

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: P974000

Luminaire Tested: FLR2-22-45HE-L850-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974000
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-L850-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

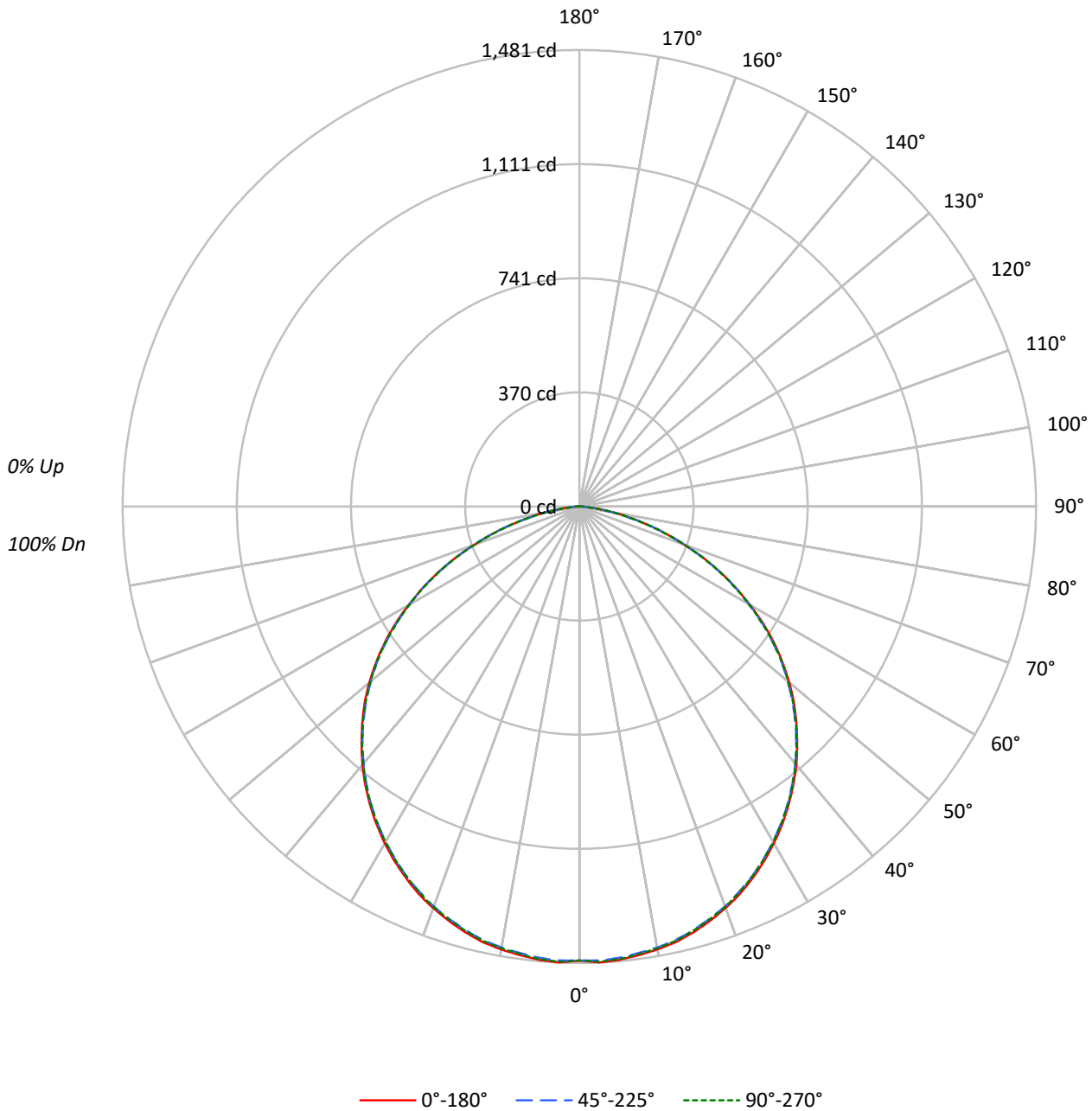
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4119.4 lumens
Efficiency: N/A
Efficacy: 113.8 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 (A_{in}): 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°	3964	3964	3964
5°	3989	3972	3984
10°	3988	3970	3978
15°	3985	3967	3972
20°	3971	3955	3960
25°	3950	3933	3936
30°	3921	3904	3907
35°	3886	3870	3873
40°	3845	3826	3829
45°	3788	3771	3777
50°	3721	3695	3702
55°	3615	3586	3598
60°	3437	3423	3423
65°	3209	3203	3192
70°	2842	2856	2849
75°	2393	2375	2355
80°	1720	1692	1678
85°	898	898	871

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3788 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.5	3.4
10°-20°	401.1	9.7
20°-30°	609.6	14.8
30°-40°	736.8	17.9
40°-50°	764.7	18.6
50°-60°	683.7	16.6
60°-70°	497.1	12.1
70°-80°	244.5	5.9
80°-90°	42.4	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°	1150.2	27.9
0°-40°	1887.0	45.8
0°-60°	3335.4	81.0
0°-90°	4119.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4119.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1473	1473	1473	1473	1473	
5°	1477	1459	1470	1465	1475	140
15°	1430	1414	1424	1420	1426	404
25°	1330	1316	1325	1322	1326	613
35°	1183	1175	1178	1179	1179	740
45°	995	991	991	993	993	768
55°	771	766	764	766	767	687
65°	504	506	503	503	501	497
75°	230	232	228	229	226	244
85°	29	30	29	29	28	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1473.0	1473.0	1473.0	1473.0	1473.0
2.5°	1481.2	1463.9	1474.8	1468.5	1478.5
5°	1476.7	1459.4	1470.3	1464.8	1474.8
7.5°	1468.5	1451.2	1462.1	1456.6	1464.8
10°	1459.4	1441.2	1453.0	1447.5	1455.7
12.5°	1447.5	1430.3	1441.2	1436.6	1443.9
15°	1430.3	1413.9	1423.9	1420.2	1425.7
17.5°	1409.3	1393.0	1403.0	1400.2	1404.8
20°	1386.6	1371.1	1381.1	1378.4	1382.9
22.5°	1361.1	1344.7	1353.8	1352.0	1355.7
25°	1330.2	1315.6	1324.7	1322.0	1325.6
27.5°	1297.4	1283.8	1291.1	1291.1	1292.9
30°	1261.9	1249.2	1256.5	1256.5	1257.4
32.5°	1223.7	1213.7	1218.3	1219.2	1219.2
35°	1182.8	1174.6	1178.2	1179.1	1179.1
37.5°	1140.0	1131.8	1134.6	1136.4	1136.4
40°	1094.5	1087.3	1089.1	1090.9	1090.0
42.5°	1045.4	1039.9	1040.8	1042.7	1042.7
45°	995.4	990.8	990.8	992.6	992.6
47.5°	944.4	939.9	938.0	939.9	939.9
50°	888.9	884.4	882.5	884.4	884.4
52.5°	830.7	826.1	826.1	826.1	827.0
55°	770.6	766.1	764.3	766.1	767.0
57.5°	706.9	705.1	702.4	703.3	700.6
60°	638.7	638.7	636.0	637.8	636.0
62.5°	572.3	574.1	571.4	571.4	569.6
65°	504.0	505.9	503.1	503.1	501.3
67.5°	434.0	436.7	433.1	433.1	431.3
70°	361.2	366.7	363.0	363.9	362.1
72.5°	295.7	298.4	294.8	294.8	293.0
75°	230.2	232.0	228.4	229.3	226.5
77.5°	165.6	168.3	164.7	165.6	164.7
80°	111.0	111.9	109.2	110.1	108.3
82.5°	64.6	65.5	64.6	63.7	62.8
85°	29.1	30.0	29.1	29.1	28.2
87.5°	7.3	7.3	7.3	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)