

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: P974471

Luminaire Tested: FLR2-24-65-L950-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974471
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-L950-CP187
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L950-CP187
Ballast/Driver: -

Summary

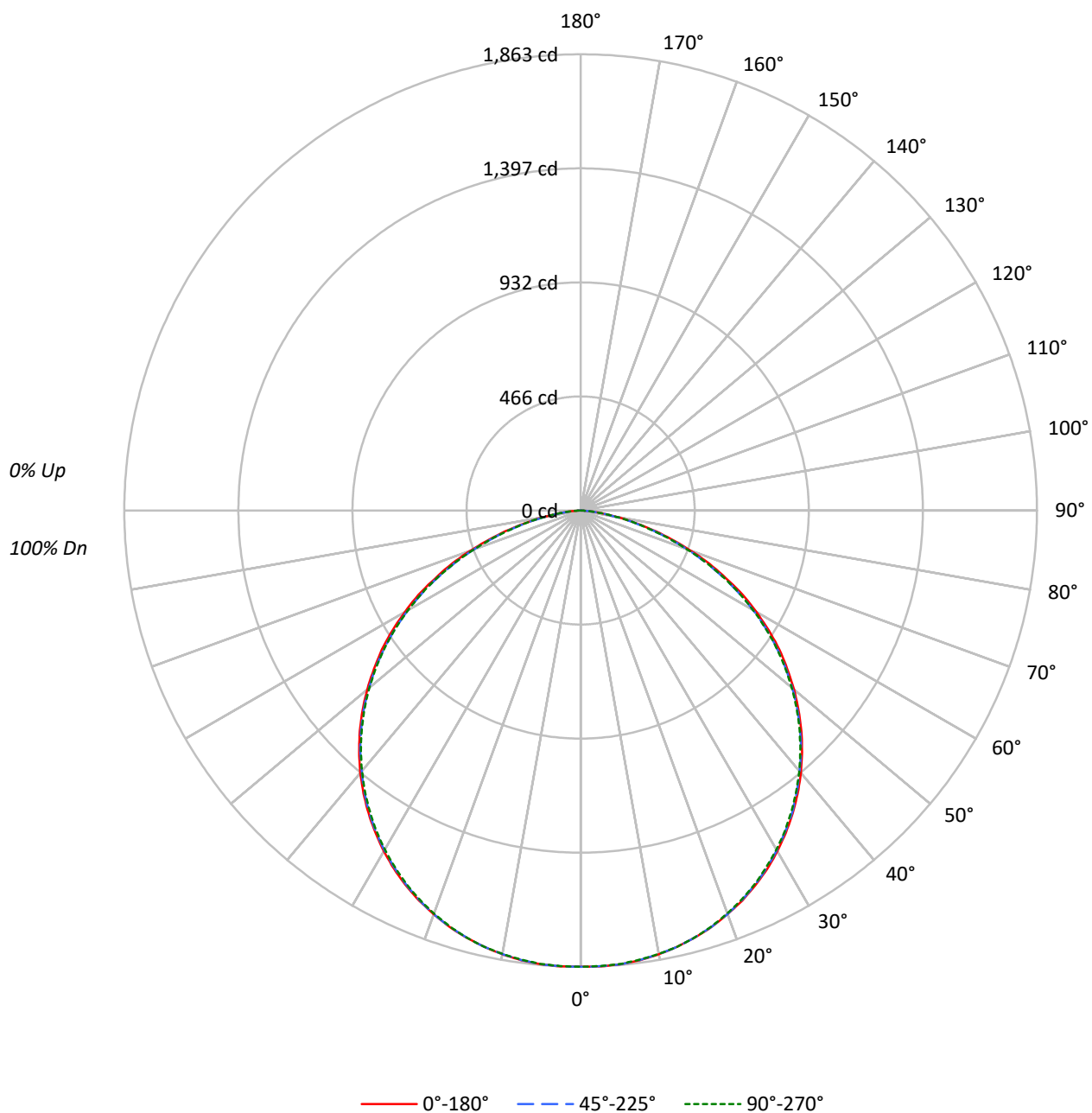
Lumens per Lamp: N/A
Luminaire Lumens: 5266.3 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2507	2507	2507
5°	2512	2512	2510
10°	2514	2513	2512
15°	2514	2514	2514
20°	2512	2511	2507
25°	2507	2502	2498
30°	2496	2489	2484
35°	2480	2473	2464
40°	2458	2442	2439
45°	2426	2412	2404
50°	2380	2362	2355
55°	2324	2291	2288
60°	2227	2188	2188
65°	2084	2035	2041
70°	1875	1817	1812
75°	1575	1512	1505
80°	1150	1093	1140
85°	650	599	608

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2426 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.9	3.4
10°-20°	509.5	9.7
20°-30°	776.9	14.8
30°-40°	941.2	17.9
40°-50°	977.7	18.6
50°-60°	874.6	16.6
60°-70°	637.4	12.1
70°-80°	315.7	6.0
80°-90°	56.4	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°	1463.2	27.8
0°-40°	2404.5	45.7
0°-60°	4256.7	80.8
0°-90°	5266.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5266.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1863	1863	1863	1863	1863	
5°	1860	1861	1860	1860	1859	177
15°	1805	1804	1804	1806	1804	510
25°	1689	1687	1686	1685	1683	778
35°	1510	1508	1506	1503	1500	944
45°	1275	1272	1268	1265	1264	983
55°	991	984	977	977	975	883
65°	654	649	639	642	641	649
75°	303	298	291	296	290	323
85°	42	39	39	39	39	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1863.3	1863.3	1863.3	1863.3	1863.3
2.5°	1863.3	1862.6	1862.6	1863.3	1862.0
5°	1860.0	1860.6	1860.0	1860.0	1858.6
7.5°	1852.6	1851.9	1851.3	1851.9	1849.9
10°	1839.9	1839.9	1839.2	1839.9	1838.6
12.5°	1824.5	1824.5	1824.5	1825.2	1824.5
15°	1805.1	1804.5	1804.5	1805.8	1804.5
17.5°	1782.4	1781.7	1781.7	1781.1	1779.7
20°	1754.3	1754.3	1753.7	1753.0	1751.0
22.5°	1724.2	1723.6	1721.6	1721.6	1718.9
25°	1688.8	1686.8	1685.5	1684.8	1682.8
27.5°	1650.0	1647.4	1645.4	1644.0	1642.0
30°	1606.6	1603.9	1601.9	1599.9	1598.6
32.5°	1559.8	1558.4	1555.1	1554.4	1551.8
35°	1509.6	1507.6	1505.6	1502.9	1500.3
37.5°	1456.1	1454.1	1449.5	1448.1	1446.1
40°	1399.3	1396.6	1390.6	1390.6	1388.6
42.5°	1338.5	1335.8	1331.8	1329.1	1327.8
45°	1275.0	1272.3	1267.6	1264.9	1263.6
47.5°	1207.4	1205.4	1200.1	1198.1	1196.1
50°	1137.2	1134.6	1128.5	1127.2	1125.2
52.5°	1063.7	1062.4	1054.3	1053.7	1051.7
55°	990.8	983.5	976.8	976.8	975.4
57.5°	910.6	905.2	896.6	896.6	895.2
60°	827.7	823.0	813.0	814.3	813.0
62.5°	746.8	736.8	727.4	731.4	728.1
65°	654.5	649.2	639.2	641.8	641.2
67.5°	570.3	560.3	550.9	556.3	553.6
70°	476.7	471.3	462.0	467.3	460.6
72.5°	388.4	383.8	374.4	380.4	373.7
75°	302.9	298.2	290.8	296.2	289.5
77.5°	222.0	218.6	211.9	217.3	218.6
80°	148.4	144.4	141.1	145.7	147.1
82.5°	86.9	84.2	82.9	83.6	86.9
85°	42.1	38.8	38.8	39.4	39.4
87.5°	11.4	10.0	11.4	12.0	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)