

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: P973652

Luminaire Tested: FLR2-22-45-L940-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973652
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-L940-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

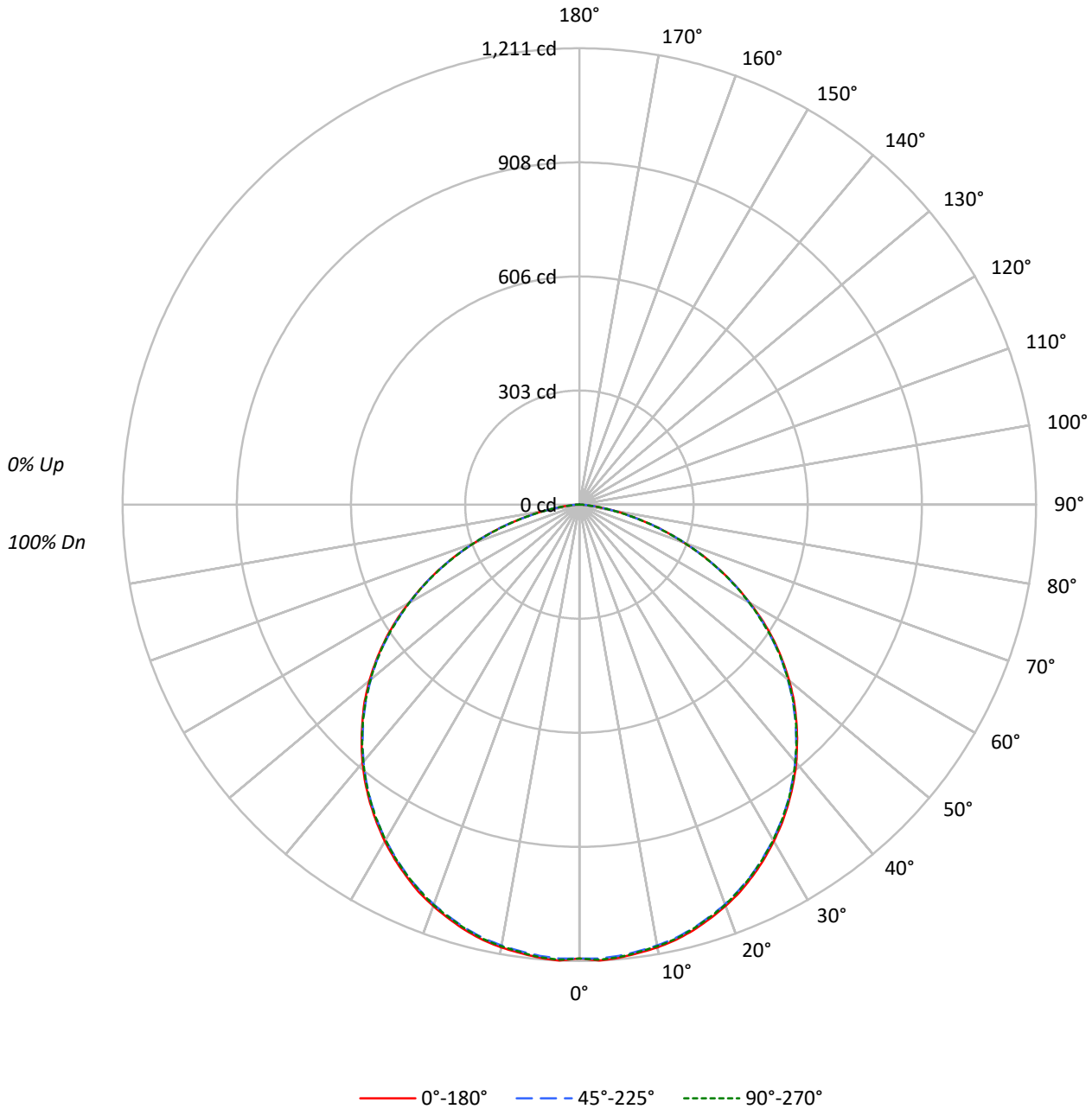
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3367.8 lumens
Efficiency: N/A
Efficacy: 93.3 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°	3241	3241	3241
5°	3261	3247	3257
10°	3260	3246	3252
15°	3258	3243	3247
20°	3246	3233	3238
25°	3229	3216	3218
30°	3206	3192	3194
35°	3177	3165	3167
40°	3143	3128	3130
45°	3097	3083	3088
50°	3042	3021	3027
55°	2956	2931	2942
60°	2810	2798	2798
65°	2624	2619	2610
70°	2323	2335	2329
75°	1957	1941	1926
80°	1406	1384	1371
85°	735	735	713

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3097 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	3.4
10°-20°	327.9	9.7
20°-30°	498.3	14.8
30°-40°	602.4	17.9
40°-50°	625.2	18.6
50°-60°	559.0	16.6
60°-70°	406.4	12.1
70°-80°	199.8	5.9
80°-90°	34.7	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°	940.3	27.9
0°-40°	1542.7	45.8
0°-60°	2726.8	81.0
0°-90°	3367.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3367.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1204	1204	1204	1204	1204	
5°	1207	1193	1202	1198	1206	115
15°	1169	1156	1164	1161	1166	330
25°	1088	1076	1083	1081	1084	501
35°	967	960	963	964	964	605
45°	814	810	810	812	812	628
55°	630	626	625	626	627	562
65°	412	414	411	411	410	406
75°	188	190	187	187	185	200
85°	24	24	24	24	23	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1204.3	1204.3	1204.3	1204.3	1204.3
2.5°	1211.0	1196.8	1205.7	1200.5	1208.7
5°	1207.2	1193.1	1202.0	1197.6	1205.7
7.5°	1200.5	1186.4	1195.3	1190.9	1197.6
10°	1193.1	1178.2	1187.9	1183.4	1190.1
12.5°	1183.4	1169.3	1178.2	1174.5	1180.5
15°	1169.3	1155.9	1164.1	1161.1	1165.6
17.5°	1152.2	1138.8	1147.0	1144.8	1148.5
20°	1133.6	1121.0	1129.1	1126.9	1130.6
22.5°	1112.8	1099.4	1106.8	1105.3	1108.3
25°	1087.5	1075.6	1083.0	1080.8	1083.8
27.5°	1060.7	1049.5	1055.5	1055.5	1057.0
30°	1031.7	1021.3	1027.2	1027.2	1028.0
32.5°	1000.5	992.3	996.0	996.7	996.7
35°	967.0	960.3	963.3	964.0	964.0
37.5°	932.0	925.3	927.6	929.0	929.0
40°	894.8	888.9	890.4	891.9	891.1
42.5°	854.7	850.2	850.9	852.4	852.4
45°	813.7	810.0	810.0	811.5	811.5
47.5°	772.1	768.4	766.9	768.4	768.4
50°	726.7	723.0	721.5	723.0	723.0
52.5°	679.1	675.4	675.4	675.4	676.1
55°	630.0	626.3	624.8	626.3	627.0
57.5°	578.0	576.5	574.2	575.0	572.7
60°	522.2	522.2	519.9	521.4	519.9
62.5°	467.9	469.4	467.1	467.1	465.6
65°	412.1	413.6	411.3	411.3	409.9
67.5°	354.8	357.0	354.1	354.1	352.6
70°	295.3	299.8	296.8	297.5	296.0
72.5°	241.7	244.0	241.0	241.0	239.5
75°	188.2	189.7	186.7	187.4	185.2
77.5°	135.4	137.6	134.6	135.4	134.6
80°	90.7	91.5	89.3	90.0	88.5
82.5°	52.8	53.6	52.8	52.1	51.3
85°	23.8	24.5	23.8	23.8	23.1
87.5°	6.0	6.0	6.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)