

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: P973592

Luminaire Tested: FLR2-22-45-L935-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973592
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

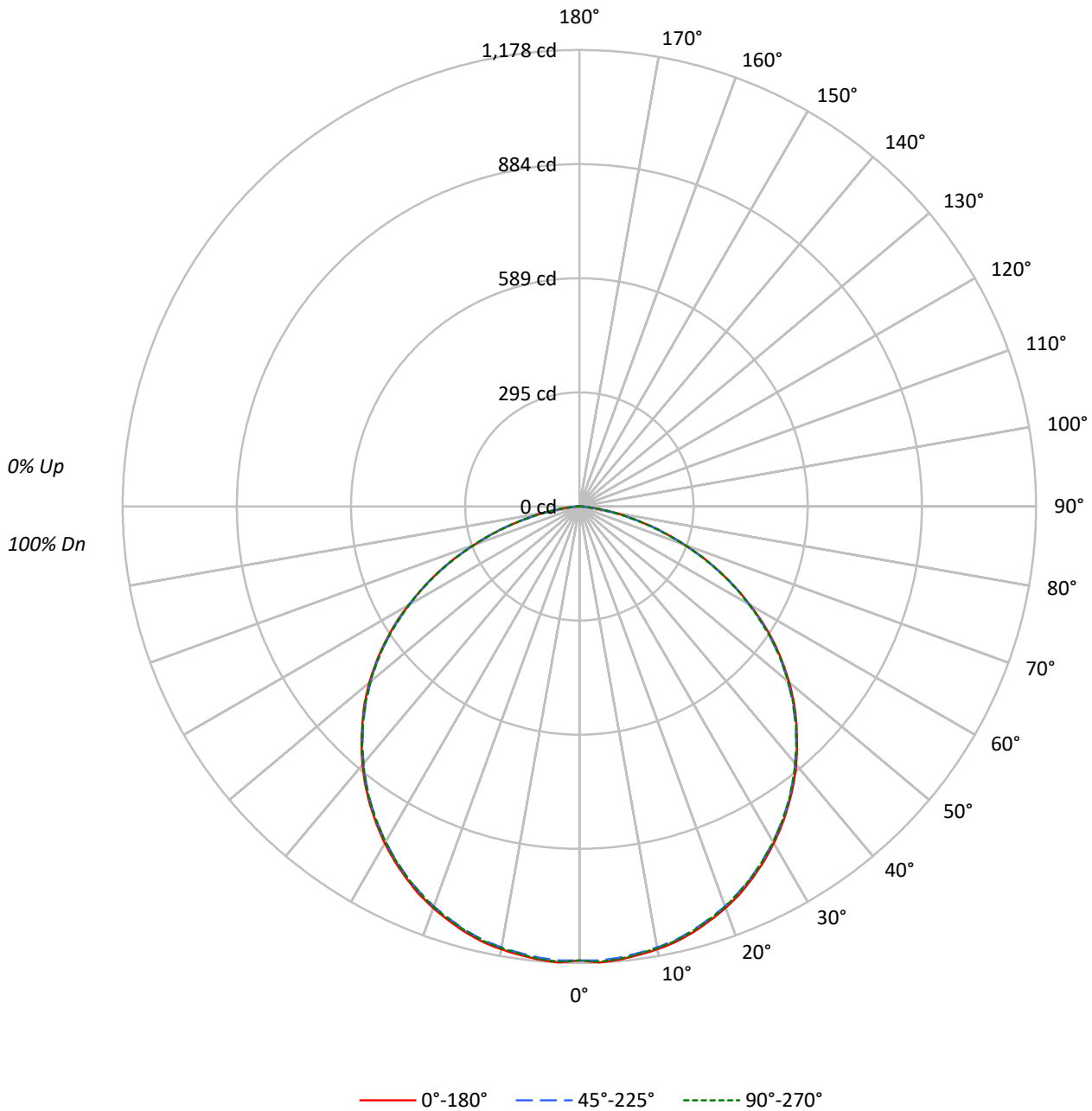
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3275.9 lumens
Efficiency: N/A
Efficacy: 90.7 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°	3152	3152	3152
5°	3172	3158	3168
10°	3171	3157	3163
15°	3169	3154	3159
20°	3158	3145	3149
25°	3141	3128	3130
30°	3118	3105	3107
35°	3090	3078	3080
40°	3058	3042	3045
45°	3012	2998	3004
50°	2959	2938	2944
55°	2875	2852	2861
60°	2733	2722	2722
65°	2552	2548	2539
70°	2260	2271	2266
75°	1904	1888	1874
80°	1368	1345	1334
85°	716	716	692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3012 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	3.4
10°-20°	319.0	9.7
20°-30°	484.7	14.8
30°-40°	585.9	17.9
40°-50°	608.2	18.6
50°-60°	543.7	16.6
60°-70°	395.3	12.1
70°-80°	194.4	5.9
80°-90°	33.7	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°	914.7	27.9
0°-40°	1500.6	45.8
0°-60°	2652.4	81.0
0°-90°	3275.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3275.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1171	1171	1171	1171	1171	
5°	1174	1160	1169	1165	1173	112
15°	1137	1124	1132	1129	1134	321
25°	1058	1046	1054	1051	1054	488
35°	941	934	937	938	938	588
45°	792	788	788	789	789	611
55°	613	609	608	609	610	546
65°	401	402	400	400	399	395
75°	183	184	182	182	180	194
85°	23	24	23	23	22	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1171.4	1171.4	1171.4	1171.4	1171.4
2.5°	1177.9	1164.2	1172.8	1167.8	1175.7
5°	1174.3	1160.5	1169.2	1164.9	1172.8
7.5°	1167.8	1154.0	1162.7	1158.4	1164.9
10°	1160.5	1146.1	1155.5	1151.1	1157.6
12.5°	1151.1	1137.4	1146.1	1142.4	1148.2
15°	1137.4	1124.4	1132.3	1129.4	1133.8
17.5°	1120.7	1107.7	1115.7	1113.5	1117.1
20°	1102.7	1090.4	1098.3	1096.1	1099.8
22.5°	1082.4	1069.4	1076.6	1075.2	1078.1
25°	1057.8	1046.2	1053.5	1051.3	1054.2
27.5°	1031.7	1020.9	1026.7	1026.7	1028.1
30°	1003.5	993.4	999.2	999.2	999.9
32.5°	973.1	965.2	968.8	969.5	969.5
35°	940.6	934.1	937.0	937.7	937.7
37.5°	906.6	900.1	902.2	903.7	903.7
40°	870.4	864.6	866.1	867.5	866.8
42.5°	831.3	827.0	827.7	829.2	829.2
45°	791.5	787.9	787.9	789.4	789.4
47.5°	751.0	747.4	746.0	747.4	747.4
50°	706.9	703.3	701.8	703.3	703.3
52.5°	660.6	657.0	657.0	657.0	657.7
55°	612.8	609.2	607.8	609.2	609.9
57.5°	562.2	560.7	558.6	559.3	557.1
60°	507.9	507.9	505.7	507.2	505.7
62.5°	455.1	456.5	454.4	454.4	452.9
65°	400.8	402.3	400.1	400.1	398.7
67.5°	345.1	347.3	344.4	344.4	343.0
70°	287.2	291.6	288.7	289.4	288.0
72.5°	235.1	237.3	234.4	234.4	233.0
75°	183.1	184.5	181.6	182.3	180.2
77.5°	131.7	133.9	131.0	131.7	131.0
80°	88.3	89.0	86.8	87.5	86.1
82.5°	51.4	52.1	51.4	50.6	49.9
85°	23.2	23.9	23.2	23.2	22.4
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)