

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: P973233

Luminaire Tested: FLR2-14-80HE-L940-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973233
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-CP125
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 4000CCT & 90 CRI with Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

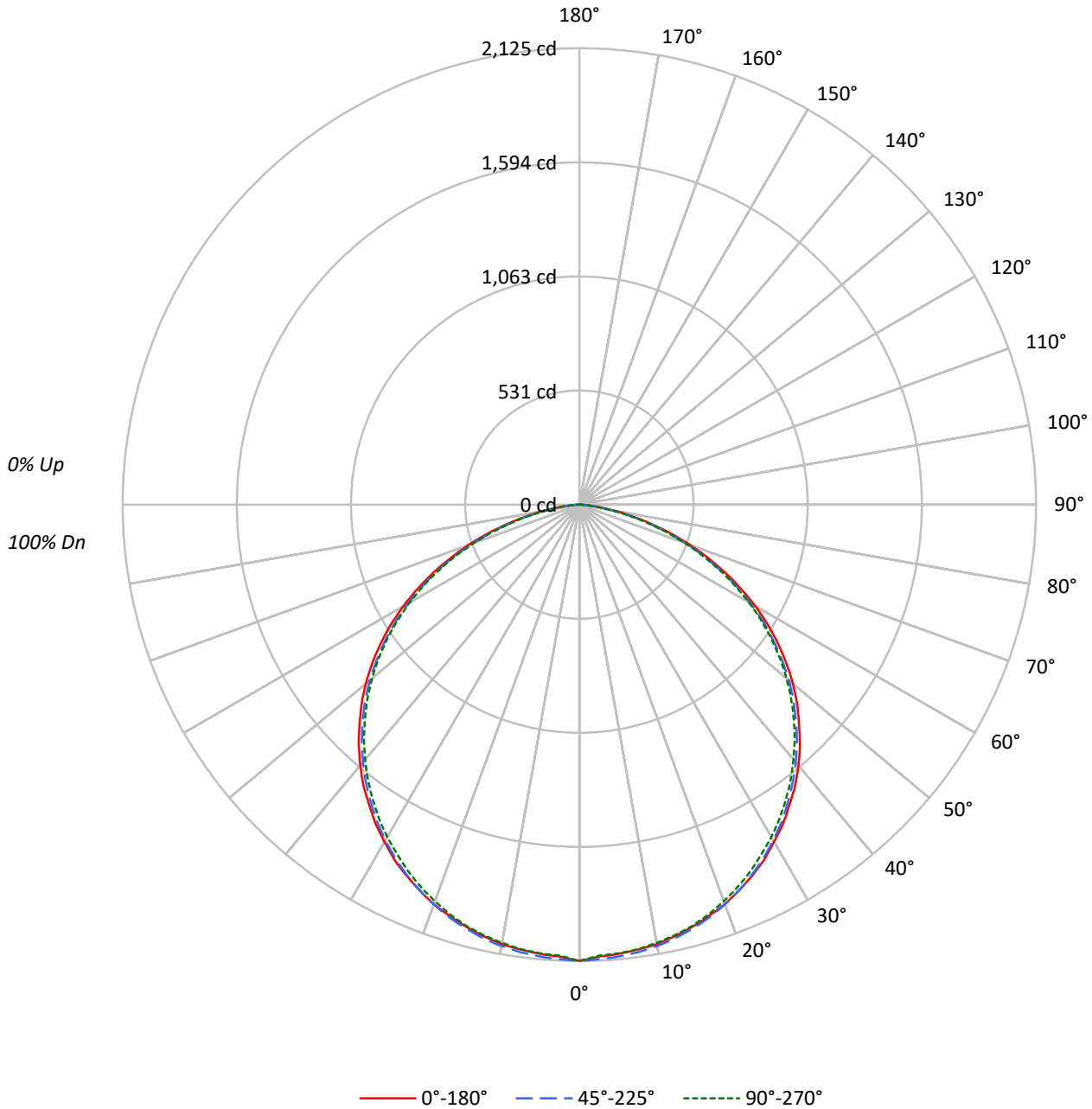
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5947.1 lumens
Efficiency: N/A
Efficacy: 96.1 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°	5718	5718	5718
5°	5673	5706	5666
10°	5679	5703	5662
15°	5670	5692	5657
20°	5669	5674	5629
25°	5656	5646	5594
30°	5632	5608	5553
35°	5602	5559	5504
40°	5570	5502	5447
45°	5503	5425	5369
50°	5431	5331	5269
55°	5294	5170	5120
60°	5088	4947	4904
65°	4765	4626	4575
70°	4297	4124	4090
75°	3603	3420	3383
80°	2617	2439	2371
85°	1386	1223	1115

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5503 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.3	3.4
10°-20°	578.0	9.7
20°-30°	878.1	14.8
30°-40°	1062.2	17.9
40°-50°	1103.9	18.6
50°-60°	988.4	16.6
60°-70°	720.9	12.1
70°-80°	355.0	6.0
80°-90°	59.4	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°	1657.3	27.9
0°-40°	2719.5	45.7
0°-60°	4811.8	80.9
0°-90°	5947.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5947.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2125	2125	2125	2125	2125	
5°	2100	2123	2112	2133	2098	200
15°	2035	2054	2043	2061	2031	575
25°	1905	1915	1901	1910	1884	878
35°	1705	1709	1692	1699	1675	1068
45°	1446	1444	1426	1428	1411	1116
55°	1128	1119	1102	1099	1091	1007
65°	748	740	726	721	718	739
75°	346	340	329	325	325	369
85°	45	43	40	35	36	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2124.8	2124.8	2124.8	2124.8	2124.8
2.5°	2106.4	2130.1	2118.7	2139.8	2102.0
5°	2100.2	2123.1	2112.5	2132.7	2097.6
7.5°	2089.7	2113.4	2102.0	2121.3	2087.9
10°	2078.2	2099.3	2087.0	2106.4	2072.1
12.5°	2058.0	2079.1	2067.7	2085.3	2053.6
15°	2035.1	2053.6	2043.0	2060.6	2030.7
17.5°	2008.7	2026.3	2014.9	2030.7	2000.8
20°	1979.7	1993.8	1981.5	1994.7	1965.6
22.5°	1943.7	1956.9	1943.7	1952.5	1926.9
25°	1905.0	1914.6	1901.4	1910.2	1883.9
27.5°	1863.6	1868.9	1855.7	1862.7	1835.5
30°	1812.6	1818.8	1804.7	1813.5	1787.1
32.5°	1763.4	1766.9	1751.1	1758.1	1734.3
35°	1705.3	1708.8	1692.1	1699.2	1675.4
37.5°	1649.9	1649.0	1631.4	1635.8	1615.6
40°	1585.7	1584.8	1566.4	1569.9	1550.5
42.5°	1519.7	1516.2	1498.6	1500.4	1482.8
45°	1445.9	1444.1	1425.6	1428.3	1410.7
47.5°	1374.6	1369.4	1350.9	1351.8	1336.8
50°	1297.2	1289.3	1273.5	1271.7	1258.5
52.5°	1214.6	1205.8	1188.2	1186.4	1176.7
55°	1128.4	1118.7	1102.0	1099.4	1091.4
57.5°	1039.5	1027.2	1014.0	1008.8	1002.6
60°	945.4	934.0	919.1	913.8	911.1
62.5°	847.8	836.4	825.0	819.7	816.2
65°	748.4	739.6	726.5	721.2	718.5
67.5°	647.3	639.4	627.1	620.9	620.0
70°	546.2	538.2	524.2	520.7	519.8
72.5°	445.0	438.0	424.8	421.3	421.3
75°	346.5	340.4	328.9	325.4	325.4
77.5°	253.3	248.0	239.2	234.8	234.8
80°	168.9	165.3	157.4	153.9	153.0
82.5°	97.6	95.9	88.8	85.3	87.1
85°	44.9	43.1	39.6	35.2	36.1
87.5°	11.4	10.6	7.9	6.2	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)