

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: P973790

Luminaire Tested: FLR2-22-45HE-L930-CP375

Issue Date: 3/13/2025

**Test Information**

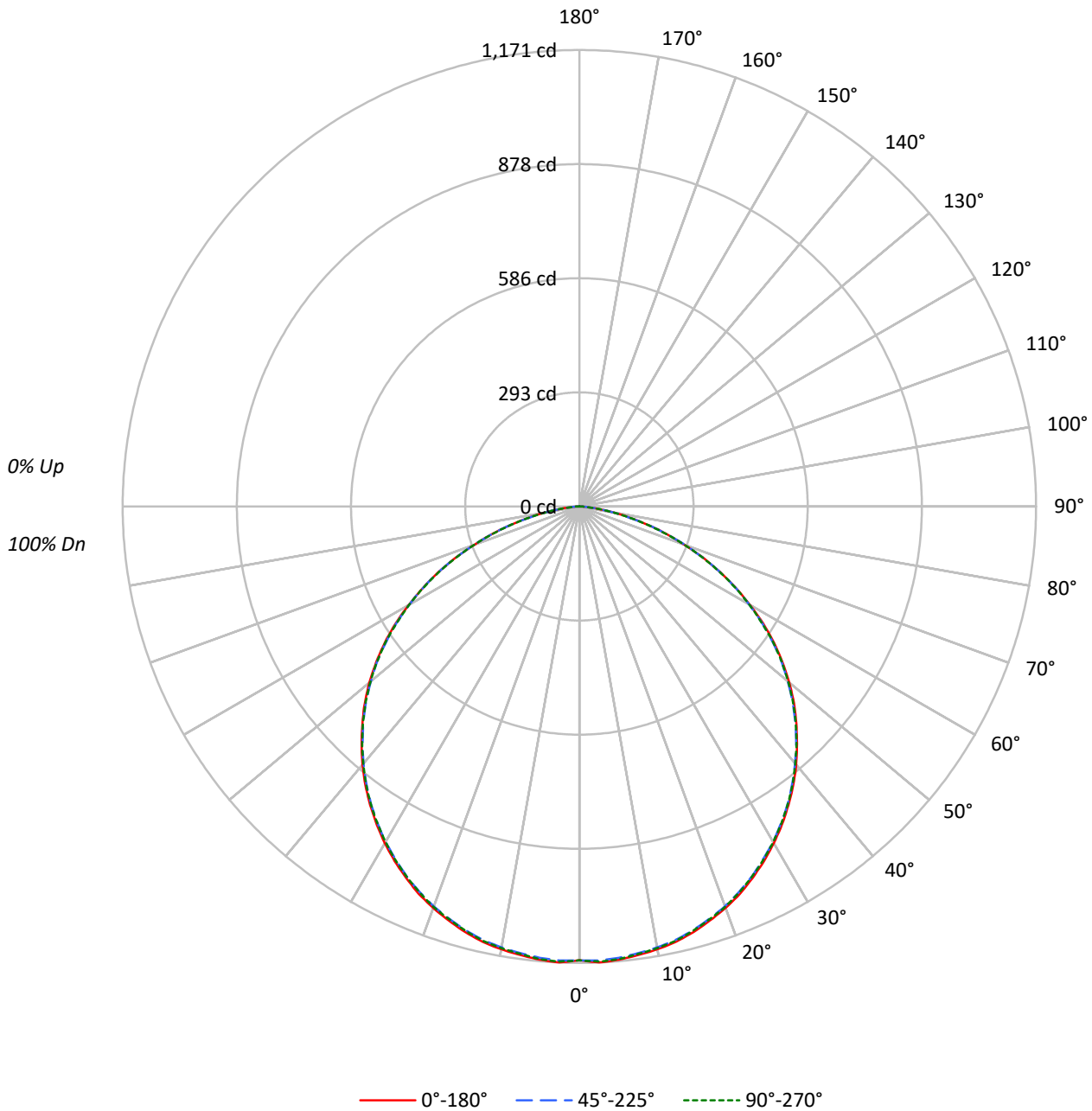
Test Method: LM-79-2019  
Report Number: P973790  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-22-45HE-L930-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3256.2 lumens  
Efficiency: N/A  
Efficacy: 90.0 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°	3133	3133	3133
5°	3153	3139	3149
10°	3152	3139	3144
15°	3150	3136	3140
20°	3139	3126	3131
25°	3122	3109	3111
30°	3100	3086	3088
35°	3072	3060	3062
40°	3039	3024	3027
45°	2994	2981	2986
50°	2942	2920	2927
55°	2858	2834	2845
60°	2717	2706	2706
65°	2537	2532	2523
70°	2246	2258	2252
75°	1892	1877	1862
80°	1359	1337	1327
85°	710	710	689

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2994 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.3	3.4
10°-20°	317.1	9.7
20°-30°	481.8	14.8
30°-40°	582.4	17.9
40°-50°	604.5	18.6
50°-60°	540.5	16.6
60°-70°	392.9	12.1
70°-80°	193.2	5.9
80°-90°	33.5	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°	909.2	27.9
0°-40°	1491.6	45.8
0°-60°	2636.5	81.0
0°-90°	3256.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3256.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1164	1164	1164	1164	1164	
5°	1167	1154	1162	1158	1166	111
15°	1131	1118	1126	1123	1127	319
25°	1052	1040	1047	1045	1048	485
35°	935	928	931	932	932	585
45°	787	783	783	785	785	607
55°	609	606	604	606	606	543
65°	398	400	398	398	396	393
75°	182	183	180	181	179	193
85°	23	24	23	23	22	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1164.4	1164.4	1164.4	1164.4	1164.4
2.5°	1170.9	1157.2	1165.8	1160.8	1168.7
5°	1167.3	1153.6	1162.2	1157.9	1165.8
7.5°	1160.8	1147.1	1155.8	1151.4	1157.9
10°	1153.6	1139.2	1148.6	1144.2	1150.7
12.5°	1144.2	1130.6	1139.2	1135.6	1141.4
15°	1130.6	1117.6	1125.6	1122.7	1127.0
17.5°	1114.0	1101.1	1109.0	1106.9	1110.4
20°	1096.1	1083.8	1091.7	1089.6	1093.2
22.5°	1075.9	1063.0	1070.2	1068.7	1071.6
25°	1051.5	1040.0	1047.2	1045.0	1047.9
27.5°	1025.6	1014.8	1020.5	1020.5	1022.0
30°	997.5	987.5	993.2	993.2	993.9
32.5°	967.3	959.4	963.0	963.7	963.7
35°	935.0	928.5	931.4	932.1	932.1
37.5°	901.2	894.7	896.8	898.3	898.3
40°	865.2	859.4	860.9	862.3	861.6
42.5°	826.4	822.0	822.8	824.2	824.2
45°	786.8	783.2	783.2	784.6	784.6
47.5°	746.5	742.9	741.5	742.9	742.9
50°	702.7	699.1	697.6	699.1	699.1
52.5°	656.6	653.0	653.0	653.0	653.8
55°	609.2	605.6	604.1	605.6	606.3
57.5°	558.8	557.4	555.2	555.9	553.8
60°	504.9	504.9	502.7	504.2	502.7
62.5°	452.4	453.8	451.7	451.7	450.2
65°	398.4	399.9	397.7	397.7	396.3
67.5°	343.1	345.2	342.3	342.3	340.9
70°	285.5	289.8	287.0	287.7	286.2
72.5°	233.7	235.9	233.0	233.0	231.6
75°	182.0	183.4	180.5	181.2	179.1
77.5°	130.9	133.1	130.2	130.9	130.2
80°	87.7	88.5	86.3	87.0	85.6
82.5°	51.1	51.8	51.1	50.3	49.6
85°	23.0	23.7	23.0	23.0	22.3
87.5°	5.8	5.8	5.8	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)