

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: P973410

Luminaire Tested: FLR2-14-20-L935-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973410
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-CA125
Description: 1*4 FLR-2.0 2000 LUMEN at 3500 CCT & 90 CRI with Clear Acrylic (0.125" thickness)

Light Source:
Ballast/Driver: -

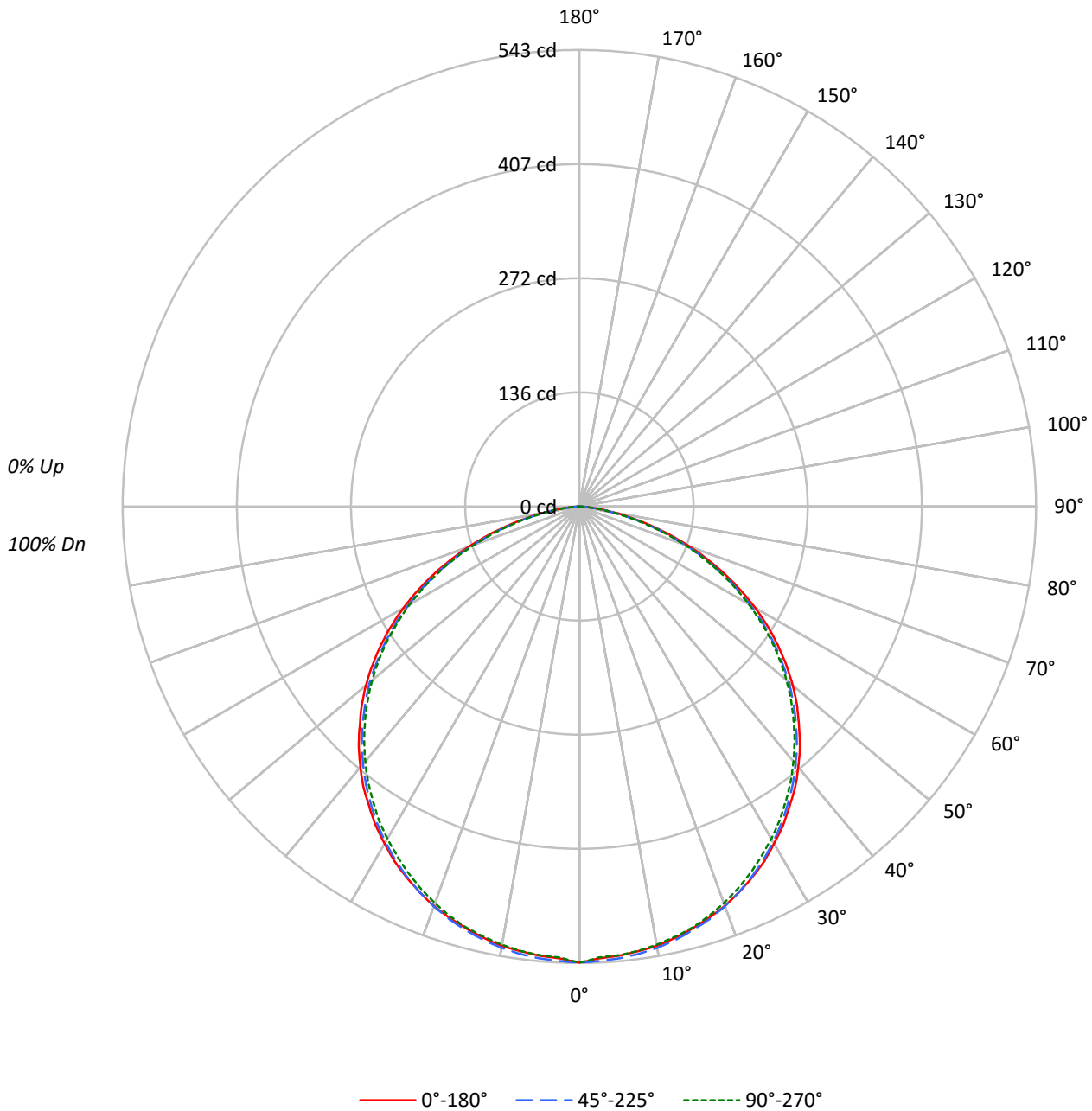
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1519.0 lumens
Efficiency: N/A
Efficacy: 92.6 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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	1460	1460	1460
5°	1449	1458	1447
10°	1450	1457	1446
15°	1448	1454	1445
20°	1448	1449	1438
25°	1445	1442	1429
30°	1439	1432	1418
35°	1431	1420	1406
40°	1423	1405	1391
45°	1405	1386	1371
50°	1387	1362	1346
55°	1352	1321	1308
60°	1300	1263	1252
65°	1217	1182	1168
70°	1098	1054	1045
75°	920	873	864
80°	668	623	606
85°	355	312	284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1405 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	3.4
10°-20°	147.6	9.7
20°-30°	224.3	14.8
30°-40°	271.3	17.9
40°-50°	282.0	18.6
50°-60°	252.5	16.6
60°-70°	184.1	12.1
70°-80°	90.7	6.0
80°-90°	15.2	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°	423.3	27.9
0°-40°	694.6	45.7
0°-60°	1229.1	80.9
0°-90°	1519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1519.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	543	543	543	543	543	
5°	536	542	540	545	536	51
15°	520	524	522	526	519	147
25°	487	489	486	488	481	224
35°	436	436	432	434	428	273
45°	369	369	364	365	360	285
55°	288	286	282	281	279	257
65°	191	189	186	184	184	189
75°	88	87	84	83	83	94
85°	12	11	10	9	9	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	542.7	542.7	542.7	542.7	542.7
2.5°	538.0	544.1	541.2	546.6	536.9
5°	536.4	542.3	539.6	544.8	535.8
7.5°	533.7	539.8	536.9	541.8	533.3
10°	530.8	536.2	533.1	538.0	529.3
12.5°	525.7	531.0	528.1	532.6	524.5
15°	519.8	524.5	521.8	526.3	518.7
17.5°	513.1	517.6	514.7	518.7	511.1
20°	505.7	509.3	506.1	509.5	502.1
22.5°	496.5	499.8	496.5	498.7	492.2
25°	486.6	489.0	485.7	487.9	481.2
27.5°	476.0	477.4	474.0	475.8	468.8
30°	463.0	464.6	461.0	463.2	456.5
32.5°	450.4	451.3	447.3	449.1	443.0
35°	435.6	436.5	432.2	434.0	427.9
37.5°	421.4	421.2	416.7	417.8	412.7
40°	405.0	404.8	400.1	401.0	396.0
42.5°	388.2	387.3	382.8	383.2	378.7
45°	369.3	368.9	364.1	364.8	360.3
47.5°	351.1	349.8	345.0	345.3	341.5
50°	331.3	329.3	325.3	324.8	321.5
52.5°	310.2	308.0	303.5	303.0	300.6
55°	288.2	285.7	281.5	280.8	278.8
57.5°	265.5	262.4	259.0	257.7	256.1
60°	241.5	238.6	234.7	233.4	232.7
62.5°	216.6	213.6	210.7	209.4	208.5
65°	191.2	188.9	185.6	184.2	183.5
67.5°	165.3	163.3	160.2	158.6	158.4
70°	139.5	137.5	133.9	133.0	132.8
72.5°	113.7	111.9	108.5	107.6	107.6
75°	88.5	86.9	84.0	83.1	83.1
77.5°	64.7	63.3	61.1	60.0	60.0
80°	43.1	42.2	40.2	39.3	39.1
82.5°	24.9	24.5	22.7	21.8	22.2
85°	11.5	11.0	10.1	9.0	9.2
87.5°	2.9	2.7	2.0	1.6	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)