

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: P974343

Luminaire Tested: FLR2-24-65-L940-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974343
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: FLR2-24-65-L940-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L940-CP080
Ballast/Driver: -

Summary

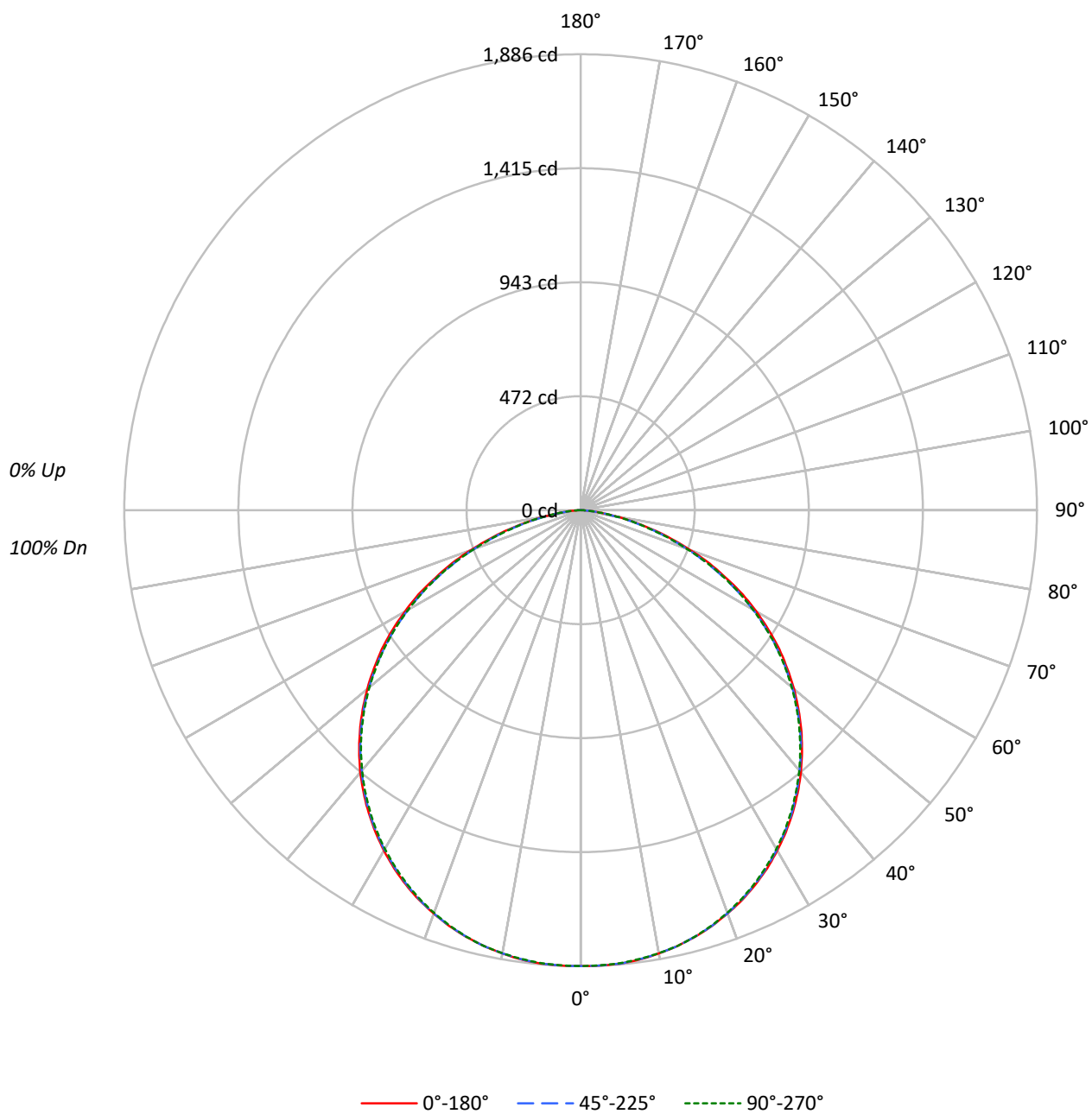
Lumens per Lamp: N/A
Luminaire Lumens: 5330.2 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
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					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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°	2537	2537	2537
5°	2543	2543	2541
10°	2544	2543	2542
15°	2545	2544	2544
20°	2542	2542	2538
25°	2538	2533	2529
30°	2526	2519	2514
35°	2510	2503	2494
40°	2488	2472	2469
45°	2455	2441	2434
50°	2409	2391	2384
55°	2353	2319	2316
60°	2254	2214	2214
65°	2109	2060	2066
70°	1898	1840	1834
75°	1593	1530	1523
80°	1164	1106	1154
85°	658	605	616

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2455 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	3.4
10°-20°	515.7	9.7
20°-30°	786.3	14.8
30°-40°	952.7	17.9
40°-50°	989.5	18.6
50°-60°	885.2	16.6
60°-70°	645.2	12.1
70°-80°	319.5	6.0
80°-90°	57.1	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°	1481.0	27.8
0°-40°	2433.7	45.7
0°-60°	4308.4	80.8
0°-90°	5330.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5330.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1886	1886	1886	1886	1886	
5°	1883	1883	1883	1883	1881	179
15°	1827	1826	1826	1828	1826	516
25°	1709	1707	1706	1705	1703	788
35°	1528	1526	1524	1521	1518	956
45°	1290	1288	1283	1280	1279	994
55°	1003	995	989	989	987	894
65°	662	657	647	650	649	657
75°	306	302	294	300	293	327
85°	43	39	39	40	40	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1885.9	1885.9	1885.9	1885.9	1885.9
2.5°	1885.9	1885.3	1885.3	1885.9	1884.6
5°	1882.6	1883.2	1882.6	1882.6	1881.2
7.5°	1875.1	1874.4	1873.8	1874.4	1872.4
10°	1862.3	1862.3	1861.6	1862.3	1860.9
12.5°	1846.7	1846.7	1846.7	1847.4	1846.7
15°	1827.1	1826.4	1826.4	1827.7	1826.4
17.5°	1804.1	1803.4	1803.4	1802.7	1801.4
20°	1775.6	1775.6	1775.0	1774.3	1772.3
22.5°	1745.2	1744.5	1742.5	1742.5	1739.8
25°	1709.3	1707.3	1705.9	1705.3	1703.2
27.5°	1670.1	1667.4	1665.3	1664.0	1662.0
30°	1626.1	1623.4	1621.4	1619.3	1618.0
32.5°	1578.7	1577.4	1574.0	1573.3	1570.6
35°	1528.0	1525.9	1523.9	1521.2	1518.5
37.5°	1473.8	1471.8	1467.1	1465.7	1463.7
40°	1416.3	1413.6	1407.5	1407.5	1405.5
42.5°	1354.7	1352.0	1348.0	1345.3	1343.9
45°	1290.4	1287.7	1283.0	1280.3	1278.9
47.5°	1222.1	1220.1	1214.7	1212.6	1210.6
50°	1151.1	1148.3	1142.3	1140.9	1138.9
52.5°	1076.6	1075.3	1067.1	1066.5	1064.4
55°	1002.9	995.4	988.6	988.6	987.3
57.5°	921.7	916.2	907.4	907.4	906.1
60°	837.7	833.0	822.9	824.2	822.9
62.5°	755.9	745.7	736.2	740.3	736.9
65°	662.5	657.1	646.9	649.6	648.9
67.5°	577.2	567.1	557.6	563.0	560.3
70°	482.5	477.1	467.6	473.0	466.2
72.5°	393.2	388.4	378.9	385.0	378.3
75°	306.5	301.8	294.4	299.8	293.0
77.5°	224.7	221.3	214.5	219.9	221.3
80°	150.2	146.2	142.8	147.5	148.9
82.5°	88.0	85.3	83.9	84.6	88.0
85°	42.6	39.2	39.2	39.9	39.9
87.5°	11.5	10.2	11.5	12.2	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)