

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: P973868

Luminaire Tested: FLR2-22-45HE-L935-CP250

Issue Date: 3/13/2025

**Test Information**

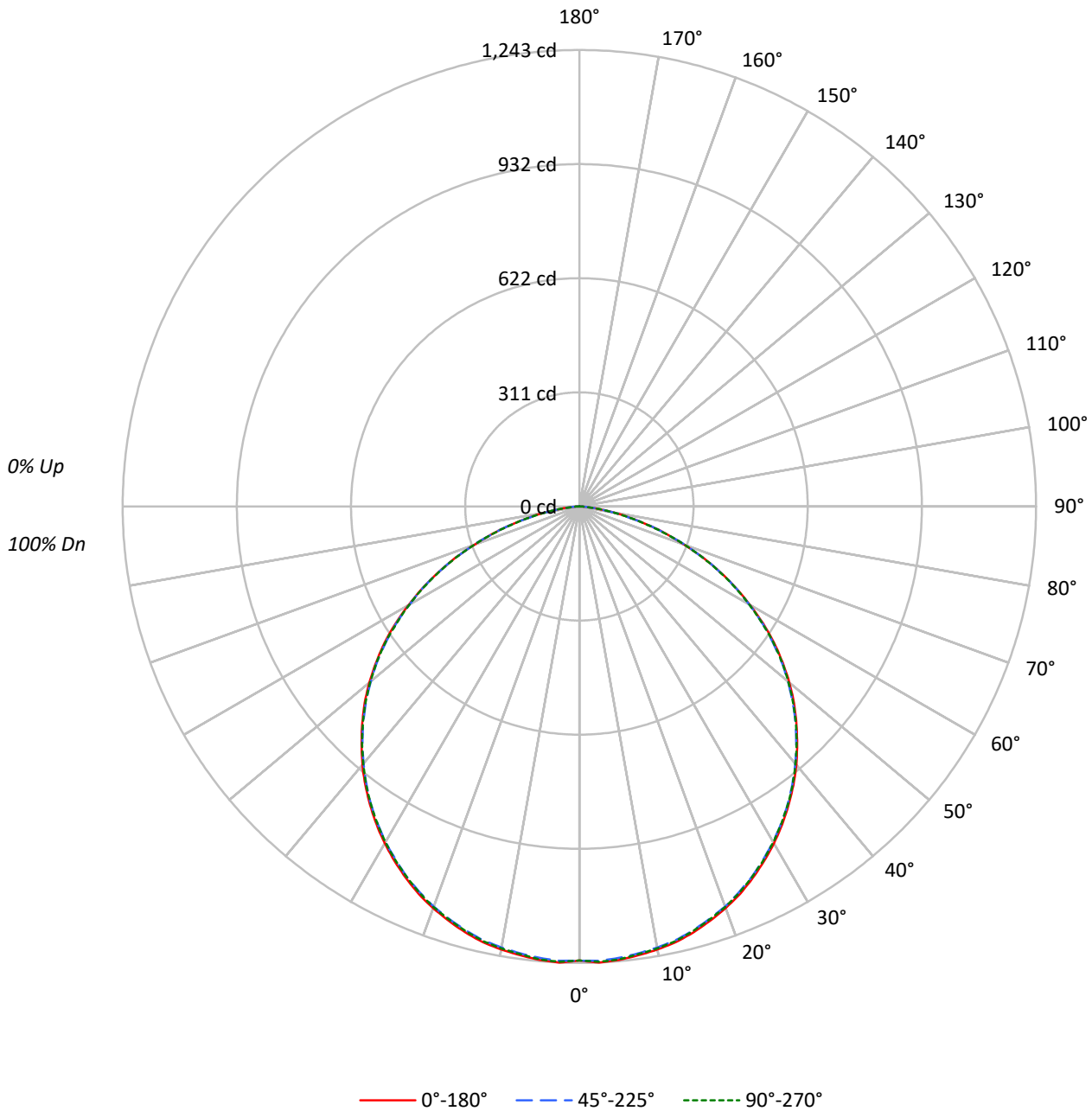
Test Method: LM-79-2019  
Report Number: P973868  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-22-45HE-L935-CP250  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3458.0 lumens  
Efficiency: N/A  
Efficacy: 95.5 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°	3327	3327	3327
5°	3348	3334	3344
10°	3348	3333	3339
15°	3345	3330	3334
20°	3333	3320	3324
25°	3315	3302	3304
30°	3292	3278	3280
35°	3262	3249	3252
40°	3228	3211	3214
45°	3180	3165	3171
50°	3124	3102	3108
55°	3035	3010	3021
60°	2886	2873	2873
65°	2694	2690	2679
70°	2386	2397	2392
75°	2009	1993	1978
80°	1444	1421	1409
85°	753	753	732

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3180 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.1	3.4
10°-20°	336.7	9.7
20°-30°	511.7	14.8
30°-40°	618.5	17.9
40°-50°	642.0	18.6
50°-60°	573.9	16.6
60°-70°	417.3	12.1
70°-80°	205.2	5.9
80°-90°	35.6	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°	965.5	27.9
0°-40°	1584.0	45.8
0°-60°	2799.9	81.0
0°-90°	3458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3458.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1236	1236	1236	1236	1236	
5°	1240	1225	1234	1230	1238	118
15°	1201	1187	1195	1192	1197	339
25°	1117	1104	1112	1110	1113	515
35°	993	986	989	990	990	621
45°	836	832	832	833	833	645
55°	647	643	642	643	644	577
65°	423	425	422	422	421	417
75°	193	195	192	192	190	205
85°	24	25	24	24	24	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1236.5	1236.5	1236.5	1236.5	1236.5
2.5°	1243.4	1228.9	1238.1	1232.7	1241.1
5°	1239.6	1225.1	1234.2	1229.7	1238.1
7.5°	1232.7	1218.2	1227.4	1222.8	1229.7
10°	1225.1	1209.8	1219.7	1215.2	1222.0
12.5°	1215.2	1200.6	1209.8	1206.0	1212.1
15°	1200.6	1186.9	1195.3	1192.2	1196.8
17.5°	1183.1	1169.3	1177.7	1175.4	1179.3
20°	1164.0	1151.0	1159.4	1157.1	1160.9
22.5°	1142.6	1128.8	1136.5	1135.0	1138.0
25°	1116.6	1104.4	1112.0	1109.8	1112.8
27.5°	1089.1	1077.7	1083.8	1083.8	1085.3
30°	1059.3	1048.7	1054.8	1054.8	1055.5
32.5°	1027.3	1018.9	1022.7	1023.4	1023.4
35°	992.9	986.0	989.1	989.8	989.8
37.5°	957.0	950.1	952.4	953.9	953.9
40°	918.8	912.7	914.2	915.8	915.0
42.5°	877.6	873.0	873.7	875.3	875.3
45°	835.6	831.7	831.7	833.3	833.3
47.5°	792.8	789.0	787.4	789.0	789.0
50°	746.2	742.4	740.9	742.4	742.4
52.5°	697.3	693.5	693.5	693.5	694.3
55°	646.9	643.1	641.6	643.1	643.9
57.5°	593.4	591.9	589.6	590.4	588.1
60°	536.2	536.2	533.9	535.4	533.9
62.5°	480.4	481.9	479.6	479.6	478.1
65°	423.1	424.7	422.4	422.4	420.8
67.5°	364.3	366.6	363.6	363.6	362.0
70°	303.2	307.8	304.7	305.5	304.0
72.5°	248.2	250.5	247.5	247.5	245.9
75°	193.2	194.8	191.7	192.5	190.2
77.5°	139.0	141.3	138.2	139.0	138.2
80°	93.2	93.9	91.7	92.4	90.9
82.5°	54.2	55.0	54.2	53.5	52.7
85°	24.4	25.2	24.4	24.4	23.7
87.5°	6.1	6.1	6.1	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)