

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: P973336

Luminaire Tested: FLR2-14-30-L830-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973336
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-CP187
Description: 1*4 FLR-2.0 3000 LUMEN at 3000CCT & 80CRI Clear Polycarbonate (0.187" thickness)

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

Summary

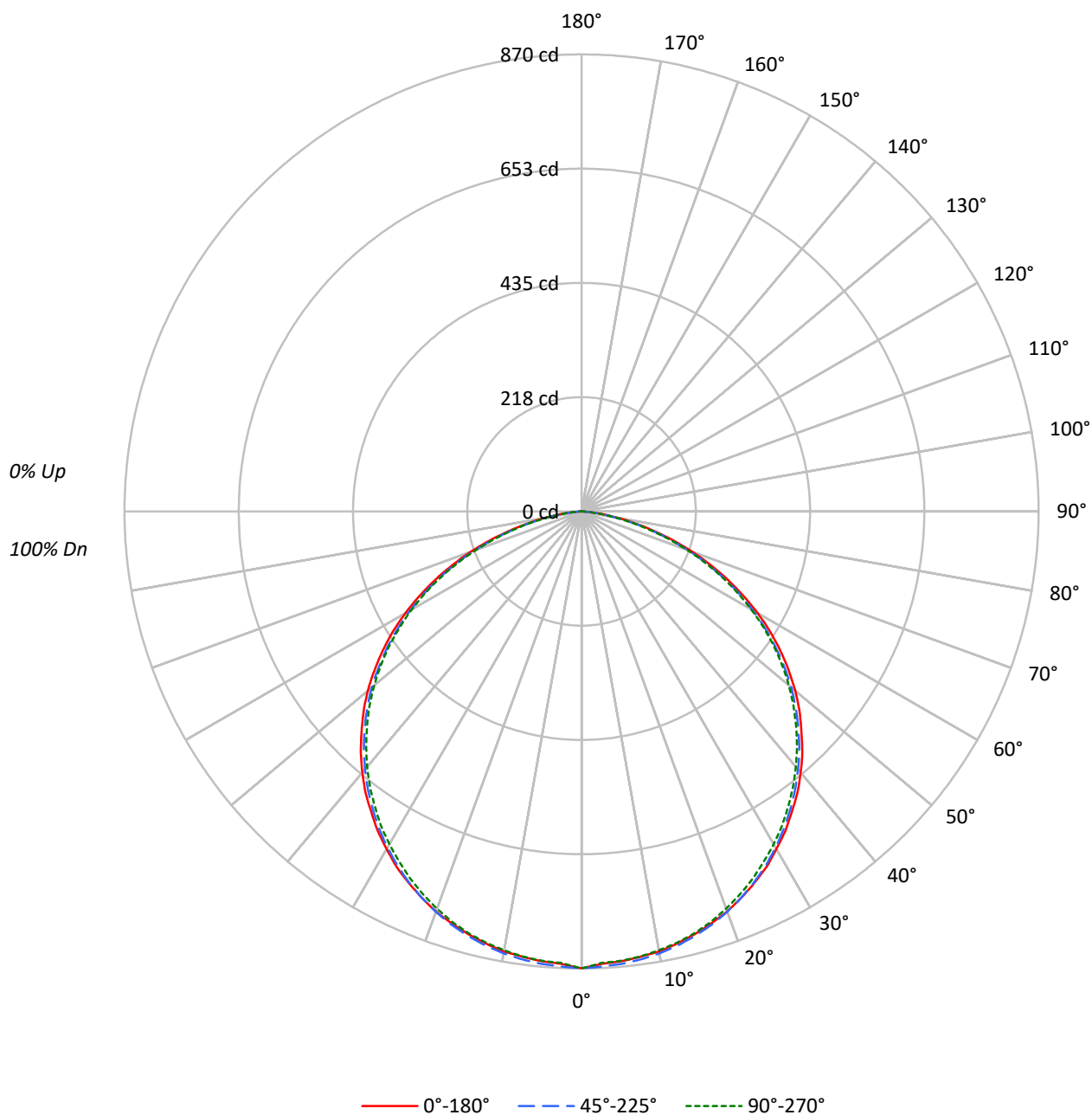
Lumens per Lamp: N/A
Luminaire Lumens: 2434.2 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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°	2340	2340	2340
5°	2322	2336	2319
10°	2324	2334	2317
15°	2321	2330	2316
20°	2320	2322	2304
25°	2315	2311	2290
30°	2305	2295	2273
35°	2293	2275	2253
40°	2280	2252	2230
45°	2252	2221	2197
50°	2223	2182	2156
55°	2167	2116	2096
60°	2083	2025	2007
65°	1950	1893	1873
70°	1759	1688	1674
75°	1474	1399	1385
80°	1071	998	970
85°	568	500	457

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2252 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	3.4
10°-20°	236.6	9.7
20°-30°	359.4	14.8
30°-40°	434.8	17.9
40°-50°	451.8	18.6
50°-60°	404.6	16.6
60°-70°	295.1	12.1
70°-80°	145.3	6.0
80°-90°	24.3	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°	678.4	27.9
0°-40°	1113.1	45.7
0°-60°	1969.6	80.9
0°-90°	2434.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2434.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	870	870	870	870	870	
5°	860	869	865	873	859	82
15°	833	841	836	843	831	235
25°	780	784	778	782	771	359
35°	698	700	693	696	686	437
45°	592	591	584	585	577	457
55°	462	458	451	450	447	412
65°	306	303	297	295	294	303
75°	142	139	135	133	133	151
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°	869.7	869.7	869.7	869.7	869.7
2.5°	862.2	871.9	867.2	875.8	860.4
5°	859.6	869.0	864.7	873.0	858.6
7.5°	855.3	865.0	860.4	868.3	854.6
10°	850.6	859.3	854.2	862.2	848.1
12.5°	842.4	851.0	846.3	853.5	840.6
15°	833.0	840.6	836.2	843.4	831.2
17.5°	822.2	829.4	824.7	831.2	819.0
20°	810.3	816.1	811.0	816.4	804.6
22.5°	795.6	801.0	795.6	799.2	788.7
25°	779.7	783.7	778.3	781.9	771.1
27.5°	762.8	765.0	759.6	762.4	751.3
30°	741.9	744.5	738.7	742.3	731.5
32.5°	721.8	723.2	716.7	719.6	709.9
35°	698.0	699.5	692.6	695.5	685.8
37.5°	675.3	675.0	667.8	669.6	661.3
40°	649.1	648.7	641.1	642.6	634.7
42.5°	622.1	620.6	613.4	614.1	606.9
45°	591.8	591.1	583.5	584.6	577.4
47.5°	562.7	560.5	552.9	553.3	547.2
50°	531.0	527.7	521.3	520.5	515.1
52.5°	497.1	493.5	486.3	485.6	481.7
55°	461.9	457.9	451.1	450.0	446.7
57.5°	425.5	420.5	415.1	412.9	410.4
60°	387.0	382.3	376.2	374.0	372.9
62.5°	347.0	342.3	337.7	335.5	334.1
65°	306.3	302.7	297.3	295.2	294.1
67.5°	264.9	261.7	256.7	254.1	253.8
70°	223.6	220.3	214.6	213.1	212.8
72.5°	182.2	179.3	173.9	172.4	172.4
75°	141.8	139.3	134.6	133.2	133.2
77.5°	103.7	101.5	97.9	96.1	96.1
80°	69.1	67.7	64.4	63.0	62.6
82.5°	40.0	39.2	36.4	34.9	35.6
85°	18.4	17.6	16.2	14.4	14.8
87.5°	4.7	4.3	3.2	2.5	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)