

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: P973305

Luminaire Tested: FLR2-14-30HE-L950-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973305
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-L950-CP187
Description: 1*4 FLR-2.0 5000 Lumen High Efficacy at 5000CCT & 90 CRI Clear Polycarbonate (0.187" thickness)

Light Source:
Ballast/Driver: -

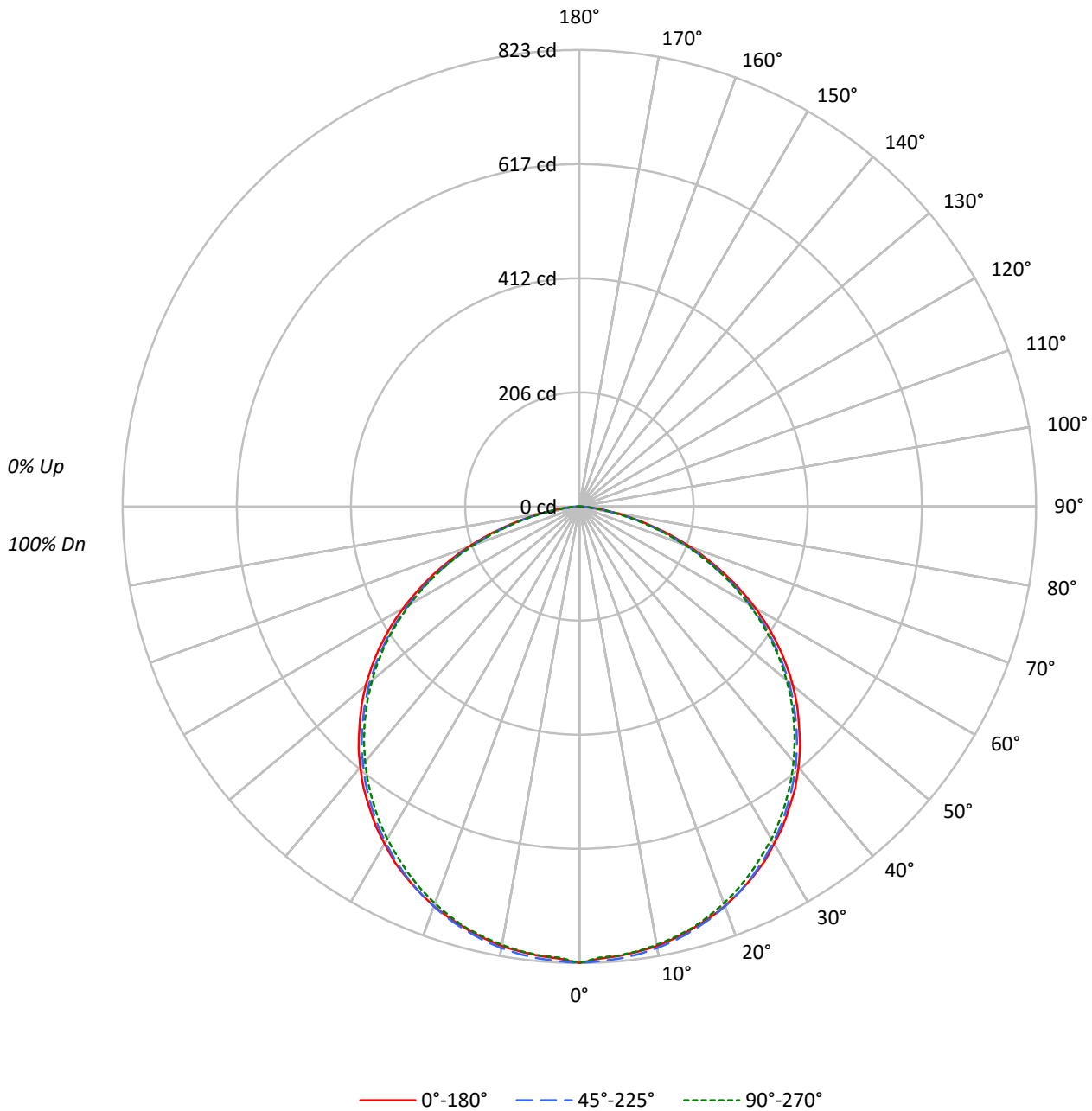
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2303.5 lumens
Efficiency: N/A
Efficacy: 102.8 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°	2215	2215	2215
5°	2197	2210	2195
10°	2200	2209	2193
15°	2196	2204	2191
20°	2196	2198	2180
25°	2191	2187	2167
30°	2182	2172	2151
35°	2170	2153	2132
40°	2158	2131	2110
45°	2131	2101	2079
50°	2104	2065	2041
55°	2051	2002	1984
60°	1971	1916	1899
65°	1846	1792	1772
70°	1664	1597	1584
75°	1395	1325	1310
80°	1013	945	919
85°	537	472	432

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2131 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	3.4
10°-20°	223.9	9.7
20°-30°	340.1	14.8
30°-40°	411.4	17.9
40°-50°	427.6	18.6
50°-60°	382.8	16.6
60°-70°	279.2	12.1
70°-80°	137.5	6.0
80°-90°	23.0	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°	642.0	27.9
0°-40°	1053.4	45.7
0°-60°	1863.8	80.9
0°-90°	2303.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2303.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	823	823	823	823	823	
5°	814	822	818	826	812	77
15°	788	795	791	798	787	223
25°	738	742	736	740	730	340
35°	660	662	655	658	649	414
45°	560	559	552	553	546	432
55°	437	433	427	426	423	390
65°	290	286	281	279	278	286
75°	134	132	127	126	126	143
85°	17	17	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°	823.0	823.0	823.0	823.0	823.0
2.5°	815.9	825.1	820.6	828.8	814.2
5°	813.5	822.3	818.3	826.1	812.5
7.5°	809.4	818.6	814.2	821.7	808.7
10°	805.0	813.1	808.4	815.9	802.6
12.5°	797.1	805.3	800.9	807.7	795.4
15°	788.3	795.4	791.3	798.2	786.6
17.5°	778.1	784.9	780.4	786.6	775.0
20°	766.8	772.3	767.5	772.6	761.4
22.5°	752.9	758.0	752.9	756.3	746.4
25°	737.9	741.6	736.5	739.9	729.7
27.5°	721.9	723.9	718.8	721.5	711.0
30°	702.1	704.5	699.0	702.4	692.2
32.5°	683.0	684.4	678.2	681.0	671.8
35°	660.5	661.9	655.4	658.1	649.0
37.5°	639.1	638.7	631.9	633.6	625.8
40°	614.2	613.9	606.7	608.1	600.6
42.5°	588.7	587.3	580.5	581.2	574.3
45°	560.0	559.4	552.2	553.2	546.4
47.5°	532.4	530.4	523.2	523.6	517.8
50°	502.5	499.4	493.3	492.6	487.5
52.5°	470.4	467.0	460.2	459.5	455.8
55°	437.1	433.3	426.8	425.8	422.8
57.5°	402.7	397.9	392.8	390.7	388.3
60°	366.2	361.8	356.0	353.9	352.9
62.5°	328.4	324.0	319.5	317.5	316.1
65°	289.9	286.5	281.4	279.3	278.3
67.5°	250.7	247.7	242.9	240.5	240.2
70°	211.5	208.5	203.0	201.7	201.3
72.5°	172.4	169.6	164.5	163.2	163.2
75°	134.2	131.8	127.4	126.0	126.0
77.5°	98.1	96.1	92.7	91.0	91.0
80°	65.4	64.0	61.0	59.6	59.3
82.5°	37.8	37.1	34.4	33.0	33.7
85°	17.4	16.7	15.3	13.6	14.0
87.5°	4.4	4.1	3.1	2.4	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)