

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: P973258

Luminaire Tested: FLR2-14-80HE-L940-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973258
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-CA125
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 4000CCT & 90 CRI with Clear Aryalic (0.125" thickness)

Light Source:
Ballast/Driver: -

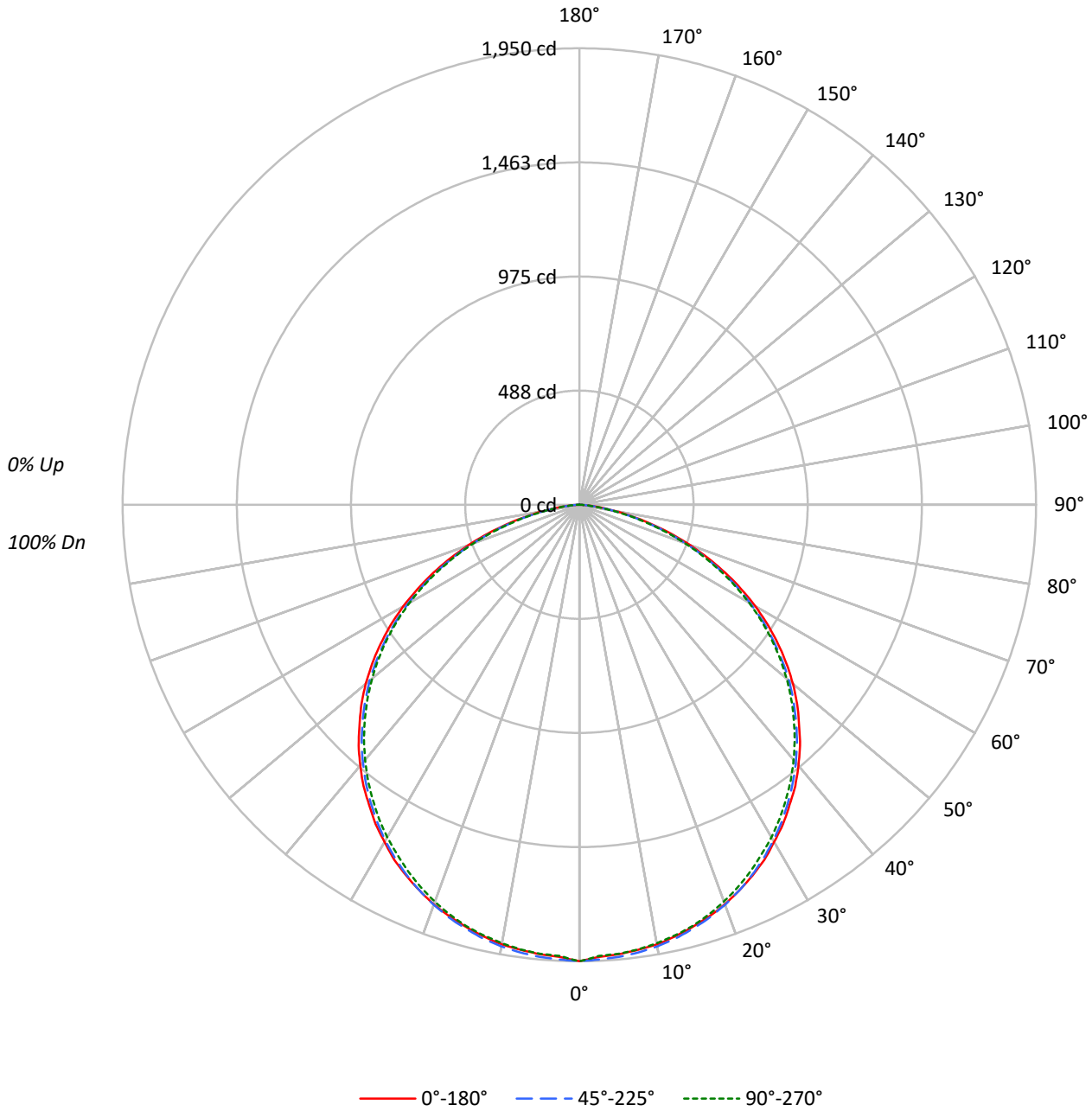
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5458.4 lumens
Efficiency: N/A
Efficacy: 88.2 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

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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°	5248	5248	5248
5°	5207	5237	5200
10°	5212	5234	5197
15°	5204	5224	5193
20°	5203	5208	5166
25°	5191	5182	5134
30°	5170	5147	5097
35°	5142	5102	5051
40°	5113	5050	4999
45°	5050	4980	4928
50°	4984	4893	4836
55°	4859	4745	4700
60°	4670	4540	4501
65°	4374	4246	4199
70°	3944	3785	3754
75°	3306	3139	3106
80°	2402	2239	2177
85°	1272	1121	1022

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5050 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.7	3.4
10°-20°	530.5	9.7
20°-30°	805.9	14.8
30°-40°	974.9	17.9
40°-50°	1013.2	18.6
50°-60°	907.2	16.6
60°-70°	661.7	12.1
70°-80°	325.8	6.0
80°-90°	54.5	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°	1521.1	27.9
0°-40°	2496.0	45.7
0°-60°	4416.4	80.9
0°-90°	5458.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5458.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1950	1950	1950	1950	1950	
5°	1928	1949	1939	1958	1925	183
15°	1868	1885	1875	1891	1864	528
25°	1748	1757	1745	1753	1729	806
35°	1565	1568	1553	1560	1538	980
45°	1327	1325	1308	1311	1295	1025
55°	1036	1027	1011	1009	1002	924
65°	687	679	667	662	660	679
75°	318	312	302	299	299	339
85°	41	40	36	32	33	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1950.2	1950.2	1950.2	1950.2	1950.2
2.5°	1933.3	1955.1	1944.6	1963.9	1929.2
5°	1927.6	1948.6	1938.9	1957.5	1925.2
7.5°	1917.9	1939.7	1929.2	1947.0	1916.3
10°	1907.4	1926.8	1915.5	1933.3	1901.8
12.5°	1888.9	1908.2	1897.8	1913.9	1884.8
15°	1867.9	1884.8	1875.2	1891.3	1863.9
17.5°	1843.7	1859.8	1849.3	1863.9	1836.4
20°	1817.0	1829.9	1818.6	1830.8	1804.1
22.5°	1783.9	1796.0	1783.9	1792.0	1768.6
25°	1748.4	1757.3	1745.2	1753.3	1729.0
27.5°	1710.5	1715.3	1703.2	1709.7	1684.7
30°	1663.7	1669.3	1656.4	1664.5	1640.3
32.5°	1618.5	1621.7	1607.2	1613.6	1591.8
35°	1565.2	1568.4	1553.1	1559.5	1537.7
37.5°	1514.3	1513.5	1497.4	1501.4	1482.8
40°	1455.4	1454.6	1437.6	1440.9	1423.1
42.5°	1394.9	1391.6	1375.5	1377.1	1361.0
45°	1327.1	1325.4	1308.5	1310.9	1294.8
47.5°	1261.7	1256.8	1239.9	1240.7	1227.0
50°	1190.6	1183.4	1168.8	1167.2	1155.1
52.5°	1114.8	1106.7	1090.5	1088.9	1080.0
55°	1035.7	1026.8	1011.4	1009.0	1001.7
57.5°	954.1	942.8	930.7	925.9	920.2
60°	867.8	857.3	843.5	838.7	836.3
62.5°	778.2	767.7	757.2	752.3	749.1
65°	686.9	678.9	666.8	661.9	659.5
67.5°	594.1	586.8	575.5	569.9	569.1
70°	501.3	494.0	481.1	477.9	477.1
72.5°	408.4	402.0	389.9	386.7	386.7
75°	318.0	312.4	301.9	298.7	298.7
77.5°	232.5	227.6	219.6	215.5	215.5
80°	155.0	151.8	144.5	141.3	140.5
82.5°	89.6	88.0	81.5	78.3	79.9
85°	41.2	39.6	36.3	32.3	33.1
87.5°	10.5	9.7	7.3	5.7	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)