

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: P973138

Luminaire Tested: FLR2-14-80HE-L835-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973138
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-CP250
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 3500CCT & 80CRI with Clear Polycarbonate (0.250" thickness)

Light Source:
Ballast/Driver: -

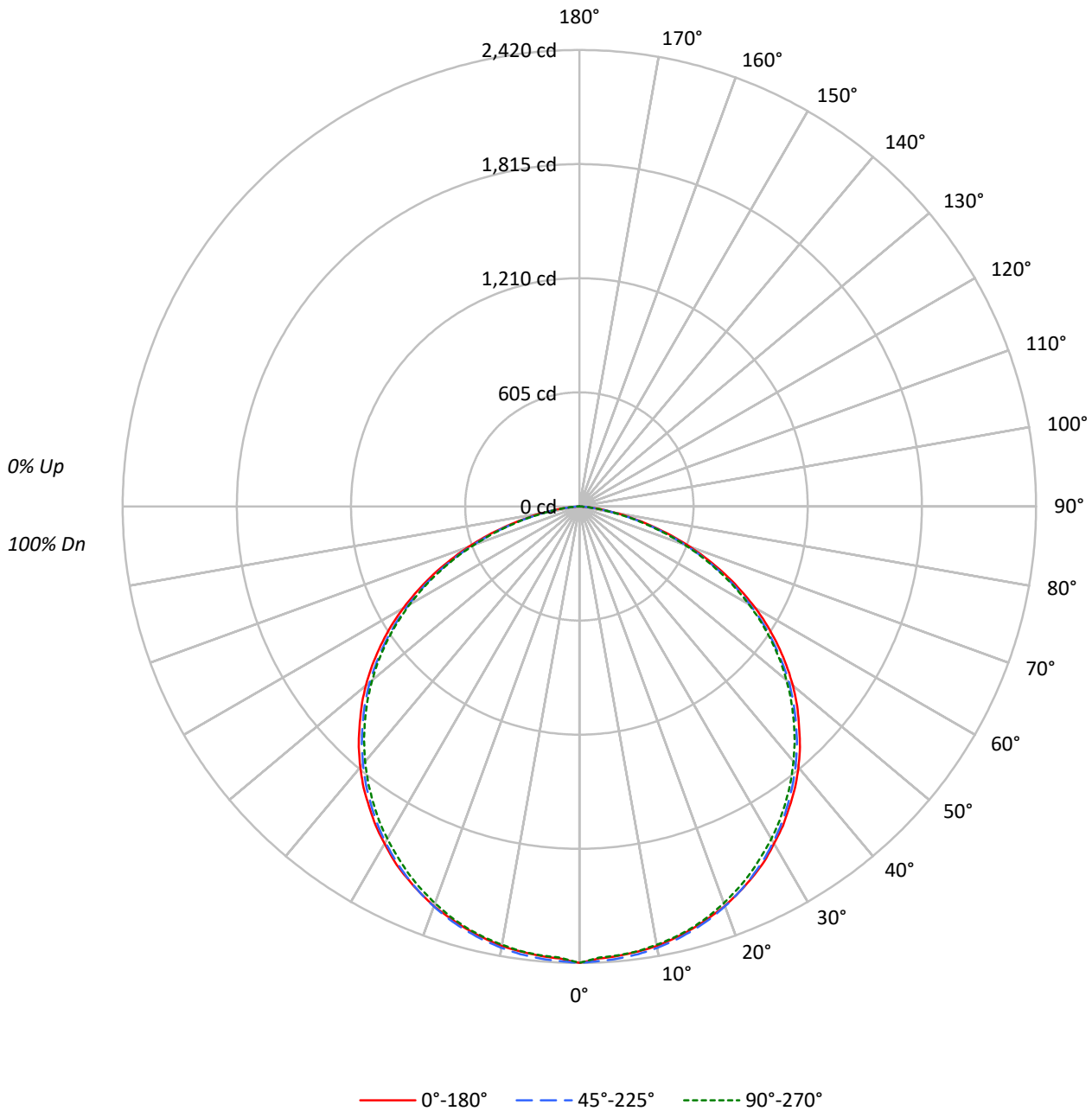
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6772.2 lumens
Efficiency: N/A
Efficacy: 109.4 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

TEST NUMBER: P973138
CATALOG NUMBER: FLR2-14-80HE-L835-CP250

Luminous Intensity Polar Plot





TEST NUMBER: P973138
 CATALOG NUMBER: FLR2-14-80HE-L835-CP250

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	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°	6511	6511	6511
5°	6460	6498	6452
10°	6466	6494	6447
15°	6456	6481	6442
20°	6456	6462	6410
25°	6441	6429	6369
30°	6414	6386	6323
35°	6379	6330	6267
40°	6343	6266	6202
45°	6266	6178	6113
50°	6184	6071	6000
55°	6028	5887	5831
60°	5794	5633	5584
65°	5427	5267	5210
70°	4893	4696	4657
75°	4103	3895	3853
80°	2980	2779	2701
85°	1578	1392	1269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6266 cd/sqm



TEST NUMBER: P973138
 CATALOG NUMBER: FLR2-14-80HE-L835-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.2	3.4
10°-20°	658.2	9.7
20°-30°	999.9	14.8
30°-40°	1209.5	17.9
40°-50°	1257.1	18.6
50°-60°	1125.5	16.6
60°-70°	820.9	12.1
70°-80°	404.2	6.0
80°-90°	67.6	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°	1887.3	27.9
0°-40°	3096.8	45.7
0°-60°	5479.4	80.9
0°-90°	6772.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6772.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2420	2420	2420	2420	2420	
5°	2392	2418	2406	2429	2389	228
15°	2318	2338	2326	2346	2312	655
25°	2169	2180	2165	2175	2145	1000
35°	1942	1946	1927	1935	1908	1216
45°	1646	1644	1623	1626	1606	1271
55°	1285	1274	1255	1252	1243	1147
65°	852	842	827	821	818	842
75°	395	388	375	371	371	421
85°	51	49	45	40	41	74
90°	0	0	0	0	0	



TEST NUMBER: P973138
 CATALOG NUMBER: FLR2-14-80HE-L835-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2419.6	2419.6	2419.6	2419.6	2419.6
2.5°	2398.6	2425.6	2412.6	2436.6	2393.6
5°	2391.6	2417.6	2405.6	2428.6	2388.6
7.5°	2379.5	2406.6	2393.6	2415.6	2377.5
10°	2366.5	2390.6	2376.5	2398.6	2359.5
12.5°	2343.5	2367.5	2354.5	2374.5	2338.5
15°	2317.5	2338.5	2326.5	2346.5	2312.4
17.5°	2287.4	2307.4	2294.4	2312.4	2278.4
20°	2254.4	2270.4	2256.4	2271.4	2238.3
22.5°	2213.3	2228.3	2213.3	2223.3	2194.3
25°	2169.2	2180.2	2165.2	2175.2	2145.2
27.5°	2122.2	2128.2	2113.1	2121.2	2090.1
30°	2064.1	2071.1	2055.1	2065.1	2035.0
32.5°	2008.0	2012.0	1994.0	2002.0	1974.9
35°	1941.9	1945.9	1926.9	1934.9	1907.8
37.5°	1878.8	1877.8	1857.8	1862.8	1839.7
40°	1805.7	1804.7	1783.7	1787.7	1765.6
42.5°	1730.6	1726.6	1706.5	1708.5	1688.5
45°	1646.5	1644.5	1623.4	1626.4	1606.4
47.5°	1565.3	1559.3	1538.3	1539.3	1522.3
50°	1477.2	1468.2	1450.2	1448.2	1433.1
52.5°	1383.1	1373.0	1353.0	1351.0	1340.0
55°	1284.9	1273.9	1254.9	1251.9	1242.9
57.5°	1183.8	1169.7	1154.7	1148.7	1141.7
60°	1076.6	1063.6	1046.6	1040.6	1037.5
62.5°	965.4	952.4	939.4	933.4	929.4
65°	852.3	842.3	827.2	821.2	818.2
67.5°	737.1	728.1	714.1	707.1	706.1
70°	621.9	612.9	596.9	592.9	591.9
72.5°	506.8	498.7	483.7	479.7	479.7
75°	394.6	387.6	374.6	370.6	370.6
77.5°	288.4	282.4	272.4	267.4	267.4
80°	192.3	188.3	179.3	175.3	174.3
82.5°	111.2	109.2	101.2	97.1	99.1
85°	51.1	49.1	45.1	40.1	41.1
87.5°	13.0	12.0	9.0	7.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)