

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: P973222

Luminaire Tested: FLR2-14-70HE-L840-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973222
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-L840-CA125
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 4000CCT & 80CRI Clear Aryalic (0.125" thickness)

Light Source:
Ballast/Driver: -

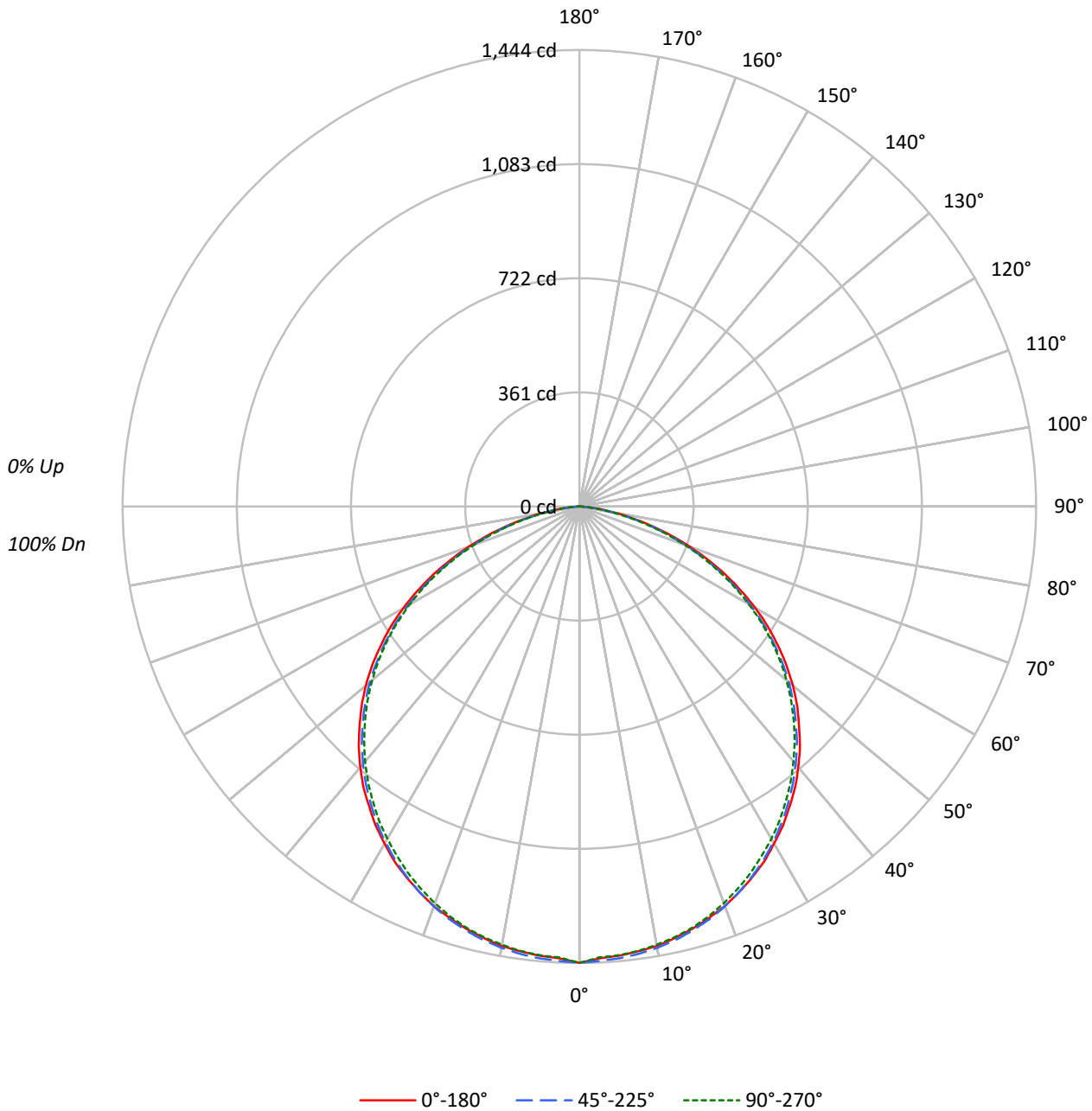
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4040.4 lumens
Efficiency: N/A
Efficacy: 77.0 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

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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°	3885	3885	3885
5°	3854	3877	3850
10°	3858	3874	3847
15°	3852	3867	3844
20°	3852	3855	3824
25°	3843	3836	3800
30°	3827	3810	3773
35°	3806	3777	3739
40°	3784	3738	3700
45°	3738	3686	3647
50°	3689	3622	3579
55°	3597	3513	3479
60°	3457	3360	3331
65°	3238	3142	3109
70°	2920	2802	2778
75°	2447	2324	2299
80°	1777	1658	1612
85°	942	831	756

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3738 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	3.4
10°-20°	392.7	9.7
20°-30°	596.6	14.8
30°-40°	721.6	17.9
40°-50°	750.0	18.6
50°-60°	671.5	16.6
60°-70°	489.8	12.1
70°-80°	241.2	6.0
80°-90°	40.3	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°	1126.0	27.9
0°-40°	1847.6	45.7
0°-60°	3269.1	80.9
0°-90°	4040.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4040.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1444	1444	1444	1444	1444	
5°	1427	1442	1435	1449	1425	136
15°	1383	1395	1388	1400	1380	390
25°	1294	1301	1292	1298	1280	597
35°	1159	1161	1150	1154	1138	726
45°	982	981	969	970	958	758
55°	767	760	749	747	742	684
65°	508	502	494	490	488	502
75°	235	231	224	221	221	251
85°	30	29	27	24	24	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1443.6	1443.6	1443.6	1443.6	1443.6
2.5°	1431.0	1447.2	1439.4	1453.8	1428.1
5°	1426.9	1442.4	1435.2	1449.0	1425.1
7.5°	1419.7	1435.8	1428.1	1441.2	1418.5
10°	1411.9	1426.3	1417.9	1431.0	1407.7
12.5°	1398.2	1412.5	1404.8	1416.7	1395.2
15°	1382.6	1395.2	1388.0	1400.0	1379.7
17.5°	1364.7	1376.7	1368.9	1379.7	1359.3
20°	1345.0	1354.6	1346.2	1355.2	1335.4
22.5°	1320.5	1329.5	1320.5	1326.5	1309.2
25°	1294.2	1300.8	1291.8	1297.8	1279.9
27.5°	1266.1	1269.7	1260.8	1265.5	1247.0
30°	1231.5	1235.7	1226.1	1232.1	1214.2
32.5°	1198.0	1200.4	1189.7	1194.4	1178.3
35°	1158.6	1161.0	1149.6	1154.4	1138.3
37.5°	1120.9	1120.3	1108.4	1111.4	1097.6
40°	1077.3	1076.7	1064.2	1066.6	1053.4
42.5°	1032.5	1030.1	1018.2	1019.4	1007.4
45°	982.3	981.1	968.6	970.4	958.4
47.5°	933.9	930.3	917.8	918.4	908.2
50°	881.3	876.0	865.2	864.0	855.0
52.5°	825.2	819.2	807.2	806.0	799.5
55°	766.6	760.0	748.7	746.9	741.5
57.5°	706.3	697.9	688.9	685.3	681.2
60°	642.3	634.6	624.4	620.8	619.0
62.5°	576.0	568.2	560.5	556.9	554.5
65°	508.5	502.5	493.5	490.0	488.2
67.5°	439.8	434.4	426.0	421.8	421.2
70°	371.1	365.7	356.1	353.7	353.1
72.5°	302.3	297.6	288.6	286.2	286.2
75°	235.4	231.2	223.5	221.1	221.1
77.5°	172.1	168.5	162.5	159.5	159.5
80°	114.7	112.3	107.0	104.6	104.0
82.5°	66.3	65.1	60.3	58.0	59.2
85°	30.5	29.3	26.9	23.9	24.5
87.5°	7.8	7.2	5.4	4.2	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)