

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: P973584

Luminaire Tested: FLR2-22-45-L935-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973584
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-L935-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

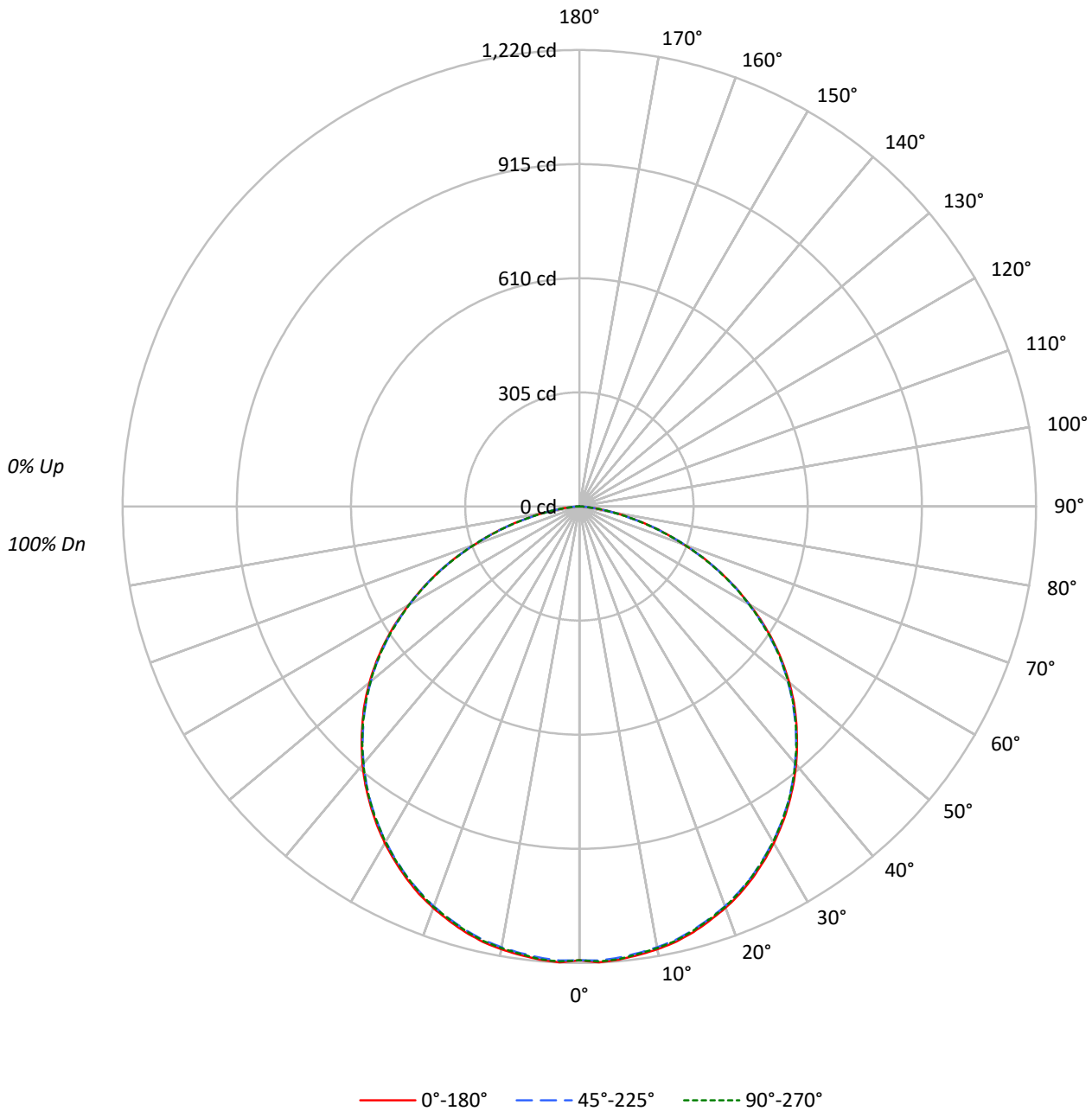
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3391.8 lumens
Efficiency: N/A
Efficacy: 94.0 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): 36.1
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										
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	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						100														
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71						71														
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60						60														
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44														
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39														
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30						30														
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27						27														
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3264	3264	3264
5°	3284	3270	3280
10°	3283	3269	3275
15°	3281	3266	3270
20°	3269	3257	3261
25°	3252	3239	3241
30°	3229	3215	3217
35°	3199	3187	3189
40°	3166	3150	3153
45°	3119	3105	3110
50°	3064	3042	3049
55°	2977	2952	2963
60°	2830	2819	2819
65°	2642	2638	2628
70°	2340	2352	2346
75°	1970	1955	1939
80°	1416	1393	1381
85°	741	741	716

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3119 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	3.4
10°-20°	330.3	9.7
20°-30°	501.9	14.8
30°-40°	606.7	17.9
40°-50°	629.7	18.6
50°-60°	563.0	16.6
60°-70°	409.3	12.1
70°-80°	201.3	5.9
80°-90°	34.9	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°	947.0	27.9
0°-40°	1553.7	45.8
0°-60°	2746.3	81.0
0°-90°	3391.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3391.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1213	1213	1213	1213	1213	
5°	1216	1202	1211	1206	1214	116
15°	1178	1164	1172	1169	1174	332
25°	1095	1083	1091	1088	1092	505
35°	974	967	970	971	971	609
45°	820	816	816	817	817	632
55°	634	631	629	631	632	566
65°	415	416	414	414	413	409
75°	190	191	188	189	186	201
85°	24	25	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°	1212.9	1212.9	1212.9	1212.9	1212.9
2.5°	1219.6	1205.4	1214.4	1209.1	1217.4
5°	1215.9	1201.6	1210.6	1206.1	1214.4
7.5°	1209.1	1194.9	1203.9	1199.4	1206.1
10°	1201.6	1186.7	1196.4	1191.9	1198.6
12.5°	1191.9	1177.7	1186.7	1182.9	1188.9
15°	1177.7	1164.2	1172.4	1169.4	1173.9
17.5°	1160.4	1146.9	1155.2	1152.9	1156.7
20°	1141.7	1129.0	1137.2	1135.0	1138.7
22.5°	1120.7	1107.2	1114.7	1113.2	1116.2
25°	1095.3	1083.3	1090.8	1088.5	1091.5
27.5°	1068.3	1057.0	1063.0	1063.0	1064.5
30°	1039.1	1028.6	1034.6	1034.6	1035.3
32.5°	1007.6	999.4	1003.1	1003.9	1003.9
35°	973.9	967.2	970.1	970.9	970.9
37.5°	938.7	931.9	934.2	935.7	935.7
40°	901.2	895.2	896.7	898.2	897.5
42.5°	860.8	856.3	857.0	858.5	858.5
45°	819.6	815.8	815.8	817.3	817.3
47.5°	777.6	773.9	772.4	773.9	773.9
50°	731.9	728.2	726.7	728.2	728.2
52.5°	684.0	680.2	680.2	680.2	681.0
55°	634.5	630.8	629.3	630.8	631.5
57.5°	582.1	580.6	578.3	579.1	576.8
60°	525.9	525.9	523.7	525.2	523.7
62.5°	471.2	472.7	470.5	470.5	469.0
65°	415.0	416.5	414.3	414.3	412.8
67.5°	357.3	359.6	356.6	356.6	355.1
70°	297.4	301.9	298.9	299.7	298.2
72.5°	243.5	245.7	242.7	242.7	241.2
75°	189.5	191.0	188.0	188.8	186.5
77.5°	136.3	138.6	135.6	136.3	135.6
80°	91.4	92.1	89.9	90.6	89.1
82.5°	53.2	53.9	53.2	52.4	51.7
85°	24.0	24.7	24.0	24.0	23.2
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)