

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: P973330

Luminaire Tested: FLR2-14-30-L830-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973330
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-CP080
Description: 1*4 FLR-2.0 3000 LUMEN at 3000CCT & 80CRI Clear Polycarbonate (0.080" thickness)

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

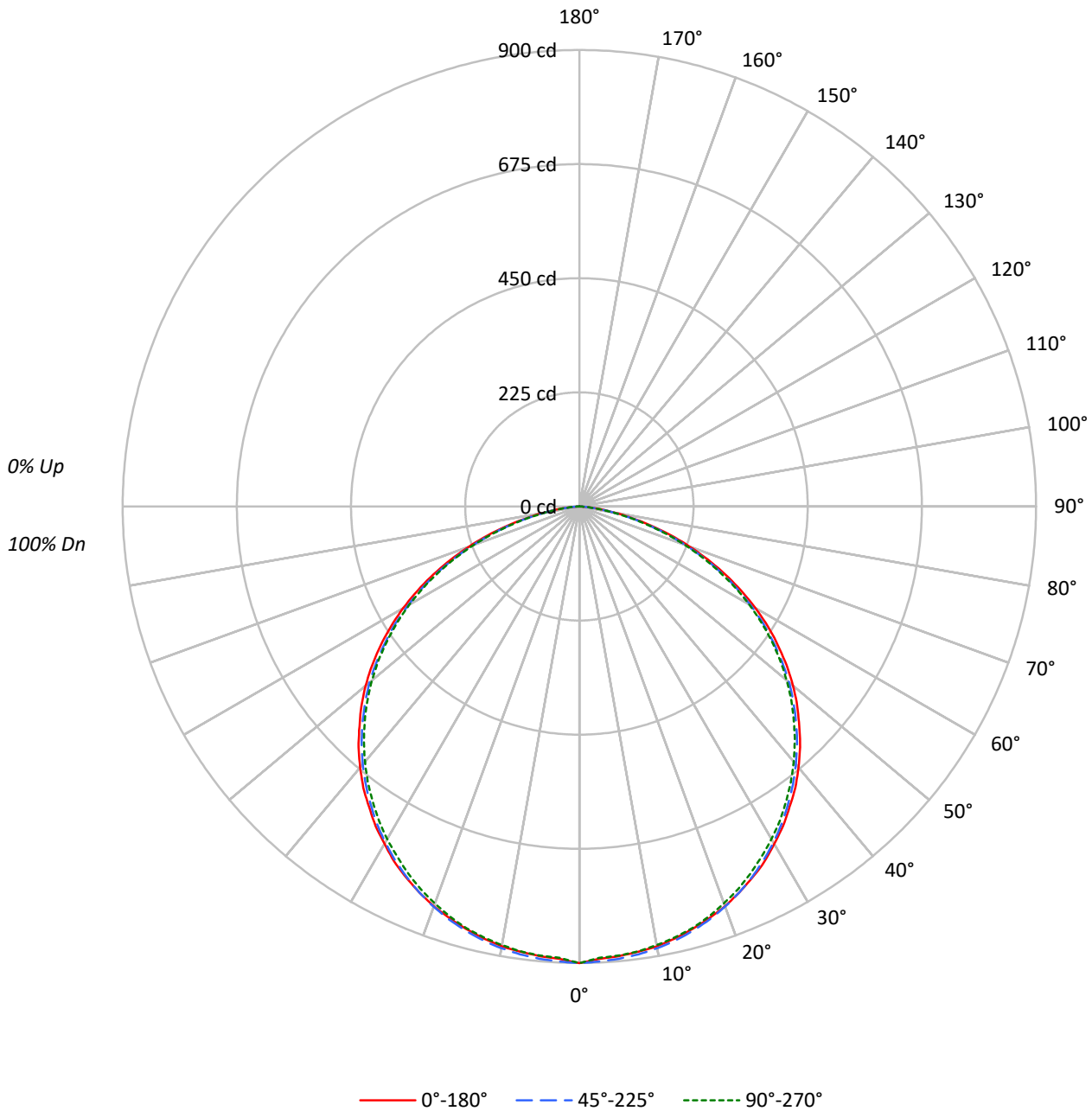
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2520.4 lumens
Efficiency: N/A
Efficacy: 105.5 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): 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				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°	2423	2423	2423
5°	2404	2418	2401
10°	2407	2417	2400
15°	2403	2412	2398
20°	2403	2405	2386
25°	2397	2393	2371
30°	2387	2377	2353
35°	2374	2356	2333
40°	2361	2332	2308
45°	2332	2299	2275
50°	2302	2259	2233
55°	2244	2191	2170
60°	2157	2096	2079
65°	2020	1961	1939
70°	1821	1747	1733
75°	1527	1449	1434
80°	1110	1034	1006
85°	587	519	472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2332 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	3.4
10°-20°	245.0	9.7
20°-30°	372.1	14.8
30°-40°	450.2	17.9
40°-50°	467.9	18.6
50°-60°	418.9	16.6
60°-70°	305.5	12.1
70°-80°	150.4	6.0
80°-90°	25.2	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°	702.4	27.9
0°-40°	1152.6	45.7
0°-60°	2039.3	80.9
0°-90°	2520.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2520.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	900	900	900	900	900	
5°	890	900	895	904	889	85
15°	862	870	866	873	861	244
25°	807	811	806	810	798	372
35°	723	724	717	720	710	453
45°	613	612	604	605	598	473
55°	478	474	467	466	463	427
65°	317	314	308	306	304	313
75°	147	144	139	138	138	157
85°	19	18	17	15	15	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	900.5	900.5	900.5	900.5	900.5
2.5°	892.7	902.8	897.9	906.9	890.8
5°	890.1	899.8	895.3	903.9	889.0
7.5°	885.6	895.7	890.8	899.0	884.9
10°	880.8	889.7	884.5	892.7	878.2
12.5°	872.2	881.1	876.3	883.8	870.3
15°	862.5	870.3	865.9	873.3	860.6
17.5°	851.3	858.8	853.9	860.6	848.0
20°	839.0	845.0	839.8	845.4	833.1
22.5°	823.7	829.3	823.7	827.5	816.7
25°	807.3	811.4	805.9	809.6	798.4
27.5°	789.8	792.1	786.5	789.5	777.9
30°	768.2	770.8	764.9	768.6	757.4
32.5°	747.3	748.8	742.1	745.1	735.0
35°	722.7	724.2	717.1	720.1	710.1
37.5°	699.2	698.9	691.4	693.3	684.7
40°	672.0	671.7	663.8	665.3	657.1
42.5°	644.1	642.6	635.1	635.9	628.4
45°	612.8	612.0	604.2	605.3	597.9
47.5°	582.6	580.3	572.5	572.9	566.6
50°	549.8	546.4	539.7	539.0	533.4
52.5°	514.7	511.0	503.6	502.8	498.7
55°	478.2	474.1	467.0	465.9	462.6
57.5°	440.6	435.4	429.8	427.5	424.9
60°	400.7	395.8	389.5	387.3	386.2
62.5°	359.3	354.5	349.6	347.4	345.9
65°	317.2	313.5	307.9	305.6	304.5
67.5°	274.3	271.0	265.8	263.2	262.8
70°	231.5	228.1	222.1	220.7	220.3
72.5°	188.6	185.6	180.0	178.5	178.5
75°	146.9	144.2	139.4	137.9	137.9
77.5°	107.3	105.1	101.4	99.5	99.5
80°	71.6	70.1	66.7	65.2	64.9
82.5°	41.4	40.6	37.6	36.2	36.9
85°	19.0	18.3	16.8	14.9	15.3
87.5°	4.8	4.5	3.4	2.6	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)