

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: P973160

Luminaire Tested: FLR2-14-30HE-L935-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973160
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-CP125
Description: 1*4 FLR-2.0 3500 Lumen High Efficacy at 3500CCT & 90 CRI Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

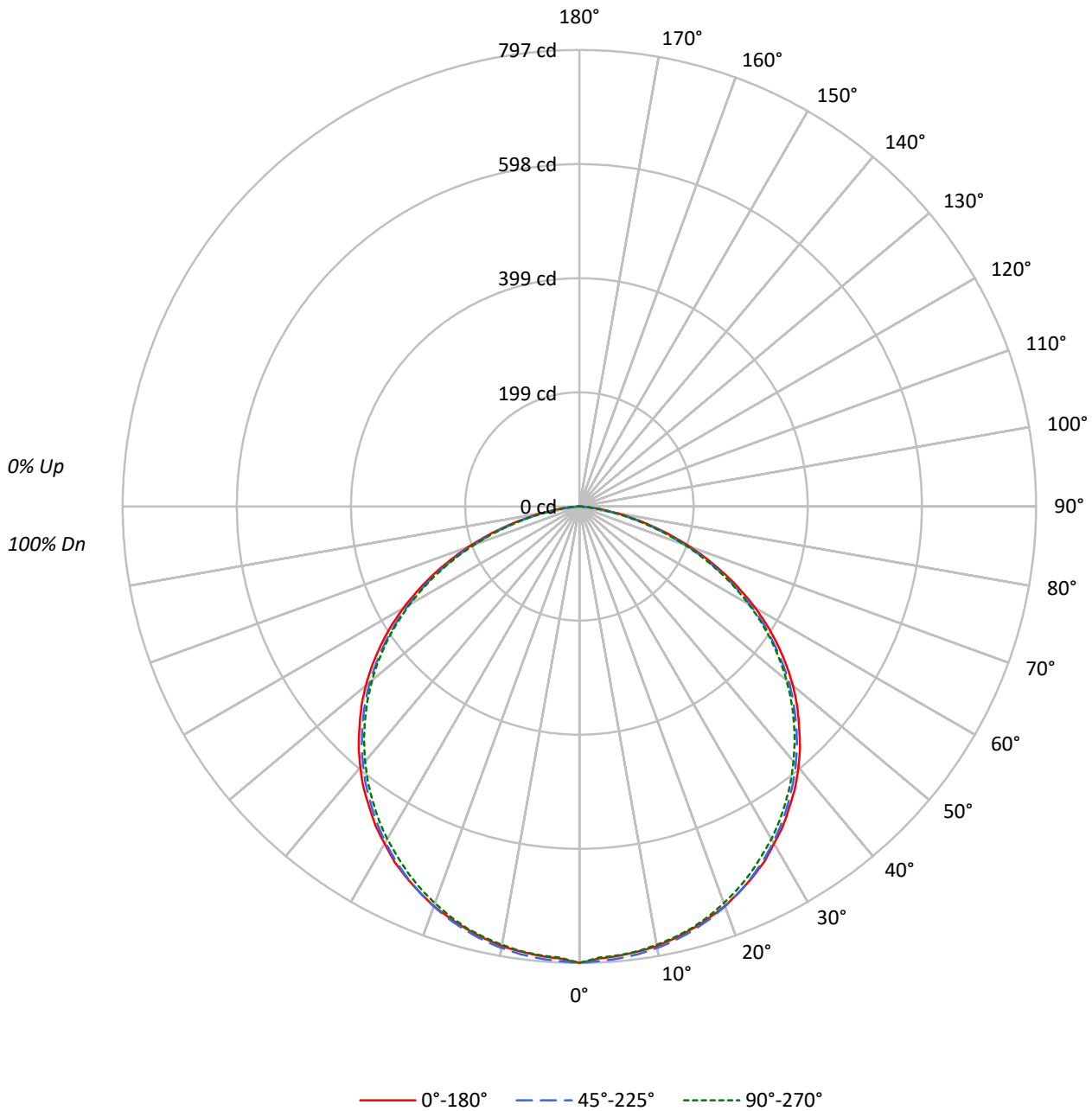
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2230.5 lumens
Efficiency: N/A
Efficacy: 99.6 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										
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	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°	2144	2144	2144
5°	2128	2140	2125
10°	2130	2139	2123
15°	2126	2135	2122
20°	2126	2128	2111
25°	2121	2118	2098
30°	2112	2103	2083
35°	2101	2085	2064
40°	2089	2064	2043
45°	2064	2035	2014
50°	2037	1999	1976
55°	1985	1939	1921
60°	1908	1855	1839
65°	1787	1735	1716
70°	1611	1547	1533
75°	1352	1283	1268
80°	981	914	890
85°	519	457	417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2064 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	3.4
10°-20°	216.8	9.7
20°-30°	329.3	14.8
30°-40°	398.4	17.9
40°-50°	414.0	18.6
50°-60°	370.7	16.6
60°-70°	270.4	12.1
70°-80°	133.1	6.0
80°-90°	22.3	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°	621.6	27.9
0°-40°	1020.0	45.7
0°-60°	1804.7	80.9
0°-90°	2230.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2230.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	797	797	797	797	797	
5°	788	796	792	800	787	75
15°	763	770	766	773	762	216
25°	714	718	713	716	707	329
35°	640	641	635	637	628	401
45°	542	542	535	536	529	419
55°	423	420	413	412	409	378
65°	281	277	272	270	270	277
75°	130	128	123	122	122	139
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°	796.9	796.9	796.9	796.9	796.9
2.5°	790.0	798.9	794.6	802.5	788.4
5°	787.7	796.3	792.3	799.9	786.7
7.5°	783.7	792.6	788.4	795.6	783.1
10°	779.5	787.4	782.8	790.0	777.1
12.5°	771.9	779.8	775.5	782.1	770.2
15°	763.3	770.2	766.3	772.9	761.6
17.5°	753.4	760.0	755.7	761.6	750.4
20°	742.5	747.8	743.2	748.1	737.2
22.5°	729.0	733.9	729.0	732.3	722.7
25°	714.5	718.1	713.2	716.4	706.6
27.5°	699.0	700.9	696.0	698.6	688.4
30°	679.8	682.1	676.9	680.2	670.3
32.5°	661.4	662.7	656.7	659.4	650.5
35°	639.6	640.9	634.6	637.3	628.4
37.5°	618.8	618.5	611.9	613.5	605.9
40°	594.7	594.4	587.5	588.8	581.5
42.5°	570.0	568.7	562.1	562.7	556.1
45°	542.3	541.6	534.7	535.7	529.1
47.5°	515.6	513.6	506.7	507.0	501.4
50°	486.5	483.6	477.6	477.0	472.0
52.5°	455.5	452.2	445.6	445.0	441.3
55°	423.2	419.6	413.3	412.3	409.4
57.5°	389.9	385.3	380.3	378.3	376.0
60°	354.6	350.3	344.7	342.7	341.7
62.5°	318.0	313.7	309.4	307.4	306.1
65°	280.7	277.4	272.5	270.5	269.5
67.5°	242.8	239.8	235.2	232.9	232.5
70°	204.8	201.9	196.6	195.3	194.9
72.5°	166.9	164.3	159.3	158.0	158.0
75°	130.0	127.7	123.4	122.0	122.0
77.5°	95.0	93.0	89.7	88.1	88.1
80°	63.3	62.0	59.0	57.7	57.4
82.5°	36.6	36.0	33.3	32.0	32.7
85°	16.8	16.2	14.8	13.2	13.5
87.5°	4.3	4.0	3.0	2.3	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)