

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: P973600

Luminaire Tested: FLR2-22-45-L935-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973600
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-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

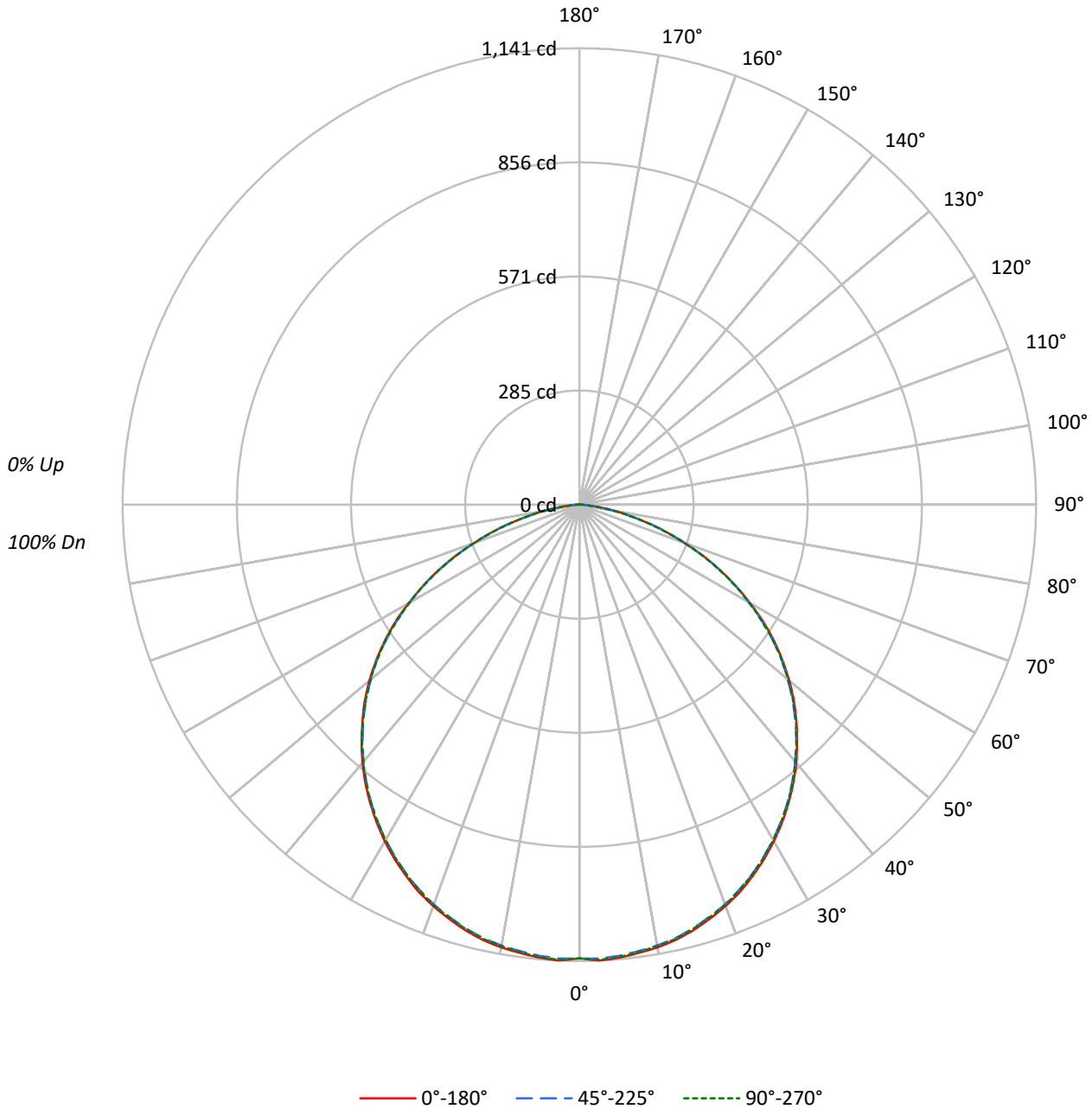
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3173.0 lumens
Efficiency: N/A
Efficacy: 87.9 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

TEST NUMBER: P973600
CATALOG NUMBER: FLR2-22-45-L935-CP375

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°	3053	3053	3053
5°	3072	3059	3069
10°	3072	3058	3064
15°	3069	3056	3059
20°	3058	3046	3050
25°	3042	3030	3032
30°	3020	3007	3009
35°	2993	2982	2984
40°	2962	2947	2949
45°	2918	2904	2910
50°	2866	2846	2852
55°	2785	2762	2772
60°	2648	2637	2637
65°	2472	2468	2458
70°	2189	2200	2194
75°	1843	1829	1814
80°	1325	1303	1292
85°	692	692	670

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2918 cd/sqm



TEST NUMBER: P973600
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	3.4
10°-20°	309.0	9.7
20°-30°	469.5	14.8
30°-40°	567.5	17.9
40°-50°	589.0	18.6
50°-60°	526.6	16.6
60°-70°	382.9	12.1
70°-80°	188.3	5.9
80°-90°	32.7	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°	885.9	27.9
0°-40°	1453.5	45.8
0°-60°	2569.1	81.0
0°-90°	3173.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3173.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1137	1124	1132	1128	1136	108
15°	1102	1089	1097	1094	1098	311
25°	1025	1013	1020	1018	1021	472
35°	911	905	908	908	908	570
45°	767	763	763	765	765	591
55°	594	590	589	590	591	529
65°	388	390	388	388	386	383
75°	177	179	176	177	174	188
85°	22	23	22	22	22	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1134.6	1134.6	1134.6	1134.6	1134.6
2.5°	1140.9	1127.6	1136.0	1131.1	1138.8
5°	1137.4	1124.1	1132.5	1128.3	1136.0
7.5°	1131.1	1117.8	1126.2	1122.0	1128.3
10°	1124.1	1110.1	1119.2	1115.0	1121.3
12.5°	1115.0	1101.7	1110.1	1106.6	1112.2
15°	1101.7	1089.1	1096.8	1094.0	1098.2
17.5°	1085.6	1072.9	1080.7	1078.6	1082.1
20°	1068.0	1056.1	1063.8	1061.7	1065.2
22.5°	1048.4	1035.8	1042.8	1041.4	1044.2
25°	1024.6	1013.4	1020.4	1018.3	1021.1
27.5°	999.4	988.9	994.5	994.5	995.9
30°	972.0	962.2	967.8	967.8	968.5
32.5°	942.6	934.9	938.4	939.1	939.1
35°	911.1	904.8	907.6	908.3	908.3
37.5°	878.1	871.8	873.9	875.3	875.3
40°	843.1	837.5	838.9	840.3	839.6
42.5°	805.2	801.0	801.7	803.1	803.1
45°	766.7	763.2	763.2	764.6	764.6
47.5°	727.4	723.9	722.5	723.9	723.9
50°	684.7	681.2	679.8	681.2	681.2
52.5°	639.8	636.3	636.3	636.3	637.0
55°	593.6	590.1	588.7	590.1	590.8
57.5°	544.5	543.1	541.0	541.7	539.6
60°	492.0	492.0	489.9	491.3	489.9
62.5°	440.8	442.2	440.1	440.1	438.7
65°	388.3	389.7	387.6	387.6	386.1
67.5°	334.3	336.4	333.6	333.6	332.2
70°	278.2	282.4	279.6	280.3	278.9
72.5°	227.8	229.9	227.1	227.1	225.7
75°	177.3	178.7	175.9	176.6	174.5
77.5°	127.5	129.7	126.8	127.5	126.8
80°	85.5	86.2	84.1	84.8	83.4
82.5°	49.8	50.5	49.8	49.1	48.4
85°	22.4	23.1	22.4	22.4	21.7
87.5°	5.6	5.6	5.6	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)