

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: P973435

Luminaire Tested: FLR2-14-30-L940-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973435
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-L940-CP080
Description: 1*4 FLR-2.0 3000 LUMEN at 4000 CCT & 90 CRI with Clear Polycarbonate (0.080" thickness)

Light Source:
Ballast/Driver: -

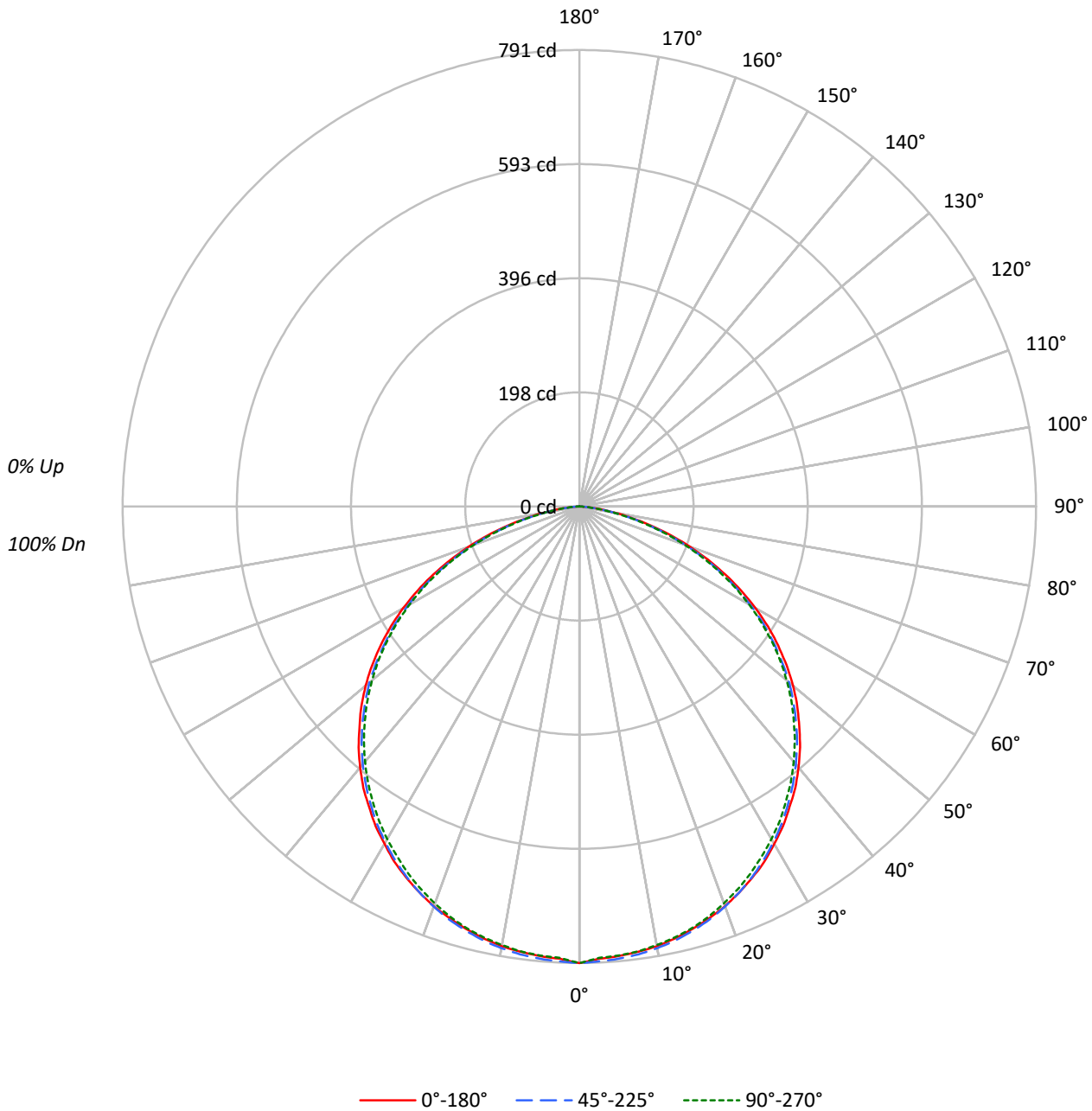
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2214.9 lumens
Efficiency: N/A
Efficacy: 92.7 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 (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°	2130	2130	2130
5°	2113	2125	2110
10°	2115	2124	2109
15°	2112	2120	2107
20°	2111	2113	2096
25°	2107	2103	2083
30°	2098	2088	2068
35°	2086	2070	2050
40°	2075	2049	2029
45°	2049	2021	1999
50°	2022	1986	1962
55°	1972	1925	1907
60°	1895	1842	1826
65°	1775	1723	1704
70°	1600	1536	1523
75°	1342	1274	1260
80°	975	908	883
85°	516	454	414

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2049 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	3.4
10°-20°	215.3	9.7
20°-30°	327.0	14.8
30°-40°	395.6	17.9
40°-50°	411.2	18.6
50°-60°	368.1	16.6
60°-70°	268.5	12.1
70°-80°	132.2	6.0
80°-90°	22.1	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°	617.3	27.9
0°-40°	1012.9	45.7
0°-60°	1792.1	80.9
0°-90°	2214.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2214.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	791	791	791	791	791	
5°	782	791	787	794	781	74
15°	758	765	761	768	756	214
25°	710	713	708	711	702	327
35°	635	636	630	633	624	398
45°	538	538	531	532	525	416
55°	420	417	410	409	406	375
65°	279	276	271	269	268	275
75°	129	127	122	121	121	138
85°	17	16	15	13	13	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	791.4	791.4	791.4	791.4	791.4
2.5°	784.5	793.3	789.1	796.9	782.9
5°	782.2	790.7	786.8	794.3	781.2
7.5°	778.3	787.1	782.9	790.1	777.6
10°	774.0	781.9	777.3	784.5	771.7
12.5°	766.5	774.3	770.1	776.6	764.8
15°	758.0	764.8	760.9	767.5	756.3
17.5°	748.1	754.7	750.4	756.3	745.2
20°	737.3	742.6	738.0	742.9	732.1
22.5°	723.9	728.8	723.9	727.2	717.7
25°	709.5	713.1	708.2	711.4	701.6
27.5°	694.1	696.1	691.1	693.8	683.6
30°	675.1	677.4	672.1	675.4	665.6
32.5°	656.7	658.1	652.2	654.8	645.9
35°	635.1	636.4	630.2	632.8	624.0
37.5°	614.5	614.2	607.6	609.3	601.7
40°	590.6	590.3	583.4	584.7	577.5
42.5°	566.0	564.7	558.2	558.8	552.3
45°	538.5	537.8	531.0	531.9	525.4
47.5°	512.0	510.0	503.1	503.5	497.9
50°	483.1	480.2	474.3	473.6	468.7
52.5°	452.4	449.1	442.5	441.9	438.3
55°	420.3	416.6	410.4	409.4	406.5
57.5°	387.2	382.6	377.7	375.7	373.4
60°	352.1	347.9	342.3	340.3	339.3
62.5°	315.8	311.5	307.2	305.3	304.0
65°	278.7	275.5	270.6	268.6	267.6
67.5°	241.1	238.1	233.5	231.3	230.9
70°	203.4	200.5	195.2	193.9	193.6
72.5°	165.7	163.1	158.2	156.9	156.9
75°	129.1	126.8	122.5	121.2	121.2
77.5°	94.3	92.4	89.1	87.5	87.5
80°	62.9	61.6	58.6	57.3	57.0
82.5°	36.4	35.7	33.1	31.8	32.4
85°	16.7	16.1	14.7	13.1	13.4
87.5°	4.3	3.9	2.9	2.3	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)