

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: P973163

Luminaire Tested: FLR2-14-80HE-L935-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973163
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-L935-CP125
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 3500CCT & 90 CRI with Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

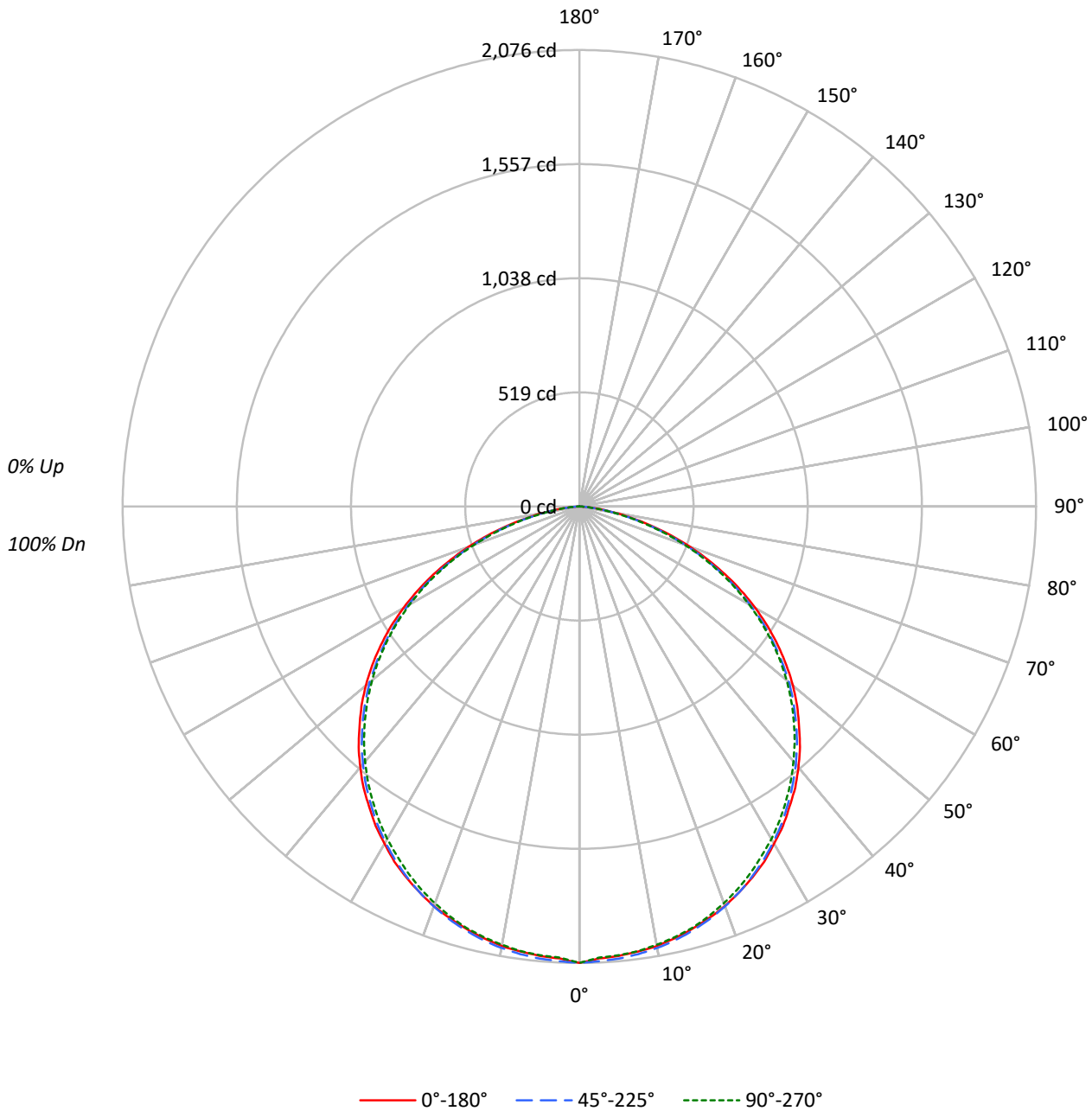
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5810.4 lumens
Efficiency: N/A
Efficacy: 93.9 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										
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	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°	5586	5586	5586
5°	5543	5575	5536
10°	5548	5572	5532
15°	5539	5561	5527
20°	5539	5544	5500
25°	5526	5516	5465
30°	5503	5479	5425
35°	5473	5431	5377
40°	5442	5376	5322
45°	5376	5301	5245
50°	5306	5209	5148
55°	5172	5051	5003
60°	4971	4832	4791
65°	4656	4520	4470
70°	4198	4029	3995
75°	3520	3342	3305
80°	2557	2383	2317
85°	1352	1195	1087

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5376 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.6	3.4
10°-20°	564.7	9.7
20°-30°	857.9	14.8
30°-40°	1037.8	17.9
40°-50°	1078.6	18.6
50°-60°	965.7	16.6
60°-70°	704.3	12.1
70°-80°	346.8	6.0
80°-90°	58.0	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°	1619.2	27.9
0°-40°	2657.0	45.7
0°-60°	4701.2	80.9
0°-90°	5810.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5810.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2076	2076	2076	2076	2076	
5°	2052	2074	2064	2084	2049	195
15°	1988	2006	1996	2013	1984	562
25°	1861	1871	1858	1866	1840	858
35°	1666	1670	1653	1660	1637	1043
45°	1413	1411	1393	1395	1378	1091
55°	1102	1093	1077	1074	1066	984
65°	731	723	710	705	702	722
75°	339	332	321	318	318	361
85°	44	42	39	34	35	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2076.0	2076.0	2076.0	2076.0	2076.0
2.5°	2057.9	2081.1	2070.0	2090.6	2053.6
5°	2051.9	2074.3	2064.0	2083.7	2049.3
7.5°	2041.6	2064.8	2053.6	2072.5	2039.9
10°	2030.4	2051.1	2039.0	2057.9	2024.4
12.5°	2010.7	2031.3	2020.1	2037.3	2006.4
15°	1988.3	2006.4	1996.1	2013.3	1984.0
17.5°	1962.6	1979.7	1968.6	1984.0	1954.8
20°	1934.2	1948.0	1935.9	1948.8	1920.5
22.5°	1899.0	1911.9	1899.0	1907.6	1882.7
25°	1861.2	1870.6	1857.7	1866.3	1840.5
27.5°	1820.8	1825.9	1813.1	1819.9	1793.3
30°	1770.9	1777.0	1763.2	1771.8	1746.0
32.5°	1722.8	1726.3	1710.8	1717.7	1694.5
35°	1666.1	1669.6	1653.2	1660.1	1636.9
37.5°	1612.0	1611.1	1593.9	1598.2	1578.5
40°	1549.3	1548.4	1530.4	1533.8	1514.9
42.5°	1484.8	1481.4	1464.2	1465.9	1448.7
45°	1412.6	1410.9	1392.9	1395.4	1378.3
47.5°	1343.0	1337.9	1319.8	1320.7	1306.1
50°	1267.4	1259.7	1244.2	1242.5	1229.6
52.5°	1186.6	1178.1	1160.9	1159.1	1149.7
55°	1102.4	1093.0	1076.7	1074.1	1066.3
57.5°	1015.7	1003.6	990.7	985.6	979.6
60°	923.7	912.5	897.9	892.8	890.2
62.5°	828.3	817.2	806.0	800.8	797.4
65°	731.2	722.6	709.8	704.6	702.0
67.5°	632.4	624.7	612.7	606.6	605.8
70°	533.6	525.9	512.1	508.7	507.8
72.5°	434.8	427.9	415.0	411.6	411.6
75°	338.6	332.5	321.4	317.9	317.9
77.5°	247.5	242.3	233.7	229.4	229.4
80°	165.0	161.5	153.8	150.4	149.5
82.5°	95.4	93.7	86.8	83.3	85.1
85°	43.8	42.1	38.7	34.4	35.2
87.5°	11.2	10.3	7.7	6.0	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)