

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: P973395

Luminaire Tested: FLR2-14-20-L935-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973395
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-L935-CP125
Description: 1*4 FLR-2.0 2000 LUMEN at 3500 CCT & 90 CRI with Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

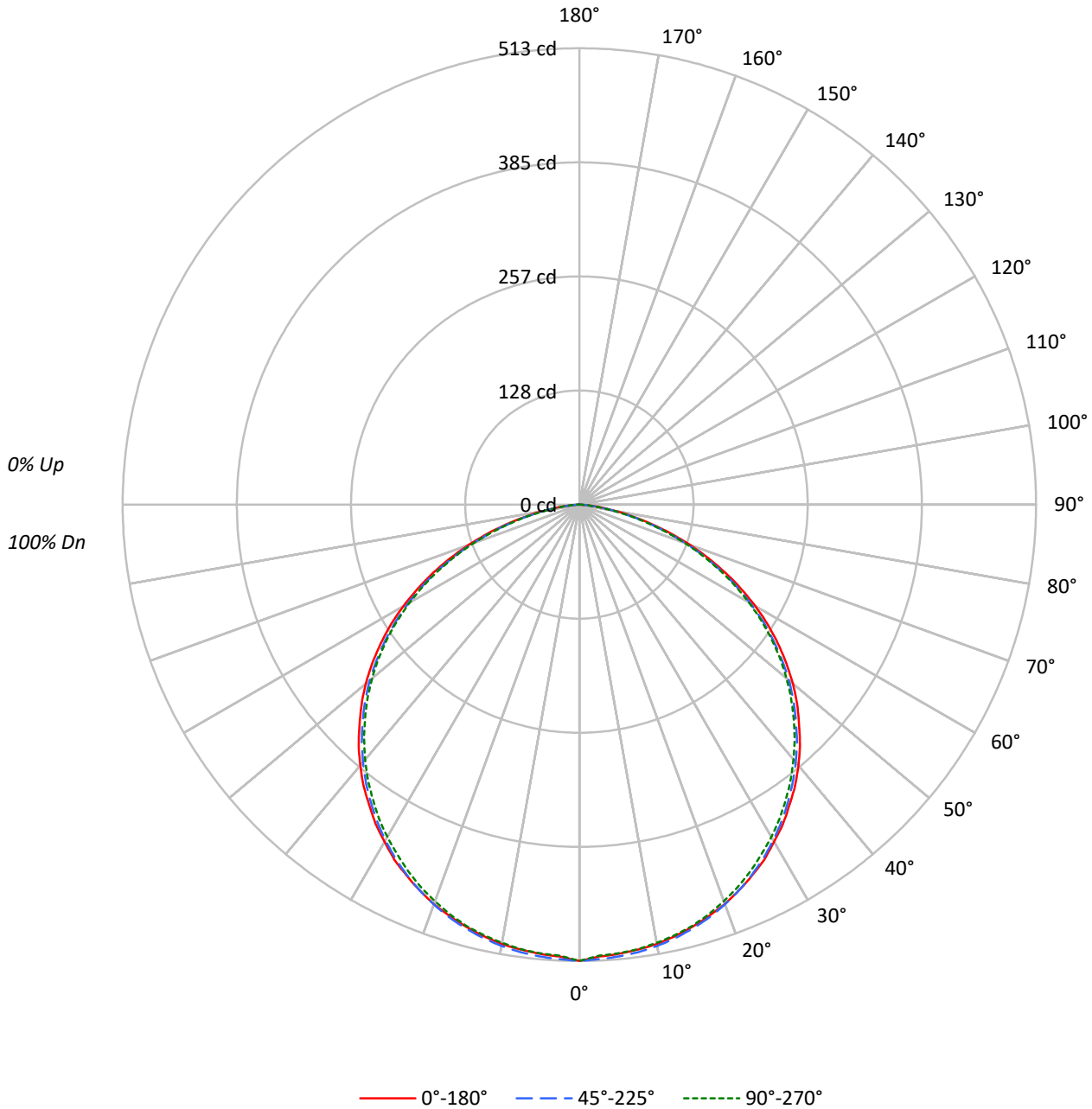
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1435.6 lumens
Efficiency: N/A
Efficacy: 87.5 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				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°	1380	1380	1380
5°	1370	1377	1368
10°	1371	1377	1367
15°	1369	1374	1366
20°	1369	1370	1359
25°	1365	1363	1350
30°	1360	1354	1340
35°	1352	1342	1328
40°	1345	1328	1315
45°	1328	1310	1296
50°	1311	1287	1272
55°	1278	1248	1236
60°	1228	1194	1183
65°	1151	1117	1105
70°	1037	995	987
75°	869	826	817
80°	632	589	572
85°	333	296	269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1328 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	3.4
10°-20°	139.5	9.7
20°-30°	212.0	14.8
30°-40°	256.4	17.9
40°-50°	266.5	18.6
50°-60°	238.6	16.6
60°-70°	174.0	12.1
70°-80°	85.7	6.0
80°-90°	14.3	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°	400.1	27.9
0°-40°	656.5	45.7
0°-60°	1161.6	80.9
0°-90°	1435.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1435.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	513	513	513	513	513	
5°	507	512	510	515	506	48
15°	491	496	493	497	490	139
25°	460	462	459	461	455	212
35°	412	412	408	410	404	258
45°	349	349	344	345	340	269
55°	272	270	266	265	264	243
65°	181	178	175	174	174	178
75°	84	82	79	79	79	89
85°	11	10	10	8	9	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	512.9	512.9	512.9	512.9	512.9
2.5°	508.5	514.2	511.4	516.5	507.4
5°	507.0	512.5	509.9	514.8	506.3
7.5°	504.4	510.2	507.4	512.1	504.0
10°	501.7	506.8	503.8	508.5	500.2
12.5°	496.8	501.9	499.1	503.4	495.7
15°	491.3	495.7	493.2	497.4	490.2
17.5°	484.9	489.1	486.4	490.2	483.0
20°	477.9	481.3	478.3	481.5	474.5
22.5°	469.2	472.4	469.2	471.3	465.2
25°	459.8	462.2	459.0	461.1	454.7
27.5°	449.9	451.1	448.0	449.7	443.1
30°	437.6	439.0	435.6	437.8	431.4
32.5°	425.7	426.5	422.7	424.4	418.7
35°	411.7	412.5	408.5	410.2	404.4
37.5°	398.3	398.1	393.8	394.9	390.0
40°	382.8	382.6	378.1	379.0	374.3
42.5°	366.9	366.0	361.8	362.2	357.9
45°	349.0	348.6	344.1	344.8	340.5
47.5°	331.8	330.6	326.1	326.3	322.7
50°	313.1	311.2	307.4	307.0	303.8
52.5°	293.2	291.1	286.8	286.4	284.1
55°	272.4	270.0	266.0	265.4	263.5
57.5°	250.9	248.0	244.8	243.5	242.0
60°	228.2	225.5	221.9	220.6	219.9
62.5°	204.7	201.9	199.1	197.9	197.0
65°	180.7	178.5	175.4	174.1	173.5
67.5°	156.3	154.3	151.4	149.9	149.7
70°	131.8	129.9	126.5	125.7	125.5
72.5°	107.4	105.7	102.5	101.7	101.7
75°	83.6	82.2	79.4	78.6	78.6
77.5°	61.1	59.9	57.7	56.7	56.7
80°	40.8	39.9	38.0	37.2	36.9
82.5°	23.6	23.1	21.4	20.6	21.0
85°	10.8	10.4	9.6	8.5	8.7
87.5°	2.8	2.5	1.9	1.5	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)