

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: P973392

Luminaire Tested: FLR2-14-20-L935-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973392
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-CP080
Description: 1*4 FLR-2.0 2000 LUMEN at 3500 CCT & 90 CRI with Clear Polycarbonate (0.080" thickness)

Light Source:
Ballast/Driver: -

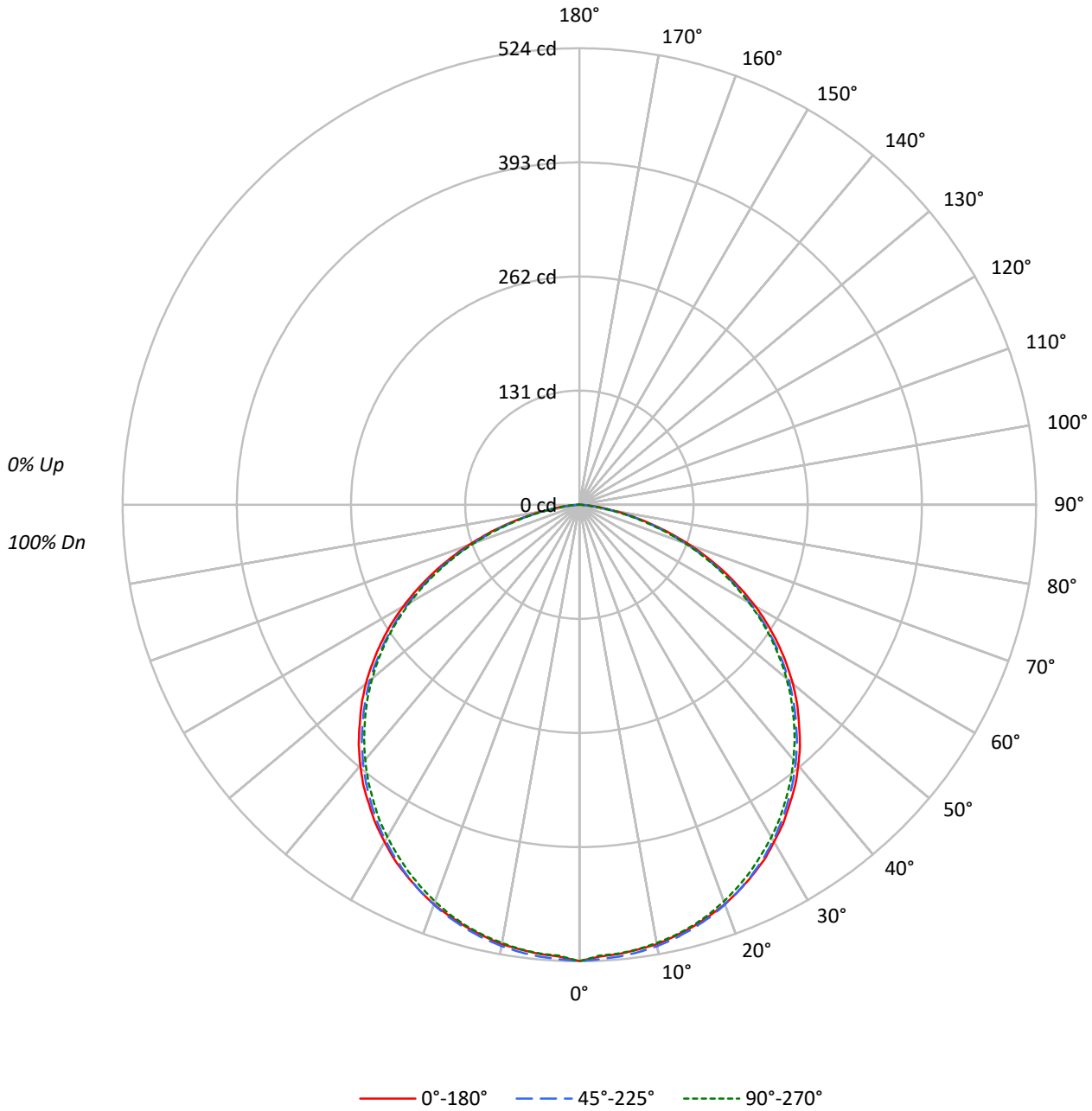
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1466.1 lumens
Efficiency: N/A
Efficacy: 89.4 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									70									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																				
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°	1410	1410	1410
5°	1399	1407	1397
10°	1400	1406	1396
15°	1398	1403	1395
20°	1397	1399	1388
25°	1394	1392	1379
30°	1389	1382	1369
35°	1381	1370	1357
40°	1373	1356	1343
45°	1356	1338	1324
50°	1339	1314	1299
55°	1305	1275	1263
60°	1255	1220	1209
65°	1175	1140	1128
70°	1059	1017	1008
75°	888	843	834
80°	645	601	584
85°	343	303	275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1356 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	3.4
10°-20°	142.5	9.7
20°-30°	216.5	14.8
30°-40°	261.9	17.9
40°-50°	272.1	18.6
50°-60°	243.7	16.6
60°-70°	177.7	12.1
70°-80°	87.5	6.0
80°-90°	14.6	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°	408.6	27.9
0°-40°	670.4	45.7
0°-60°	1186.2	80.9
0°-90°	1466.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1466.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	524	524	524	524	524	
5°	518	523	521	526	517	49
15°	502	506	504	508	501	142
25°	470	472	469	471	464	216
35°	420	421	417	419	413	263
45°	356	356	352	352	348	275
55°	278	276	272	271	269	248
65°	184	182	179	178	177	182
75°	85	84	81	80	80	91
85°	11	11	10	9	9	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	523.8	523.8	523.8	523.8	523.8
2.5°	519.3	525.1	522.3	527.5	518.2
5°	517.8	523.4	520.8	525.8	517.1
7.5°	515.1	521.0	518.2	523.0	514.7
10°	512.3	517.5	514.5	519.3	510.8
12.5°	507.3	512.5	509.7	514.1	506.3
15°	501.7	506.3	503.7	508.0	500.6
17.5°	495.2	499.5	496.7	500.6	493.3
20°	488.0	491.5	488.5	491.7	484.6
22.5°	479.2	482.4	479.2	481.3	475.0
25°	469.6	472.0	468.8	470.9	464.4
27.5°	459.4	460.7	457.5	459.2	452.5
30°	446.9	448.4	444.9	447.1	440.6
32.5°	434.7	435.6	431.7	433.4	427.6
35°	420.4	421.3	417.1	418.9	413.0
37.5°	406.7	406.5	402.2	403.3	398.3
40°	390.9	390.7	386.1	387.0	382.2
42.5°	374.7	373.8	369.5	369.9	365.5
45°	356.4	356.0	351.5	352.1	347.8
47.5°	338.9	337.6	333.0	333.2	329.6
50°	319.8	317.8	313.9	313.5	310.3
52.5°	299.4	297.3	292.9	292.5	290.1
55°	278.2	275.8	271.7	271.0	269.1
57.5°	256.3	253.2	250.0	248.7	247.2
60°	233.1	230.3	226.6	225.3	224.6
62.5°	209.0	206.2	203.4	202.1	201.2
65°	184.5	182.3	179.1	177.8	177.1
67.5°	159.6	157.6	154.6	153.1	152.9
70°	134.6	132.7	129.2	128.4	128.1
72.5°	109.7	108.0	104.7	103.9	103.9
75°	85.4	83.9	81.1	80.2	80.2
77.5°	62.4	61.1	59.0	57.9	57.9
80°	41.6	40.8	38.8	37.9	37.7
82.5°	24.1	23.6	21.9	21.0	21.5
85°	11.1	10.6	9.8	8.7	8.9
87.5°	2.8	2.6	2.0	1.5	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)