

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: P973339

Luminaire Tested: FLR2-14-30-L830-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973339
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: FLR2-14-30-L830-CP250
Description: 1*4 FLR-2.0 3000 LUMEN at 3000CCT & 80CRI Clear Polycarbonate (0.250" thickness)

Light Source: 3000k CCT, 80 CRI LEDS
Ballast/Driver: -

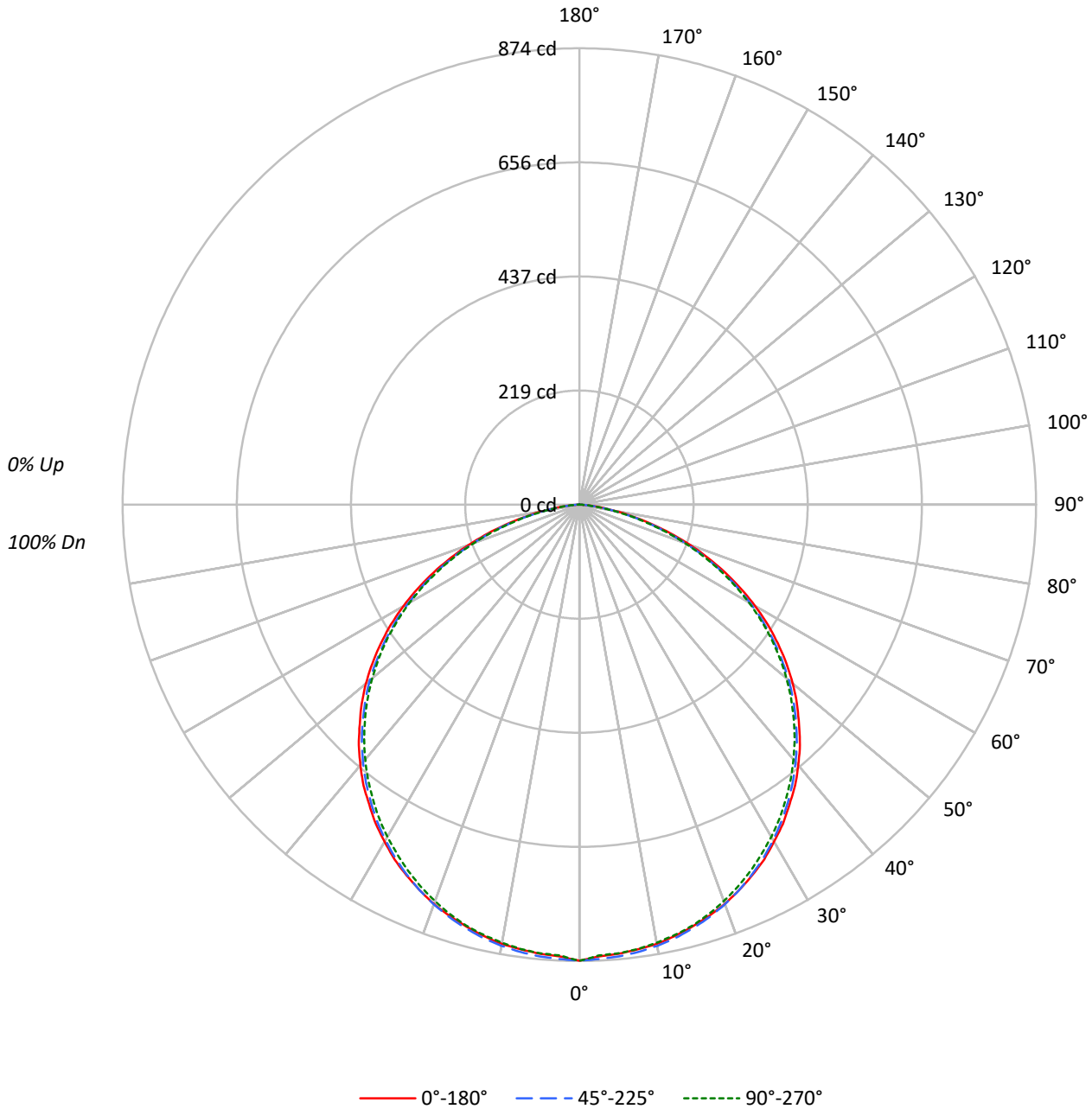
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2445.0 lumens
Efficiency: N/A
Efficacy: 102.3 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): 23.9
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	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°	2351	2351	2351
5°	2333	2346	2330
10°	2335	2344	2328
15°	2331	2340	2326
20°	2331	2333	2314
25°	2325	2321	2300
30°	2316	2306	2283
35°	2303	2285	2263
40°	2290	2262	2239
45°	2262	2230	2207
50°	2233	2192	2166
55°	2176	2126	2105
60°	2092	2034	2016
65°	1959	1902	1881
70°	1766	1696	1681
75°	1482	1406	1391
80°	1075	1003	975
85°	568	503	457

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2262 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	3.4
10°-20°	237.6	9.7
20°-30°	361.0	14.8
30°-40°	436.7	17.9
40°-50°	453.9	18.6
50°-60°	406.4	16.6
60°-70°	296.4	12.1
70°-80°	145.9	6.0
80°-90°	24.4	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°	681.4	27.9
0°-40°	1118.1	45.7
0°-60°	1978.3	80.9
0°-90°	2445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2445.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	874	874	874	874	874	
5°	864	873	868	877	862	82
15°	837	844	840	847	835	236
25°	783	787	782	785	774	361
35°	701	703	696	699	689	439
45°	594	594	586	587	580	459
55°	464	460	453	452	449	414
65°	308	304	299	296	295	304
75°	142	140	135	134	134	152
85°	18	18	16	14	15	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	873.6	873.6	873.6	873.6	873.6
2.5°	866.0	875.7	871.0	879.7	864.2
5°	863.5	872.9	868.5	876.8	862.4
7.5°	859.1	868.9	864.2	872.1	858.4
10°	854.4	863.1	858.0	866.0	851.9
12.5°	846.1	854.8	850.1	857.3	844.3
15°	836.7	844.3	840.0	847.2	834.9
17.5°	825.8	833.1	828.4	834.9	822.6
20°	813.9	819.7	814.6	820.1	808.1
22.5°	799.1	804.5	799.1	802.7	792.2
25°	783.2	787.2	781.7	785.4	774.5
27.5°	766.2	768.4	762.9	765.8	754.6
30°	745.2	747.7	742.0	745.6	734.7
32.5°	725.0	726.4	719.9	722.8	713.0
35°	701.1	702.6	695.7	698.6	688.8
37.5°	678.3	678.0	670.7	672.5	664.2
40°	651.9	651.6	644.0	645.4	637.5
42.5°	624.8	623.4	616.1	616.9	609.6
45°	594.4	593.7	586.1	587.2	580.0
47.5°	565.1	563.0	555.4	555.7	549.6
50°	533.3	530.1	523.6	522.8	517.4
52.5°	499.3	495.7	488.5	487.8	483.8
55°	463.9	459.9	453.1	452.0	448.7
57.5°	427.4	422.3	416.9	414.7	412.2
60°	388.7	384.0	377.9	375.7	374.6
62.5°	348.6	343.9	339.2	337.0	335.5
65°	307.7	304.1	298.7	296.5	295.4
67.5°	266.1	262.9	257.8	255.3	254.9
70°	224.5	221.3	215.5	214.1	213.7
72.5°	183.0	180.1	174.6	173.2	173.2
75°	142.5	139.9	135.2	133.8	133.8
77.5°	104.1	102.0	98.3	96.5	96.5
80°	69.4	68.0	64.7	63.3	62.9
82.5°	40.1	39.4	36.5	35.1	35.8
85°	18.4	17.7	16.3	14.5	14.8
87.5°	4.7	4.3	3.3	2.5	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)