

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: P974931

Luminaire Tested: FLR2-24-80HE-L940-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-80HE-L940-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

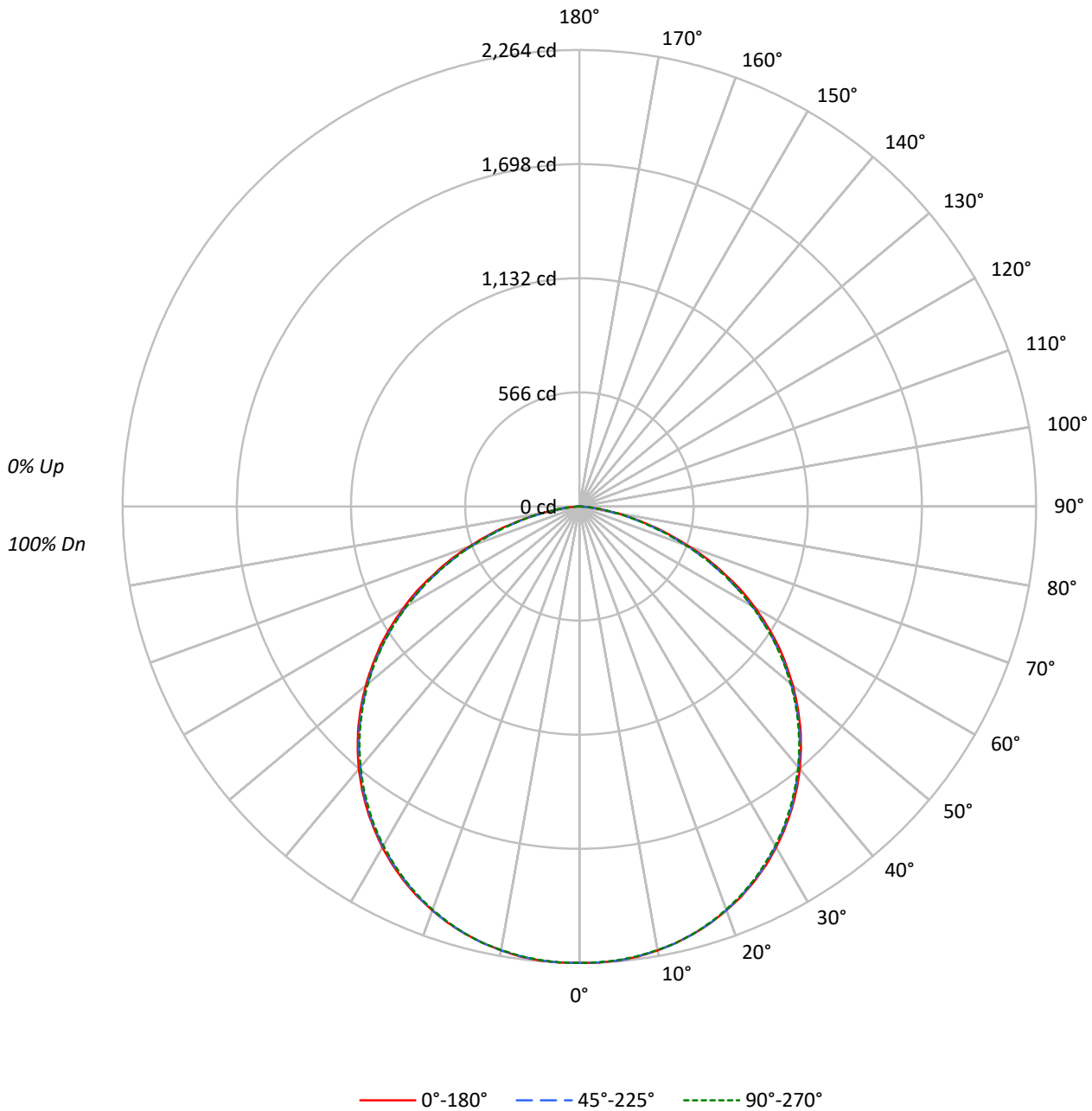
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6399.4 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 63.5
Input Voltage (V):
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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	89	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	57	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44						44														
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38						38														
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	39	33	29	27						27														
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3046	3046	3046
5°	3053	3053	3051
10°	3055	3054	3052
15°	3056	3054	3054
20°	3052	3051	3047
25°	3047	3041	3036
30°	3033	3024	3018
35°	3013	3005	2995
40°	2987	2968	2964
45°	2948	2931	2922
50°	2893	2871	2862
55°	2824	2784	2780
60°	2707	2658	2658
65°	2532	2473	2480
70°	2279	2209	2202
75°	1913	1837	1829
80°	1398	1328	1385
85°	790	727	739

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2948 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.9	3.4
10°-20°	619.2	9.7
20°-30°	944.0	14.8
30°-40°	1143.7	17.9
40°-50°	1188.1	18.6
50°-60°	1062.8	16.6
60°-70°	774.6	12.1
70°-80°	383.6	6.0
80°-90°	68.6	1.1
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°	1778.1	27.8
0°-40°	2921.8	45.7
0°-60°	5172.7	80.8
0°-90°	6399.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6399.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2264	2264	2264	2264	2264	
5°	2260	2261	2260	2260	2259	215
15°	2194	2193	2193	2194	2193	619
25°	2052	2050	2048	2047	2045	946
35°	1834	1832	1830	1826	1823	1147
45°	1549	1546	1540	1537	1536	1194
55°	1204	1195	1187	1187	1185	1073
65°	795	789	777	780	779	789
75°	368	362	353	360	352	392
85°	51	47	47	48	48	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2264.2	2264.2	2264.2	2264.2	2264.2
2.5°	2264.2	2263.4	2263.4	2264.2	2262.6
5°	2260.2	2261.0	2260.2	2260.2	2258.6
7.5°	2251.2	2250.4	2249.6	2250.4	2248.0
10°	2235.8	2235.8	2235.0	2235.8	2234.2
12.5°	2217.1	2217.1	2217.1	2217.9	2217.1
15°	2193.6	2192.8	2192.8	2194.4	2192.8
17.5°	2165.9	2165.1	2165.1	2164.3	2162.7
20°	2131.8	2131.8	2131.0	2130.2	2127.8
22.5°	2095.3	2094.4	2092.0	2092.0	2088.8
25°	2052.2	2049.8	2048.1	2047.3	2044.9
27.5°	2005.1	2001.8	1999.4	1997.8	1995.3
30°	1952.3	1949.0	1946.6	1944.1	1942.5
32.5°	1895.4	1893.8	1889.7	1888.9	1885.7
35°	1834.5	1832.0	1829.6	1826.3	1823.1
37.5°	1769.5	1767.0	1761.4	1759.7	1757.3
40°	1700.4	1697.2	1689.9	1689.9	1687.4
42.5°	1626.5	1623.2	1618.4	1615.1	1613.5
45°	1549.3	1546.1	1540.4	1537.1	1535.5
47.5°	1467.3	1464.8	1458.3	1455.9	1453.4
50°	1381.9	1378.7	1371.4	1369.8	1367.3
52.5°	1292.6	1291.0	1281.2	1280.4	1278.0
55°	1204.0	1195.1	1187.0	1187.0	1185.3
57.5°	1106.5	1100.0	1089.5	1089.5	1087.8
60°	1005.8	1000.1	987.9	989.5	987.9
62.5°	907.5	895.3	883.9	888.8	884.7
65°	795.4	788.9	776.7	779.9	779.1
67.5°	693.0	680.8	669.4	675.9	672.7
70°	579.3	572.8	561.4	567.9	559.8
72.5°	472.0	466.3	455.0	462.3	454.1
75°	368.0	362.3	353.4	359.9	351.8
77.5°	269.7	265.7	257.5	264.0	265.7
80°	180.4	175.5	171.4	177.1	178.7
82.5°	105.6	102.4	100.7	101.6	105.6
85°	51.2	47.1	47.1	47.9	47.9
87.5°	13.8	12.2	13.8	14.6	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)