

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: P973165

Luminaire Tested: FLR2-14-30HE-L935-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973165
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-CP187
Description: 1*4 FLR-2.0 3500 Lumen High Efficacy at 3500CCT & 90 CRI Clear Polycarbonate (0.187" thickness)

Light Source:
Ballast/Driver: -

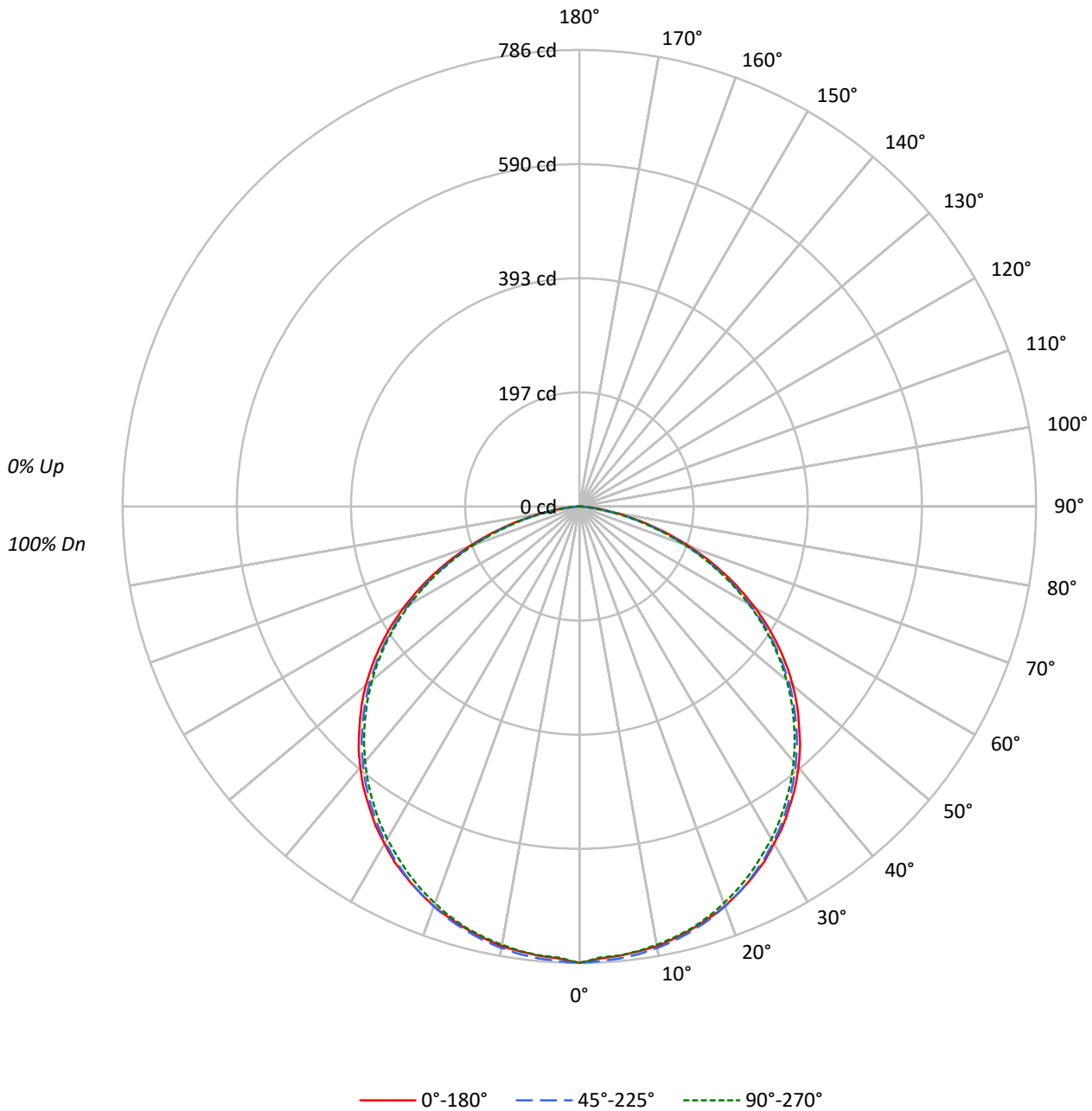
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2200.0 lumens
Efficiency: N/A
Efficacy: 98.2 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°	2115	2115	2115
5°	2099	2111	2096
10°	2101	2109	2094
15°	2098	2106	2093
20°	2097	2099	2082
25°	2092	2089	2069
30°	2083	2074	2054
35°	2072	2056	2036
40°	2061	2035	2015
45°	2036	2007	1986
50°	2009	1972	1949
55°	1958	1913	1894
60°	1882	1830	1814
65°	1763	1711	1692
70°	1589	1526	1513
75°	1333	1265	1252
80°	969	902	877
85°	513	451	411

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2036 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	3.4
10°-20°	213.8	9.7
20°-30°	324.8	14.8
30°-40°	392.9	17.9
40°-50°	408.4	18.6
50°-60°	365.6	16.6
60°-70°	266.7	12.1
70°-80°	131.3	6.0
80°-90°	22.0	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°	613.1	27.9
0°-40°	1006.0	45.7
0°-60°	1780.0	80.9
0°-90°	2200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2200.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	786	786	786	786	786	
5°	777	785	782	789	776	74
15°	753	760	756	762	751	213
25°	705	708	703	707	697	325
35°	631	632	626	629	620	395
45°	535	534	527	528	522	413
55°	417	414	408	407	404	373
65°	277	274	269	267	266	273
75°	128	126	122	120	120	137
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°	786.0	786.0	786.0	786.0	786.0
2.5°	779.2	788.0	783.8	791.6	777.6
5°	776.9	785.4	781.5	789.0	776.0
7.5°	773.0	781.8	777.6	784.7	772.4
10°	768.8	776.6	772.0	779.2	766.5
12.5°	761.3	769.1	764.9	771.4	759.7
15°	752.9	759.7	755.8	762.3	751.2
17.5°	743.1	749.6	745.4	751.2	740.2
20°	732.4	737.6	733.0	737.9	727.1
22.5°	719.0	723.9	719.0	722.3	712.8
25°	704.7	708.3	703.4	706.7	696.9
27.5°	689.4	691.4	686.5	689.1	679.0
30°	670.5	672.8	667.6	670.9	661.1
32.5°	652.3	653.6	647.8	650.4	641.6
35°	630.8	632.1	626.0	628.6	619.8
37.5°	610.3	610.0	603.5	605.1	597.7
40°	586.6	586.3	579.4	580.7	573.6
42.5°	562.2	560.9	554.4	555.0	548.5
45°	534.9	534.2	527.4	528.4	521.9
47.5°	508.5	506.6	499.7	500.1	494.5
50°	479.9	477.0	471.1	470.5	465.6
52.5°	449.3	446.0	439.5	438.9	435.3
55°	417.4	413.8	407.7	406.7	403.8
57.5°	384.6	380.0	375.1	373.2	370.9
60°	349.7	345.5	340.0	338.0	337.1
62.5°	313.6	309.4	305.2	303.2	301.9
65°	276.9	273.6	268.7	266.8	265.8
67.5°	239.5	236.5	232.0	229.7	229.4
70°	202.0	199.1	193.9	192.6	192.3
72.5°	164.6	162.0	157.1	155.8	155.8
75°	128.2	125.9	121.7	120.4	120.4
77.5°	93.7	91.7	88.5	86.9	86.9
80°	62.5	61.2	58.2	56.9	56.6
82.5°	36.1	35.5	32.9	31.6	32.2
85°	16.6	15.9	14.6	13.0	13.3
87.5°	4.2	3.9	2.9	2.3	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)