

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: P973373

Luminaire Tested: FLR2-14-42-L835-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973373
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-CP080
Description: 1*4 FLR-2.0 4200 LUMEN at 3500 CCT & 80CRI with Clear Polycarbonate (0.080" thickness)

Light Source:
Ballast/Driver: -

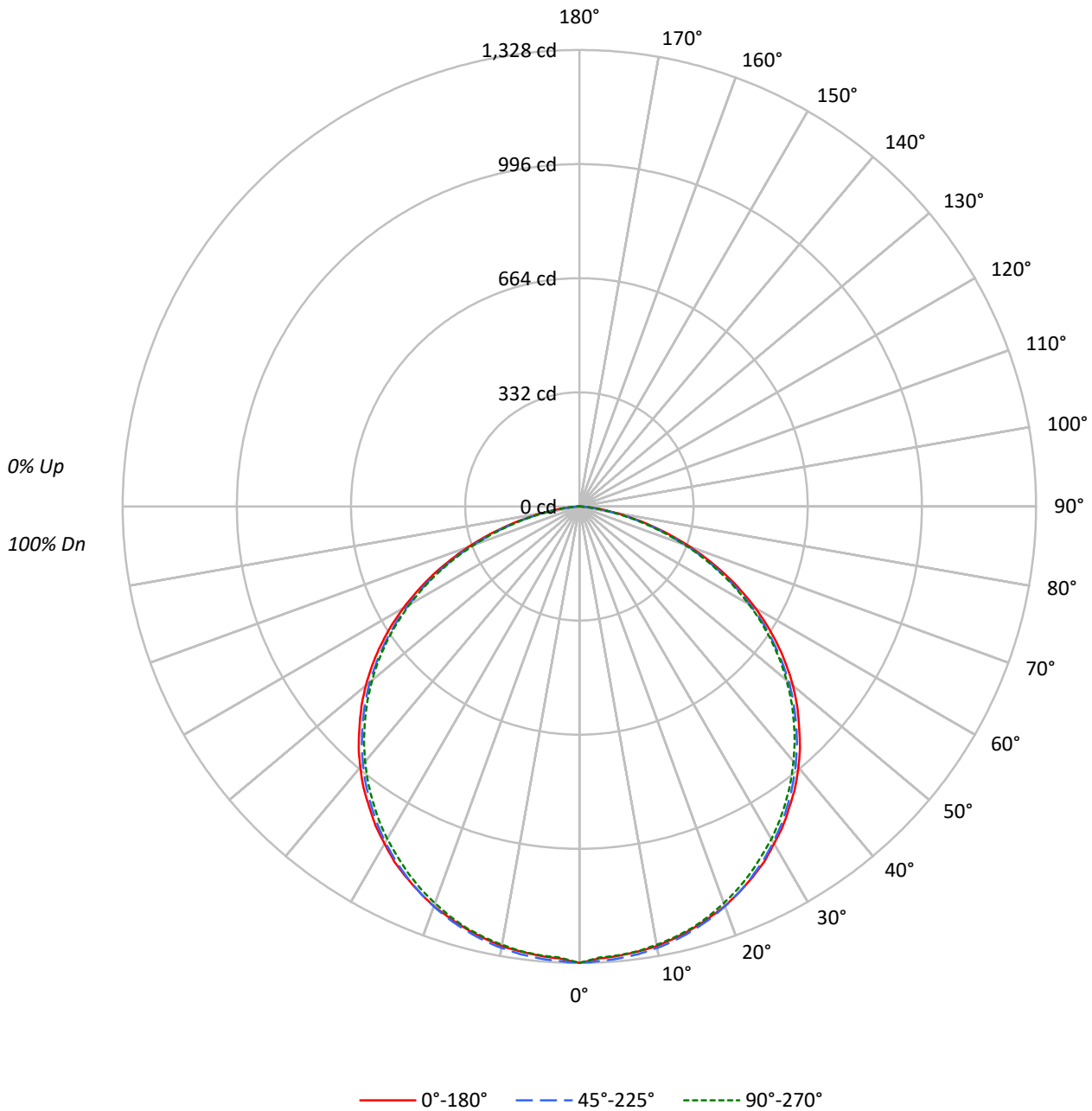
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3716.7 lumens
Efficiency: N/A
Efficacy: 117.2 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°	3573	3573	3573
5°	3545	3566	3541
10°	3549	3564	3539
15°	3543	3557	3536
20°	3543	3546	3518
25°	3535	3528	3496
30°	3520	3505	3471
35°	3501	3474	3440
40°	3481	3439	3404
45°	3439	3391	3355
50°	3394	3332	3293
55°	3309	3231	3200
60°	3180	3091	3064
65°	2978	2891	2860
70°	2685	2578	2555
75°	2252	2138	2115
80°	1635	1525	1481
85°	865	763	695

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3439 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	3.4
10°-20°	361.2	9.7
20°-30°	548.8	14.8
30°-40°	663.8	17.9
40°-50°	689.9	18.6
50°-60°	617.7	16.6
60°-70°	450.5	12.1
70°-80°	221.9	6.0
80°-90°	37.1	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°	1035.8	27.9
0°-40°	1699.6	45.7
0°-60°	3007.2	80.9
0°-90°	3716.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3716.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1328	1328	1328	1328	1328	
5°	1312	1327	1320	1333	1311	125
15°	1272	1283	1277	1288	1269	359
25°	1190	1197	1188	1194	1177	549
35°	1066	1068	1058	1062	1047	667
45°	904	902	891	893	882	698
55°	705	699	689	687	682	629
65°	468	462	454	451	449	462
75°	217	213	206	203	203	231
85°	28	27	25	22	22	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1327.9	1327.9	1327.9	1327.9	1327.9
2.5°	1316.4	1331.2	1324.1	1337.3	1313.6
5°	1312.5	1326.8	1320.2	1332.9	1310.9
7.5°	1305.9	1320.8	1313.6	1325.7	1304.8
10°	1298.8	1312.0	1304.3	1316.4	1295.0
12.5°	1286.2	1299.4	1292.2	1303.2	1283.4
15°	1271.9	1283.4	1276.8	1287.8	1269.1
17.5°	1255.4	1266.4	1259.2	1269.1	1250.4
20°	1237.2	1246.0	1238.3	1246.6	1228.4
22.5°	1214.7	1223.0	1214.7	1220.2	1204.3
25°	1190.5	1196.6	1188.3	1193.8	1177.3
27.5°	1164.7	1168.0	1159.7	1164.1	1147.1
30°	1132.8	1136.7	1127.9	1133.4	1116.9
32.5°	1102.0	1104.2	1094.3	1098.7	1083.9
35°	1065.8	1068.0	1057.5	1061.9	1047.1
37.5°	1031.1	1030.6	1019.6	1022.3	1009.7
40°	991.0	990.5	978.9	981.1	969.0
42.5°	949.8	947.6	936.6	937.7	926.7
45°	903.6	902.5	891.0	892.6	881.6
47.5°	859.1	855.8	844.2	844.8	835.5
50°	810.7	805.8	795.9	794.8	786.5
52.5°	759.1	753.6	742.6	741.5	735.4
55°	705.2	699.1	688.7	687.1	682.1
57.5°	649.7	642.0	633.7	630.4	626.6
60°	590.9	583.7	574.4	571.1	569.4
62.5°	529.9	522.7	515.6	512.3	510.1
65°	467.7	462.2	454.0	450.7	449.1
67.5°	404.5	399.6	391.9	388.0	387.5
70°	341.3	336.4	327.6	325.4	324.8
72.5°	278.1	273.7	265.5	263.3	263.3
75°	216.6	212.7	205.6	203.4	203.4
77.5°	158.3	155.0	149.5	146.8	146.8
80°	105.5	103.3	98.4	96.2	95.6
82.5°	61.0	59.9	55.5	53.3	54.4
85°	28.0	26.9	24.7	22.0	22.5
87.5°	7.1	6.6	4.9	3.8	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)