

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: P973050

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

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973050
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: FLR2-14-30HE-L830-CP080
Description: 1*4 FLR-2.0 3000 Lumen High Efficacy at 3000CCT & 80CRI Clear Polycarbonate (0.080" thickness)

Light Source:
Ballast/Driver: -

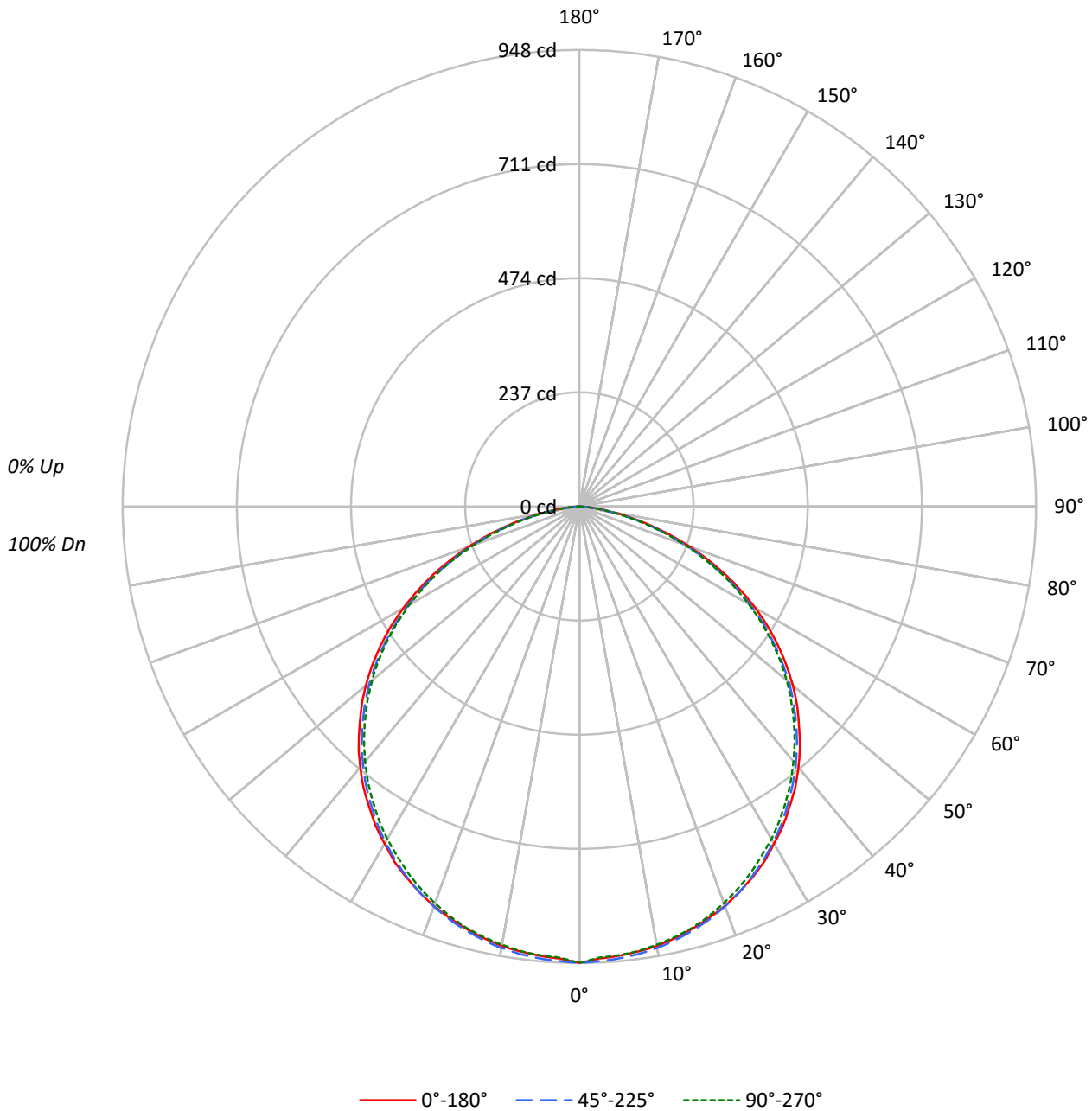
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2653.1 lumens
Efficiency: N/A
Efficacy: 118.4 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): 22.4
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									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°	2551	2551	2551
5°	2531	2546	2528
10°	2533	2544	2526
15°	2529	2539	2524
20°	2529	2531	2511
25°	2523	2519	2495
30°	2513	2502	2477
35°	2499	2480	2455
40°	2485	2455	2430
45°	2455	2420	2395
50°	2423	2378	2351
55°	2362	2306	2284
60°	2270	2207	2188
65°	2126	2064	2041
70°	1917	1840	1825
75°	1607	1525	1510
80°	1167	1088	1058
85°	618	546	497

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2455 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	3.4
10°-20°	257.8	9.7
20°-30°	391.7	14.8
30°-40°	473.9	17.9
40°-50°	492.5	18.6
50°-60°	440.9	16.6
60°-70°	321.6	12.1
70°-80°	158.4	6.0
80°-90°	26.5	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°	739.4	27.9
0°-40°	1213.2	45.7
0°-60°	2146.6	80.9
0°-90°	2653.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2653.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	937	947	942	952	936	89
15°	908	916	911	919	906	256
25°	850	854	848	852	840	392
35°	761	762	755	758	747	476
45°	645	644	636	637	629	498
55°	503	499	492	490	487	449
65°	334	330	324	322	321	330
75°	155	152	147	145	145	165
85°	20	19	18	16	16	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	947.9	947.9	947.9	947.9	947.9
2.5°	939.7	950.3	945.2	954.6	937.7
5°	936.9	947.1	942.4	951.5	935.8
7.5°	932.2	942.8	937.7	946.4	931.4
10°	927.1	936.5	931.1	939.7	924.4
12.5°	918.1	927.5	922.4	930.3	916.1
15°	907.9	916.1	911.4	919.3	905.9
17.5°	896.1	904.0	898.9	905.9	892.6
20°	883.2	889.5	884.0	889.9	876.9
22.5°	867.1	873.0	867.1	871.0	859.6
25°	849.8	854.1	848.3	852.2	840.4
27.5°	831.4	833.7	827.9	831.0	818.8
30°	808.6	811.4	805.1	809.0	797.3
32.5°	786.7	788.2	781.2	784.3	773.7
35°	760.8	762.3	754.9	758.0	747.4
37.5°	736.1	735.7	727.8	729.8	720.8
40°	707.4	707.0	698.8	700.3	691.7
42.5°	678.0	676.4	668.6	669.4	661.5
45°	645.0	644.2	636.0	637.2	629.3
47.5°	613.2	610.9	602.7	603.0	596.4
50°	578.7	575.2	568.1	567.3	561.5
52.5°	541.8	537.9	530.1	529.3	525.0
55°	503.4	499.1	491.6	490.4	486.9
57.5°	463.8	458.3	452.4	450.0	447.3
60°	421.8	416.7	410.0	407.7	406.5
62.5°	378.2	373.1	368.0	365.7	364.1
65°	333.9	330.0	324.1	321.7	320.6
67.5°	288.8	285.2	279.7	277.0	276.6
70°	243.7	240.1	233.8	232.3	231.9
72.5°	198.5	195.4	189.5	187.9	187.9
75°	154.6	151.8	146.7	145.2	145.2
77.5°	113.0	110.6	106.7	104.8	104.8
80°	75.3	73.8	70.2	68.7	68.3
82.5°	43.6	42.8	39.6	38.1	38.8
85°	20.0	19.2	17.7	15.7	16.1
87.5°	5.1	4.7	3.5	2.7	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)