

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: P973379

Luminaire Tested: FLR2-14-42-L835-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973379
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-CP187
Description: 1*4 FLR-2.0 4200 LUMEN at 3500 CCT & 80CRI with Clear Polycarbonate (0.187" thickness)

Light Source:
Ballast/Driver: -

Summary

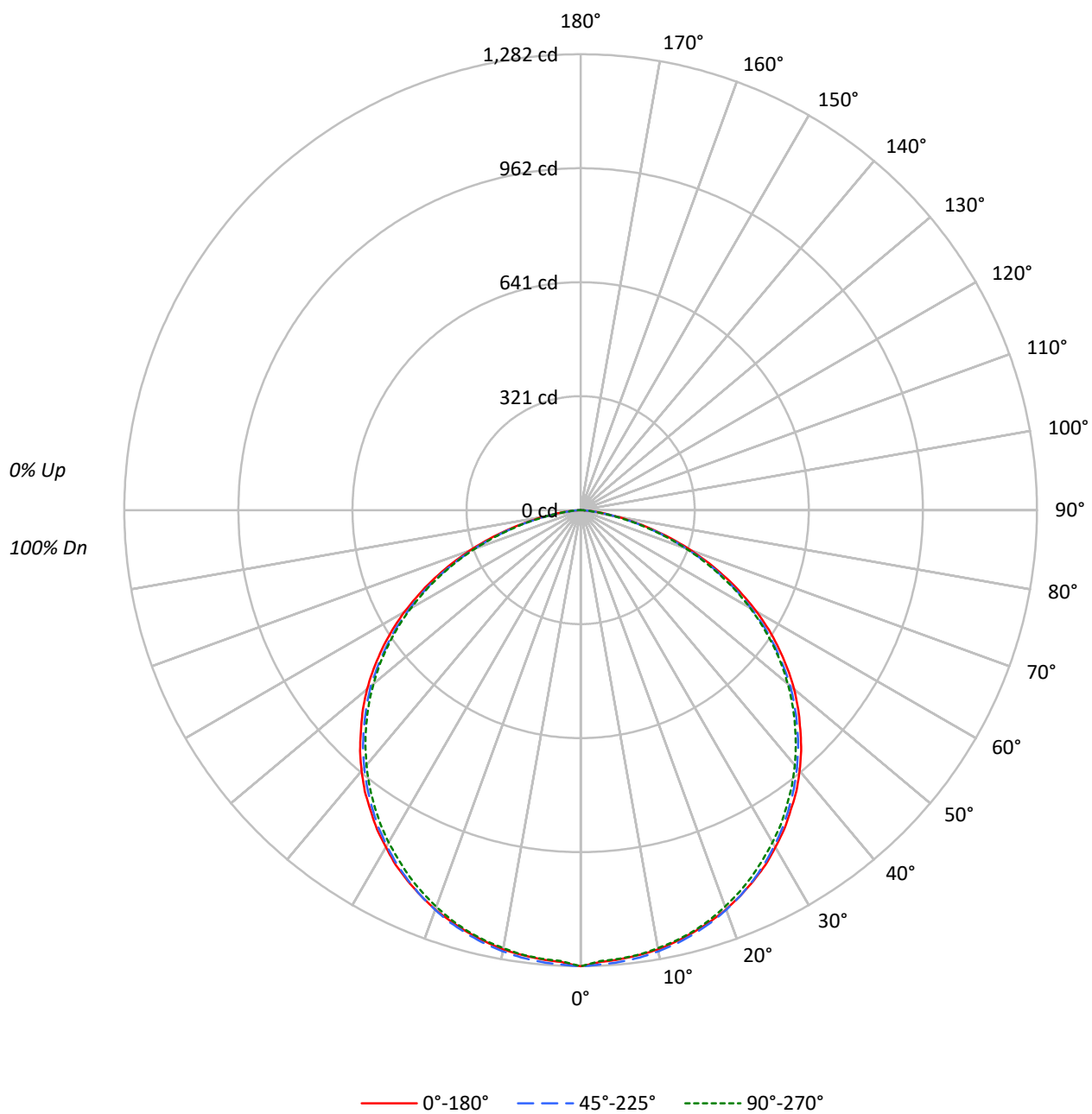
Lumens per Lamp: N/A
Luminaire Lumens: 3589.6 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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°	3451	3451	3451
5°	3424	3444	3420
10°	3428	3442	3418
15°	3422	3435	3415
20°	3422	3425	3397
25°	3414	3408	3376
30°	3400	3385	3352
35°	3381	3355	3322
40°	3362	3321	3288
45°	3321	3275	3240
50°	3278	3218	3180
55°	3195	3120	3091
60°	3071	2985	2960
65°	2876	2792	2762
70°	2594	2489	2468
75°	2175	2064	2042
80°	1579	1472	1432
85°	837	738	673

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3321 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	3.4
10°-20°	348.9	9.7
20°-30°	530.0	14.8
30°-40°	641.1	17.9
40°-50°	666.3	18.6
50°-60°	596.6	16.6
60°-70°	435.1	12.1
70°-80°	214.3	6.0
80°-90°	35.8	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°	1000.3	27.9
0°-40°	1641.5	45.7
0°-60°	2904.4	80.9
0°-90°	3589.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3589.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1282	1282	1282	1282	1282	
5°	1268	1282	1275	1287	1266	121
15°	1228	1240	1233	1244	1226	347
25°	1150	1156	1148	1153	1137	530
35°	1029	1031	1021	1026	1011	645
45°	873	872	860	862	852	674
55°	681	675	665	664	659	608
65°	452	446	438	435	434	446
75°	209	205	198	196	196	223
85°	27	26	24	21	22	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1282.5	1282.5	1282.5	1282.5	1282.5
2.5°	1271.4	1285.7	1278.8	1291.5	1268.7
5°	1267.7	1281.5	1275.1	1287.3	1266.1
7.5°	1261.3	1275.6	1268.7	1280.4	1260.2
10°	1254.4	1267.1	1259.7	1271.4	1250.7
12.5°	1242.2	1254.9	1248.0	1258.6	1239.5
15°	1228.4	1239.5	1233.1	1243.8	1225.7
17.5°	1212.4	1223.1	1216.2	1225.7	1207.7
20°	1194.9	1203.4	1196.0	1203.9	1186.4
22.5°	1173.2	1181.1	1173.2	1178.5	1163.1
25°	1149.8	1155.6	1147.7	1153.0	1137.1
27.5°	1124.9	1128.0	1120.1	1124.3	1107.9
30°	1094.1	1097.8	1089.3	1094.6	1078.7
32.5°	1064.3	1066.5	1056.9	1061.2	1046.8
35°	1029.3	1031.4	1021.3	1025.6	1011.3
37.5°	995.9	995.3	984.7	987.4	975.2
40°	957.1	956.6	945.4	947.6	935.9
42.5°	917.3	915.2	904.6	905.6	895.0
45°	872.7	871.6	860.5	862.1	851.5
47.5°	829.7	826.5	815.4	815.9	806.9
50°	783.0	778.2	768.7	767.6	759.6
52.5°	733.1	727.8	717.2	716.1	710.3
55°	681.1	675.2	665.1	663.6	658.8
57.5°	627.5	620.0	612.1	608.9	605.2
60°	570.7	563.8	554.7	551.5	550.0
62.5°	511.7	504.8	497.9	494.7	492.6
65°	451.7	446.4	438.5	435.3	433.7
67.5°	390.7	385.9	378.5	374.8	374.2
70°	329.7	324.9	316.4	314.3	313.7
72.5°	268.6	264.4	256.4	254.3	254.3
75°	209.2	205.4	198.5	196.4	196.4
77.5°	152.9	149.7	144.4	141.7	141.7
80°	101.9	99.8	95.0	92.9	92.4
82.5°	58.9	57.9	53.6	51.5	52.6
85°	27.1	26.0	23.9	21.2	21.8
87.5°	6.9	6.4	4.8	3.7	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)