

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: P974264

Luminaire Tested: FLR2-24-72-L935-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974264
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: FLR2-24-72-L935-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L935-CP375
Ballast/Driver: -

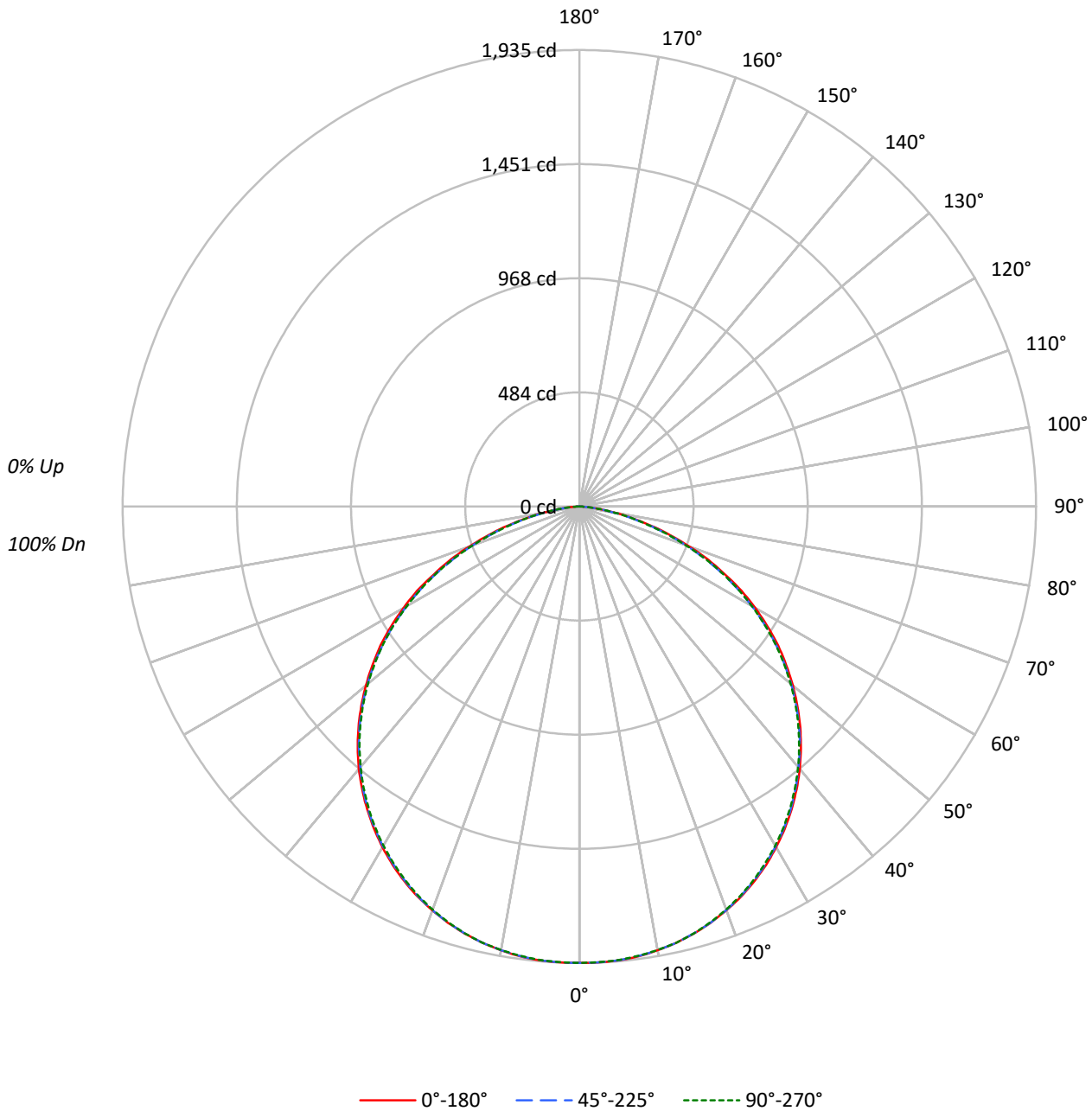
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5468.7 lumens
Efficiency: N/A
Efficacy: 89.8 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): 60.9
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	100	100	100	100	100														
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85	85	85	85	85	85	85														
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71	71	71	71	71	71	71														
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60	60	60	60	60	60	60														
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51	51	51	51	51	51	51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	44	44	44	44	44	44														
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38	38	38	38	38	38	38														
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34	34	34	34	34	34	34														
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30	30	30	30	30	30	30														
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27	27	27	27	27	27	27														
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25	25	25	25	25	25	25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2603	2603	2603
5°	2609	2609	2607
10°	2610	2609	2608
15°	2611	2610	2610
20°	2609	2608	2604
25°	2604	2598	2594
30°	2592	2584	2579
35°	2575	2568	2559
40°	2552	2536	2533
45°	2519	2505	2497
50°	2472	2453	2446
55°	2414	2379	2376
60°	2313	2272	2272
65°	2164	2113	2120
70°	1947	1887	1882
75°	1635	1570	1563
80°	1194	1135	1183
85°	675	622	633

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2519 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.7	3.4
10°-20°	529.1	9.7
20°-30°	806.7	14.8
30°-40°	977.4	17.9
40°-50°	1015.3	18.6
50°-60°	908.2	16.6
60°-70°	661.9	12.1
70°-80°	327.8	6.0
80°-90°	58.6	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°	1519.5	27.8
0°-40°	2496.9	45.7
0°-60°	4420.3	80.8
0°-90°	5468.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5468.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1935	1935	1935	1935	1935	
5°	1932	1932	1932	1932	1930	184
15°	1874	1874	1874	1875	1874	529
25°	1754	1752	1750	1750	1748	808
35°	1568	1566	1564	1561	1558	981
45°	1324	1321	1316	1314	1312	1020
55°	1029	1021	1014	1014	1013	917
65°	680	674	664	666	666	674
75°	314	310	302	308	301	335
85°	44	40	40	41	41	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1934.9	1934.9	1934.9	1934.9	1934.9
2.5°	1934.9	1934.2	1934.2	1934.9	1933.5
5°	1931.5	1932.1	1931.5	1931.5	1930.1
7.5°	1923.8	1923.1	1922.4	1923.1	1921.0
10°	1910.6	1910.6	1909.9	1910.6	1909.2
12.5°	1894.7	1894.7	1894.7	1895.3	1894.7
15°	1874.5	1873.8	1873.8	1875.2	1873.8
17.5°	1850.9	1850.2	1850.2	1849.5	1848.1
20°	1821.8	1821.8	1821.1	1820.4	1818.3
22.5°	1790.5	1789.8	1787.7	1787.7	1785.0
25°	1753.7	1751.6	1750.2	1749.6	1747.5
27.5°	1713.5	1710.7	1708.6	1707.2	1705.1
30°	1668.3	1665.5	1663.5	1661.4	1660.0
32.5°	1619.7	1618.3	1614.9	1614.2	1611.4
35°	1567.7	1565.6	1563.5	1560.7	1557.9
37.5°	1512.1	1510.0	1505.2	1503.8	1501.7
40°	1453.1	1450.3	1444.1	1444.1	1442.0
42.5°	1389.9	1387.1	1383.0	1380.2	1378.8
45°	1324.0	1321.2	1316.3	1313.6	1312.2
47.5°	1253.8	1251.8	1246.2	1244.1	1242.0
50°	1180.9	1178.2	1171.9	1170.5	1168.5
52.5°	1104.6	1103.2	1094.9	1094.2	1092.1
55°	1028.9	1021.3	1014.3	1014.3	1012.9
57.5°	945.6	940.0	931.0	931.0	929.6
60°	859.5	854.6	844.2	845.6	844.2
62.5°	775.5	765.1	755.4	759.5	756.1
65°	679.7	674.1	663.7	666.5	665.8
67.5°	592.2	581.8	572.1	577.6	574.9
70°	495.0	489.5	479.7	485.3	478.4
72.5°	403.4	398.5	388.8	395.0	388.1
75°	314.5	309.6	302.0	307.6	300.6
77.5°	230.5	227.0	220.1	225.6	227.0
80°	154.1	150.0	146.5	151.4	152.7
82.5°	90.3	87.5	86.1	86.8	90.3
85°	43.7	40.3	40.3	41.0	41.0
87.5°	11.8	10.4	11.8	12.5	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)