

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: P973137

Luminaire Tested: FLR2-14-70HE-L835-CP250

Issue Date: 3/13/2025

**Test Information**

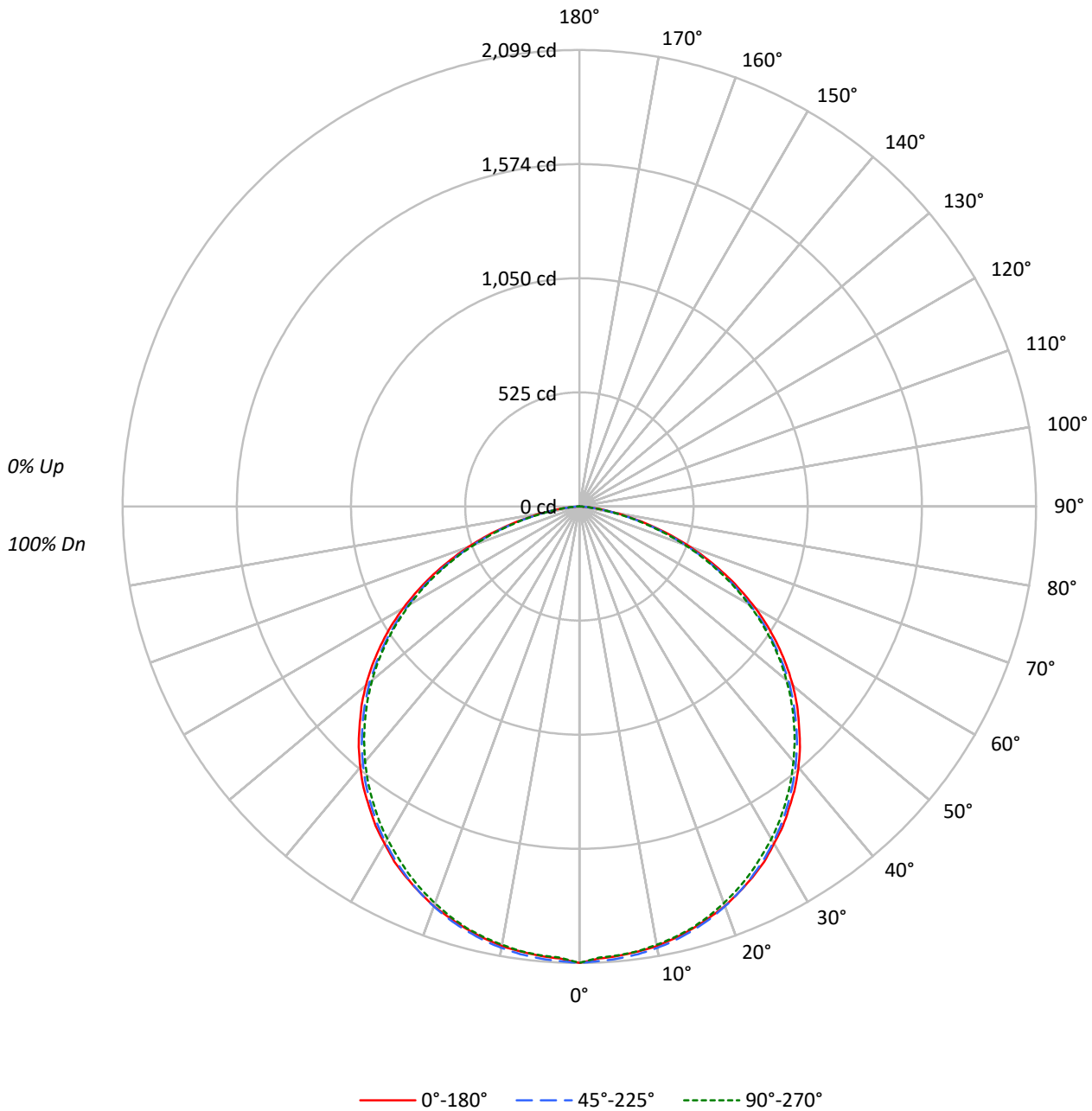
Test Method: LM-79-2019  
Report Number: P973137  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-70HE-L835-CP250  
Description: 1\*4 FLR-2.0 7000 Lumen High Efficacy at 3500CCT & 80CRI Clear Polycarbonate (0.250" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5874.2 lumens  
Efficiency: N/A  
Efficacy: 111.9 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): 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									
RC	80					70					50					30					10				
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	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°	5648	5648	5648
5°	5604	5636	5597
10°	5609	5633	5593
15°	5600	5622	5588
20°	5600	5605	5560
25°	5587	5576	5525
30°	5563	5539	5485
35°	5533	5491	5436
40°	5502	5435	5380
45°	5435	5359	5303
50°	5364	5266	5204
55°	5229	5107	5058
60°	5026	4886	4844
65°	4707	4569	4519
70°	4245	4073	4039
75°	3559	3378	3342
80°	2585	2410	2343
85°	1368	1207	1099

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5435 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.8	3.4
10°-20°	570.9	9.7
20°-30°	867.3	14.8
30°-40°	1049.2	17.9
40°-50°	1090.4	18.6
50°-60°	976.3	16.6
60°-70°	712.1	12.1
70°-80°	350.6	6.0
80°-90°	58.6	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°	1637.0	27.9
0°-40°	2686.2	45.7
0°-60°	4752.9	80.9
0°-90°	5874.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5874.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2099	2099	2099	2099	2099	
5°	2074	2097	2087	2107	2072	197
15°	2010	2028	2018	2035	2006	568
25°	1882	1891	1878	1887	1861	867
35°	1684	1688	1671	1678	1655	1055
45°	1428	1426	1408	1411	1393	1103
55°	1114	1105	1088	1086	1078	995
65°	739	731	718	712	710	730
75°	342	336	325	321	321	365
85°	44	43	39	35	36	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2098.8	2098.8	2098.8	2098.8	2098.8
2.5°	2080.5	2104.0	2092.7	2113.6	2076.2
5°	2074.5	2097.1	2086.6	2106.6	2071.9
7.5°	2064.0	2087.5	2076.2	2095.3	2062.3
10°	2052.8	2073.6	2061.4	2080.5	2046.7
12.5°	2032.8	2053.6	2042.3	2059.7	2028.4
15°	2010.2	2028.4	2018.0	2035.4	2005.8
17.5°	1984.1	2001.5	1990.2	2005.8	1976.3
20°	1955.5	1969.4	1957.2	1970.2	1941.6
22.5°	1919.8	1932.9	1919.8	1928.5	1903.3
25°	1881.6	1891.2	1878.1	1886.8	1860.8
27.5°	1840.8	1846.0	1833.0	1839.9	1813.0
30°	1790.4	1796.5	1782.6	1791.3	1765.2
32.5°	1741.8	1745.2	1729.6	1736.5	1713.1
35°	1684.4	1687.9	1671.4	1678.3	1654.9
37.5°	1629.7	1628.8	1611.4	1615.8	1595.8
40°	1566.3	1565.4	1547.2	1550.6	1531.5
42.5°	1501.1	1497.6	1480.3	1482.0	1464.6
45°	1428.2	1426.4	1408.2	1410.8	1393.4
47.5°	1357.8	1352.6	1334.3	1335.2	1320.4
50°	1281.3	1273.5	1257.9	1256.1	1243.1
52.5°	1199.7	1191.0	1173.6	1171.9	1162.3
55°	1114.5	1105.0	1088.5	1085.9	1078.1
57.5°	1026.8	1014.6	1001.6	996.4	990.3
60°	933.9	922.6	907.8	902.6	900.0
62.5°	837.4	826.1	814.8	809.6	806.2
65°	739.3	730.6	717.6	712.3	709.7
67.5°	639.4	631.5	619.4	613.3	612.4
70°	539.5	531.6	517.7	514.3	513.4
72.5°	439.6	432.6	419.6	416.1	416.1
75°	342.3	336.2	324.9	321.4	321.4
77.5°	250.2	245.0	236.3	231.9	231.9
80°	166.8	163.3	155.5	152.0	151.2
82.5°	96.4	94.7	87.7	84.3	86.0
85°	44.3	42.6	39.1	34.7	35.6
87.5°	11.3	10.4	7.8	6.1	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)