

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: P973230

Luminaire Tested: FLR2-14-30HE-L940-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973230
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-L940-CP125
Description: 1*4 FLR-2.0 4000 Lumen High Efficacy at 4000CCT & 90 CRI Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

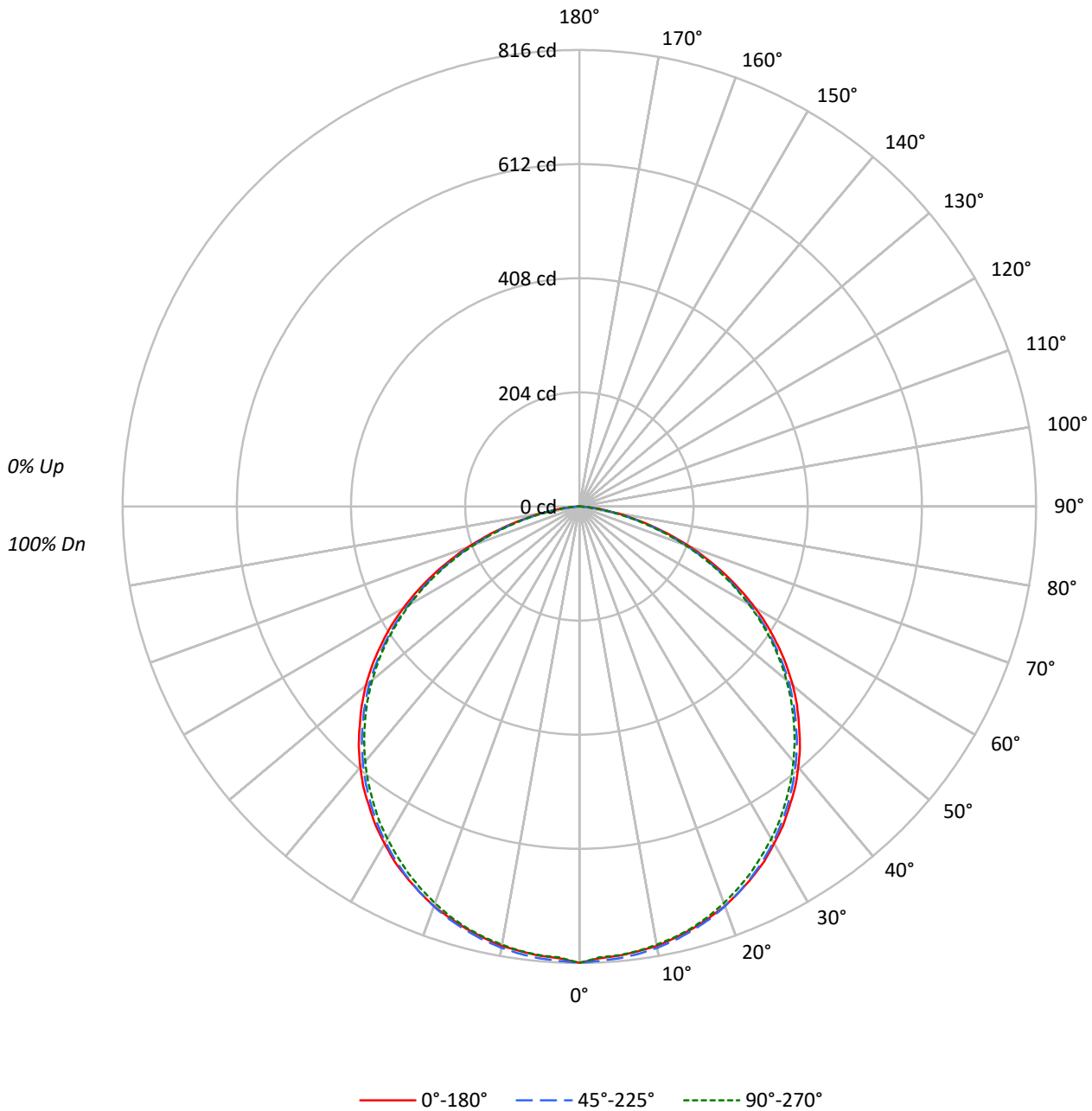
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2283.0 lumens
Efficiency: N/A
Efficacy: 101.9 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°	2195	2195	2195
5°	2178	2191	2175
10°	2180	2189	2173
15°	2176	2185	2172
20°	2176	2178	2161
25°	2171	2167	2147
30°	2162	2153	2132
35°	2150	2134	2113
40°	2138	2112	2091
45°	2112	2083	2061
50°	2085	2047	2022
55°	2032	1985	1966
60°	1953	1899	1883
65°	1829	1776	1756
70°	1650	1583	1570
75°	1383	1313	1299
80°	1004	936	910
85°	531	469	426

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2112 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	3.4
10°-20°	221.9	9.7
20°-30°	337.1	14.8
30°-40°	407.8	17.9
40°-50°	423.8	18.6
50°-60°	379.4	16.6
60°-70°	276.7	12.1
70°-80°	136.3	6.0
80°-90°	22.8	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°	636.2	27.9
0°-40°	1044.0	45.7
0°-60°	1847.2	80.9
0°-90°	2283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2283.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	806	815	811	819	805	77
15°	781	788	784	791	780	221
25°	731	735	730	733	723	337
35°	655	656	650	652	643	410
45°	555	554	547	548	542	429
55°	433	430	423	422	419	387
65°	287	284	279	277	276	284
75°	133	131	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°	815.7	815.7	815.7	815.7	815.7
2.5°	808.6	817.7	813.3	821.4	806.9
5°	806.2	815.0	811.0	818.7	805.2
7.5°	802.2	811.3	806.9	814.3	801.5
10°	797.8	805.9	801.2	808.6	795.4
12.5°	790.0	798.1	793.7	800.5	788.3
15°	781.2	788.3	784.3	791.0	779.6
17.5°	771.1	777.9	773.5	779.6	768.1
20°	760.0	765.4	760.7	765.7	754.6
22.5°	746.1	751.2	746.1	749.5	739.7
25°	731.3	735.0	729.9	733.3	723.2
27.5°	715.4	717.4	712.4	715.1	704.6
30°	695.8	698.2	692.8	696.2	686.0
32.5°	676.9	678.3	672.2	674.9	665.8
35°	654.6	656.0	649.6	652.3	643.2
37.5°	633.4	633.0	626.3	628.0	620.2
40°	608.7	608.4	601.3	602.6	595.2
42.5°	583.4	582.1	575.3	576.0	569.2
45°	555.0	554.4	547.3	548.3	541.5
47.5°	527.7	525.7	518.6	518.9	513.2
50°	498.0	494.9	488.9	488.2	483.1
52.5°	466.3	462.9	456.1	455.4	451.7
55°	433.2	429.5	423.0	422.0	419.0
57.5°	399.1	394.3	389.3	387.2	384.9
60°	362.9	358.6	352.8	350.8	349.8
62.5°	325.5	321.1	316.7	314.7	313.3
65°	287.3	283.9	278.9	276.8	275.8
67.5°	248.5	245.4	240.7	238.4	238.0
70°	209.7	206.6	201.2	199.9	199.5
72.5°	170.8	168.1	163.1	161.7	161.7
75°	133.0	130.7	126.3	124.9	124.9
77.5°	97.2	95.2	91.8	90.1	90.1
80°	64.8	63.5	60.4	59.1	58.7
82.5°	37.5	36.8	34.1	32.7	33.4
85°	17.2	16.5	15.2	13.5	13.8
87.5°	4.4	4.1	3.0	2.4	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)