

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: P973372

Luminaire Tested: FLR2-14-30-L835-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973372
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-L835-CP080
Description: 1*4 FLR-2.0 3000 LUMEN at 3500 CCT & 80CRI Clear Polycarbonate (0.080" thickness)

Light Source:
Ballast/Driver: -

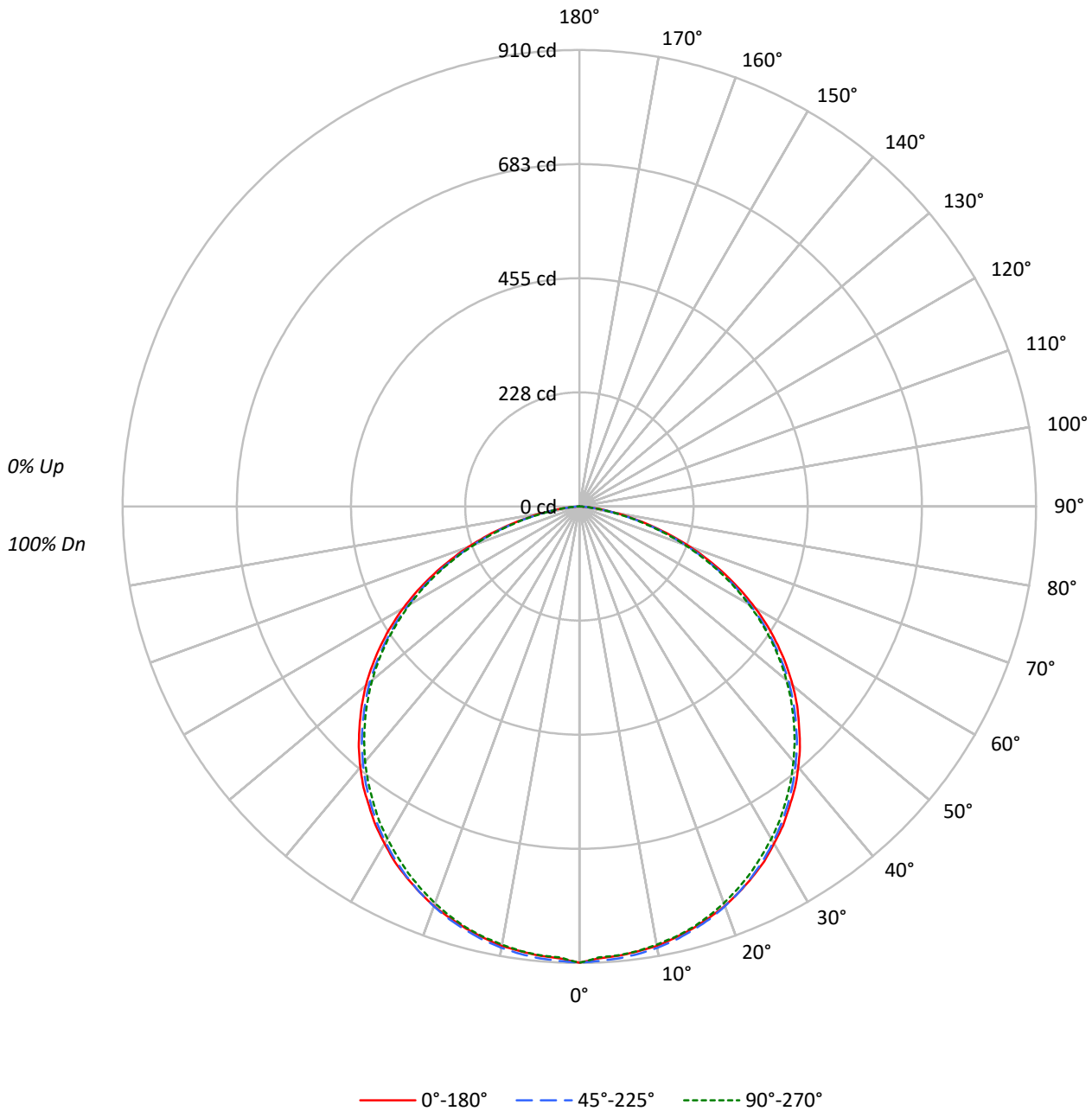
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2545.9 lumens
Efficiency: N/A
Efficacy: 106.5 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										
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						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°	2448	2448	2448
5°	2429	2443	2426
10°	2431	2441	2424
15°	2427	2437	2422
20°	2427	2429	2410
25°	2421	2417	2395
30°	2411	2401	2377
35°	2398	2380	2356
40°	2385	2355	2332
45°	2356	2323	2298
50°	2325	2282	2256
55°	2266	2213	2192
60°	2178	2117	2100
65°	2040	1980	1959
70°	1840	1766	1751
75°	1542	1464	1448
80°	1120	1044	1015
85°	593	522	475

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2356 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	3.4
10°-20°	247.4	9.7
20°-30°	375.9	14.8
30°-40°	454.7	17.9
40°-50°	472.6	18.6
50°-60°	423.1	16.6
60°-70°	308.6	12.1
70°-80°	152.0	6.0
80°-90°	25.4	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°	709.5	27.9
0°-40°	1164.2	45.7
0°-60°	2059.9	80.9
0°-90°	2545.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2545.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	899	909	904	913	898	86
15°	871	879	875	882	869	246
25°	816	820	814	818	806	376
35°	730	732	724	727	717	457
45°	619	618	610	611	604	478
55°	483	479	472	471	467	431
65°	320	317	311	309	308	316
75°	148	146	141	139	139	158
85°	19	18	17	15	15	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	909.6	909.6	909.6	909.6	909.6
2.5°	901.7	911.9	907.0	916.0	899.8
5°	899.1	908.9	904.4	913.0	898.0
7.5°	894.6	904.7	899.8	908.1	893.8
10°	889.7	898.7	893.4	901.7	887.0
12.5°	881.0	890.0	885.1	892.7	879.1
15°	871.2	879.1	874.6	882.1	869.3
17.5°	859.9	867.5	862.6	869.3	856.5
20°	847.5	853.5	848.3	853.9	841.5
22.5°	832.1	837.7	832.1	835.8	824.9
25°	815.5	819.6	814.0	817.8	806.5
27.5°	797.8	800.1	794.4	797.4	785.8
30°	776.0	778.6	772.6	776.3	765.0
32.5°	754.9	756.4	749.6	752.6	742.5
35°	730.0	731.5	724.4	727.4	717.2
37.5°	706.3	705.9	698.4	700.3	691.6
40°	678.8	678.5	670.5	672.1	663.8
42.5°	650.6	649.1	641.6	642.3	634.8
45°	619.0	618.2	610.3	611.4	603.9
47.5°	588.5	586.2	578.3	578.7	572.3
50°	555.3	551.9	545.2	544.4	538.8
52.5°	519.9	516.2	508.7	507.9	503.8
55°	483.0	478.9	471.8	470.6	467.2
57.5°	445.0	439.8	434.1	431.8	429.2
60°	404.7	399.8	393.4	391.2	390.1
62.5°	362.9	358.1	353.2	350.9	349.4
65°	320.4	316.6	311.0	308.7	307.6
67.5°	277.1	273.7	268.4	265.8	265.4
70°	233.8	230.4	224.4	222.9	222.5
72.5°	190.5	187.5	181.8	180.3	180.3
75°	148.3	145.7	140.8	139.3	139.3
77.5°	108.4	106.2	102.4	100.5	100.5
80°	72.3	70.8	67.4	65.9	65.5
82.5°	41.8	41.0	38.0	36.5	37.3
85°	19.2	18.4	16.9	15.1	15.4
87.5°	4.9	4.5	3.4	2.6	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)