

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: P973153

Luminaire Tested: FLR2-14-80HE-L835-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973153
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-CA125
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 3500CCT & 80CRI with Clear Aryalic (0.125" thickness)

Light Source:
Ballast/Driver: -

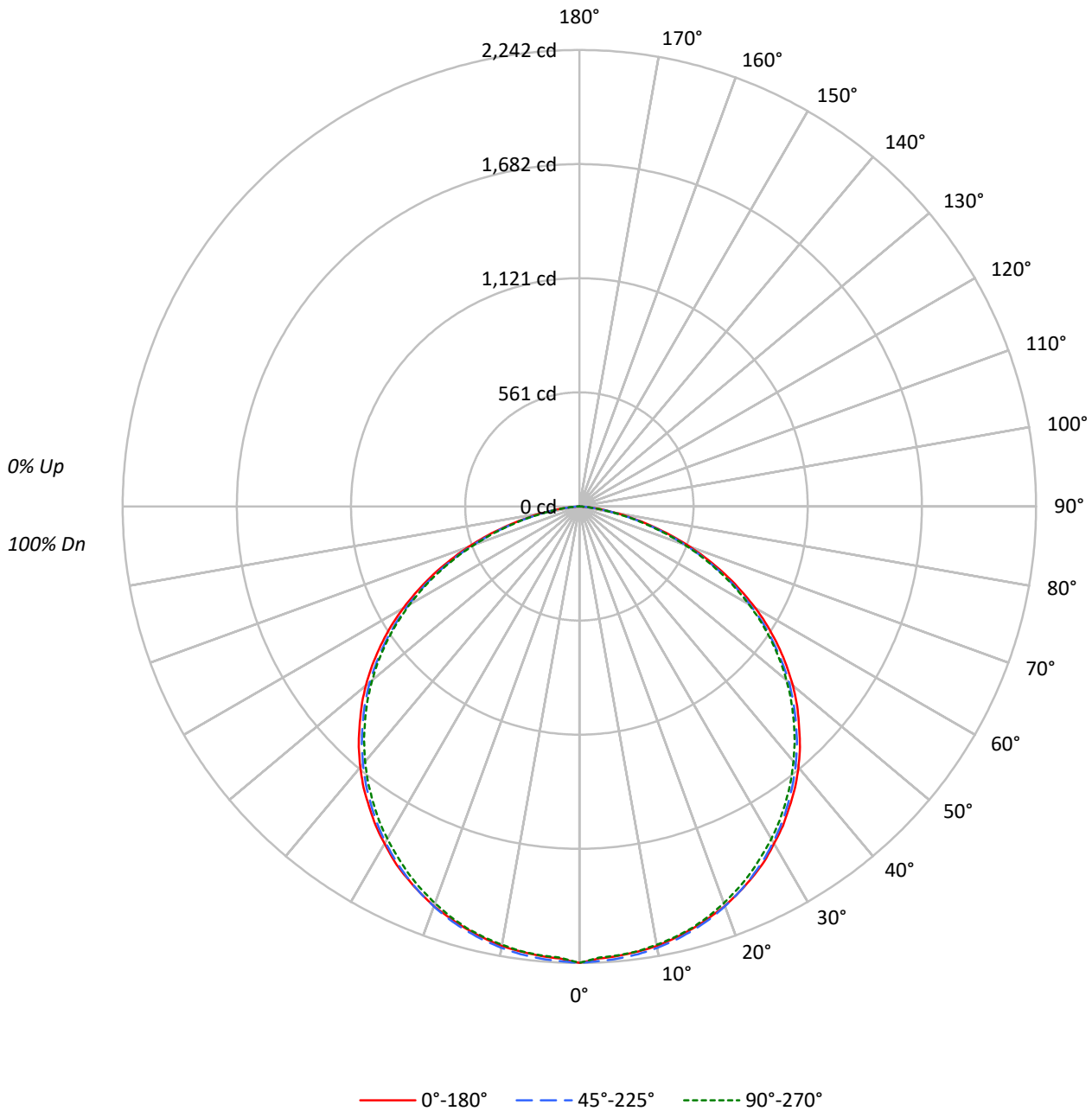
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6274.0 lumens
Efficiency: N/A
Efficacy: 101.4 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

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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	6032	6032	6032
5°	5985	6020	5978
10°	5991	6016	5973
15°	5981	6004	5969
20°	5981	5986	5938
25°	5967	5956	5901
30°	5942	5916	5858
35°	5910	5864	5806
40°	5877	5805	5746
45°	5805	5724	5664
50°	5729	5624	5558
55°	5585	5454	5402
60°	5368	5218	5173
65°	5028	4880	4826
70°	4533	4351	4314
75°	3801	3608	3569
80°	2760	2574	2501
85°	1460	1291	1173

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5805 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.3	3.4
10°-20°	609.8	9.7
20°-30°	926.4	14.8
30°-40°	1120.6	17.9
40°-50°	1164.6	18.6
50°-60°	1042.7	16.6
60°-70°	760.5	12.1
70°-80°	374.5	6.0
80°-90°	62.6	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°	1748.4	27.9
0°-40°	2869.0	45.7
0°-60°	5076.4	80.9
0°-90°	6274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6274.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2242	2242	2242	2242	2242	
5°	2216	2240	2229	2250	2213	211
15°	2147	2166	2155	2174	2142	606
25°	2010	2020	2006	2015	1987	926
35°	1799	1803	1785	1793	1768	1127
45°	1525	1524	1504	1507	1488	1178
55°	1190	1180	1163	1160	1151	1063
65°	790	780	766	761	758	780
75°	366	359	347	343	343	390
85°	47	46	42	37	38	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2241.6	2241.6	2241.6	2241.6	2241.6
2.5°	2222.2	2247.2	2235.1	2257.4	2217.5
5°	2215.7	2239.8	2228.6	2250.0	2212.9
7.5°	2204.5	2229.6	2217.5	2237.9	2202.7
10°	2192.5	2214.7	2201.7	2222.2	2186.0
12.5°	2171.1	2193.4	2181.3	2199.9	2166.5
15°	2147.0	2166.5	2155.3	2173.9	2142.4
17.5°	2119.2	2137.7	2125.7	2142.4	2110.8
20°	2088.5	2103.4	2090.4	2104.3	2073.7
22.5°	2050.5	2064.4	2050.5	2059.8	2032.9
25°	2009.7	2019.9	2006.0	2015.2	1987.4
27.5°	1966.1	1971.6	1957.7	1965.1	1936.4
30°	1912.3	1918.8	1903.9	1913.2	1885.3
32.5°	1860.3	1864.0	1847.3	1854.7	1829.7
35°	1799.1	1802.8	1785.1	1792.6	1767.5
37.5°	1740.6	1739.7	1721.1	1725.8	1704.4
40°	1672.9	1671.9	1652.5	1656.2	1635.8
42.5°	1603.3	1599.6	1581.0	1582.9	1564.3
45°	1525.4	1523.5	1504.0	1506.8	1488.2
47.5°	1450.2	1444.6	1425.1	1426.1	1410.3
50°	1368.5	1360.2	1343.5	1341.6	1327.7
52.5°	1281.3	1272.1	1253.5	1251.6	1241.4
55°	1190.4	1180.2	1162.6	1159.8	1151.4
57.5°	1096.7	1083.7	1069.8	1064.2	1057.7
60°	997.4	985.4	969.6	964.0	961.2
62.5°	894.4	882.4	870.3	864.7	861.0
65°	789.6	780.3	766.4	760.8	758.0
67.5°	682.9	674.5	661.5	655.0	654.1
70°	576.2	567.8	553.0	549.3	548.3
72.5°	469.5	462.1	448.1	444.4	444.4
75°	365.6	359.1	347.0	343.3	343.3
77.5°	267.2	261.6	252.4	247.7	247.7
80°	178.1	174.4	166.1	162.4	161.4
82.5°	103.0	101.1	93.7	90.0	91.9
85°	47.3	45.5	41.8	37.1	38.0
87.5°	12.1	11.1	8.4	6.5	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)