

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: P973826

Luminaire Tested: FLR2-22-45HE-L835-CP250

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973826  
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-L835-CP250  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

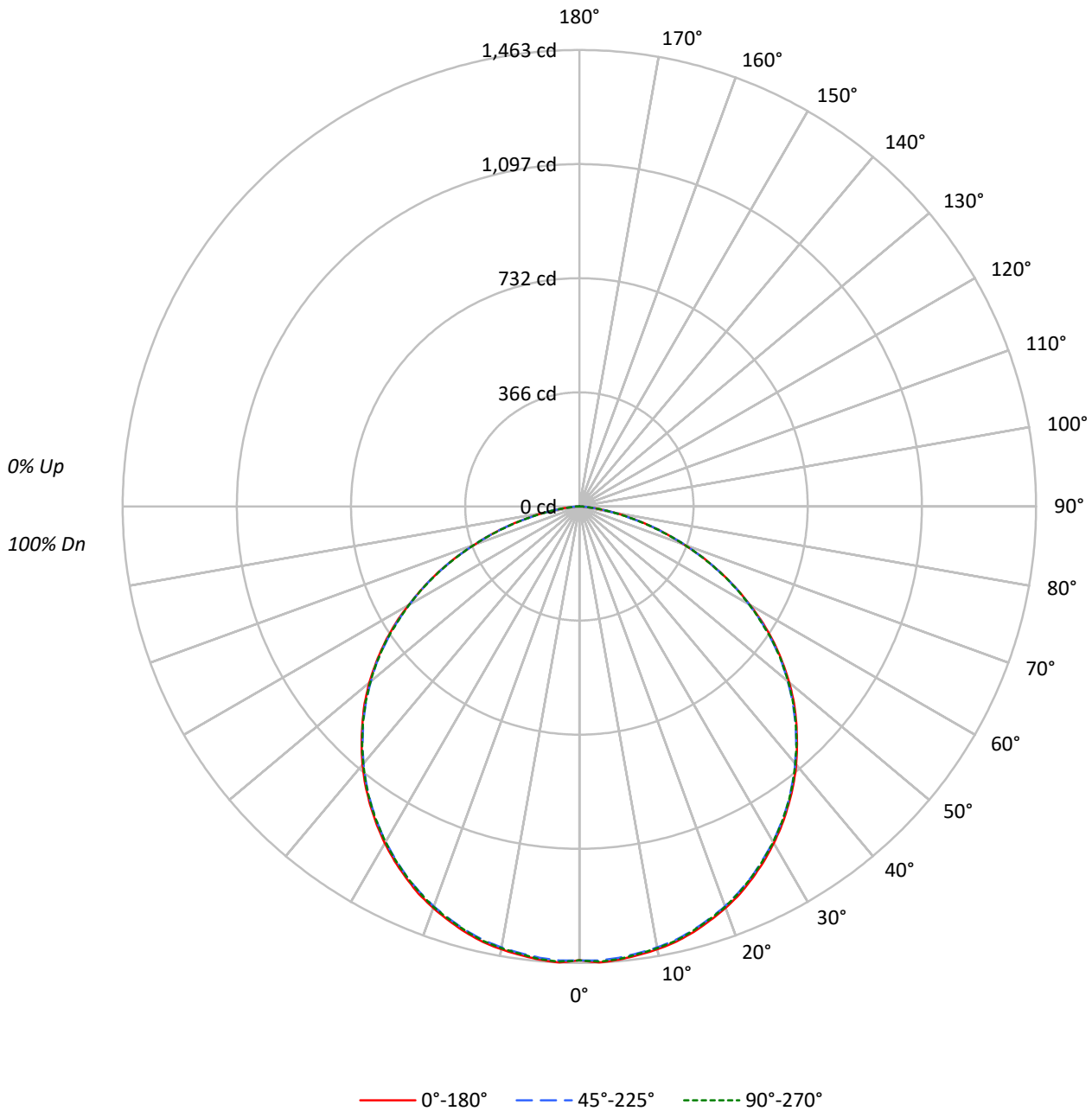
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4068.3 lumens  
Efficiency: N/A  
Efficacy: 112.4 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°	3915	3915	3915
5°	3939	3922	3934
10°	3938	3921	3929
15°	3935	3918	3923
20°	3922	3906	3911
25°	3901	3885	3887
30°	3873	3856	3859
35°	3837	3823	3825
40°	3797	3778	3782
45°	3741	3724	3731
50°	3675	3649	3656
55°	3571	3541	3554
60°	3395	3380	3380
65°	3170	3164	3152
70°	2806	2821	2814
75°	2363	2345	2326
80°	1698	1671	1657
85°	889	889	861

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3741 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.8	3.4
10°-20°	396.2	9.7
20°-30°	602.0	14.8
30°-40°	727.6	17.9
40°-50°	755.3	18.6
50°-60°	675.2	16.6
60°-70°	490.9	12.1
70°-80°	241.4	5.9
80°-90°	41.9	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°	1135.9	27.9
0°-40°	1863.6	45.8
0°-60°	3294.1	81.0
0°-90°	4068.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4068.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1455	1455	1455	1455	1455	
5°	1458	1441	1452	1447	1456	139
15°	1412	1396	1406	1403	1408	399
25°	1314	1299	1308	1306	1309	605
35°	1168	1160	1164	1164	1164	731
45°	983	978	978	980	980	758
55°	761	757	755	757	758	678
65°	498	500	497	497	495	491
75°	227	229	226	226	224	241
85°	29	30	29	29	28	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1454.8	1454.8	1454.8	1454.8	1454.8
2.5°	1462.8	1445.8	1456.5	1450.3	1460.1
5°	1458.3	1441.3	1452.1	1446.7	1456.5
7.5°	1450.3	1433.2	1444.0	1438.6	1446.7
10°	1441.3	1423.3	1435.0	1429.6	1437.7
12.5°	1429.6	1412.5	1423.3	1418.8	1426.0
15°	1412.5	1396.3	1406.2	1402.6	1408.0
17.5°	1391.9	1375.7	1385.6	1382.9	1387.4
20°	1369.4	1354.1	1364.0	1361.3	1365.8
22.5°	1344.2	1328.1	1337.0	1335.2	1338.8
25°	1313.7	1299.3	1308.3	1305.6	1309.2
27.5°	1281.3	1267.9	1275.0	1275.0	1276.8
30°	1246.3	1233.7	1240.9	1240.9	1241.8
32.5°	1208.5	1198.7	1203.2	1204.1	1204.1
35°	1168.1	1160.0	1163.6	1164.5	1164.5
37.5°	1125.9	1117.8	1120.5	1122.3	1122.3
40°	1081.0	1073.8	1075.6	1077.4	1076.5
42.5°	1032.4	1027.0	1027.9	1029.7	1029.7
45°	983.0	978.5	978.5	980.3	980.3
47.5°	932.7	928.2	926.4	928.2	928.2
50°	877.9	873.4	871.6	873.4	873.4
52.5°	820.4	815.9	815.9	815.9	816.8
55°	761.1	756.6	754.8	756.6	757.5
57.5°	698.2	696.4	693.7	694.6	691.9
60°	630.8	630.8	628.1	629.9	628.1
62.5°	565.2	567.0	564.3	564.3	562.5
65°	497.8	499.6	496.9	496.9	495.1
67.5°	428.6	431.3	427.7	427.7	425.9
70°	356.7	362.1	358.5	359.4	357.6
72.5°	292.0	294.7	291.1	291.1	289.3
75°	227.3	229.1	225.5	226.4	223.7
77.5°	163.5	166.2	162.6	163.5	162.6
80°	109.6	110.5	107.8	108.7	106.9
82.5°	63.8	64.7	63.8	62.9	62.0
85°	28.8	29.7	28.8	28.8	27.9
87.5°	7.2	7.2	7.2	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)