

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: P973430

Luminaire Tested: FLR2-14-42-L840-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973430
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: FLR2-14-42-L840-CA125
Description: 1*4 FLR-2.0 4200 LUMEN at 4000 CCT & 80CRI with Clear Acrylic (0.125" thickness)

Light Source:
Ballast/Driver: -

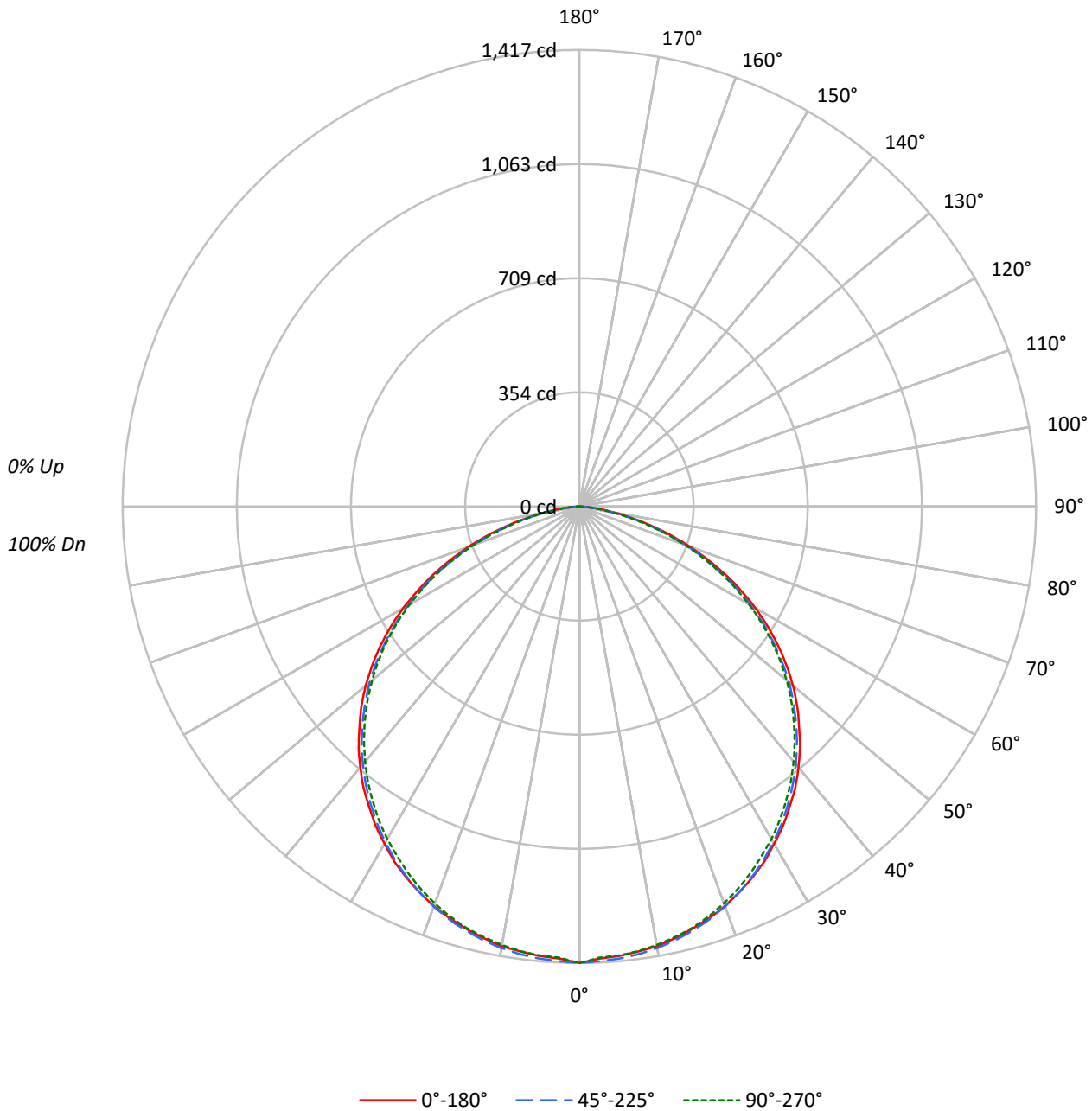
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3966.4 lumens
Efficiency: N/A
Efficacy: 125.1 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): 31.7
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				20	
RC	80				70				50				30				10	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	3813	3813	3813
5°	3784	3806	3779
10°	3788	3803	3776
15°	3781	3796	3773
20°	3781	3784	3754
25°	3772	3765	3730
30°	3756	3740	3704
35°	3736	3708	3671
40°	3715	3670	3633
45°	3670	3618	3581
50°	3622	3556	3514
55°	3531	3448	3415
60°	3394	3299	3271
65°	3179	3085	3051
70°	2866	2751	2728
75°	2403	2281	2256
80°	1745	1627	1582
85°	923	815	741

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3670 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	3.4
10°-20°	385.5	9.7
20°-30°	585.6	14.8
30°-40°	708.4	17.9
40°-50°	736.3	18.6
50°-60°	659.2	16.6
60°-70°	480.8	12.1
70°-80°	236.8	6.0
80°-90°	39.6	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°	1105.3	27.9
0°-40°	1813.8	45.7
0°-60°	3209.2	80.9
0°-90°	3966.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3966.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1417	1417	1417	1417	1417	
5°	1401	1416	1409	1422	1399	133
15°	1357	1370	1363	1374	1354	383
25°	1270	1277	1268	1274	1256	586
35°	1137	1140	1129	1133	1117	712
45°	964	963	951	953	941	745
55°	753	746	735	733	728	672
65°	499	493	484	481	479	493
75°	231	227	219	217	217	246
85°	30	29	26	24	24	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1417.1	1417.1	1417.1	1417.1	1417.1
2.5°	1404.8	1420.7	1413.0	1427.1	1401.9
5°	1400.7	1416.0	1408.9	1422.4	1399.0
7.5°	1393.7	1409.5	1401.9	1414.8	1392.5
10°	1386.1	1400.1	1391.9	1404.8	1382.0
12.5°	1372.6	1386.6	1379.0	1390.7	1369.6
15°	1357.3	1369.6	1362.6	1374.3	1354.4
17.5°	1339.7	1351.4	1343.8	1354.4	1334.4
20°	1320.4	1329.7	1321.5	1330.3	1311.0
22.5°	1296.3	1305.1	1296.3	1302.2	1285.2
25°	1270.5	1277.0	1268.2	1274.0	1256.4
27.5°	1242.9	1246.5	1237.7	1242.3	1224.2
30°	1208.9	1213.0	1203.6	1209.5	1191.9
32.5°	1176.1	1178.4	1167.9	1172.5	1156.7
35°	1137.4	1139.7	1128.6	1133.2	1117.4
37.5°	1100.4	1099.8	1088.1	1091.0	1077.5
40°	1057.6	1057.0	1044.7	1047.0	1034.1
42.5°	1013.6	1011.2	999.5	1000.7	989.0
45°	964.3	963.1	950.8	952.6	940.9
47.5°	916.8	913.3	901.0	901.6	891.6
50°	865.2	859.9	849.3	848.2	839.4
52.5°	810.0	804.2	792.5	791.3	784.8
55°	752.6	746.1	735.0	733.2	727.9
57.5°	693.3	685.1	676.3	672.8	668.7
60°	630.6	622.9	613.0	609.4	607.7
62.5°	565.5	557.8	550.2	546.7	544.3
65°	499.2	493.3	484.5	481.0	479.2
67.5°	431.7	426.4	418.2	414.1	413.5
70°	364.3	359.0	349.6	347.2	346.7
72.5°	296.8	292.1	283.3	281.0	281.0
75°	231.1	227.0	219.4	217.0	217.0
77.5°	168.9	165.4	159.5	156.6	156.6
80°	112.6	110.3	105.0	102.6	102.1
82.5°	65.1	63.9	59.2	56.9	58.1
85°	29.9	28.7	26.4	23.5	24.0
87.5°	7.6	7.0	5.3	4.1	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)