

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: P973636

Luminaire Tested: FLR2-22-45-L840-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973636
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: FLR2-22-45-L840-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

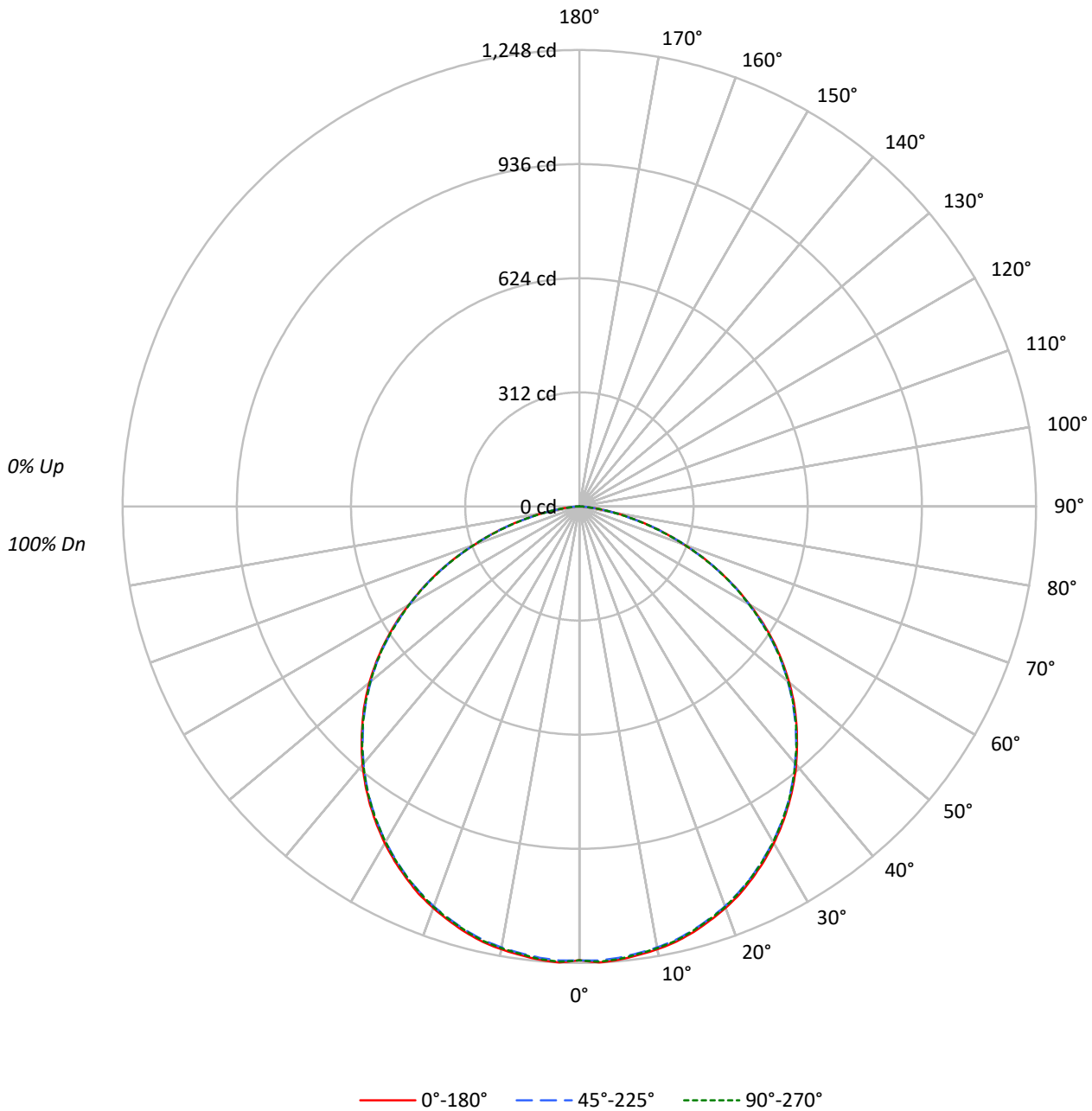
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3470.5 lumens
Efficiency: N/A
Efficacy: 96.1 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): 36.1
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°	3340	3340	3340
5°	3361	3346	3356
10°	3360	3345	3351
15°	3357	3342	3346
20°	3345	3332	3336
25°	3327	3314	3316
30°	3304	3289	3292
35°	3274	3261	3263
40°	3239	3223	3226
45°	3191	3177	3183
50°	3135	3113	3119
55°	3046	3021	3032
60°	2896	2884	2884
65°	2704	2699	2690
70°	2394	2406	2400
75°	2016	2000	1985
80°	1449	1426	1413
85°	756	756	735

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3191 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	3.4
10°-20°	337.9	9.7
20°-30°	513.5	14.8
30°-40°	620.7	17.9
40°-50°	644.3	18.6
50°-60°	576.0	16.6
60°-70°	418.8	12.1
70°-80°	205.9	5.9
80°-90°	35.7	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°	969.0	27.9
0°-40°	1589.7	45.8
0°-60°	2810.0	81.0
0°-90°	3470.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3470.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1241	1241	1241	1241	1241	
5°	1244	1230	1239	1234	1242	118
15°	1205	1191	1200	1196	1201	340
25°	1121	1108	1116	1114	1117	517
35°	996	990	993	993	993	623
45°	839	835	835	836	836	647
55°	649	645	644	645	646	579
65°	425	426	424	424	422	419
75°	194	196	192	193	191	206
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°	1241.0	1241.0	1241.0	1241.0	1241.0
2.5°	1247.9	1233.3	1242.5	1237.2	1245.6
5°	1244.1	1229.5	1238.7	1234.1	1242.5
7.5°	1237.2	1222.6	1231.8	1227.2	1234.1
10°	1229.5	1214.2	1224.1	1219.5	1226.4
12.5°	1219.5	1205.0	1214.2	1210.3	1216.5
15°	1205.0	1191.2	1199.6	1196.5	1201.1
17.5°	1187.3	1173.5	1182.0	1179.7	1183.5
20°	1168.2	1155.1	1163.6	1161.3	1165.1
22.5°	1146.7	1132.9	1140.6	1139.0	1142.1
25°	1120.6	1108.4	1116.0	1113.7	1116.8
27.5°	1093.1	1081.6	1087.7	1087.7	1089.2
30°	1063.2	1052.4	1058.6	1058.6	1059.3
32.5°	1031.0	1022.5	1026.4	1027.1	1027.1
35°	996.5	989.6	992.6	993.4	993.4
37.5°	960.4	953.5	955.8	957.4	957.4
40°	922.1	916.0	917.5	919.1	918.3
42.5°	880.7	876.1	876.9	878.4	878.4
45°	838.6	834.7	834.7	836.3	836.3
47.5°	795.6	791.8	790.3	791.8	791.8
50°	748.9	745.1	743.5	745.1	745.1
52.5°	699.8	696.0	696.0	696.0	696.8
55°	649.2	645.4	643.9	645.4	646.2
57.5°	595.6	594.0	591.8	592.5	590.2
60°	538.1	538.1	535.8	537.3	535.8
62.5°	482.1	483.7	481.4	481.4	479.8
65°	424.6	426.2	423.9	423.9	422.4
67.5°	365.6	367.9	364.9	364.9	363.3
70°	304.3	308.9	305.8	306.6	305.1
72.5°	249.1	251.4	248.4	248.4	246.8
75°	193.9	195.5	192.4	193.2	190.9
77.5°	139.5	141.8	138.7	139.5	138.7
80°	93.5	94.3	92.0	92.7	91.2
82.5°	54.4	55.2	54.4	53.7	52.9
85°	24.5	25.3	24.5	24.5	23.8
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)