

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: P973085

Luminaire Tested: FLR2-14-30HE-L930-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973085
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: FLR2-14-30HE-L930-CP080
Description: 1*4 FLR-2.0 3000 Lumen High Efficacy at 3000CCT & 90 CRI Clear Polycarbonate (0.080" thickness)

Light Source:
Ballast/Driver: -

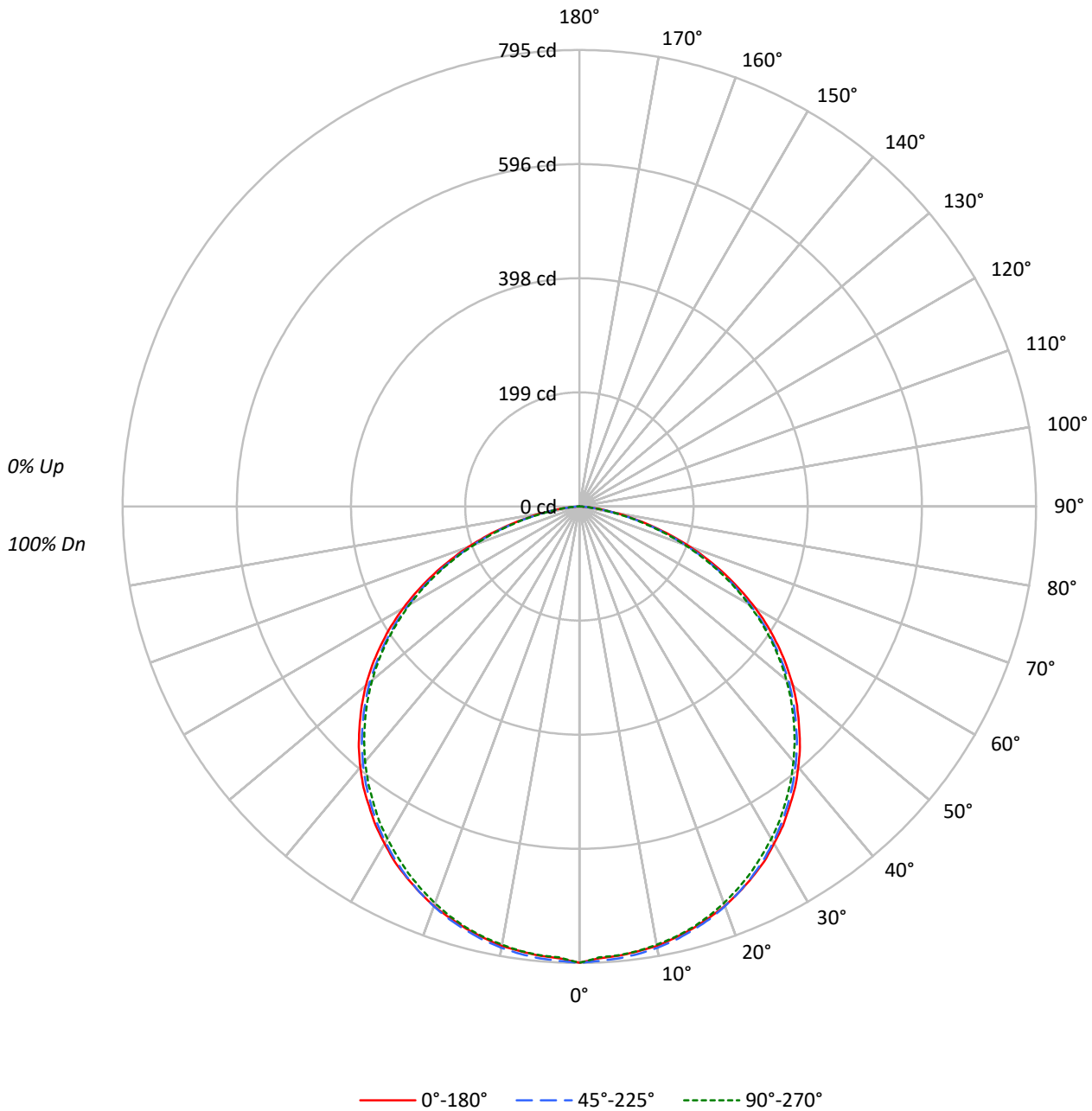
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2224.3 lumens
Efficiency: N/A
Efficacy: 99.3 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): 22.4
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

TEST NUMBER: P973085
CATALOG NUMBER: FLR2-14-30HE-L930-CP080

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	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°	2139	2139	2139
5°	2122	2134	2119
10°	2124	2133	2118
15°	2121	2129	2116
20°	2120	2122	2105
25°	2116	2112	2092
30°	2106	2097	2077
35°	2095	2079	2058
40°	2083	2058	2037
45°	2058	2029	2008
50°	2031	1994	1971
55°	1980	1934	1915
60°	1903	1850	1834
65°	1782	1730	1711
70°	1607	1542	1530
75°	1347	1279	1265
80°	979	913	886
85°	519	457	417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2058 cd/sqm



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 CATALOG NUMBER: FLR2-14-30HE-L930-CP080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	3.4
10°-20°	216.2	9.7
20°-30°	328.4	14.8
30°-40°	397.3	17.9
40°-50°	412.9	18.6
50°-60°	369.7	16.6
60°-70°	269.6	12.1
70°-80°	132.8	6.0
80°-90°	22.2	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°	619.9	27.9
0°-40°	1017.1	45.7
0°-60°	1799.7	80.9
0°-90°	2224.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2224.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	786	794	790	798	784	75
15°	761	768	764	771	760	215
25°	712	716	711	714	705	328
35°	638	639	633	636	627	399
45°	541	540	533	534	528	418
55°	422	418	412	411	408	377
65°	280	277	272	270	269	277
75°	130	127	123	122	122	138
85°	17	16	15	13	14	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	794.7	794.7	794.7	794.7	794.7
2.5°	787.8	796.7	792.4	800.3	786.2
5°	785.5	794.1	790.1	797.7	784.5
7.5°	781.6	790.4	786.2	793.4	780.9
10°	777.3	785.2	780.6	787.8	775.0
12.5°	769.7	777.6	773.3	779.9	768.1
15°	761.2	768.1	764.1	770.7	759.5
17.5°	751.3	757.9	753.6	759.5	748.3
20°	740.4	745.7	741.1	746.0	735.2
22.5°	727.0	731.9	727.0	730.2	720.7
25°	712.5	716.1	711.2	714.5	704.6
27.5°	697.0	699.0	694.1	696.7	686.5
30°	677.9	680.3	675.0	678.3	668.4
32.5°	659.5	660.8	654.9	657.6	648.7
35°	637.8	639.1	632.9	635.5	626.6
37.5°	617.1	616.8	610.2	611.8	604.3
40°	593.1	592.8	585.8	587.2	579.9
42.5°	568.4	567.1	560.5	561.2	554.6
45°	540.8	540.1	533.2	534.2	527.6
47.5°	514.1	512.2	505.3	505.6	500.0
50°	485.2	482.2	476.3	475.6	470.7
52.5°	454.3	451.0	444.4	443.7	440.1
55°	422.0	418.4	412.2	411.2	408.2
57.5°	388.8	384.2	379.3	377.3	375.0
60°	353.6	349.3	343.7	341.8	340.8
62.5°	317.1	312.8	308.5	306.6	305.3
65°	279.9	276.6	271.7	269.7	268.7
67.5°	242.1	239.1	234.5	232.2	231.9
70°	204.3	201.3	196.0	194.7	194.4
72.5°	166.4	163.8	158.9	157.6	157.6
75°	129.6	127.3	123.0	121.7	121.7
77.5°	94.7	92.8	89.5	87.8	87.8
80°	63.2	61.8	58.9	57.6	57.2
82.5°	36.5	35.9	33.2	31.9	32.6
85°	16.8	16.1	14.8	13.2	13.5
87.5°	4.3	3.9	3.0	2.3	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)