

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: P973155

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

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973155
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-CP080
Description: 1*4 FLR-2.0 3500 Lumen High Efficacy at 3500CCT & 90 CRI Clear Polycarbonate (0.080" thickness)

Light Source:
Ballast/Driver: -

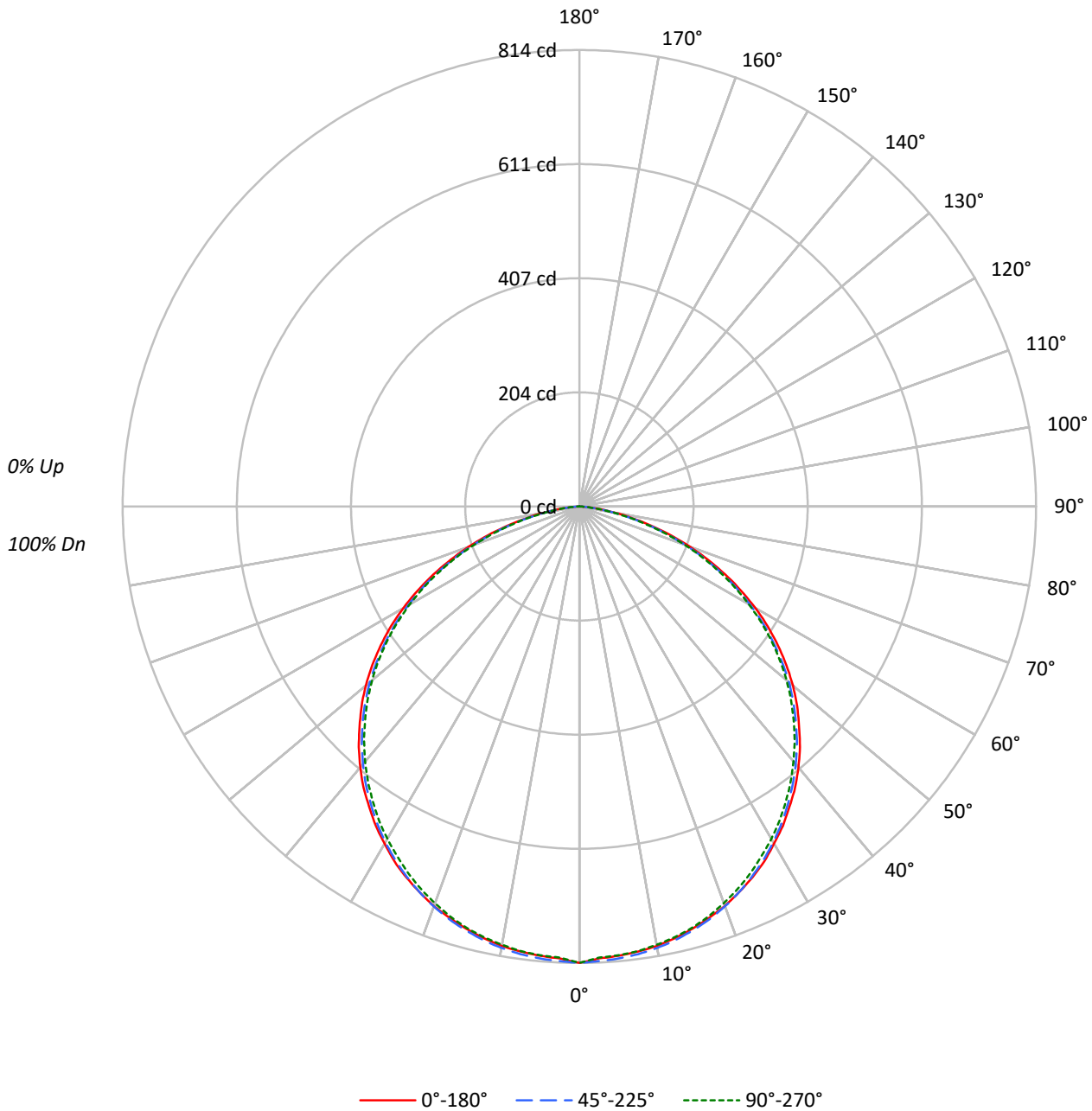
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2277.9 lumens
Efficiency: N/A
Efficacy: 101.7 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): 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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CATALOG NUMBER: FLR2-14-30HE-L935-CP080

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°	2190	2190	2190
5°	2173	2186	2170
10°	2175	2184	2169
15°	2172	2180	2167
20°	2172	2174	2156
25°	2167	2162	2143
30°	2157	2148	2127
35°	2146	2129	2108
40°	2134	2108	2086
45°	2108	2078	2056
50°	2080	2042	2018
55°	2028	1980	1962
60°	1949	1894	1878
65°	1826	1772	1752
70°	1646	1580	1566
75°	1380	1310	1295
80°	1003	934	908
85°	531	469	426

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2108 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	3.4
10°-20°	221.4	9.7
20°-30°	336.3	14.8
30°-40°	406.8	17.9
40°-50°	422.8	18.6
50°-60°	378.6	16.6
60°-70°	276.1	12.1
70°-80°	136.0	6.0
80°-90°	22.7	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°	634.8	27.9
0°-40°	1041.7	45.7
0°-60°	1843.1	80.9
0°-90°	2277.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2277.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	814	814	814	814	814	
5°	804	813	809	817	803	77
15°	780	787	782	789	778	220
25°	730	733	728	732	722	336
35°	653	654	648	651	642	409
45°	554	553	546	547	540	428
55°	432	428	422	421	418	386
65°	287	283	278	276	275	283
75°	133	130	126	125	125	142
85°	17	16	15	14	14	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	813.9	813.9	813.9	813.9	813.9
2.5°	806.8	815.9	811.5	819.6	805.1
5°	804.4	813.2	809.2	816.9	803.4
7.5°	800.4	809.5	805.1	812.5	799.7
10°	796.0	804.1	799.4	806.8	793.7
12.5°	788.3	796.4	792.0	798.7	786.6
15°	779.5	786.6	782.5	789.3	777.8
17.5°	769.4	776.1	771.8	777.8	766.4
20°	758.3	763.7	759.0	764.0	752.9
22.5°	744.5	749.5	744.5	747.8	738.1
25°	729.7	733.4	728.3	731.7	721.6
27.5°	713.8	715.8	710.8	713.5	703.0
30°	694.3	696.6	691.3	694.6	684.5
32.5°	675.4	676.8	670.7	673.4	664.3
35°	653.2	654.5	648.1	650.8	641.7
37.5°	632.0	631.6	624.9	626.6	618.8
40°	607.4	607.0	600.0	601.3	593.9
42.5°	582.1	580.8	574.0	574.7	568.0
45°	553.8	553.1	546.1	547.1	540.3
47.5°	526.5	524.5	517.4	517.8	512.0
50°	496.9	493.8	487.8	487.1	482.1
52.5°	465.2	461.8	455.1	454.4	450.7
55°	432.2	428.5	422.1	421.1	418.1
57.5°	398.2	393.5	388.4	386.4	384.0
60°	362.1	357.8	352.0	350.0	349.0
62.5°	324.7	320.4	316.0	314.0	312.6
65°	286.7	283.3	278.3	276.2	275.2
67.5°	247.9	244.9	240.2	237.8	237.5
70°	209.2	206.2	200.8	199.4	199.1
72.5°	170.5	167.8	162.7	161.4	161.4
75°	132.7	130.4	126.0	124.6	124.6
77.5°	97.0	95.0	91.6	89.9	89.9
80°	64.7	63.3	60.3	59.0	58.6
82.5°	37.4	36.7	34.0	32.7	33.3
85°	17.2	16.5	15.2	13.5	13.8
87.5°	4.4	4.0	3.0	2.4	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)