

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: P973886

Luminaire Tested: FLR2-22-45HE-L935-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973886
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-L935-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

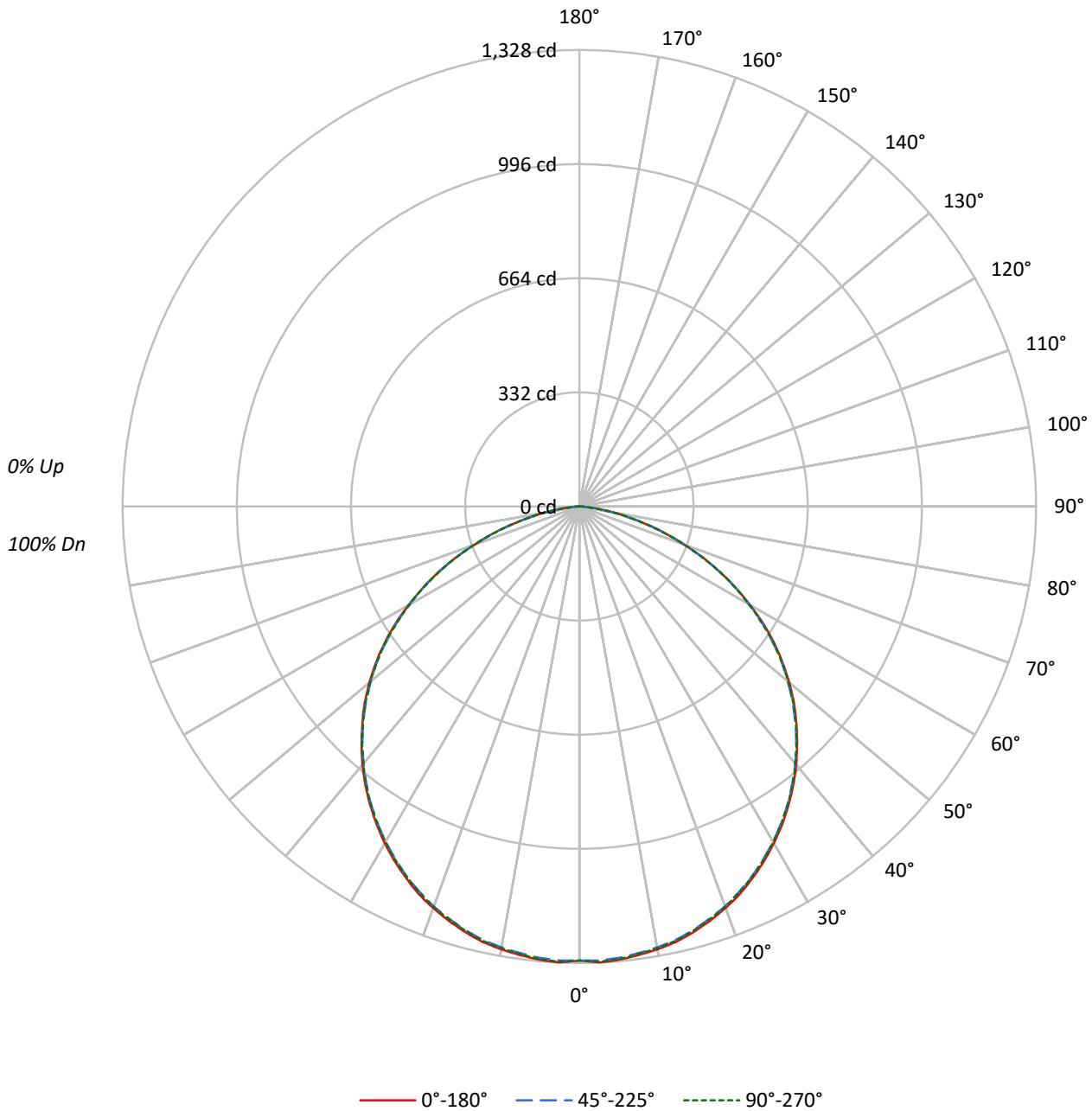
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3693.4 lumens
Efficiency: N/A
Efficacy: 102.0 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										
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°	3554	3554	3554
5°	3576	3561	3572
10°	3575	3560	3566
15°	3573	3556	3561
20°	3560	3546	3551
25°	3541	3526	3529
30°	3516	3500	3503
35°	3484	3470	3473
40°	3447	3430	3433
45°	3396	3381	3387
50°	3337	3313	3319
55°	3241	3215	3226
60°	3082	3069	3069
65°	2877	2872	2862
70°	2548	2561	2555
75°	2146	2129	2112
80°	1542	1517	1505
85°	806	806	781

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3396 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	3.4
10°-20°	359.6	9.7
20°-30°	546.5	14.8
30°-40°	660.6	17.9
40°-50°	685.7	18.6
50°-60°	613.0	16.6
60°-70°	445.7	12.1
70°-80°	219.2	5.9
80°-90°	38.0	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°	1031.2	27.9
0°-40°	1691.8	45.8
0°-60°	2990.5	81.0
0°-90°	3693.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3693.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1321	1321	1321	1321	1321	
5°	1324	1308	1318	1313	1322	126
15°	1282	1268	1277	1273	1278	362
25°	1193	1180	1188	1185	1188	550
35°	1060	1053	1056	1057	1057	663
45°	892	888	888	890	890	688
55°	691	687	685	687	688	616
65°	452	454	451	451	450	446
75°	206	208	205	206	203	219
85°	26	27	26	26	25	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1320.7	1320.7	1320.7	1320.7	1320.7
2.5°	1328.0	1312.5	1322.3	1316.6	1325.6
5°	1324.0	1308.5	1318.3	1313.4	1322.3
7.5°	1316.6	1301.1	1310.9	1306.0	1313.4
10°	1308.5	1292.1	1302.8	1297.9	1305.2
12.5°	1297.9	1282.4	1292.1	1288.1	1294.6
15°	1282.4	1267.7	1276.6	1273.4	1278.3
17.5°	1263.6	1248.9	1257.9	1255.4	1259.5
20°	1243.2	1229.3	1238.3	1235.9	1239.9
22.5°	1220.4	1205.7	1213.8	1212.2	1215.5
25°	1192.6	1179.6	1187.7	1185.3	1188.5
27.5°	1163.3	1151.0	1157.5	1157.5	1159.2
30°	1131.4	1120.0	1126.5	1126.5	1127.4
32.5°	1097.2	1088.2	1092.3	1093.1	1093.1
35°	1060.5	1053.1	1056.4	1057.2	1057.2
37.5°	1022.1	1014.8	1017.2	1018.9	1018.9
40°	981.3	974.8	976.5	978.1	977.3
42.5°	937.3	932.4	933.2	934.8	934.8
45°	892.4	888.4	888.4	890.0	890.0
47.5°	846.7	842.7	841.0	842.7	842.7
50°	797.0	792.9	791.3	792.9	792.9
52.5°	744.8	740.7	740.7	740.7	741.5
55°	690.9	686.9	685.2	686.9	687.7
57.5°	633.8	632.2	629.8	630.6	628.1
60°	572.7	572.7	570.2	571.8	570.2
62.5°	513.1	514.7	512.3	512.3	510.7
65°	451.9	453.6	451.1	451.1	449.5
67.5°	389.1	391.6	388.3	388.3	386.7
70°	323.9	328.7	325.5	326.3	324.7
72.5°	265.1	267.6	264.3	264.3	262.7
75°	206.4	208.0	204.8	205.6	203.1
77.5°	148.5	150.9	147.7	148.5	147.7
80°	99.5	100.3	97.9	98.7	97.1
82.5°	57.9	58.7	57.9	57.1	56.3
85°	26.1	26.9	26.1	26.1	25.3
87.5°	6.5	6.5	6.5	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)