

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: P974037

Luminaire Tested: FLR2-22-50HE-L950-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-50HE-L950-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

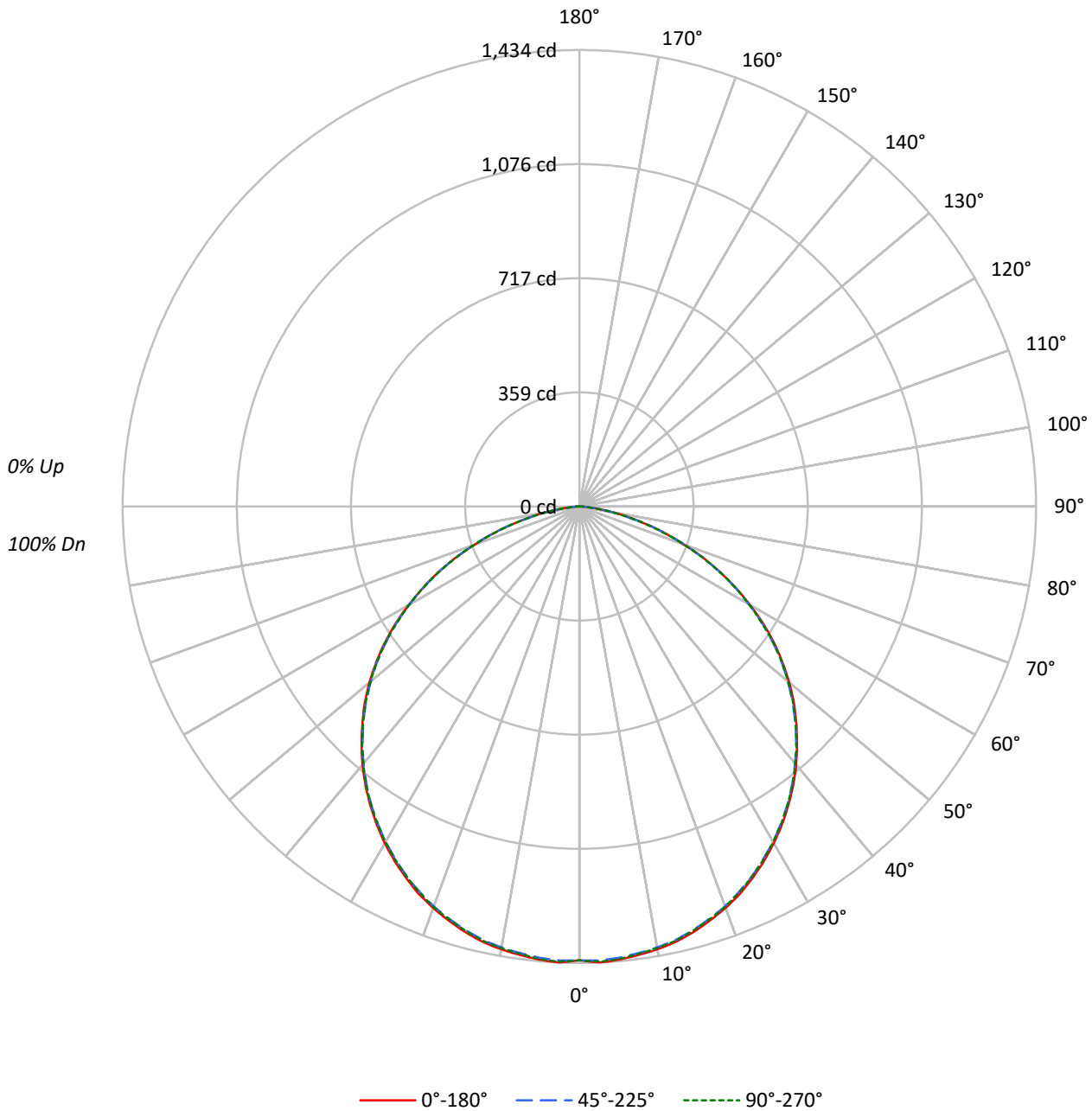
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3987.5 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 40
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														
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44														
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39														
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	39	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	40	34	29	27						27														
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3837	3837	3837
5°	3861	3844	3856
10°	3860	3843	3850
15°	3857	3840	3845
20°	3844	3828	3834
25°	3823	3807	3810
30°	3796	3779	3782
35°	3761	3747	3750
40°	3722	3703	3706
45°	3667	3650	3657
50°	3602	3576	3584
55°	3500	3471	3483
60°	3328	3313	3313
65°	3107	3101	3090
70°	2751	2765	2758
75°	2316	2299	2280
80°	1664	1638	1624
85°	871	871	843

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3667 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	3.4
10°-20°	388.3	9.7
20°-30°	590.1	14.8
30°-40°	713.2	17.9
40°-50°	740.3	18.6
50°-60°	661.8	16.6
60°-70°	481.2	12.1
70°-80°	236.6	5.9
80°-90°	41.0	1.0
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°	1113.4	27.9
0°-40°	1826.6	45.8
0°-60°	3228.7	81.0
0°-90°	3987.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3987.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1429	1413	1423	1418	1428	136
15°	1384	1369	1378	1375	1380	391
25°	1288	1274	1282	1280	1283	593
35°	1145	1137	1140	1141	1141	716
45°	964	959	959	961	961	743
55°	746	742	740	742	742	665
65°	488	490	487	487	485	481
75°	223	225	221	222	219	236
85°	28	29	28	28	27	41
90°	0	0	0	0	0	



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 CATALOG NUMBER: FLR2-22-50HE-L950-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1425.9	1425.9	1425.9	1425.9	1425.9
2.5°	1433.8	1417.1	1427.6	1421.5	1431.2
5°	1429.4	1412.7	1423.2	1417.9	1427.6
7.5°	1421.5	1404.7	1415.3	1410.0	1417.9
10°	1412.7	1395.0	1406.5	1401.2	1409.1
12.5°	1401.2	1384.5	1395.0	1390.6	1397.7
15°	1384.5	1368.6	1378.3	1374.8	1380.1
17.5°	1364.2	1348.4	1358.1	1355.4	1359.8
20°	1342.2	1327.2	1336.9	1334.3	1338.7
22.5°	1317.5	1301.7	1310.5	1308.7	1312.3
25°	1287.6	1273.5	1282.3	1279.7	1283.2
27.5°	1255.9	1242.7	1249.7	1249.7	1251.5
30°	1221.5	1209.2	1216.3	1216.3	1217.1
32.5°	1184.6	1174.9	1179.3	1180.2	1180.2
35°	1144.9	1137.0	1140.5	1141.4	1141.4
37.5°	1103.5	1095.6	1098.2	1100.0	1100.0
40°	1059.5	1052.5	1054.2	1056.0	1055.1
42.5°	1011.9	1006.7	1007.5	1009.3	1009.3
45°	963.5	959.1	959.1	960.9	960.9
47.5°	914.2	909.8	908.0	909.8	909.8
50°	860.5	856.1	854.3	856.1	856.1
52.5°	804.1	799.7	799.7	799.7	800.6
55°	746.0	741.6	739.8	741.6	742.4
57.5°	684.3	682.6	679.9	680.8	678.1
60°	618.3	618.3	615.6	617.4	615.6
62.5°	554.0	555.7	553.1	553.1	551.3
65°	487.9	489.7	487.0	487.0	485.3
67.5°	420.1	422.7	419.2	419.2	417.5
70°	349.6	354.9	351.4	352.3	350.5
72.5°	286.2	288.9	285.4	285.4	283.6
75°	222.8	224.6	221.1	221.9	219.3
77.5°	160.3	162.9	159.4	160.3	159.4
80°	107.4	108.3	105.7	106.6	104.8
82.5°	62.5	63.4	62.5	61.6	60.8
85°	28.2	29.1	28.2	28.2	27.3
87.5°	7.0	7.0	7.0	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)