

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: P973399

Luminaire Tested: FLR2-14-30-L935-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973399
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-L935-CP187
Description: 1*4 FLR-2.0 3000 LUMEN at 3500 CCT & 90 CRI Clear Polycarbonate (0.187" thickness)

Light Source:
Ballast/Driver: -

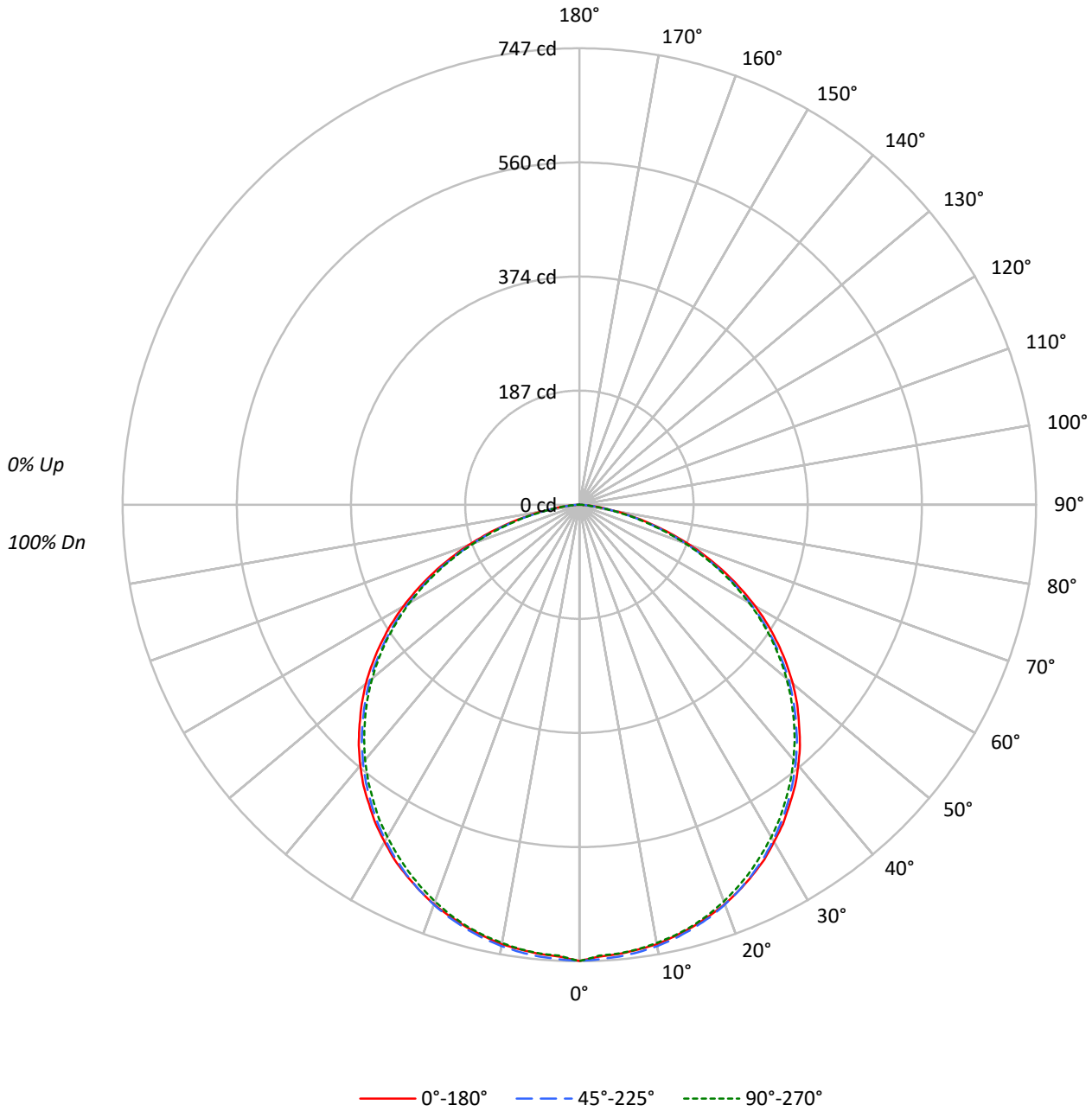
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2090.0 lumens
Efficiency: N/A
Efficacy: 87.4 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): 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°	2009	2009	2009
5°	1994	2005	1991
10°	1996	2004	1990
15°	1992	2000	1988
20°	1992	1994	1978
25°	1988	1984	1966
30°	1979	1971	1951
35°	1969	1954	1934
40°	1958	1934	1914
45°	1934	1907	1887
50°	1909	1873	1852
55°	1860	1817	1800
60°	1788	1738	1723
65°	1675	1626	1608
70°	1510	1449	1437
75°	1266	1202	1189
80°	919	857	834
85°	488	429	392

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1934 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	3.4
10°-20°	203.1	9.7
20°-30°	308.6	14.8
30°-40°	373.3	17.9
40°-50°	388.0	18.6
50°-60°	347.3	16.6
60°-70°	253.3	12.1
70°-80°	124.8	6.0
80°-90°	20.9	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°	582.4	27.9
0°-40°	955.7	45.7
0°-60°	1691.0	80.9
0°-90°	2090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2090.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	738	746	742	750	737	70
15°	715	722	718	724	714	202
25°	670	673	668	671	662	309
35°	599	600	595	597	589	375
45°	508	508	501	502	496	392
55°	396	393	387	386	384	354
65°	263	260	255	253	252	260
75°	122	120	116	114	114	130
85°	16	15	14	12	13	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	746.7	746.7	746.7	746.7	746.7
2.5°	740.2	748.6	744.6	752.0	738.7
5°	738.1	746.1	742.4	749.5	737.2
7.5°	734.4	742.7	738.7	745.5	733.8
10°	730.4	737.8	733.4	740.2	728.2
12.5°	723.2	730.7	726.6	732.8	721.7
15°	715.2	721.7	718.0	724.2	713.7
17.5°	705.9	712.1	708.1	713.7	703.2
20°	695.7	700.7	696.4	701.0	690.8
22.5°	683.1	687.7	683.1	686.2	677.2
25°	669.5	672.9	668.2	671.3	662.0
27.5°	654.9	656.8	652.2	654.6	645.0
30°	637.0	639.2	634.2	637.3	628.0
32.5°	619.7	620.9	615.4	617.8	609.5
35°	599.3	600.5	594.7	597.1	588.8
37.5°	579.8	579.5	573.3	574.9	567.8
40°	557.3	557.0	550.5	551.7	544.9
42.5°	534.1	532.9	526.7	527.3	521.1
45°	508.1	507.5	501.0	501.9	495.8
47.5°	483.1	481.2	474.7	475.1	469.8
50°	455.9	453.1	447.5	446.9	442.3
52.5°	426.8	423.7	417.6	416.9	413.5
55°	396.5	393.1	387.3	386.3	383.6
57.5°	365.3	361.0	356.4	354.5	352.3
60°	332.3	328.2	323.0	321.1	320.2
62.5°	298.0	293.9	289.9	288.1	286.8
65°	263.0	259.9	255.3	253.4	252.5
67.5°	227.5	224.7	220.4	218.2	217.9
70°	191.9	189.2	184.2	183.0	182.7
72.5°	156.4	153.9	149.3	148.0	148.0
75°	121.8	119.6	115.6	114.4	114.4
77.5°	89.0	87.2	84.1	82.5	82.5
80°	59.3	58.1	55.3	54.1	53.8
82.5°	34.3	33.7	31.2	30.0	30.6
85°	15.8	15.1	13.9	12.4	12.7
87.5°	4.0	3.7	2.8	2.2	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)