

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: P974036

Luminaire Tested: FLR2-22-45HE-L950-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974036
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: FLR2-22-45HE-L950-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

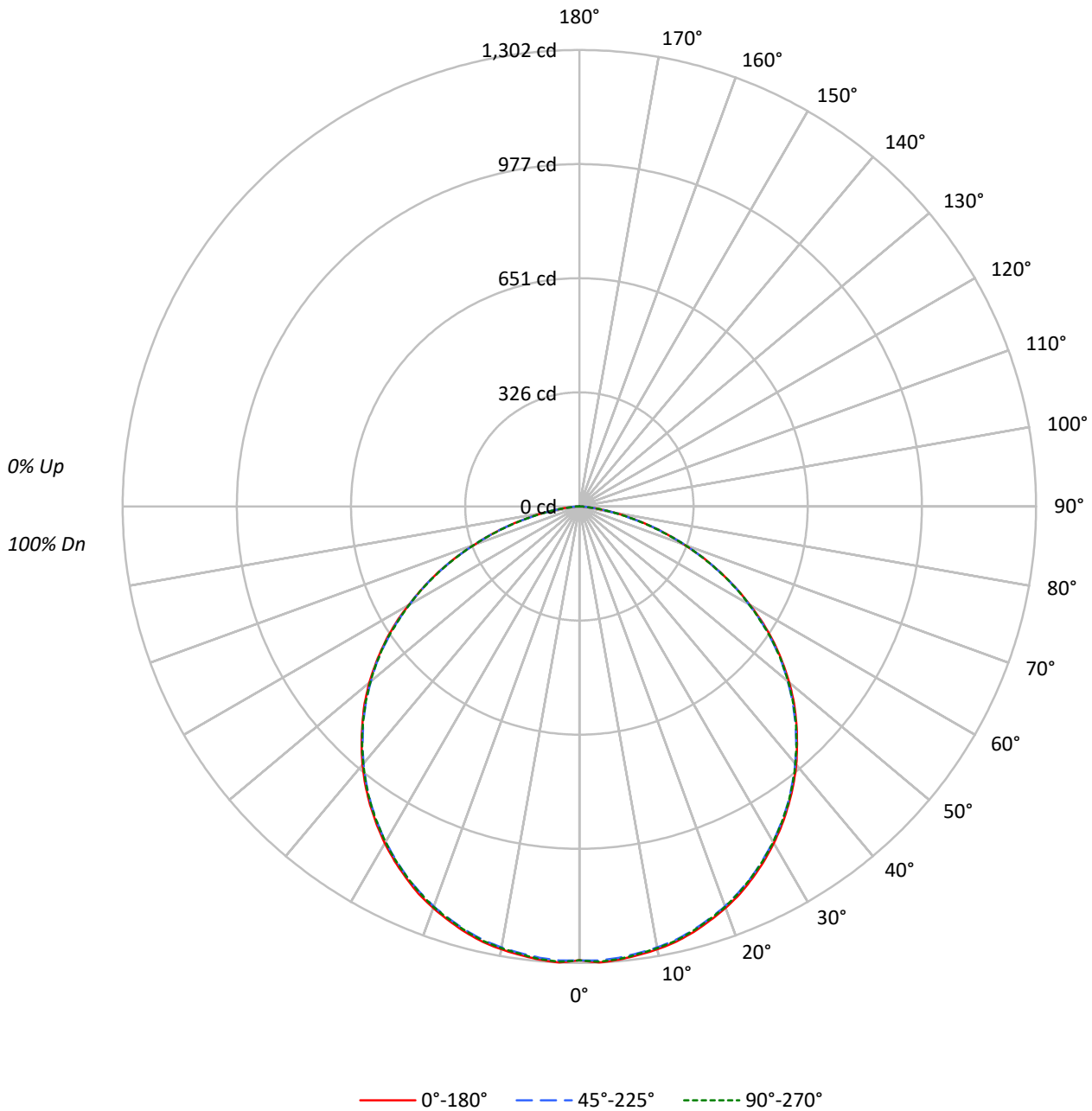
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3620.8 lumens
Efficiency: N/A
Efficacy: 100.0 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): 36.2
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				10	0
RW	70	50	30	10	70	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
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3484	3484	3484
5°	3506	3491	3502
10°	3505	3490	3496
15°	3502	3487	3491
20°	3490	3477	3481
25°	3472	3457	3460
30°	3447	3432	3434
35°	3415	3402	3405
40°	3380	3363	3366
45°	3330	3314	3320
50°	3271	3247	3254
55°	3178	3152	3163
60°	3021	3009	3009
65°	2821	2816	2805
70°	2498	2511	2504
75°	2103	2087	2070
80°	1512	1488	1475
85°	790	790	766

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3330 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	3.4
10°-20°	352.6	9.7
20°-30°	535.8	14.8
30°-40°	647.6	17.9
40°-50°	672.2	18.6
50°-60°	601.0	16.6
60°-70°	436.9	12.1
70°-80°	214.8	5.9
80°-90°	37.3	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°	1011.0	27.9
0°-40°	1658.6	45.8
0°-60°	2931.7	81.0
0°-90°	3620.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3620.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1295	1295	1295	1295	1295	
5°	1298	1283	1292	1288	1296	123
15°	1257	1243	1252	1248	1253	355
25°	1169	1156	1164	1162	1165	539
35°	1040	1032	1036	1036	1036	650
45°	875	871	871	872	872	675
55°	677	673	672	673	674	604
65°	443	445	442	442	441	437
75°	202	204	201	202	199	215
85°	26	26	26	26	25	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1294.7	1294.7	1294.7	1294.7	1294.7
2.5°	1301.9	1286.7	1296.3	1290.7	1299.5
5°	1297.9	1282.7	1292.3	1287.5	1296.3
7.5°	1290.7	1275.5	1285.1	1280.3	1287.5
10°	1282.7	1266.7	1277.1	1272.3	1279.5
12.5°	1272.3	1257.1	1266.7	1262.7	1269.1
15°	1257.1	1242.7	1251.5	1248.3	1253.1
17.5°	1238.7	1224.4	1233.2	1230.8	1234.8
20°	1218.8	1205.2	1214.0	1211.6	1215.6
22.5°	1196.4	1182.0	1190.0	1188.4	1191.6
25°	1169.2	1156.4	1164.4	1162.0	1165.2
27.5°	1140.4	1128.4	1134.8	1134.8	1136.4
30°	1109.2	1098.0	1104.4	1104.4	1105.2
32.5°	1075.6	1066.8	1070.8	1071.6	1071.6
35°	1039.6	1032.4	1035.6	1036.4	1036.4
37.5°	1002.0	994.8	997.2	998.8	998.8
40°	962.1	955.7	957.3	958.9	958.1
42.5°	918.9	914.1	914.9	916.5	916.5
45°	874.9	870.9	870.9	872.5	872.5
47.5°	830.1	826.1	824.5	826.1	826.1
50°	781.3	777.3	775.7	777.3	777.3
52.5°	730.1	726.1	726.1	726.1	726.9
55°	677.4	673.4	671.8	673.4	674.2
57.5°	621.4	619.8	617.4	618.2	615.8
60°	561.4	561.4	559.0	560.6	559.0
62.5°	503.0	504.6	502.2	502.2	500.6
65°	443.0	444.6	442.2	442.2	440.6
67.5°	381.5	383.9	380.7	380.7	379.1
70°	317.5	322.3	319.1	319.9	318.3
72.5°	259.9	262.3	259.1	259.1	257.5
75°	202.3	203.9	200.7	201.5	199.1
77.5°	145.5	147.9	144.7	145.5	144.7
80°	97.6	98.4	96.0	96.8	95.2
82.5°	56.8	57.6	56.8	56.0	55.2
85°	25.6	26.4	25.6	25.6	24.8
87.5°	6.4	6.4	6.4	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)