

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: P973143

Luminaire Tested: FLR2-14-80HE-L835-CP375

Issue Date: 3/13/2025

**Test Information**

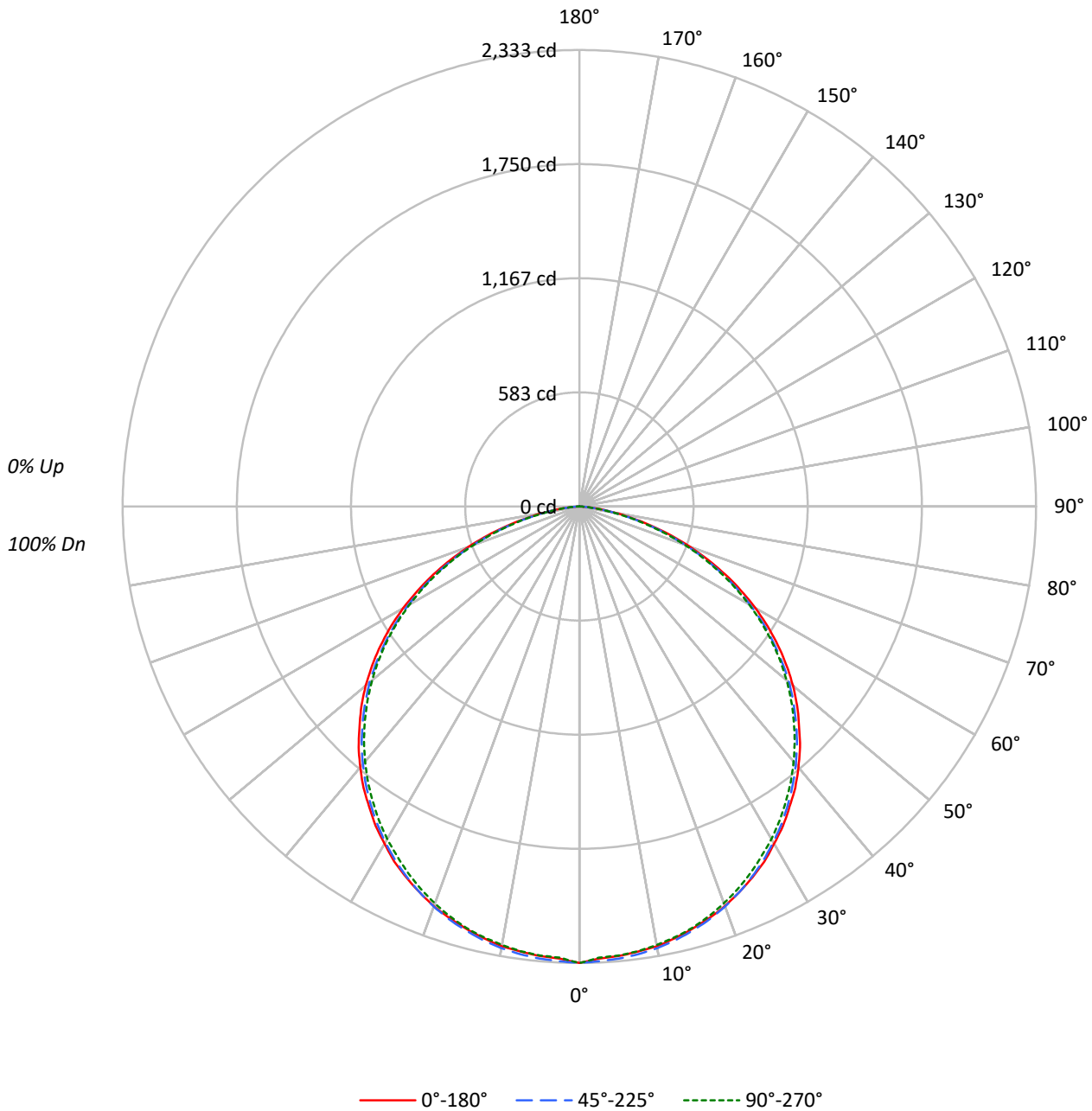
Test Method: LM-79-2019  
Report Number: P973143  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-80HE-L835-CP375  
Description: 1\*4 FLR-2.0 8000 Lumen High Efficacy at 3500CCT & 80CRI with Clear Polycarbonate (0.375" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6530.6 lumens  
Efficiency: N/A  
Efficacy: 105.5 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): 61.9  
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									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			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°	6279	6279	6279
5°	6230	6266	6222
10°	6236	6262	6218
15°	6226	6250	6213
20°	6226	6231	6181
25°	6211	6200	6142
30°	6185	6158	6098
35°	6152	6104	6044
40°	6117	6042	5981
45°	6042	5958	5895
50°	5964	5854	5786
55°	5813	5677	5623
60°	5588	5431	5385
65°	5233	5079	5024
70°	4718	4529	4491
75°	3956	3755	3715
80°	2873	2679	2603
85°	1522	1343	1223

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6042 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.0	3.4
10°-20°	634.7	9.7
20°-30°	964.3	14.8
30°-40°	1166.4	17.9
40°-50°	1212.2	18.6
50°-60°	1085.4	16.6
60°-70°	791.6	12.1
70°-80°	389.8	6.0
80°-90°	65.2	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°	1820.0	27.9
0°-40°	2986.4	45.7
0°-60°	5284.0	80.9
0°-90°	6530.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6530.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2333	2333	2333	2333	2333	
5°	2306	2331	2320	2342	2303	219
15°	2235	2255	2244	2263	2230	631
25°	2092	2102	2088	2098	2069	964
35°	1873	1876	1858	1866	1840	1173
45°	1588	1586	1566	1568	1549	1226
55°	1239	1228	1210	1207	1198	1106
65°	822	812	798	792	789	812
75°	380	374	361	357	357	406
85°	49	47	44	39	40	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2333.3	2333.3	2333.3	2333.3	2333.3
2.5°	2313.0	2339.1	2326.6	2349.7	2308.2
5°	2306.3	2331.4	2319.8	2342.0	2303.4
7.5°	2294.7	2320.8	2308.2	2329.5	2292.8
10°	2282.1	2305.3	2291.8	2313.0	2275.4
12.5°	2259.9	2283.1	2270.5	2289.9	2255.1
15°	2234.8	2255.1	2243.5	2262.8	2230.0
17.5°	2205.8	2225.2	2212.6	2230.0	2197.1
20°	2174.0	2189.4	2175.9	2190.4	2158.5
22.5°	2134.4	2148.9	2134.4	2144.0	2116.0
25°	2091.9	2102.5	2088.0	2097.7	2068.7
27.5°	2046.5	2052.3	2037.8	2045.5	2015.6
30°	1990.5	1997.2	1981.8	1991.4	1962.5
32.5°	1936.4	1940.3	1922.9	1930.6	1904.5
35°	1872.6	1876.5	1858.2	1865.9	1839.8
37.5°	1811.8	1810.8	1791.5	1796.4	1774.1
40°	1741.3	1740.3	1720.1	1723.9	1702.7
42.5°	1668.9	1665.0	1645.7	1647.6	1628.3
45°	1587.7	1585.8	1565.5	1568.4	1549.1
47.5°	1509.5	1503.7	1483.4	1484.4	1468.0
50°	1424.5	1415.8	1398.4	1396.5	1382.0
52.5°	1333.7	1324.1	1304.8	1302.8	1292.2
55°	1239.1	1228.5	1210.1	1207.2	1198.5
57.5°	1141.6	1128.0	1113.5	1107.7	1101.0
60°	1038.2	1025.7	1009.2	1003.4	1000.5
62.5°	931.0	918.5	905.9	900.1	896.2
65°	821.9	812.2	797.7	791.9	789.0
67.5°	710.8	702.1	688.6	681.8	680.9
70°	599.7	591.1	575.6	571.7	570.8
72.5°	488.7	481.0	466.5	462.6	462.6
75°	380.5	373.8	361.2	357.3	357.3
77.5°	278.1	272.3	262.7	257.9	257.9
80°	185.4	181.6	172.9	169.0	168.0
82.5°	107.2	105.3	97.5	93.7	95.6
85°	49.3	47.3	43.5	38.6	39.6
87.5°	12.6	11.6	8.7	6.8	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)