

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: P973243

Luminaire Tested: FLR2-14-80HE-L940-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973243
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-L940-CP250
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 4000CCT & 90 CRI with Clear Polycarbonate (0.250" thickness)

Light Source:
Ballast/Driver: -

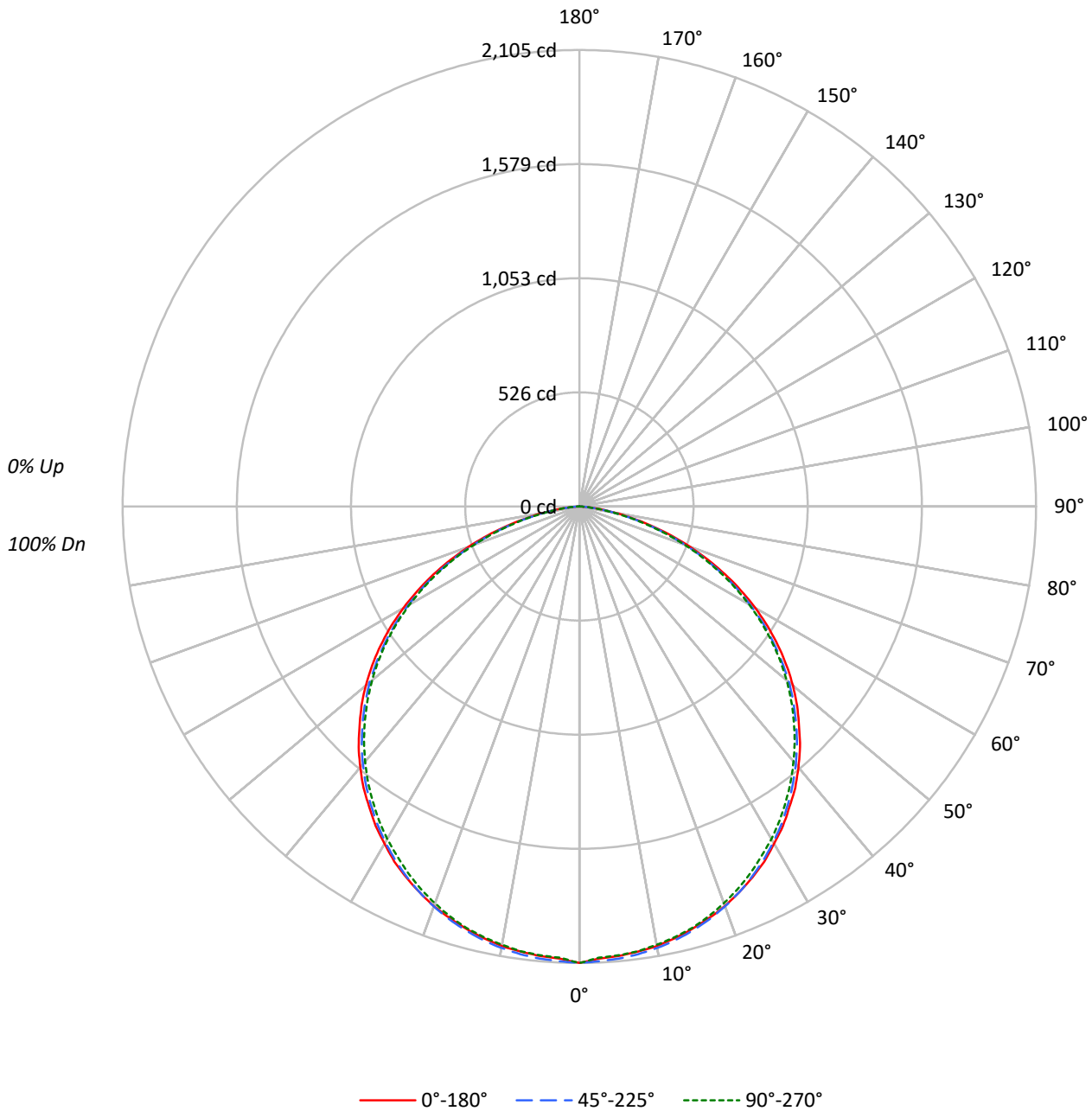
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5891.8 lumens
Efficiency: N/A
Efficacy: 95.2 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: P973243
CATALOG NUMBER: FLR2-14-80HE-L940-CP250

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°	5665	5665	5665
5°	5621	5653	5613
10°	5626	5650	5609
15°	5617	5639	5605
20°	5617	5621	5577
25°	5603	5593	5541
30°	5580	5555	5501
35°	5550	5507	5453
40°	5519	5451	5396
45°	5451	5375	5319
50°	5380	5282	5220
55°	5245	5122	5073
60°	5041	4900	4858
65°	4721	4583	4533
70°	4257	4086	4051
75°	3569	3388	3352
80°	2593	2417	2349
85°	1371	1210	1102

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5451 cd/sqm



TEST NUMBER: P973243
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.4	3.4
10°-20°	572.6	9.7
20°-30°	869.9	14.8
30°-40°	1052.3	17.9
40°-50°	1093.7	18.6
50°-60°	979.2	16.6
60°-70°	714.2	12.1
70°-80°	351.7	6.0
80°-90°	58.8	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°	1641.9	27.9
0°-40°	2694.2	45.7
0°-60°	4767.1	80.9
0°-90°	5891.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5891.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2105	2105	2105	2105	2105	
5°	2081	2103	2093	2113	2078	198
15°	2016	2034	2024	2042	2012	569
25°	1887	1897	1884	1892	1866	870
35°	1689	1693	1676	1683	1660	1058
45°	1432	1431	1412	1415	1398	1106
55°	1118	1108	1092	1089	1081	998
65°	742	733	720	714	712	732
75°	343	337	326	322	322	366
85°	44	43	39	35	36	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2105.1	2105.1	2105.1	2105.1	2105.1
2.5°	2086.8	2110.3	2099.0	2119.9	2082.4
5°	2080.7	2103.3	2092.9	2112.9	2078.0
7.5°	2070.2	2093.7	2082.4	2101.6	2068.5
10°	2058.9	2079.8	2067.6	2086.8	2052.8
12.5°	2038.8	2059.7	2048.4	2065.8	2034.5
15°	2016.2	2034.5	2024.0	2041.5	2011.8
17.5°	1990.0	2007.5	1996.1	2011.8	1982.2
20°	1961.3	1975.2	1963.0	1976.1	1947.4
22.5°	1925.6	1938.6	1925.6	1934.3	1909.0
25°	1887.2	1896.8	1883.7	1892.5	1866.3
27.5°	1846.3	1851.5	1838.4	1845.4	1818.4
30°	1795.7	1801.8	1787.9	1796.6	1770.5
32.5°	1747.0	1750.4	1734.8	1741.7	1718.2
35°	1689.4	1692.9	1676.4	1683.3	1659.8
37.5°	1634.6	1633.7	1616.3	1620.6	1600.6
40°	1571.0	1570.1	1551.8	1555.3	1536.1
42.5°	1505.6	1502.1	1484.7	1486.4	1469.0
45°	1432.4	1430.7	1412.4	1415.0	1397.6
47.5°	1361.8	1356.6	1338.3	1339.2	1324.4
50°	1285.2	1277.3	1261.6	1259.9	1246.8
52.5°	1203.3	1194.6	1177.1	1175.4	1165.8
55°	1117.9	1108.3	1091.7	1089.1	1081.3
57.5°	1029.9	1017.7	1004.6	999.4	993.3
60°	936.6	925.3	910.5	905.3	902.7
62.5°	839.9	828.6	817.3	812.1	808.6
65°	741.5	732.8	719.7	714.5	711.9
67.5°	641.3	633.4	621.2	615.1	614.3
70°	541.1	533.2	519.3	515.8	514.9
72.5°	440.9	433.9	420.8	417.4	417.4
75°	343.3	337.2	325.9	322.4	322.4
77.5°	250.9	245.7	237.0	232.6	232.6
80°	167.3	163.8	156.0	152.5	151.6
82.5°	96.7	95.0	88.0	84.5	86.3
85°	44.4	42.7	39.2	34.9	35.7
87.5°	11.3	10.5	7.8	6.1	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)