

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: P973391

Luminaire Tested: FLR2-14-42-L835-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973391
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-CA125
Description: 1*4 FLR-2.0 4200 LUMEN at 3500 CCT & 80CRI with Clear Acrylic (0.125" thickness)

Light Source:
Ballast/Driver: -

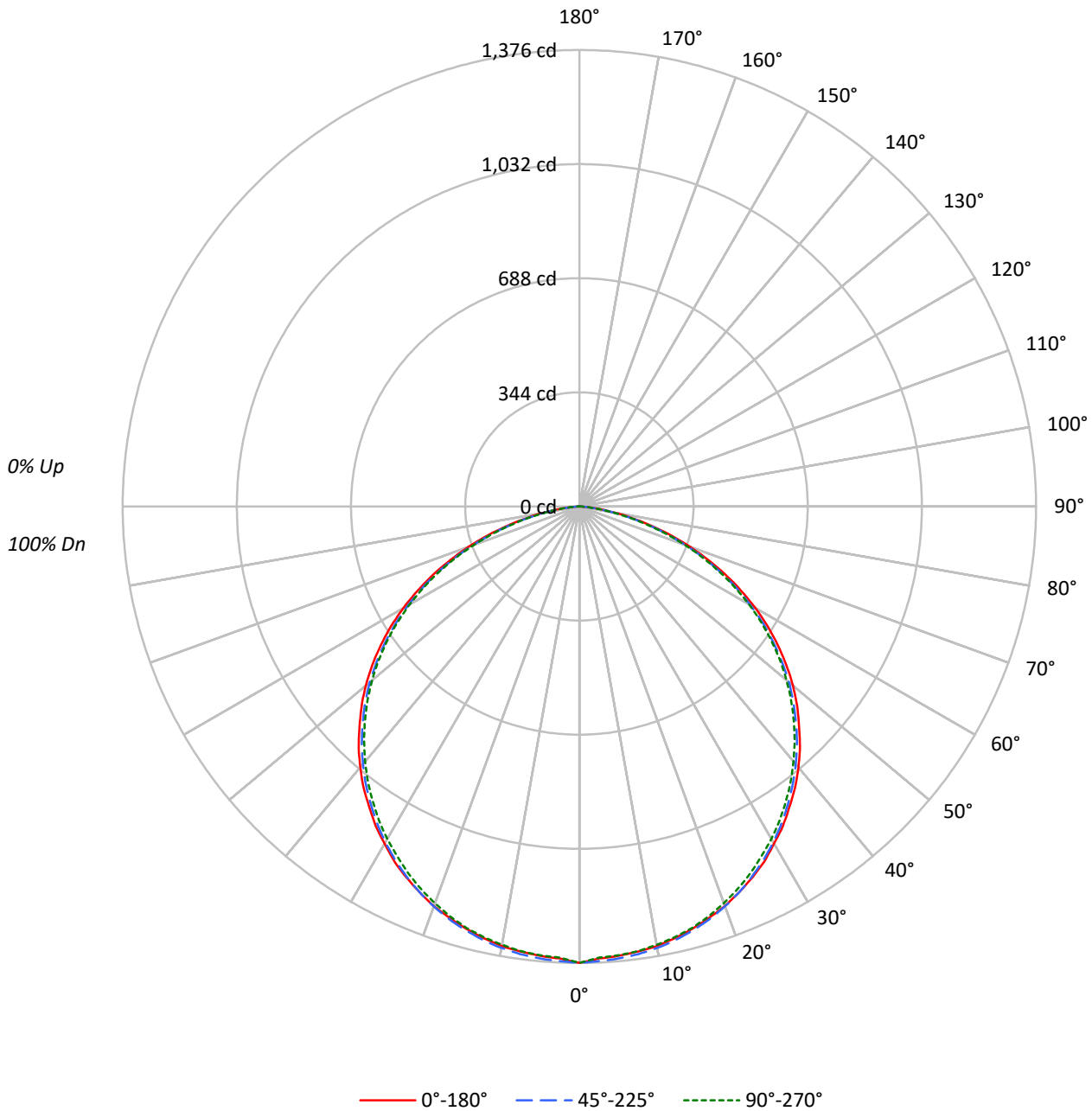
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3850.9 lumens
Efficiency: N/A
Efficacy: 121.5 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): 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°	3703	3703	3703
5°	3673	3695	3669
10°	3677	3693	3666
15°	3671	3685	3663
20°	3671	3674	3645
25°	3662	3656	3622
30°	3647	3631	3596
35°	3627	3599	3564
40°	3607	3563	3527
45°	3563	3513	3476
50°	3517	3452	3412
55°	3428	3348	3316
60°	3295	3203	3175
65°	3086	2995	2963
70°	2782	2670	2648
75°	2333	2215	2191
80°	1694	1579	1536
85°	895	790	719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3563 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	3.4
10°-20°	374.3	9.7
20°-30°	568.6	14.8
30°-40°	687.8	17.9
40°-50°	714.8	18.6
50°-60°	640.0	16.6
60°-70°	466.8	12.1
70°-80°	229.9	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°	1073.2	27.9
0°-40°	1760.9	45.7
0°-60°	3115.8	80.9
0°-90°	3850.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3850.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1376	1376	1376	1376	1376	
5°	1360	1375	1368	1381	1358	129
15°	1318	1330	1323	1334	1315	372
25°	1234	1240	1231	1237	1220	569
35°	1104	1106	1096	1100	1085	692
45°	936	935	923	925	913	723
55°	731	724	714	712	707	652
65°	485	479	470	467	465	479
75°	224	220	213	211	211	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°	1375.9	1375.9	1375.9	1375.9	1375.9
2.5°	1363.9	1379.3	1371.9	1385.6	1361.1
5°	1359.9	1374.7	1367.9	1381.0	1358.2
7.5°	1353.1	1368.5	1361.1	1373.6	1352.0
10°	1345.7	1359.4	1351.4	1363.9	1341.7
12.5°	1332.6	1346.3	1338.9	1350.2	1329.7
15°	1317.8	1329.7	1322.9	1334.3	1314.9
17.5°	1300.7	1312.1	1304.7	1314.9	1295.6
20°	1281.9	1291.0	1283.0	1291.6	1272.8
22.5°	1258.6	1267.1	1258.6	1264.3	1247.7
25°	1233.5	1239.8	1231.2	1236.9	1219.8
27.5°	1206.7	1210.1	1201.6	1206.2	1188.5
30°	1173.7	1177.7	1168.6	1174.3	1157.2
32.5°	1141.8	1144.1	1133.8	1138.4	1123.0
35°	1104.2	1106.5	1095.7	1100.2	1084.9
37.5°	1068.3	1067.8	1056.4	1059.2	1046.1
40°	1026.8	1026.2	1014.2	1016.5	1004.0
42.5°	984.1	981.8	970.4	971.5	960.1
45°	936.2	935.1	923.1	924.8	913.4
47.5°	890.1	886.7	874.7	875.3	865.6
50°	840.0	834.9	824.6	823.5	814.9
52.5°	786.5	780.8	769.4	768.2	762.0
55°	730.6	724.4	713.6	711.9	706.7
57.5°	673.1	665.2	656.6	653.2	649.2
60°	612.2	604.8	595.1	591.7	590.0
62.5°	549.0	541.6	534.2	530.8	528.5
65°	484.6	478.9	470.4	467.0	465.3
67.5°	419.1	414.0	406.0	402.1	401.5
70°	353.6	348.5	339.4	337.1	336.6
72.5°	288.2	283.6	275.1	272.8	272.8
75°	224.4	220.4	213.0	210.7	210.7
77.5°	164.0	160.6	154.9	152.1	152.1
80°	109.3	107.1	101.9	99.7	99.1
82.5°	63.2	62.1	57.5	55.2	56.4
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)