6	<i>1385.2</i>	1363.4
10°	1357.1	1370.9	1362.8	<i>1375.5</i>	1353.1
12.5°	1343.9	1357.7	1350.2	<i>1361.7</i>	1341.0
15°	1329.0	1341.0	1334.1	<i>1345.6</i>	1326.1
17.5°	1311.7	1323.2	1315.7	<i>1326.1</i>	1306.6
20°	1292.8	1302.0	1293.9	<i>1302.5</i>	1283.6
22.5°	1269.2	1277.8	1269.2	<i>1275.0</i>	1258.3
25°	1244.0	1250.3	1241.7	<i>1247.4</i>	1230.2
27.5°	1217.0	1220.4	1211.8	<i>1216.4</i>	1198.6
30°	1183.7	1187.7	1178.5	<i>1184.2</i>	1167.0
32.5°	1151.5	1153.8	1143.5	<i>1148.0</i>	1132.5
35°	1113.6	1115.9	1105.0	<i>1109.6</i>	1094.1
37.5°	1077.4	1076.8	1065.3	<i>1068.2</i>	1055.0
40°	1035.5	1034.9	1022.8	<i>1025.1</i>	1012.5
42.5°	992.4	990.1	978.6	<i>979.8</i>	968.3
45°	944.2	943.0	931.0	<i>932.7</i>	921.2
47.5°	897.6	894.2	882.1	<i>882.7</i>	873.0
50°	847.1	841.9	831.6	<i>830.5</i>	821.8
52.5°	793.1	787.4	775.9	<i>774.7</i>	768.4
55°	736.8	730.5	719.6	<i>717.9</i>	712.7
57.5°	678.8	670.8	662.2	<i>658.7</i>	654.7
60°	617.4	609.9	600.2	<i>596.7</i>	595.0
62.5°	553.6	546.2	538.7	<i>535.3</i>	533.0
65°	488.7	483.0	474.4	<i>470.9</i>	469.2
67.5°	422.7	417.5	409.5	<i>405.5</i>	404.9
70°	356.6	351.5	342.3	<i>340.0</i>	339.4
72.5°	290.6	286.0	277.4	<i>275.1</i>	275.1
75°	226.3	222.3	214.8	<i>212.5</i>	212.5
77.5°	165.4	162.0	156.2	<i>153.3</i>	153.3
80°	110.3	108.0	102.8	<i>100.5</i>	99.9
82.5°	63.7	62.6	58.0	<i>55.7</i>	56.9
85°	29.3	28.1	25.8	<i>23.0</i>	23.5
87.5°	7.5	6.9	5.2	<i>4.0</i>	5.2
90°	0.0	0.0	0.0	<i>0.0</i>	0.0

(END OF REPORT)