

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: P973656

Luminaire Tested: FLR2-22-45-L940-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973656
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-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

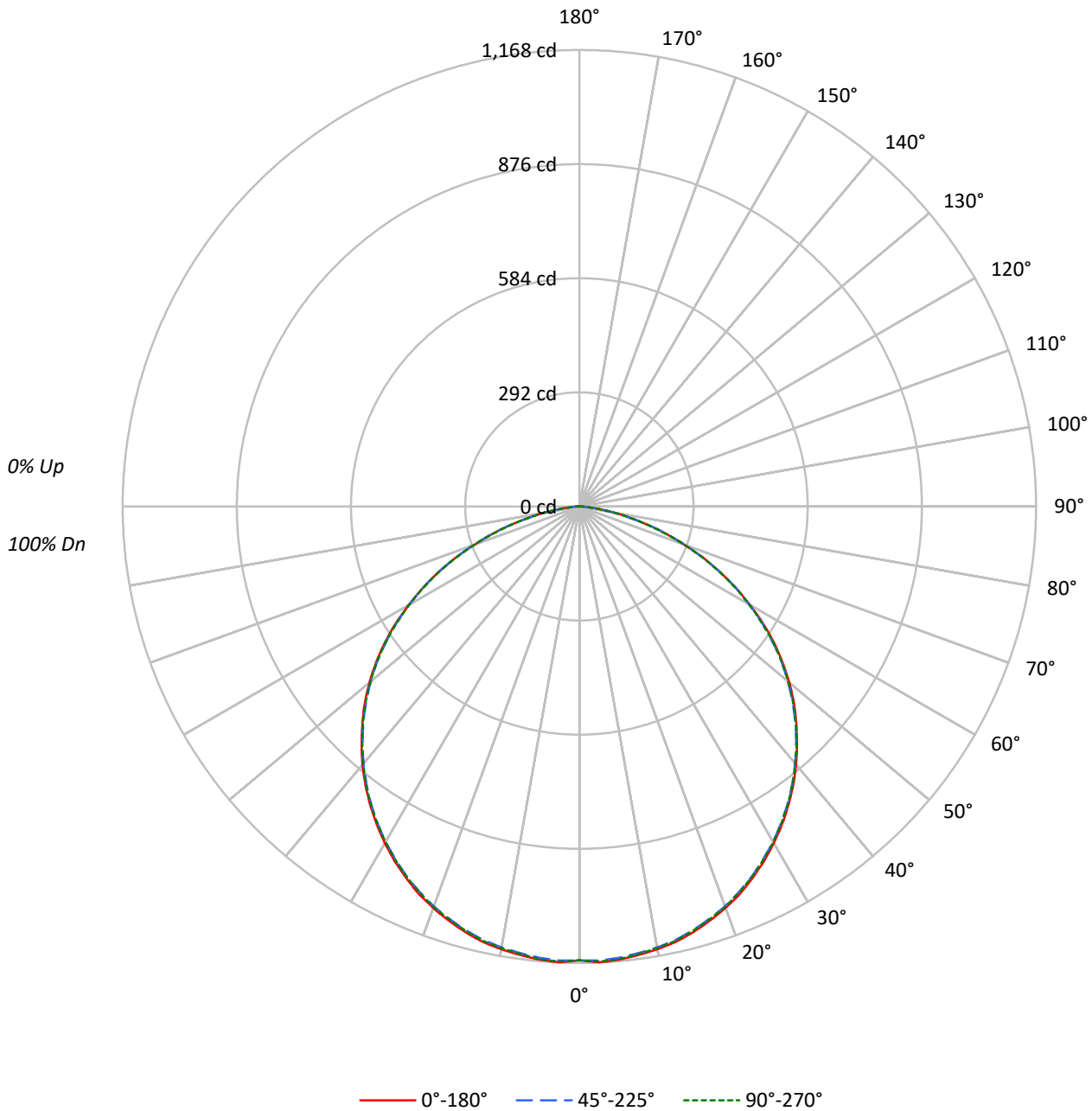
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3247.6 lumens
Efficiency: N/A
Efficacy: 90.0 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°	3125	3125	3125
5°	3145	3131	3141
10°	3144	3130	3136
15°	3141	3127	3131
20°	3131	3118	3122
25°	3114	3101	3103
30°	3091	3078	3080
35°	3063	3052	3054
40°	3031	3016	3019
45°	2986	2973	2978
50°	2934	2913	2919
55°	2851	2827	2837
60°	2710	2699	2699
65°	2530	2526	2516
70°	2241	2252	2246
75°	1887	1871	1857
80°	1356	1334	1323
85°	710	710	685

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2986 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	3.4
10°-20°	316.2	9.7
20°-30°	480.6	14.8
30°-40°	580.9	17.9
40°-50°	602.9	18.6
50°-60°	539.0	16.6
60°-70°	391.9	12.1
70°-80°	192.7	5.9
80°-90°	33.4	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°	906.8	27.9
0°-40°	1487.7	45.8
0°-60°	2629.6	81.0
0°-90°	3247.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3247.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1161	1161	1161	1161	1161	
5°	1164	1151	1159	1155	1163	111
15°	1128	1115	1123	1120	1124	318
25°	1049	1037	1044	1042	1045	483
35°	932	926	929	930	930	583
45°	785	781	781	783	783	605
55°	608	604	602	604	605	542
65°	397	399	397	397	395	392
75°	182	183	180	181	179	193
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°	1161.3	1161.3	1161.3	1161.3	1161.3
2.5°	1167.8	1154.1	1162.8	1157.7	1165.6
5°	1164.2	1150.6	1159.2	1154.9	1162.8
7.5°	1157.7	1144.1	1152.7	1148.4	1154.9
10°	1150.6	1136.2	1145.5	1141.2	1147.7
12.5°	1141.2	1127.6	1136.2	1132.6	1138.4
15°	1127.6	1114.7	1122.6	1119.7	1124.0
17.5°	1111.1	1098.2	1106.1	1103.9	1107.5
20°	1093.2	1081.0	1088.9	1086.7	1090.3
22.5°	1073.1	1060.2	1067.3	1065.9	1068.8
25°	1048.7	1037.2	1044.4	1042.2	1045.1
27.5°	1022.9	1012.1	1017.9	1017.9	1019.3
30°	994.9	984.9	990.6	990.6	991.3
32.5°	964.8	956.9	960.5	961.2	961.2
35°	932.5	926.0	928.9	929.6	929.6
37.5°	898.8	892.3	894.5	895.9	895.9
40°	862.9	857.2	858.6	860.0	859.3
42.5°	824.2	819.9	820.6	822.0	822.0
45°	784.7	781.1	781.1	782.6	782.6
47.5°	744.6	741.0	739.5	741.0	741.0
50°	700.8	697.2	695.8	697.2	697.2
52.5°	654.9	651.3	651.3	651.3	652.0
55°	607.6	604.0	602.5	604.0	604.7
57.5°	557.3	555.9	553.8	554.5	552.3
60°	503.5	503.5	501.4	502.8	501.4
62.5°	451.2	452.6	450.5	450.5	449.0
65°	397.4	398.8	396.7	396.7	395.2
67.5°	342.2	344.3	341.4	341.4	340.0
70°	284.8	289.1	286.2	286.9	285.5
72.5°	233.1	235.3	232.4	232.4	231.0
75°	181.5	182.9	180.0	180.8	178.6
77.5°	130.5	132.7	129.8	130.5	129.8
80°	87.5	88.2	86.1	86.8	85.4
82.5°	50.9	51.6	50.9	50.2	49.5
85°	23.0	23.7	23.0	23.0	22.2
87.5°	5.7	5.7	5.7	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)