

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: P973318

Luminaire Tested: FLR2-14-80HE-L950-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973318
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-CP375
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 5000CCT & 90 CRI with Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

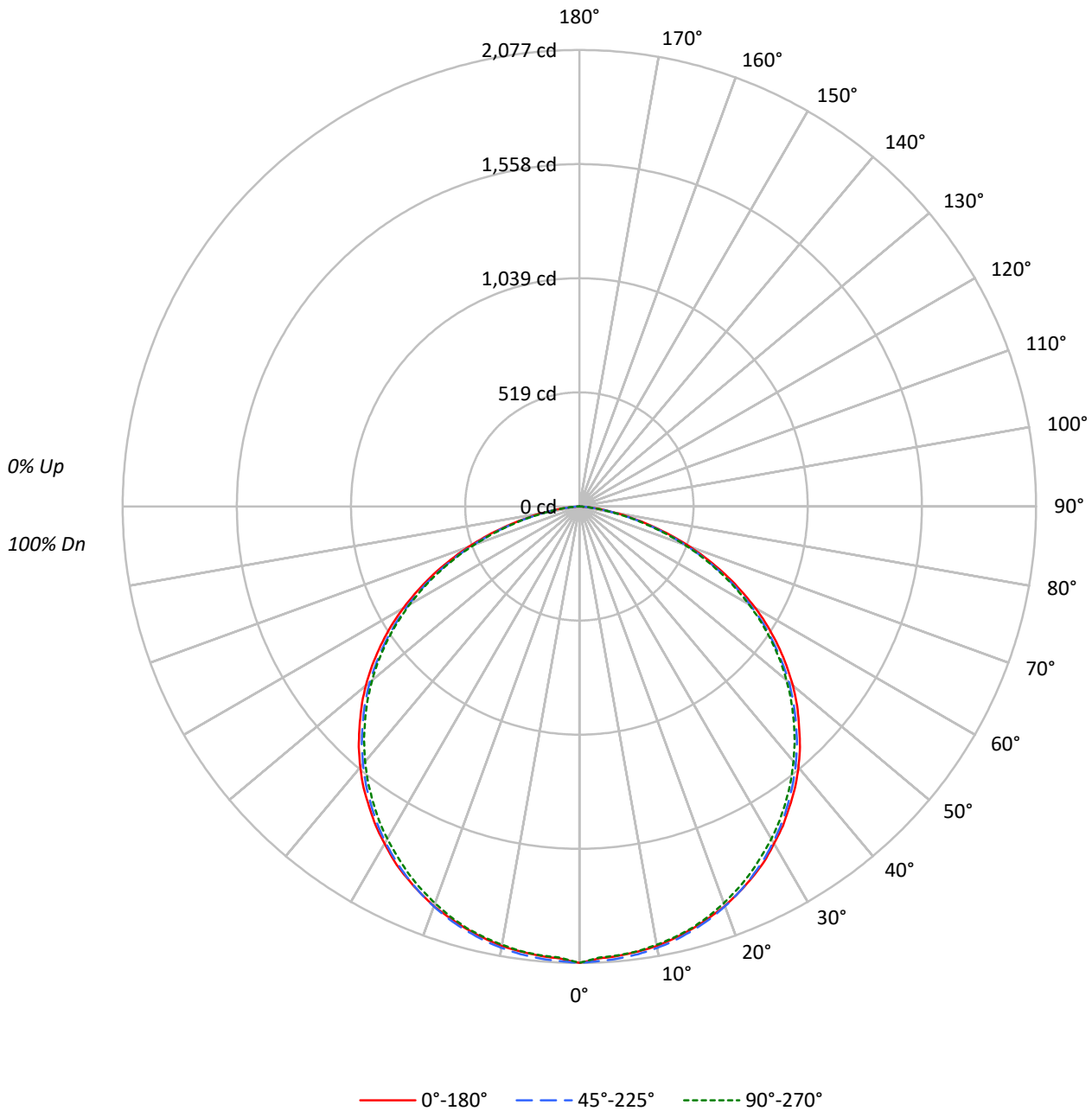
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5812.3 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									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°	5588	5588	5588
5°	5545	5577	5538
10°	5550	5573	5534
15°	5541	5563	5529
20°	5541	5546	5501
25°	5528	5518	5467
30°	5505	5481	5427
35°	5475	5433	5379
40°	5444	5377	5323
45°	5378	5302	5247
50°	5308	5210	5149
55°	5174	5053	5005
60°	4973	4834	4793
65°	4658	4521	4471
70°	4200	4031	3997
75°	3522	3343	3306
80°	2557	2385	2318
85°	1352	1195	1087

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5378 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.7	3.4
10°-20°	564.9	9.7
20°-30°	858.2	14.8
30°-40°	1038.1	17.9
40°-50°	1078.9	18.6
50°-60°	966.0	16.6
60°-70°	704.6	12.1
70°-80°	346.9	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°	1619.8	27.9
0°-40°	2657.9	45.7
0°-60°	4702.7	80.9
0°-90°	5812.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5812.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2077	2077	2077	2077	2077	
5°	2053	2075	2065	2084	2050	195
15°	1989	2007	1997	2014	1985	562
25°	1862	1871	1858	1867	1841	858
35°	1667	1670	1654	1661	1637	1044
45°	1413	1411	1393	1396	1379	1091
55°	1103	1093	1077	1074	1067	984
65°	732	723	710	705	702	723
75°	339	333	322	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°	2076.7	2076.7	2076.7	2076.7	2076.7
2.5°	2058.6	2081.8	2070.6	2091.3	2054.3
5°	2052.6	2074.9	2064.6	2084.4	2050.0
7.5°	2042.3	2065.5	2054.3	2073.2	2040.6
10°	2031.1	2051.7	2039.7	2058.6	2025.1
12.5°	2011.3	2032.0	2020.8	2038.0	2007.0
15°	1989.0	2007.0	1996.7	2013.9	1984.7
17.5°	1963.2	1980.4	1969.2	1984.7	1955.5
20°	1934.8	1948.6	1936.6	1949.4	1921.1
22.5°	1899.6	1912.5	1899.6	1908.2	1883.3
25°	1861.8	1871.2	1858.3	1866.9	1841.1
27.5°	1821.4	1826.5	1813.6	1820.5	1793.9
30°	1771.5	1777.5	1763.8	1772.4	1746.6
32.5°	1723.4	1726.8	1711.4	1718.2	1695.0
35°	1666.7	1670.1	1653.8	1660.6	1637.4
37.5°	1612.5	1611.6	1594.5	1598.8	1579.0
40°	1549.8	1548.9	1530.8	1534.3	1515.4
42.5°	1485.3	1481.9	1464.7	1466.4	1449.2
45°	1413.1	1411.4	1393.3	1395.9	1378.7
47.5°	1343.5	1338.3	1320.3	1321.1	1306.5
50°	1267.8	1260.1	1244.6	1242.9	1230.0
52.5°	1187.0	1178.4	1161.2	1159.5	1150.1
55°	1102.8	1093.3	1077.0	1074.4	1066.7
57.5°	1016.0	1003.9	991.1	985.9	979.9
60°	924.0	912.8	898.2	893.1	890.5
62.5°	828.6	817.4	806.3	801.1	797.7
65°	731.5	722.9	710.0	704.8	702.2
67.5°	632.6	624.9	612.9	606.8	606.0
70°	533.8	526.0	512.3	508.9	508.0
72.5°	434.9	428.1	415.2	411.7	411.7
75°	338.7	332.6	321.5	318.0	318.0
77.5°	247.5	242.4	233.8	229.5	229.5
80°	165.0	161.6	153.9	150.4	149.6
82.5°	95.4	93.7	86.8	83.4	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)