

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: P973393

Luminaire Tested: FLR2-14-30-L935-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973393
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-CP080
Description: 1*4 FLR-2.0 3000 LUMEN at 3500 CCT & 90 CRI Clear Polycarbonate (0.080" thickness)

Light Source:
Ballast/Driver: -

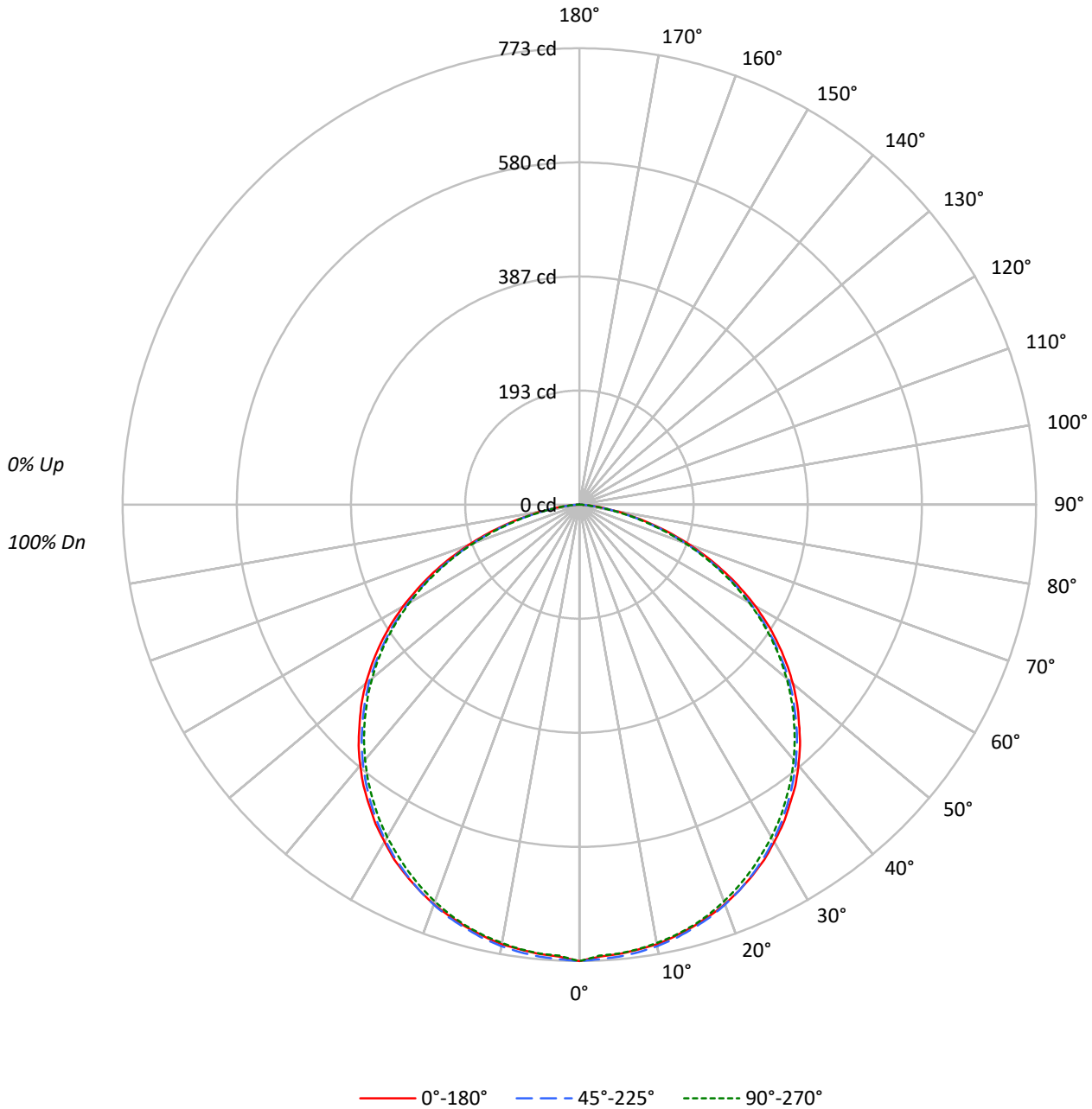
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2164.0 lumens
Efficiency: N/A
Efficacy: 90.5 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				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°	2081	2081	2081
5°	2064	2076	2062
10°	2066	2075	2060
15°	2063	2071	2059
20°	2063	2065	2048
25°	2058	2054	2035
30°	2050	2041	2021
35°	2038	2023	2003
40°	2027	2002	1982
45°	2002	1974	1953
50°	1976	1940	1917
55°	1926	1881	1863
60°	1851	1800	1784
65°	1734	1683	1665
70°	1563	1500	1488
75°	1311	1245	1231
80°	951	888	863
85°	503	445	404

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2002 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	3.4
10°-20°	210.3	9.7
20°-30°	319.5	14.8
30°-40°	386.5	17.9
40°-50°	401.7	18.6
50°-60°	359.7	16.6
60°-70°	262.3	12.1
70°-80°	129.2	6.0
80°-90°	21.6	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°	603.1	27.9
0°-40°	989.6	45.7
0°-60°	1750.9	80.9
0°-90°	2164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2164.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	764	772	769	776	763	73
15°	740	747	743	750	739	209
25°	693	697	692	695	686	320
35°	620	622	616	618	610	389
45°	526	526	519	520	513	406
55°	411	407	401	400	397	366
65°	272	269	264	262	262	269
75°	126	124	120	118	118	134
85°	16	16	14	13	13	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	773.2	773.2	773.2	773.2	773.2
2.5°	766.5	775.1	770.9	778.6	764.9
5°	764.2	772.5	768.7	776.1	763.3
7.5°	760.4	769.0	764.9	771.9	759.7
10°	756.2	763.9	759.4	766.5	754.0
12.5°	748.9	756.5	752.4	758.8	747.3
15°	740.5	747.3	743.4	749.8	738.9
17.5°	730.9	737.3	733.2	738.9	728.1
20°	720.4	725.5	721.0	725.8	715.3
22.5°	707.3	712.1	707.3	710.5	701.2
25°	693.2	696.7	691.9	695.1	685.5
27.5°	678.1	680.1	675.3	677.8	667.9
30°	659.6	661.8	656.7	659.9	650.3
32.5°	641.6	642.9	637.2	639.7	631.1
35°	620.5	621.8	615.7	618.3	609.6
37.5°	600.4	600.0	593.6	595.2	587.9
40°	577.0	576.7	570.0	571.2	564.2
42.5°	553.0	551.7	545.3	546.0	539.6
45°	526.1	525.5	518.8	519.7	513.3
47.5°	500.2	498.3	491.6	491.9	486.4
50°	472.0	469.2	463.4	462.8	458.0
52.5°	442.0	438.8	432.4	431.7	428.2
55°	410.6	407.1	401.0	400.0	397.2
57.5°	378.3	373.8	369.0	367.1	364.8
60°	344.0	339.9	334.4	332.5	331.5
62.5°	308.5	304.3	300.2	298.3	297.0
65°	272.3	269.1	264.3	262.4	261.5
67.5°	235.5	232.7	228.2	225.9	225.6
70°	198.7	195.9	190.7	189.5	189.1
72.5°	161.9	159.4	154.6	153.3	153.3
75°	126.1	123.8	119.7	118.4	118.4
77.5°	92.2	90.2	87.0	85.4	85.4
80°	61.4	60.2	57.3	56.0	55.7
82.5°	35.5	34.9	32.3	31.0	31.7
85°	16.3	15.7	14.4	12.8	13.1
87.5°	4.2	3.8	2.9	2.2	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)