

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: P973388

Luminaire Tested: FLR2-14-42-L835-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973388
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-L835-CA080
Description: 1*4 FLR-2.0 4200 LUMEN at 3500 CCT & 80CRI with Clear Acrylic (0.080" thickness)

Light Source:
Ballast/Driver: -

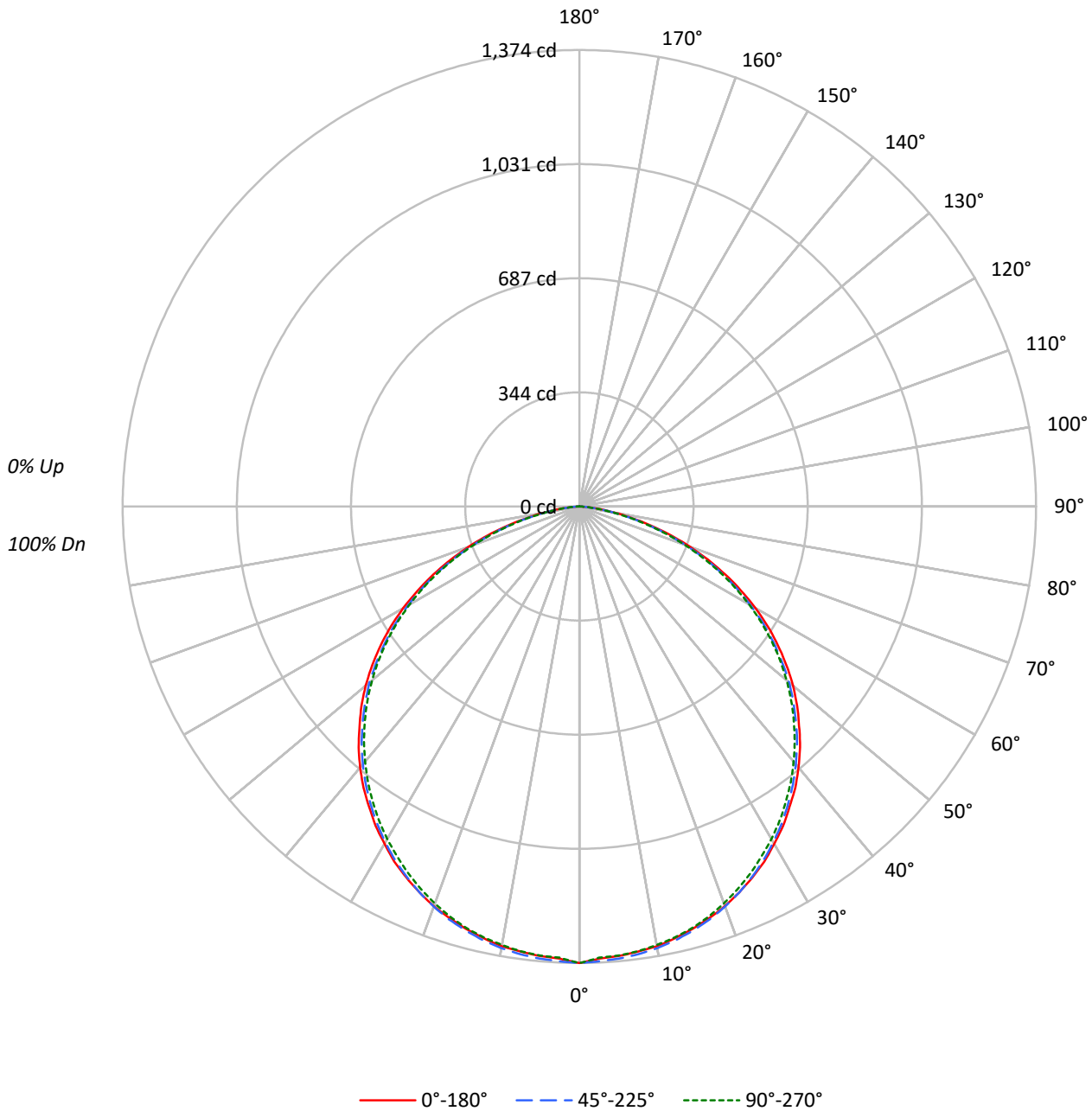
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3846.7 lumens
Efficiency: N/A
Efficacy: 121.3 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	0
RW	70	50	30	10	70	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
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°	3698	3698	3698
5°	3670	3691	3665
10°	3673	3689	3662
15°	3667	3682	3659
20°	3667	3670	3641
25°	3659	3652	3618
30°	3643	3627	3592
35°	3623	3596	3560
40°	3603	3559	3523
45°	3559	3509	3473
50°	3513	3448	3408
55°	3424	3344	3312
60°	3291	3200	3172
65°	3082	2992	2960
70°	2780	2667	2645
75°	2330	2213	2189
80°	1692	1578	1534
85°	895	790	719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3559 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	3.4
10°-20°	373.9	9.7
20°-30°	568.0	14.8
30°-40°	687.0	17.9
40°-50°	714.0	18.6
50°-60°	639.3	16.6
60°-70°	466.3	12.1
70°-80°	229.6	6.0
80°-90°	38.4	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°	1072.0	27.9
0°-40°	1759.0	45.7
0°-60°	3112.4	80.9
0°-90°	3846.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3846.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1358	1373	1366	1380	1357	129
15°	1316	1328	1322	1333	1314	372
25°	1232	1238	1230	1236	1218	568
35°	1103	1105	1094	1099	1084	691
45°	935	934	922	924	912	722
55°	730	724	713	711	706	651
65°	484	478	470	466	465	478
75°	224	220	213	210	210	239
85°	29	28	26	23	23	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1374.4	1374.4	1374.4	1374.4	1374.4
2.5°	1362.4	1377.8	1370.4	1384.1	1359.6
5°	1358.5	1373.2	1366.4	1379.5	1356.8
7.5°	1351.6	1367.0	1359.6	1372.1	1350.5
10°	1344.2	1357.9	1349.9	1362.4	1340.3
12.5°	1331.2	1344.8	1337.4	1348.8	1328.3
15°	1316.4	1328.3	1321.5	1332.9	1313.5
17.5°	1299.3	1310.7	1303.3	1313.5	1294.2
20°	1280.5	1289.6	1281.7	1290.2	1271.4
22.5°	1257.2	1265.7	1257.2	1262.9	1246.4
25°	1232.2	1238.4	1229.9	1235.6	1218.5
27.5°	1205.4	1208.8	1200.3	1204.9	1187.2
30°	1172.4	1176.4	1167.3	1173.0	1155.9
32.5°	1140.6	1142.9	1132.6	1137.2	1121.8
35°	1103.0	1105.3	1094.5	1099.1	1083.7
37.5°	1067.2	1066.6	1055.3	1058.1	1045.0
40°	1025.7	1025.1	1013.2	1015.4	1002.9
42.5°	983.0	980.7	969.4	970.5	959.1
45°	935.2	934.1	922.1	923.8	912.5
47.5°	889.1	885.7	873.8	874.4	864.7
50°	839.1	834.0	823.7	822.6	814.1
52.5°	785.6	779.9	768.5	767.4	761.1
55°	729.9	723.6	712.8	711.1	706.0
57.5°	672.4	664.4	655.9	652.5	648.5
60°	611.5	604.1	594.5	591.1	589.3
62.5°	548.4	541.0	533.6	530.2	527.9
65°	484.1	478.4	469.9	466.5	464.8
67.5°	418.7	413.6	405.6	401.6	401.1
70°	353.3	348.1	339.0	336.8	336.2
72.5°	287.8	283.3	274.8	272.5	272.5
75°	224.1	220.2	212.8	210.5	210.5
77.5°	163.8	160.4	154.7	151.9	151.9
80°	109.2	106.9	101.8	99.6	99.0
82.5°	63.1	62.0	57.5	55.2	56.3
85°	29.0	27.9	25.6	22.8	23.3
87.5°	7.4	6.8	5.1	4.0	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)