

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: P973374

Luminaire Tested: FLR2-14-20-L835-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973374
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: FLR2-14-20-L835-CP125
Description: 1*4 FLR-2.0 2000 LUMEN at 3500 CCT & 80CRI with Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

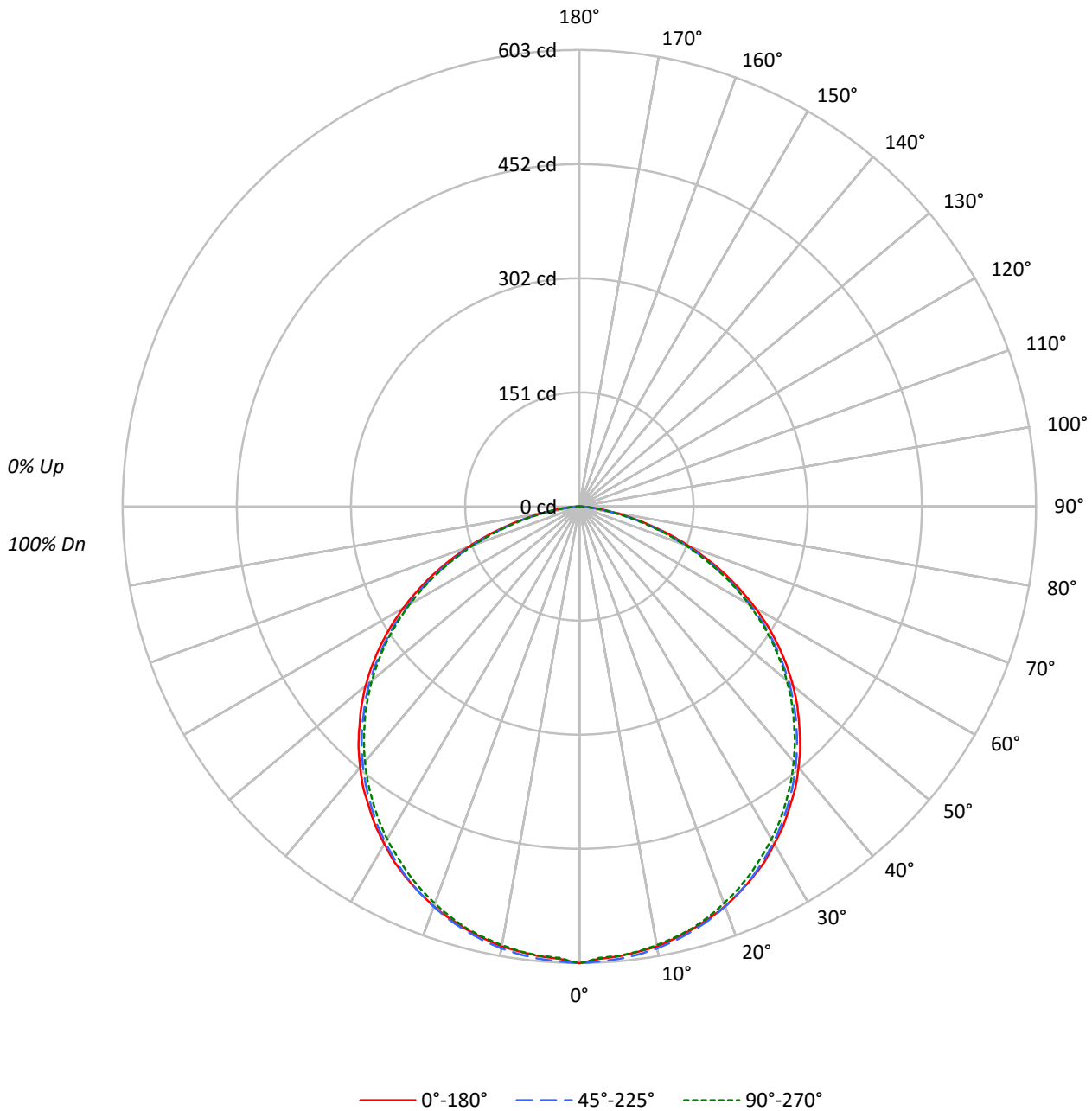
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1688.9 lumens
Efficiency: N/A
Efficacy: 103.0 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): 16.4
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°	1624	1624	1624
5°	1611	1620	1609
10°	1613	1620	1608
15°	1610	1616	1607
20°	1610	1611	1599
25°	1606	1603	1589
30°	1600	1592	1577
35°	1591	1579	1563
40°	1582	1563	1547
45°	1563	1541	1525
50°	1542	1514	1496
55°	1504	1468	1454
60°	1445	1405	1393
65°	1354	1314	1300
70°	1220	1172	1161
75°	1023	971	961
80°	744	693	674
85°	392	346	315

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1563 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	3.4
10°-20°	164.1	9.7
20°-30°	249.4	14.8
30°-40°	301.7	17.9
40°-50°	313.5	18.6
50°-60°	280.7	16.6
60°-70°	204.7	12.1
70°-80°	100.8	6.0
80°-90°	16.8	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°	470.7	27.9
0°-40°	772.3	45.7
0°-60°	1366.5	80.9
0°-90°	1688.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1688.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	603	603	603	603	603	
5°	596	603	600	606	596	57
15°	578	583	580	585	577	163
25°	541	544	540	542	535	249
35°	484	485	481	482	476	303
45°	411	410	405	406	401	317
55°	320	318	313	312	310	286
65°	213	210	206	205	204	210
75°	98	97	93	92	92	105
85°	13	12	11	10	10	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	603.4	603.4	603.4	603.4	603.4
2.5°	598.2	604.9	601.7	607.7	596.9
5°	596.4	602.9	599.9	605.7	595.7
7.5°	593.4	600.2	596.9	602.4	592.9
10°	590.2	596.2	592.7	598.2	588.4
12.5°	584.5	590.4	587.2	592.2	583.2
15°	578.0	583.2	580.2	585.2	576.7
17.5°	570.5	575.5	572.2	576.7	568.2
20°	562.2	566.2	562.7	566.5	558.2
22.5°	552.0	555.7	552.0	554.5	547.2
25°	541.0	543.7	540.0	542.5	535.0
27.5°	529.3	530.8	527.0	529.0	521.3
30°	514.8	516.5	512.5	515.0	507.5
32.5°	500.8	501.8	497.3	499.3	492.5
35°	484.3	485.3	480.6	482.5	475.8
37.5°	468.6	468.3	463.3	464.6	458.8
40°	450.3	450.1	444.8	445.8	440.3
42.5°	431.6	430.6	425.6	426.1	421.1
45°	410.6	410.1	404.9	405.6	400.6
47.5°	390.4	388.9	383.6	383.9	379.6
50°	368.4	366.2	361.7	361.2	357.4
52.5°	344.9	342.4	337.4	336.9	334.2
55°	320.5	317.7	313.0	312.2	310.0
57.5°	295.2	291.7	288.0	286.5	284.7
60°	268.5	265.3	261.0	259.5	258.8
62.5°	240.8	237.5	234.3	232.8	231.8
65°	212.6	210.1	206.3	204.8	204.1
67.5°	183.8	181.6	178.1	176.3	176.1
70°	155.1	152.9	148.9	147.9	147.6
72.5°	126.4	124.4	120.6	119.6	119.6
75°	98.4	96.7	93.4	92.4	92.4
77.5°	71.9	70.4	67.9	66.7	66.7
80°	48.0	47.0	44.7	43.7	43.5
82.5°	27.7	27.2	25.2	24.2	24.7
85°	12.7	12.2	11.2	10.0	10.2
87.5°	3.2	3.0	2.2	1.7	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)