

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: P973353

Luminaire Tested: FLR2-14-20-L930-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973353
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: FLR2-14-20-L930-CP125
Description: 1*4 FLR-2.0 2000 LUMEN at 3000CCT & 80CRI with Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

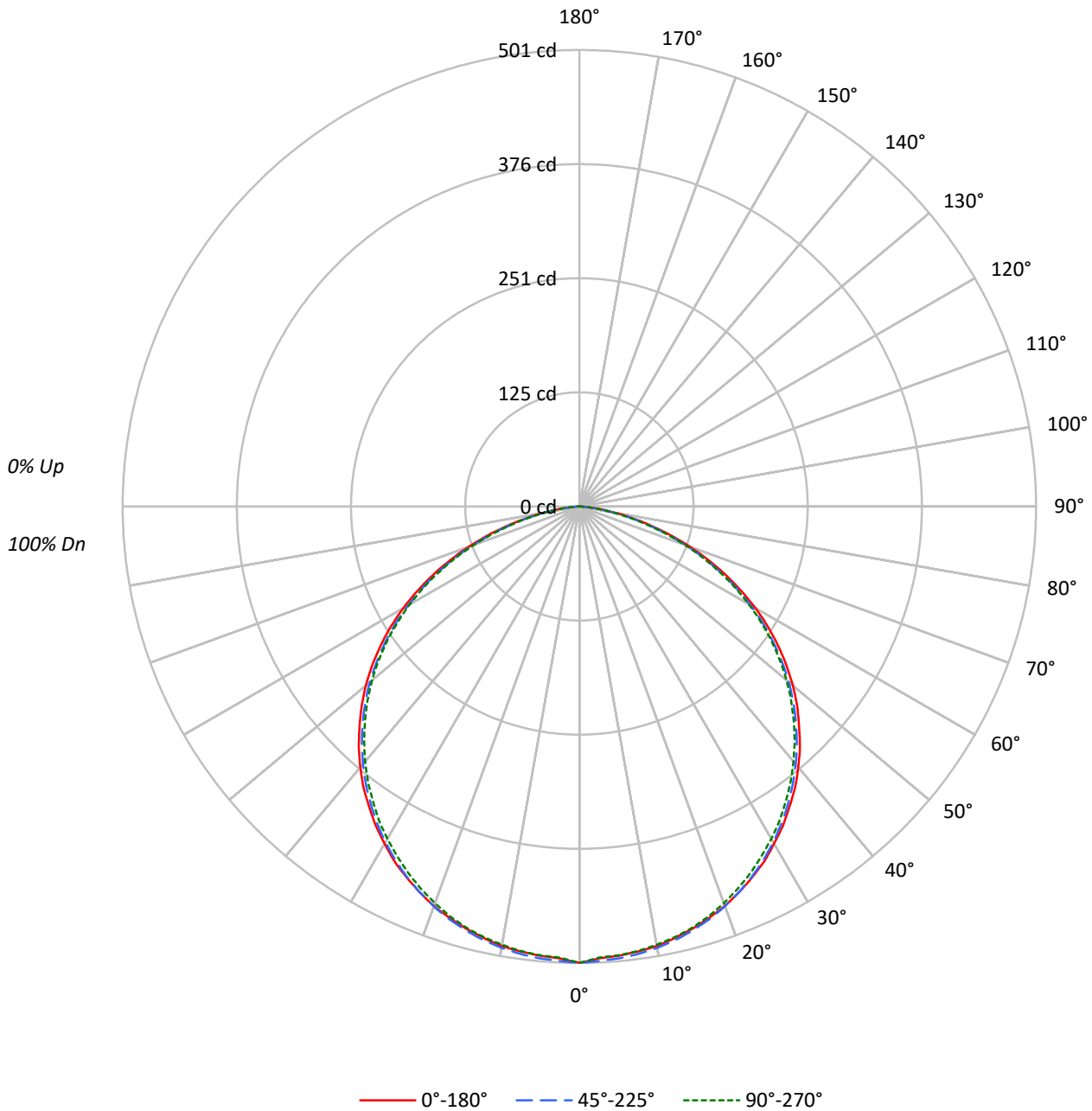
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1401.8 lumens
Efficiency: N/A
Efficacy: 85.5 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): 16.4
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	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						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°	1348	1348	1348
5°	1337	1345	1336
10°	1339	1344	1335
15°	1336	1342	1334
20°	1336	1338	1327
25°	1333	1331	1318
30°	1328	1322	1309
35°	1321	1310	1297
40°	1313	1297	1284
45°	1297	1279	1265
50°	1280	1257	1242
55°	1248	1219	1207
60°	1200	1166	1156
65°	1123	1090	1079
70°	1013	972	964
75°	849	806	797
80°	617	575	559
85°	327	287	262

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1297 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	3.4
10°-20°	136.2	9.7
20°-30°	207.0	14.8
30°-40°	250.4	17.9
40°-50°	260.2	18.6
50°-60°	233.0	16.6
60°-70°	169.9	12.1
70°-80°	83.7	6.0
80°-90°	14.0	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°	390.7	27.9
0°-40°	641.0	45.7
0°-60°	1134.2	80.9
0°-90°	1401.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1401.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	501	501	501	501	501	
5°	495	500	498	503	494	47
15°	480	484	482	486	479	135
25°	449	451	448	450	444	207
35°	402	403	399	400	395	252
45°	341	340	336	337	332	263
55°	266	264	260	259	257	237
65°	176	174	171	170	169	174
75°	82	80	78	77	77	87
85°	11	10	9	8	8	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	500.9	500.9	500.9	500.9	500.9
2.5°	496.5	502.1	499.4	504.4	495.5
5°	495.0	500.4	497.9	502.7	494.4
7.5°	492.6	498.2	495.5	500.0	492.1
10°	489.9	494.8	491.9	496.5	488.4
12.5°	485.1	490.1	487.4	491.5	484.1
15°	479.7	484.1	481.6	485.7	478.7
17.5°	473.5	477.6	474.9	478.7	471.6
20°	466.6	470.0	467.1	470.2	463.3
22.5°	458.1	461.3	458.1	460.2	454.2
25°	449.0	451.3	448.2	450.3	444.0
27.5°	439.3	440.5	437.4	439.1	432.6
30°	427.3	428.7	425.4	427.5	421.2
32.5°	415.6	416.5	412.7	414.4	408.8
35°	402.0	402.8	398.9	400.5	394.9
37.5°	388.9	388.7	384.6	385.6	380.8
40°	373.8	373.6	369.2	370.0	365.5
42.5°	358.2	357.4	353.2	353.7	349.5
45°	340.8	340.4	336.0	336.7	332.5
47.5°	324.0	322.8	318.4	318.6	315.1
50°	305.8	303.9	300.2	299.8	296.7
52.5°	286.3	284.2	280.1	279.7	277.4
55°	266.0	263.7	259.8	259.1	257.3
57.5°	245.0	242.1	239.0	237.8	236.3
60°	222.9	220.2	216.6	215.4	214.8
62.5°	199.8	197.1	194.5	193.2	192.4
65°	176.4	174.3	171.2	170.0	169.4
67.5°	152.6	150.7	147.8	146.4	146.2
70°	128.7	126.9	123.6	122.7	122.5
72.5°	104.9	103.2	100.1	99.3	99.3
75°	81.7	80.2	77.5	76.7	76.7
77.5°	59.7	58.5	56.4	55.4	55.4
80°	39.8	39.0	37.1	36.3	36.1
82.5°	23.0	22.6	20.9	20.1	20.5
85°	10.6	10.2	9.3	8.3	8.5
87.5°	2.7	2.5	1.9	1.5	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)