

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: P973323

Luminaire Tested: FLR2-14-80HE-L950-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973323
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-L950-CA080
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 5000CCT & 80 CRI with Clear Aryalic (0.080" thickness)

Light Source:
Ballast/Driver: -

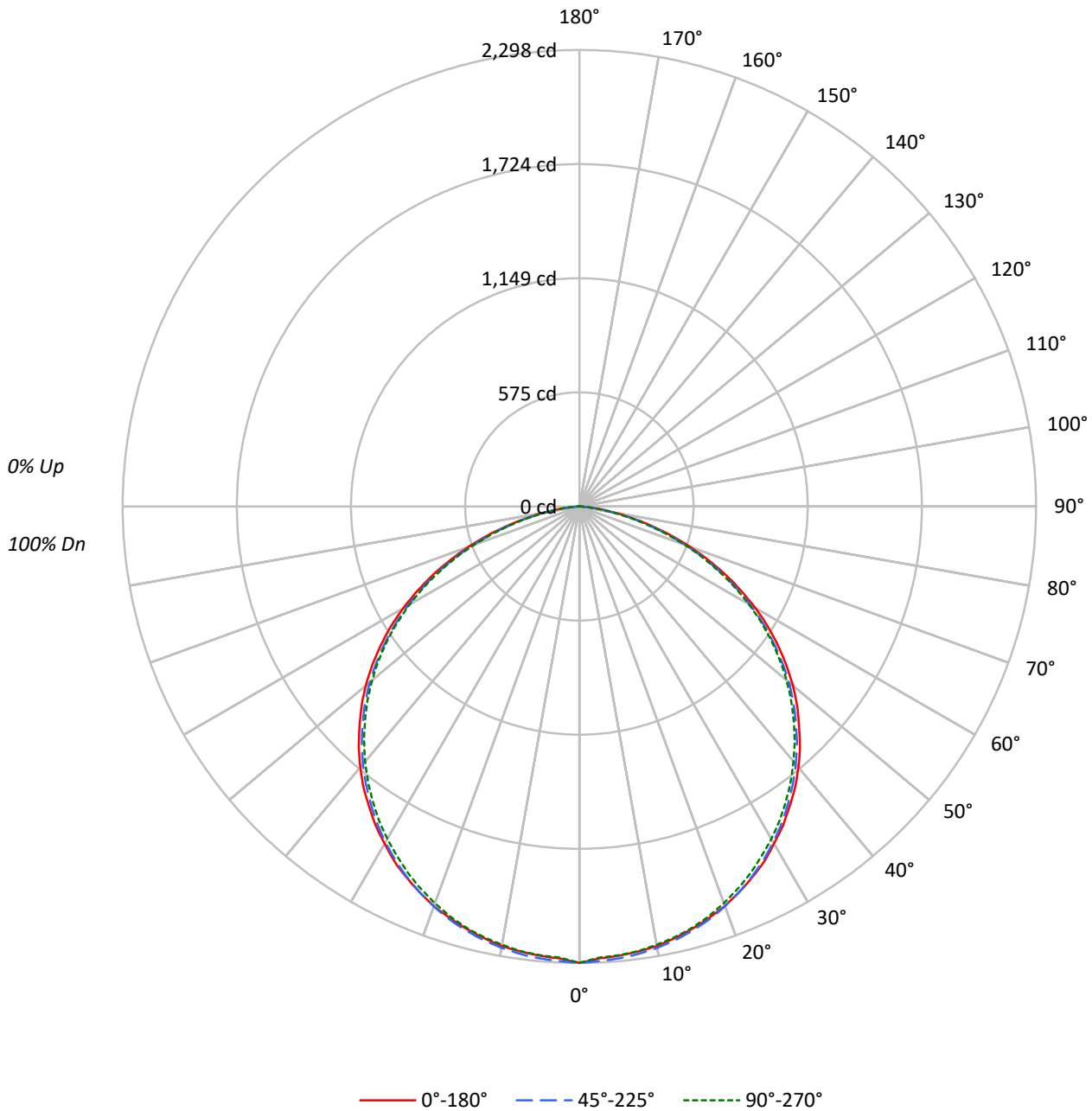
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6430.5 lumens
Efficiency: N/A
Efficacy: 103.9 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): 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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	6183	6183	6183
5°	6134	6170	6127
10°	6140	6166	6122
15°	6130	6154	6117
20°	6130	6135	6086
25°	6116	6105	6048
30°	6090	6064	6004
35°	6057	6011	5951
40°	6023	5950	5890
45°	5950	5866	5805
50°	5872	5765	5697
55°	5724	5590	5537
60°	5502	5349	5302
65°	5153	5002	4947
70°	4647	4460	4422
75°	3896	3698	3659
80°	2830	2638	2565
85°	1497	1321	1204

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5950 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.6	3.4
10°-20°	625.0	9.7
20°-30°	949.5	14.8
30°-40°	1148.5	17.9
40°-50°	1193.7	18.6
50°-60°	1068.7	16.6
60°-70°	779.5	12.1
70°-80°	383.9	6.0
80°-90°	64.2	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°	1792.0	27.9
0°-40°	2940.6	45.7
0°-60°	5203.0	80.9
0°-90°	6430.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6430.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2298	2298	2298	2298	2298	
5°	2271	2296	2284	2306	2268	216
15°	2200	2220	2209	2228	2196	621
25°	2060	2070	2056	2066	2037	950
35°	1844	1848	1830	1837	1812	1155
45°	1563	1562	1542	1544	1525	1207
55°	1220	1210	1192	1189	1180	1089
65°	809	800	786	780	777	799
75°	375	368	356	352	352	399
85°	48	47	43	38	39	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2297.5	2297.5	2297.5	2297.5	2297.5
2.5°	2277.6	2303.2	2290.9	2313.7	2272.8
5°	2270.9	2295.6	2284.2	2306.1	2268.1
7.5°	2259.5	2285.2	2272.8	2293.7	2257.6
10°	2247.1	2270.0	2256.6	2277.6	2240.5
12.5°	2225.3	2248.1	2235.7	2254.7	2220.5
15°	2200.5	2220.5	2209.1	2228.1	2195.8
17.5°	2172.0	2191.0	2178.7	2195.8	2163.4
20°	2140.6	2155.8	2142.5	2156.8	2125.4
22.5°	2101.6	2115.9	2101.6	2111.1	2083.6
25°	2059.8	2070.3	2056.0	2065.5	2037.0
27.5°	2015.1	2020.8	2006.5	2014.1	1984.7
30°	1959.9	1966.6	1951.4	1960.9	1932.4
32.5°	1906.7	1910.5	1893.4	1901.0	1875.3
35°	1843.9	1847.7	1829.7	1837.3	1811.6
37.5°	1784.0	1783.1	1764.0	1768.8	1746.9
40°	1714.6	1713.6	1693.7	1697.5	1676.6
42.5°	1643.3	1639.5	1620.4	1622.3	1603.3
45°	1563.4	1561.5	1541.5	1544.4	1525.4
47.5°	1486.4	1480.7	1460.7	1461.6	1445.5
50°	1402.7	1394.1	1377.0	1375.1	1360.8
52.5°	1313.3	1303.8	1284.8	1282.9	1272.4
55°	1220.1	1209.6	1191.6	1188.7	1180.1
57.5°	1124.0	1110.7	1096.5	1090.8	1084.1
60°	1022.3	1009.9	993.8	988.1	985.2
62.5°	916.7	904.4	892.0	886.3	882.5
65°	809.3	799.8	785.5	779.8	776.9
67.5°	699.9	691.4	678.0	671.4	670.4
70°	590.6	582.0	566.8	563.0	562.0
72.5°	481.2	473.6	459.3	455.5	455.5
75°	374.7	368.0	355.7	351.9	351.9
77.5°	273.9	268.2	258.7	253.9	253.9
80°	182.6	178.8	170.2	166.4	165.5
82.5°	105.6	103.7	96.0	92.2	94.1
85°	48.5	46.6	42.8	38.0	39.0
87.5°	12.4	11.4	8.6	6.7	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)