

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: P973489

Luminaire Tested: FLR2-14-30-L950-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973489
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-L950-CP375
Description: 1*4 FLR-2.0 3000 LUMEN at 5000 CCT & 90 CRI with Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

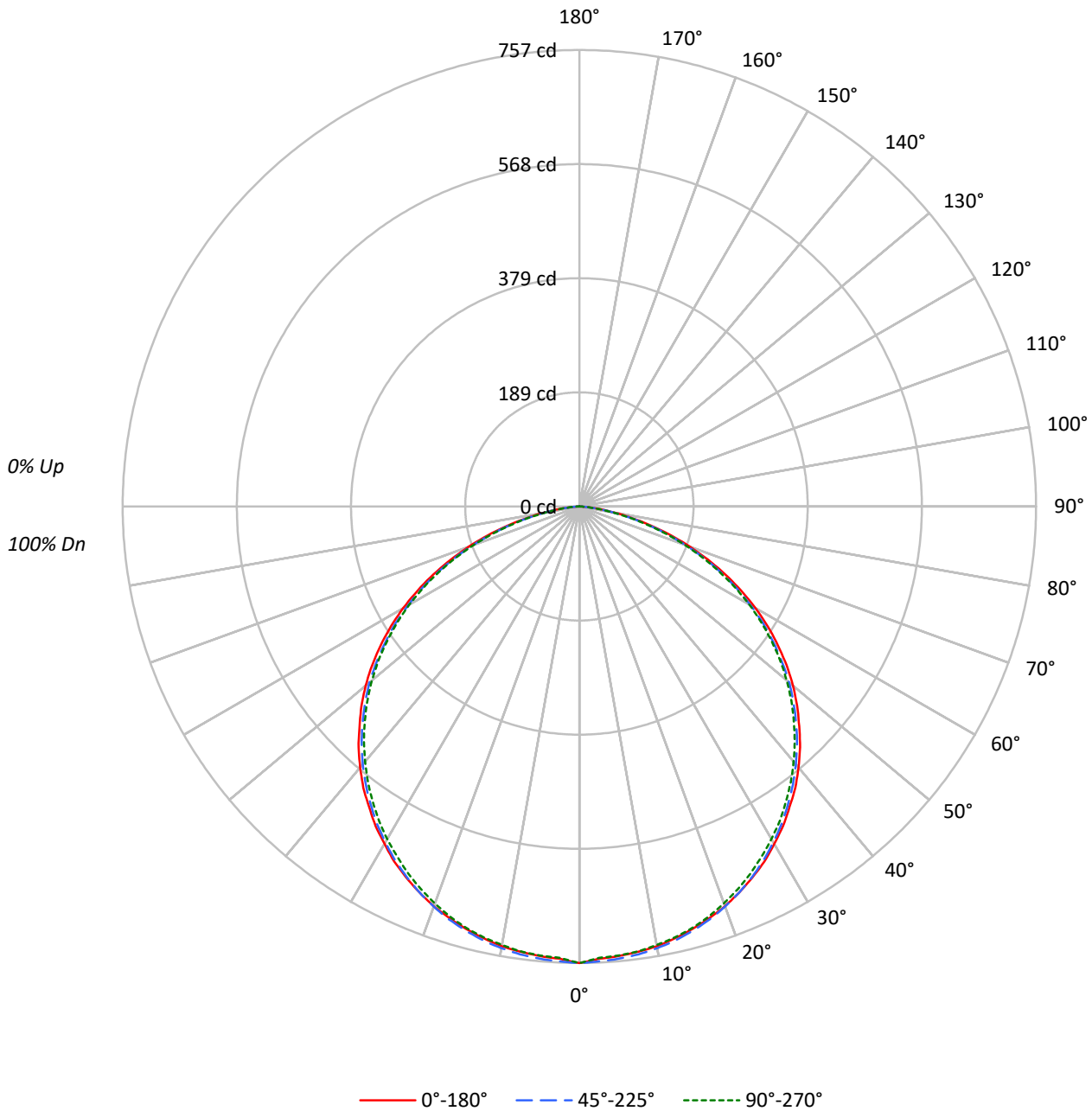
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2119.7 lumens
Efficiency: N/A
Efficacy: 88.7 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 (A_{in}): 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°	2038	2038	2038
5°	2022	2034	2019
10°	2024	2033	2018
15°	2021	2029	2016
20°	2021	2022	2006
25°	2016	2012	1993
30°	2008	1999	1979
35°	1997	1981	1962
40°	1985	1961	1941
45°	1961	1934	1913
50°	1936	1900	1878
55°	1887	1843	1825
60°	1814	1763	1748
65°	1699	1649	1631
70°	1532	1470	1458
75°	1284	1219	1206
80°	933	869	845
85°	494	435	398

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1961 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	3.4
10°-20°	206.0	9.7
20°-30°	313.0	14.8
30°-40°	378.6	17.9
40°-50°	393.5	18.6
50°-60°	352.3	16.6
60°-70°	256.9	12.1
70°-80°	126.5	6.0
80°-90°	21.2	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°	590.7	27.9
0°-40°	969.3	45.7
0°-60°	1715.0	80.9
0°-90°	2119.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2119.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	757	757	757	757	757	
5°	749	757	753	760	748	71
15°	725	732	728	734	724	205
25°	679	682	678	681	671	313
35°	608	609	603	606	597	381
45°	515	515	508	509	503	398
55°	402	399	393	392	389	359
65°	267	264	259	257	256	264
75°	124	121	117	116	116	132
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°	757.3	757.3	757.3	757.3	757.3
2.5°	750.8	759.2	755.1	762.7	749.2
5°	748.6	756.7	752.9	760.2	747.6
7.5°	744.8	753.3	749.2	756.1	744.2
10°	740.7	748.2	743.9	750.8	738.5
12.5°	733.5	741.0	737.0	743.2	731.9
15°	725.4	731.9	728.2	734.4	723.8
17.5°	716.0	722.2	718.1	723.8	713.1
20°	705.6	710.6	706.2	710.9	700.6
22.5°	692.8	697.5	692.8	695.9	686.8
25°	679.0	682.4	677.7	680.8	671.4
27.5°	664.2	666.1	661.4	663.9	654.2
30°	646.1	648.2	643.2	646.4	637.0
32.5°	628.5	629.8	624.1	626.6	618.2
35°	607.8	609.1	603.1	605.6	597.2
37.5°	588.1	587.7	581.5	583.0	575.8
40°	565.2	564.9	558.3	559.5	552.6
42.5°	541.7	540.4	534.1	534.8	528.5
45°	515.3	514.7	508.1	509.1	502.8
47.5°	489.9	488.1	481.5	481.8	476.5
50°	462.4	459.5	453.9	453.3	448.6
52.5°	432.9	429.8	423.5	422.9	419.4
55°	402.2	398.7	392.8	391.8	389.0
57.5°	370.5	366.1	361.4	359.5	357.4
60°	337.0	332.9	327.6	325.7	324.8
62.5°	302.2	298.1	294.0	292.1	290.9
65°	266.8	263.6	258.9	257.0	256.1
67.5°	230.7	227.9	223.5	221.3	221.0
70°	194.7	191.8	186.8	185.6	185.3
72.5°	158.6	156.1	151.4	150.2	150.2
75°	123.5	121.3	117.2	116.0	116.0
77.5°	90.3	88.4	85.3	83.7	83.7
80°	60.2	58.9	56.1	54.9	54.5
82.5°	34.8	34.2	31.7	30.4	31.0
85°	16.0	15.4	14.1	12.5	12.9
87.5°	4.1	3.8	2.8	2.2	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)