

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: P973493

Luminaire Tested: FLR2-14-42-L950-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973493
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-L950-CA080
Description: 1*4 FLR-2.0 4200 LUMEN at 5000 CCT & 90CRI with Clear Acrylic (0.080" thickness)

Light Source:
Ballast/Driver: -

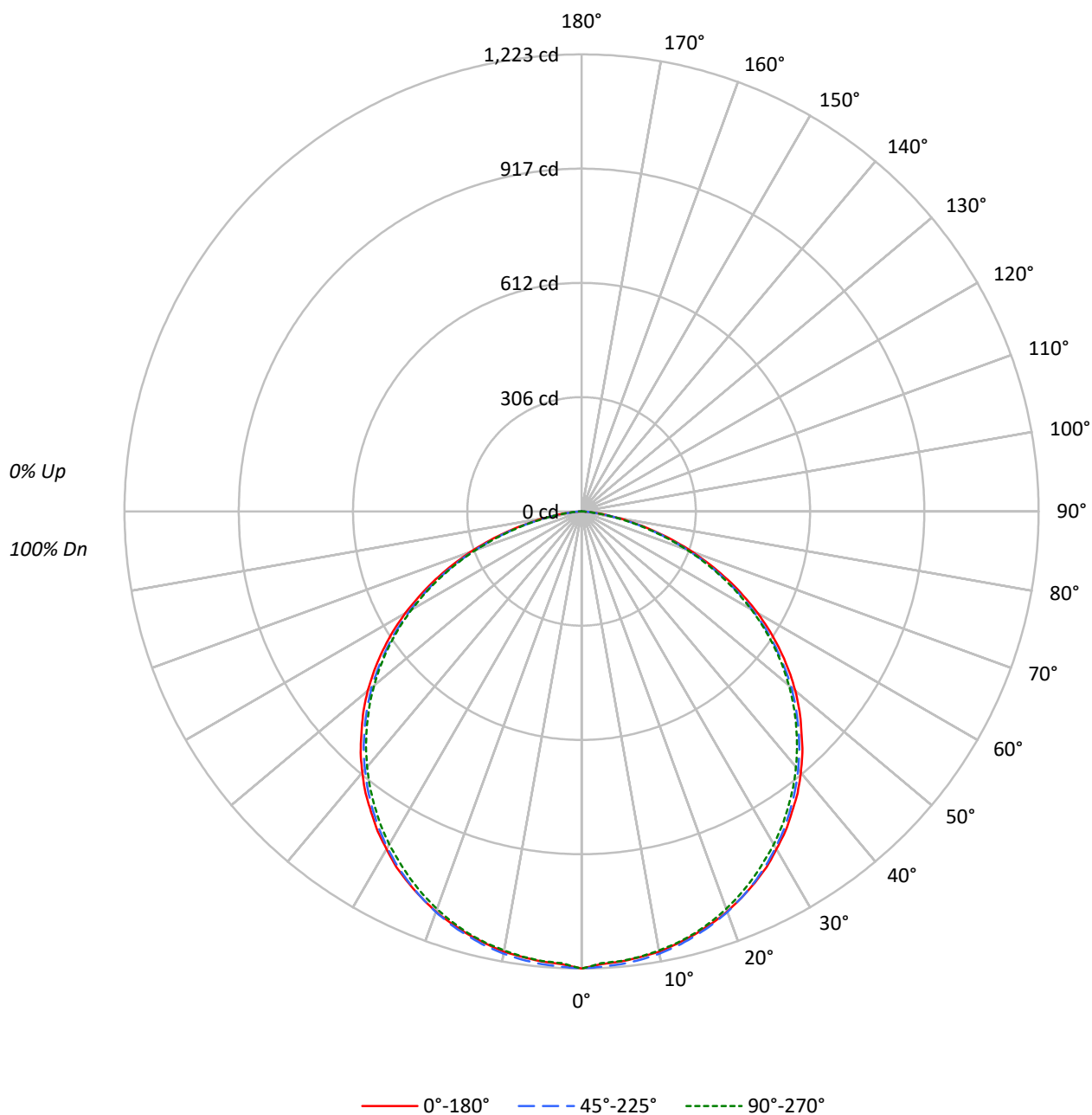
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3423.6 lumens
Efficiency: N/A
Efficacy: 108.0 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		100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71		71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60		60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		39
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		27
10	53	40	32	27	52	39	32	27	38	32	27	38	31	27	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3292	3292	3292
5°	3266	3285	3262
10°	3269	3283	3259
15°	3264	3277	3257
20°	3264	3267	3241
25°	3256	3250	3220
30°	3242	3228	3197
35°	3225	3200	3168
40°	3207	3168	3136
45°	3167	3123	3091
50°	3126	3069	3033
55°	3048	2976	2948
60°	2929	2848	2823
65°	2744	2663	2634
70°	2474	2375	2354
75°	2074	1969	1947
80°	1506	1404	1365
85°	797	704	642

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3167 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	3.4
10°-20°	332.7	9.7
20°-30°	505.5	14.8
30°-40°	611.5	17.9
40°-50°	635.5	18.6
50°-60°	569.0	16.6
60°-70°	415.0	12.1
70°-80°	204.4	6.0
80°-90°	34.2	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°	954.1	27.9
0°-40°	1565.6	45.7
0°-60°	2770.0	80.9
0°-90°	3423.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3423.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1223	1223	1223	1223	1223	
5°	1209	1222	1216	1228	1208	115
15°	1172	1182	1176	1186	1169	331
25°	1097	1102	1095	1100	1084	506
35°	982	984	974	978	964	615
45°	832	831	821	822	812	643
55°	650	644	634	633	628	580
65°	431	426	418	415	414	426
75°	200	196	189	187	187	213
85°	26	25	23	20	21	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1223.2	1223.2	1223.2	1223.2	1223.2
2.5°	1212.6	1226.2	1219.7	1231.8	1210.0
5°	1209.0	1222.2	1216.1	1227.8	1207.5
7.5°	1203.0	1216.6	1210.0	1221.2	1201.9
10°	1196.4	1208.5	1201.4	1212.6	1192.8
12.5°	1184.7	1196.9	1190.3	1200.4	1182.2
15°	1171.6	1182.2	1176.1	1186.2	1169.0
17.5°	1156.4	1166.5	1159.9	1169.0	1151.8
20°	1139.7	1147.8	1140.7	1148.3	1131.6
22.5°	1118.9	1126.5	1118.9	1124.0	1109.3
25°	1096.6	1102.2	1094.6	1099.7	1084.5
27.5°	1072.8	1075.9	1068.3	1072.3	1056.6
30°	1043.5	1047.0	1038.9	1044.0	1028.8
32.5°	1015.1	1017.1	1008.0	1012.1	998.4
35°	981.7	983.7	974.1	978.2	964.5
37.5°	949.8	949.3	939.2	941.7	930.1
40°	912.8	912.3	901.7	903.7	892.6
42.5°	874.9	872.8	862.7	863.7	853.6
45°	832.3	831.3	820.7	822.2	812.1
47.5°	791.3	788.3	777.7	778.2	769.6
50°	746.8	742.2	733.1	732.1	724.5
52.5°	699.2	694.1	684.0	683.0	677.4
55°	649.6	644.0	634.4	632.9	628.3
57.5°	598.4	591.4	583.8	580.7	577.2
60°	544.3	537.7	529.1	526.0	524.5
62.5°	488.1	481.5	474.9	471.9	469.8
65°	430.9	425.8	418.2	415.2	413.6
67.5°	372.6	368.1	361.0	357.4	356.9
70°	314.4	309.9	301.8	299.7	299.2
72.5°	256.2	252.1	244.5	242.5	242.5
75°	199.5	195.9	189.4	187.3	187.3
77.5°	145.8	142.8	137.7	135.2	135.2
80°	97.2	95.2	90.6	88.6	88.1
82.5°	56.2	55.2	51.1	49.1	50.1
85°	25.8	24.8	22.8	20.3	20.8
87.5°	6.6	6.1	4.6	3.5	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)