

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: P973062

Luminaire Tested: FLR2-14-70HE-L830-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973062
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: FLR2-14-70HE-L830-CP187
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 3000CCT & 80CRI Clear Polycarbonate (0.187" thickness)

Light Source:
Ballast/Driver: -

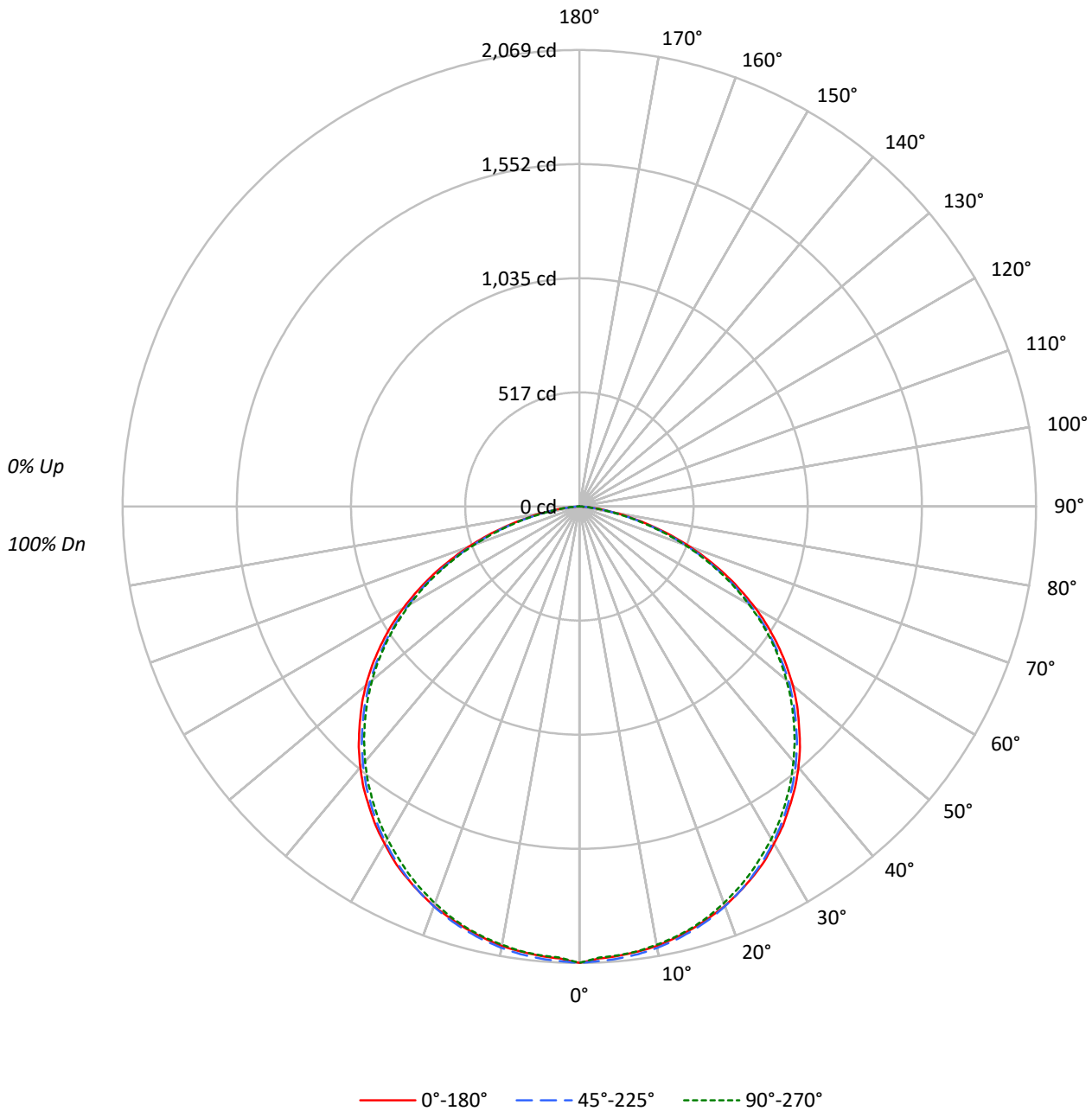
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5789.8 lumens
Efficiency: N/A
Efficacy: 110.3 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): 52.5
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	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	
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°	5567	5567	5567
5°	5523	5556	5516
10°	5529	5552	5512
15°	5520	5541	5508
20°	5519	5524	5480
25°	5507	5497	5445
30°	5483	5459	5406
35°	5454	5412	5358
40°	5423	5357	5303
45°	5357	5282	5227
50°	5287	5190	5130
55°	5154	5034	4985
60°	4954	4816	4774
65°	4639	4503	4454
70°	4183	4015	3981
75°	3508	3329	3294
80°	2548	2376	2309
85°	1349	1189	1084

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5357 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.9	3.4
10°-20°	562.7	9.7
20°-30°	854.9	14.8
30°-40°	1034.1	17.9
40°-50°	1074.7	18.6
50°-60°	962.2	16.6
60°-70°	701.8	12.1
70°-80°	345.6	6.0
80°-90°	57.8	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°	1613.5	27.9
0°-40°	2647.6	45.7
0°-60°	4684.6	80.9
0°-90°	5789.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5789.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2069	2069	2069	2069	2069	
5°	2045	2067	2057	2076	2042	195
15°	1981	1999	1989	2006	1977	560
25°	1855	1864	1851	1860	1834	855
35°	1660	1664	1647	1654	1631	1040
45°	1408	1406	1388	1390	1373	1087
55°	1098	1089	1073	1070	1063	981
65°	729	720	707	702	700	720
75°	337	331	320	317	317	360
85°	44	42	38	34	35	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2068.6	2068.6	2068.6	2068.6	2068.6
2.5°	2050.7	2073.8	2062.6	2083.2	2046.4
5°	2044.7	2066.9	2056.7	2076.3	2042.1
7.5°	2034.4	2057.5	2046.4	2065.2	2032.7
10°	2023.3	2043.8	2031.8	2050.7	2017.3
12.5°	2003.6	2024.1	2013.0	2030.1	1999.3
15°	1981.3	1999.3	1989.0	2006.1	1977.0
17.5°	1955.6	1972.7	1961.6	1977.0	1947.9
20°	1927.4	1941.1	1929.1	1941.9	1913.7
22.5°	1892.3	1905.1	1892.3	1900.8	1876.0
25°	1854.6	1864.0	1851.2	1859.7	1834.0
27.5°	1814.3	1819.5	1806.6	1813.5	1786.9
30°	1764.7	1770.7	1757.0	1765.5	1739.9
32.5°	1716.7	1720.2	1704.7	1711.6	1688.5
35°	1660.2	1663.6	1647.4	1654.2	1631.1
37.5°	1606.3	1605.4	1588.3	1592.6	1572.9
40°	1543.8	1542.9	1524.9	1528.4	1509.5
42.5°	1479.6	1476.1	1459.0	1460.7	1443.6
45°	1407.6	1405.9	1387.9	1390.5	1373.4
47.5°	1338.3	1333.1	1315.2	1316.0	1301.5
50°	1262.9	1255.2	1239.8	1238.1	1225.3
52.5°	1182.4	1173.9	1156.8	1155.0	1145.6
55°	1098.5	1089.1	1072.9	1070.3	1062.6
57.5°	1012.1	1000.1	987.2	982.1	976.1
60°	920.4	909.3	894.8	889.6	887.1
62.5°	825.4	814.3	803.1	798.0	794.6
65°	728.6	720.1	707.2	702.1	699.5
67.5°	630.2	622.5	610.5	604.5	603.6
70°	531.7	524.0	510.3	506.9	506.0
72.5°	433.3	426.4	413.6	410.1	410.1
75°	337.4	331.4	320.2	316.8	316.8
77.5°	246.6	241.5	232.9	228.6	228.6
80°	164.4	161.0	153.3	149.8	149.0
82.5°	95.0	93.3	86.5	83.1	84.8
85°	43.7	42.0	38.5	34.2	35.1
87.5°	11.1	10.3	7.7	6.0	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)