

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: P974470

Luminaire Tested: FLR2-24-55-L950-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974470
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: FLR2-24-55-L950-CP187
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L950-CP187
Ballast/Driver: -

Summary

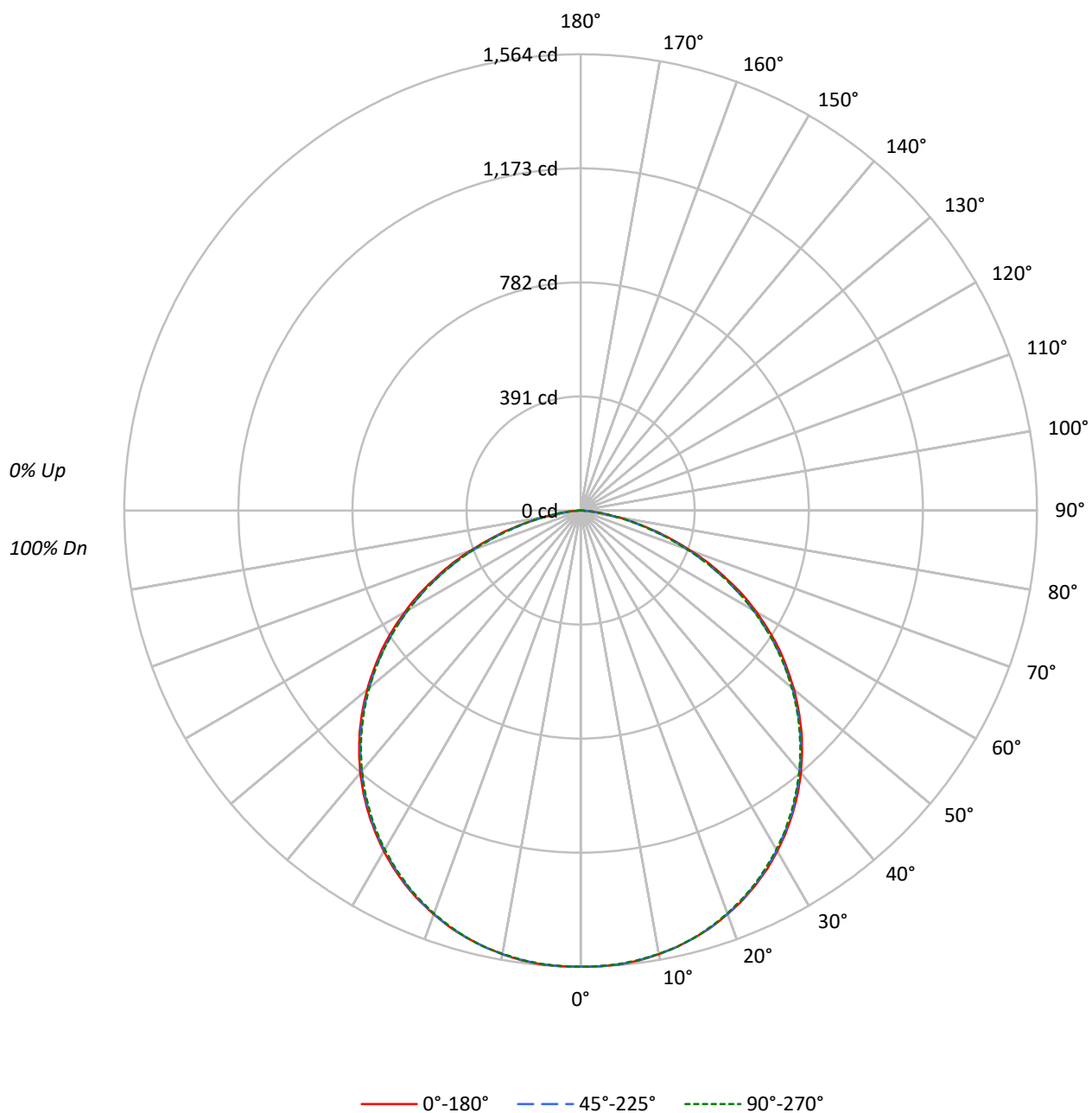
Lumens per Lamp: N/A
Luminaire Lumens: 4420.8 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.1
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°	2105	2105	2105
5°	2109	2109	2107
10°	2110	2109	2109
15°	2111	2110	2110
20°	2109	2108	2105
25°	2105	2101	2097
30°	2095	2089	2085
35°	2082	2076	2069
40°	2063	2050	2047
45°	2037	2025	2018
50°	1998	1983	1977
55°	1951	1924	1921
60°	1870	1837	1837
65°	1749	1708	1713
70°	1574	1526	1521
75°	1321	1269	1263
80°	965	917	957
85°	546	503	511

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2037 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	3.4
10°-20°	427.7	9.7
20°-30°	652.1	14.8
30°-40°	790.1	17.9
40°-50°	820.7	18.6
50°-60°	734.2	16.6
60°-70°	535.1	12.1
70°-80°	265.0	6.0
80°-90°	47.4	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°	1228.3	27.8
0°-40°	2018.4	45.7
0°-60°	3573.4	80.8
0°-90°	4420.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4420.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1564	1564	1564	1564	1564	
5°	1561	1562	1561	1561	1560	149
15°	1515	1515	1515	1516	1515	428
25°	1418	1416	1415	1414	1413	653
35°	1267	1266	1264	1262	1259	793
45°	1070	1068	1064	1062	1061	825
55°	832	826	820	820	819	741
65°	550	545	536	539	538	545
75°	254	250	244	249	243	271
85°	35	33	33	33	33	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1564.2	1564.2	1564.2	1564.2	1564.2
2.5°	1564.2	1563.6	1563.6	1564.2	1563.0
5°	1561.4	1561.9	1561.4	1561.4	1560.2
7.5°	1555.2	1554.6	1554.1	1554.6	1552.9
10°	1544.5	1544.5	1544.0	1544.5	1543.4
12.5°	1531.6	1531.6	1531.6	1532.2	1531.6
15°	1515.3	1514.8	1514.8	1515.9	1514.8
17.5°	1496.3	1495.7	1495.7	1495.1	1494.0
20°	1472.7	1472.7	1472.1	1471.6	1469.9
22.5°	1447.4	1446.9	1445.2	1445.2	1442.9
25°	1417.7	1416.0	1414.9	1414.3	1412.6
27.5°	1385.1	1382.9	1381.2	1380.1	1378.4
30°	1348.7	1346.4	1344.7	1343.0	1341.9
32.5°	1309.4	1308.2	1305.4	1304.9	1302.6
35°	1267.3	1265.6	1263.9	1261.7	1259.4
37.5°	1222.4	1220.7	1216.8	1215.6	1214.0
40°	1174.7	1172.4	1167.4	1167.4	1165.7
42.5°	1123.6	1121.4	1118.0	1115.7	1114.6
45°	1070.3	1068.0	1064.1	1061.9	1060.7
47.5°	1013.6	1011.9	1007.4	1005.7	1004.1
50°	954.7	952.4	947.4	946.2	944.6
52.5°	892.9	891.8	885.1	884.5	882.8
55°	831.8	825.6	820.0	820.0	818.8
57.5°	764.4	759.9	752.6	752.6	751.5
60°	694.8	690.9	682.5	683.6	682.5
62.5°	626.9	618.5	610.6	614.0	611.2
65°	549.5	545.0	536.5	538.8	538.2
67.5°	478.7	470.3	462.5	467.0	464.7
70°	400.2	395.7	387.8	392.3	386.7
72.5°	326.1	322.2	314.3	319.3	313.7
75°	254.2	250.3	244.1	248.6	243.0
77.5°	186.3	183.5	177.9	182.4	183.5
80°	124.6	121.2	118.4	122.3	123.5
82.5°	73.0	70.7	69.6	70.2	73.0
85°	35.4	32.6	32.6	33.1	33.1
87.5°	9.5	8.4	9.5	10.1	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)