

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: P973175

Luminaire Tested: FLR2-14-30HE-L935-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973175
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-L935-CP375
Description: 1*4 FLR-2.0 3500 Lumen High Efficacy at 3500CCT & 90 CRI Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

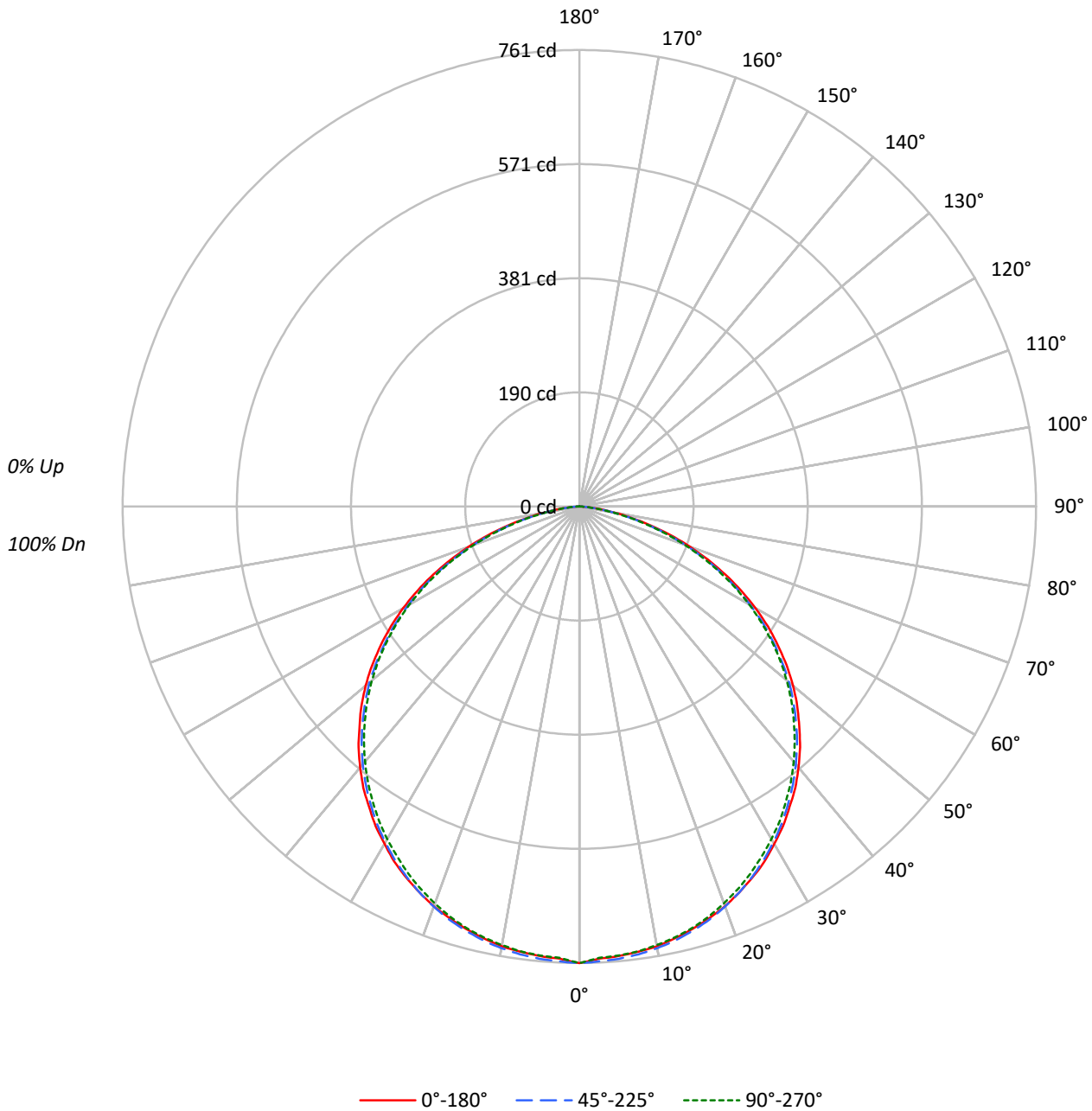
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2130.9 lumens
Efficiency: N/A
Efficacy: 95.1 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

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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°	2049	2049	2049
5°	2033	2045	2030
10°	2035	2043	2029
15°	2031	2040	2027
20°	2031	2033	2017
25°	2027	2023	2004
30°	2018	2009	1990
35°	2007	1992	1972
40°	1996	1972	1952
45°	1972	1944	1924
50°	1946	1910	1888
55°	1897	1853	1835
60°	1823	1772	1757
65°	1708	1657	1640
70°	1540	1478	1465
75°	1291	1226	1212
80°	938	874	849
85°	497	438	398

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1972 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	3.4
10°-20°	207.1	9.7
20°-30°	314.6	14.8
30°-40°	380.6	17.9
40°-50°	395.6	18.6
50°-60°	354.2	16.6
60°-70°	258.3	12.1
70°-80°	127.2	6.0
80°-90°	21.3	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°	593.9	27.9
0°-40°	974.5	45.7
0°-60°	1724.2	80.9
0°-90°	2130.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2130.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	761	761	761	761	761	
5°	752	761	757	764	752	72
15°	729	736	732	738	728	206
25°	683	686	681	684	675	315
35°	611	612	606	609	600	383
45°	518	517	511	512	506	400
55°	404	401	395	394	391	361
65°	268	265	260	258	258	265
75°	124	122	118	117	117	132
85°	16	15	14	13	13	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	761.4	761.4	761.4	761.4	761.4
2.5°	754.7	763.3	759.2	766.7	753.2
5°	752.5	760.7	757.0	764.2	751.6
7.5°	748.8	757.3	753.2	760.1	748.1
10°	744.7	752.2	747.8	754.7	742.5
12.5°	737.4	745.0	740.9	747.2	735.8
15°	729.2	735.8	732.1	738.4	727.6
17.5°	719.8	726.1	722.0	727.6	716.9
20°	709.4	714.4	710.0	714.7	704.3
22.5°	696.4	701.2	696.4	699.6	690.5
25°	682.6	686.0	681.3	684.5	675.0
27.5°	667.8	669.7	664.9	667.5	657.7
30°	649.5	651.7	646.7	649.8	640.4
32.5°	631.8	633.1	627.4	630.0	621.4
35°	611.0	612.3	606.3	608.8	600.3
37.5°	591.2	590.9	584.6	586.1	578.9
40°	568.2	567.9	561.3	562.5	555.6
42.5°	544.6	543.3	537.0	537.6	531.3
45°	518.1	517.4	510.8	511.8	505.5
47.5°	492.6	490.7	484.0	484.4	479.0
50°	464.8	462.0	456.3	455.7	451.0
52.5°	435.2	432.0	425.7	425.1	421.6
55°	404.3	400.9	394.9	393.9	391.1
57.5°	372.5	368.1	363.3	361.5	359.3
60°	338.8	334.7	329.3	327.4	326.5
62.5°	303.8	299.7	295.6	293.7	292.4
65°	268.2	265.0	260.3	258.4	257.5
67.5°	231.9	229.1	224.7	222.5	222.2
70°	195.7	192.9	187.8	186.6	186.2
72.5°	159.5	156.9	152.2	150.9	150.9
75°	124.2	122.0	117.9	116.6	116.6
77.5°	90.8	88.9	85.7	84.1	84.1
80°	60.5	59.2	56.4	55.1	54.8
82.5°	35.0	34.3	31.8	30.6	31.2
85°	16.1	15.4	14.2	12.6	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)