

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: P973282

Luminaire Tested: FLR2-14-70HE-L850-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973282
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-L850-CP375
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 5000CCT & 80CRI Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

Summary

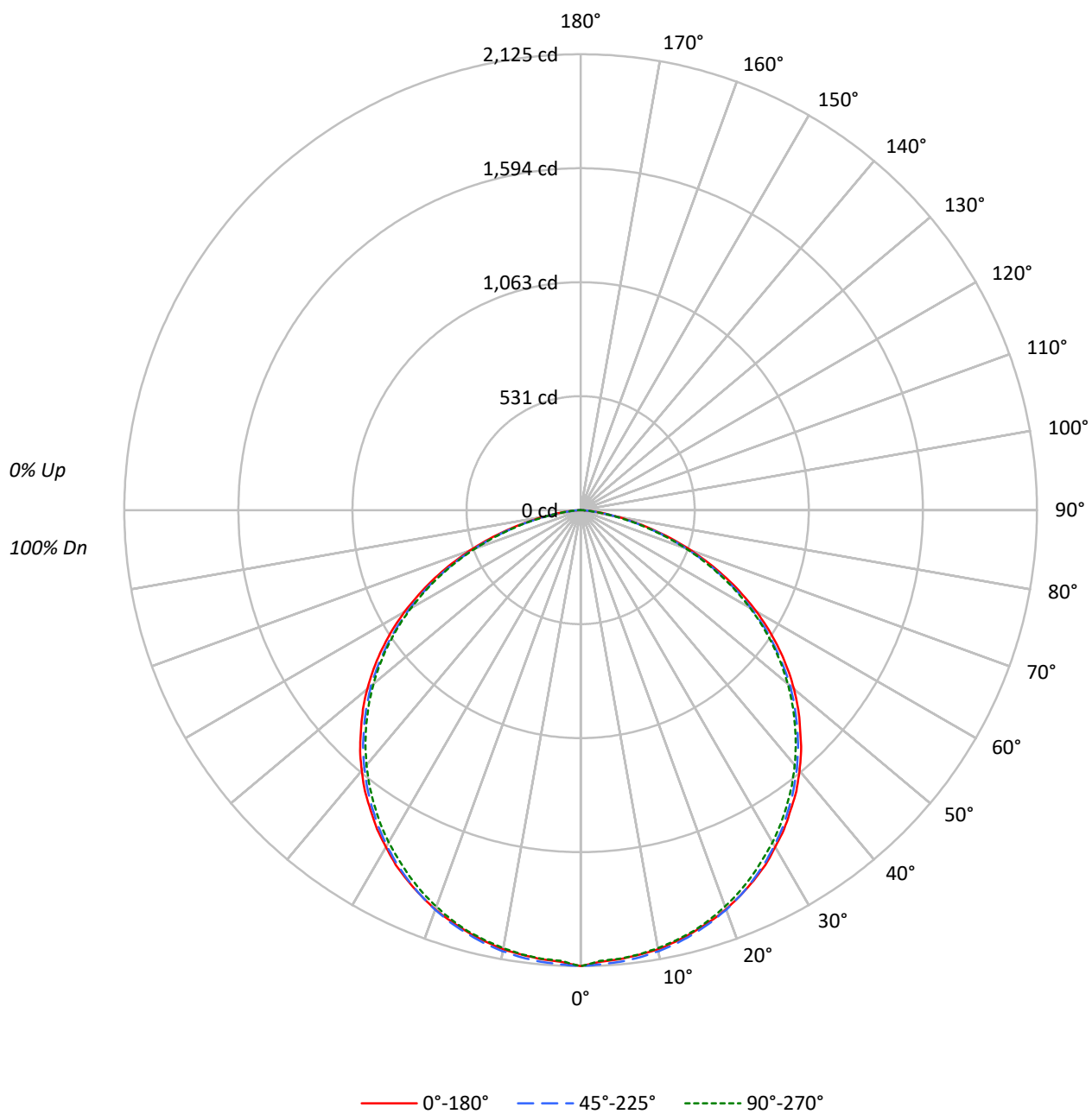
Lumens per Lamp: N/A
Luminaire Lumens: 5948.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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°	5719	5719	5719
5°	5674	5707	5667
10°	5679	5704	5663
15°	5670	5692	5658
20°	5670	5675	5630
25°	5657	5646	5594
30°	5633	5609	5554
35°	5603	5560	5505
40°	5571	5503	5448
45°	5503	5426	5369
50°	5431	5332	5269
55°	5294	5171	5121
60°	5089	4947	4905
65°	4767	4627	4576
70°	4297	4125	4091
75°	3604	3421	3384
80°	2617	2441	2373
85°	1386	1223	1115

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5503 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.3	3.4
10°-20°	578.1	9.7
20°-30°	878.2	14.8
30°-40°	1062.3	17.9
40°-50°	1104.1	18.6
50°-60°	988.5	16.6
60°-70°	721.0	12.1
70°-80°	355.1	6.0
80°-90°	59.4	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°	1657.6	27.9
0°-40°	2719.9	45.7
0°-60°	4812.6	80.9
0°-90°	5948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2125	2125	2125	2125	2125	
5°	2100	2123	2113	2133	2098	200
15°	2035	2054	2043	2061	2031	575
25°	1905	1915	1902	1910	1884	878
35°	1706	1709	1692	1699	1676	1068
45°	1446	1444	1426	1428	1411	1117
55°	1128	1119	1102	1100	1092	1007
65°	749	740	727	721	719	739
75°	347	340	329	326	326	369
85°	45	43	40	35	36	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2125.1	2125.1	2125.1	2125.1	2125.1
2.5°	2106.7	2130.4	2119.0	2140.1	2102.3
5°	2100.5	2123.4	2112.8	2133.1	2097.9
7.5°	2090.0	2113.7	2102.3	2121.6	2088.2
10°	2078.5	2099.6	2087.3	2106.7	2072.4
12.5°	2058.3	2079.4	2068.0	2085.6	2053.9
15°	2035.4	2053.9	2043.3	2060.9	2031.0
17.5°	2009.0	2026.6	2015.2	2031.0	2001.1
20°	1980.0	1994.1	1981.8	1995.0	1965.9
22.5°	1943.9	1957.1	1943.9	1952.7	1927.2
25°	1905.2	1914.9	1901.7	1910.5	1884.1
27.5°	1863.9	1869.2	1856.0	1863.0	1835.8
30°	1812.9	1819.0	1805.0	1813.8	1787.4
32.5°	1763.6	1767.1	1751.3	1758.3	1734.6
35°	1705.6	1709.1	1692.4	1699.4	1675.7
37.5°	1650.2	1649.3	1631.7	1636.1	1615.9
40°	1585.9	1585.1	1566.6	1570.1	1550.8
42.5°	1520.0	1516.5	1498.9	1500.6	1483.0
45°	1446.1	1444.3	1425.9	1428.5	1410.9
47.5°	1374.8	1369.6	1351.1	1352.0	1337.0
50°	1297.4	1289.5	1273.7	1271.9	1258.7
52.5°	1214.7	1206.0	1188.4	1186.6	1176.9
55°	1128.5	1118.9	1102.2	1099.5	1091.6
57.5°	1039.7	1027.4	1014.2	1008.9	1002.8
60°	945.6	934.2	919.2	913.9	911.3
62.5°	847.9	836.5	825.1	819.8	816.3
65°	748.6	739.8	726.6	721.3	718.6
67.5°	647.4	639.5	627.2	621.0	620.1
70°	546.2	538.3	524.3	520.7	519.9
72.5°	445.1	438.0	424.9	421.3	421.3
75°	346.6	340.4	329.0	325.5	325.5
77.5°	253.3	248.1	239.3	234.9	234.9
80°	168.9	165.4	157.5	153.9	153.1
82.5°	97.6	95.9	88.8	85.3	87.1
85°	44.9	43.1	39.6	35.2	36.1
87.5°	11.4	10.6	7.9	6.2	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)