

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: P973897

Luminaire Tested: FLR2-22-35HE-L840-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973897  
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: FLR2-22-35HE-L840-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

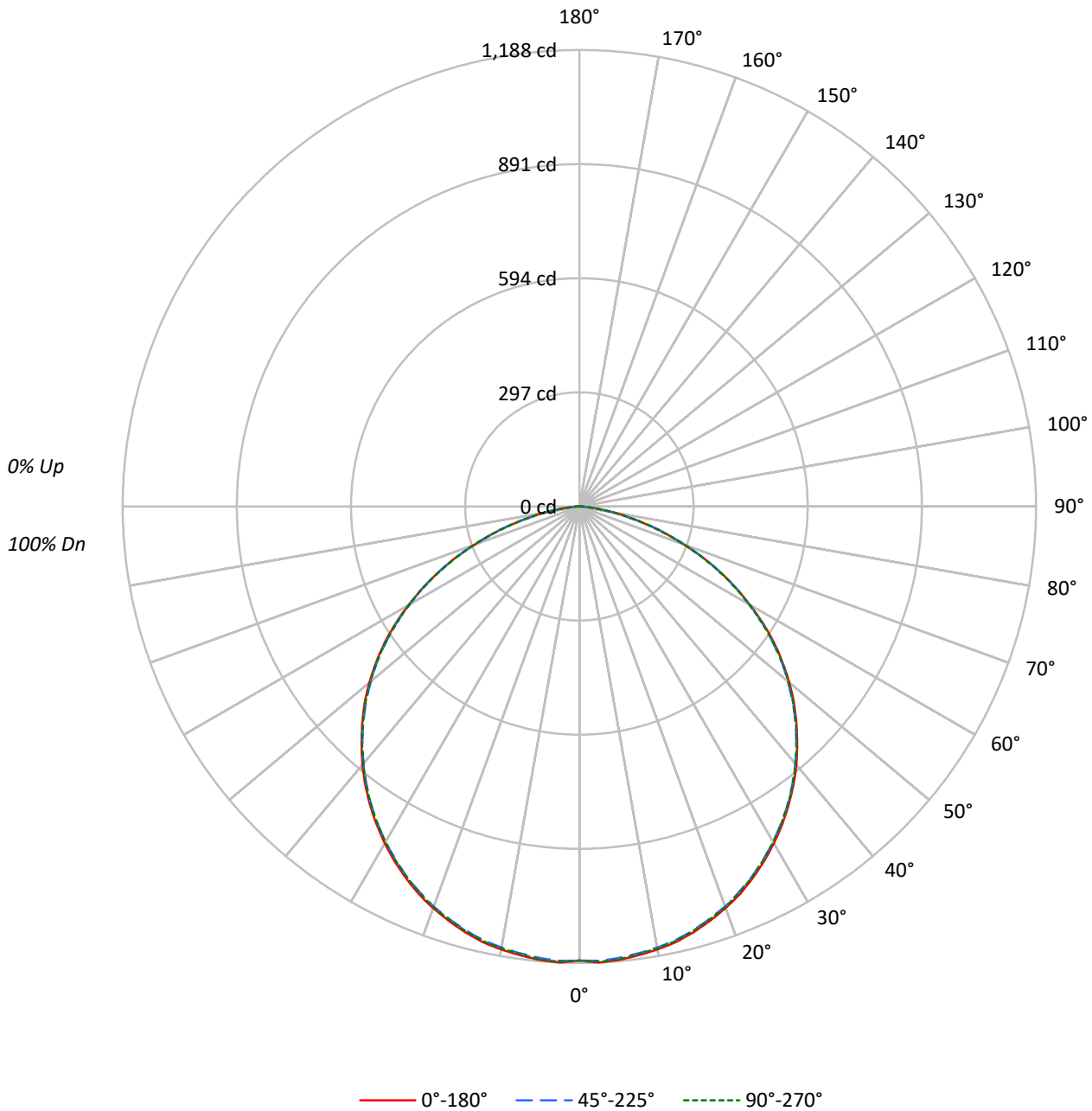
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3304.7 lumens  
Efficiency: N/A  
Efficacy: 121.5 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): 27.2  
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°	3180	3180	3180
5°	3200	3186	3196
10°	3199	3185	3191
15°	3197	3182	3187
20°	3186	3173	3177
25°	3168	3156	3158
30°	3146	3132	3134
35°	3117	3105	3108
40°	3085	3069	3072
45°	3039	3025	3030
50°	2985	2964	2970
55°	2900	2876	2887
60°	2758	2746	2746
65°	2575	2570	2561
70°	2280	2291	2286
75°	1920	1905	1889
80°	1379	1358	1347
85°	722	722	698

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3039 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.9	3.4
10°-20°	321.8	9.7
20°-30°	489.0	14.8
30°-40°	591.1	17.9
40°-50°	613.5	18.6
50°-60°	548.5	16.6
60°-70°	398.8	12.1
70°-80°	196.1	5.9
80°-90°	34.0	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°	922.7	27.9
0°-40°	1513.8	45.8
0°-60°	2675.8	81.0
0°-90°	3304.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3304.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1185	1171	1180	1175	1183	113
15°	1147	1134	1142	1139	1144	324
25°	1067	1056	1063	1061	1064	492
35°	949	942	945	946	946	594
45°	798	795	795	796	796	616
55°	618	615	613	615	615	551
65°	404	406	404	404	402	399
75°	185	186	183	184	182	196
85°	23	24	23	23	23	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1181.7	1181.7	1181.7	1181.7	1181.7
2.5°	1188.3	1174.4	1183.2	1178.1	1186.1
5°	1184.7	1170.8	1179.5	1175.2	1183.2
7.5°	1178.1	1164.2	1173.0	1168.6	1175.2
10°	1170.8	1156.2	1165.7	1161.3	1167.9
12.5°	1161.3	1147.4	1156.2	1152.5	1158.4
15°	1147.4	1134.3	1142.3	1139.4	1143.8
17.5°	1130.6	1117.5	1125.5	1123.3	1127.0
20°	1112.4	1100.0	1108.0	1105.8	1109.5
22.5°	1092.0	1078.8	1086.1	1084.7	1087.6
25°	1067.1	1055.5	1062.8	1060.6	1063.5
27.5°	1040.9	1029.9	1035.8	1035.8	1037.2
30°	1012.4	1002.2	1008.0	1008.0	1008.7
32.5°	981.7	973.7	977.4	978.1	978.1
35°	948.9	942.3	945.2	946.0	946.0
37.5°	914.6	908.0	910.2	911.7	911.7
40°	878.1	872.3	873.7	875.2	874.4
42.5°	838.7	834.3	835.0	836.5	836.5
45°	798.5	794.9	794.9	796.3	796.3
47.5°	757.7	754.0	752.5	754.0	754.0
50°	713.1	709.5	708.0	709.5	709.5
52.5°	666.4	662.8	662.8	662.8	663.5
55°	618.2	614.6	613.1	614.6	615.3
57.5°	567.1	565.7	563.5	564.2	562.0
60°	512.4	512.4	510.2	511.7	510.2
62.5°	459.1	460.6	458.4	458.4	456.9
65°	404.4	405.8	403.6	403.6	402.2
67.5°	348.2	350.4	347.4	347.4	346.0
70°	289.8	294.2	291.2	292.0	290.5
72.5°	237.2	239.4	236.5	236.5	235.0
75°	184.7	186.1	183.2	183.9	181.7
77.5°	132.8	135.0	132.1	132.8	132.1
80°	89.0	89.8	87.6	88.3	86.9
82.5°	51.8	52.6	51.8	51.1	50.4
85°	23.4	24.1	23.4	23.4	22.6
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)