

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: P973623

Luminaire Tested: FLR2-22-35-L840-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973623
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: FLR2-22-35-L840-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

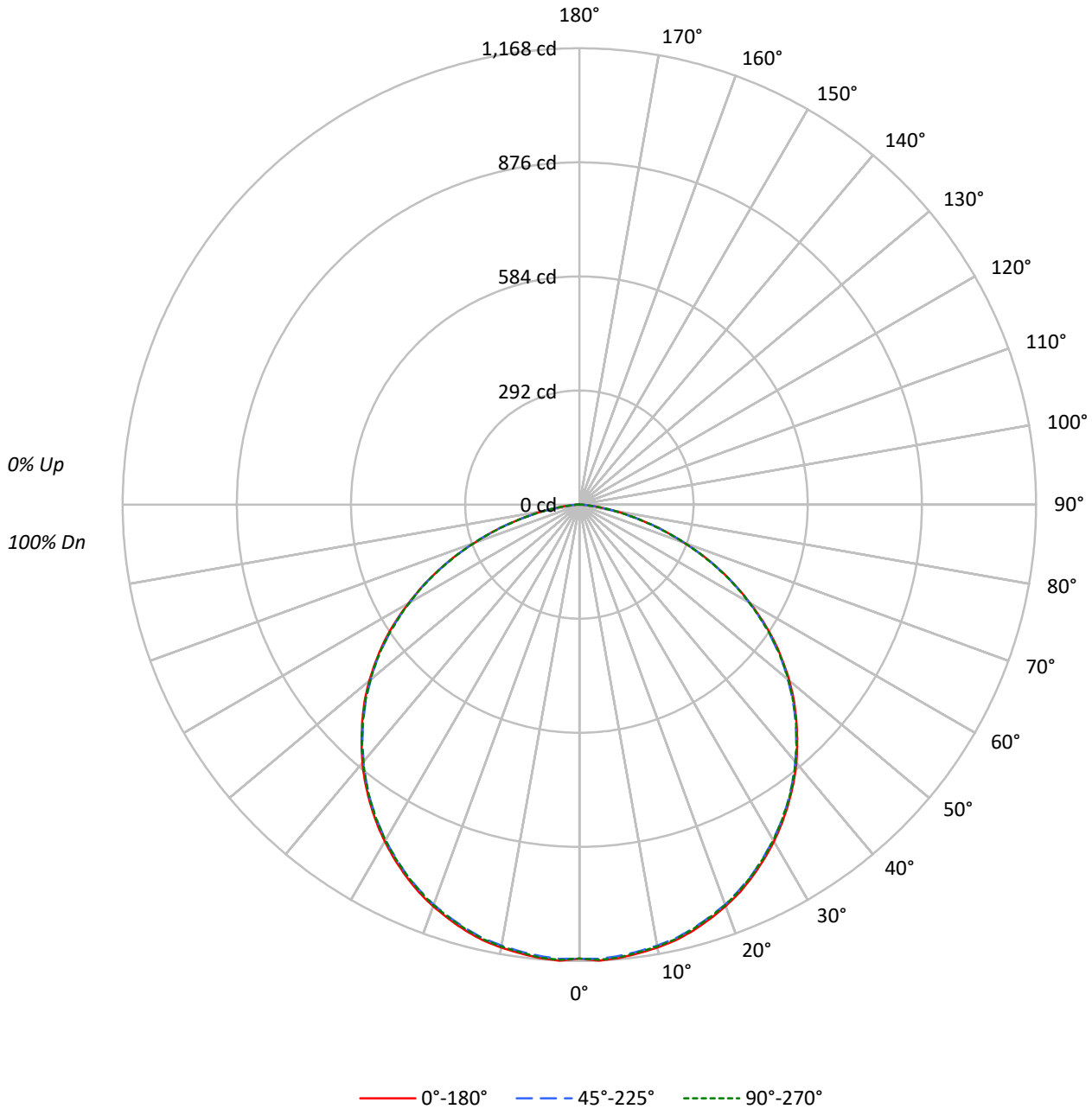
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3249.3 lumens
Efficiency: N/A
Efficacy: 116.5 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): 27.9
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°	3127	3127	3127
5°	3146	3133	3142
10°	3145	3132	3138
15°	3143	3129	3133
20°	3132	3120	3124
25°	3115	3102	3105
30°	3093	3080	3082
35°	3065	3053	3055
40°	3033	3018	3020
45°	2988	2974	2980
50°	2936	2914	2920
55°	2852	2828	2838
60°	2711	2700	2700
65°	2532	2527	2518
70°	2242	2253	2247
75°	1888	1873	1858
80°	1358	1334	1323
85°	710	710	685

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2988 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	3.4
10°-20°	316.4	9.7
20°-30°	480.8	14.8
30°-40°	581.2	17.9
40°-50°	603.2	18.6
50°-60°	539.3	16.6
60°-70°	392.1	12.1
70°-80°	192.8	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°	907.3	27.9
0°-40°	1488.4	45.8
0°-60°	2631.0	81.0
0°-90°	3249.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3249.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1162	1162	1162	1162	1162	
5°	1165	1151	1160	1156	1163	111
15°	1128	1115	1123	1120	1125	318
25°	1049	1038	1045	1043	1046	484
35°	933	926	929	930	930	584
45°	785	782	782	783	783	606
55°	608	604	603	604	605	542
65°	398	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°	1161.9	1161.9	1161.9	1161.9	1161.9
2.5°	1168.4	1154.7	1163.3	1158.3	1166.2
5°	1164.8	1151.1	1159.8	1155.5	1163.3
7.5°	1158.3	1144.7	1153.3	1149.0	1155.5
10°	1151.1	1136.8	1146.1	1141.8	1148.3
12.5°	1141.8	1128.2	1136.8	1133.2	1138.9
15°	1128.2	1115.3	1123.2	1120.3	1124.6
17.5°	1111.7	1098.8	1106.6	1104.5	1108.1
20°	1093.7	1081.5	1089.4	1087.3	1090.9
22.5°	1073.6	1060.7	1067.9	1066.5	1069.3
25°	1049.2	1037.8	1044.9	1042.8	1045.6
27.5°	1023.4	1012.6	1018.4	1018.4	1019.8
30°	995.4	985.4	991.1	991.1	991.8
32.5°	965.3	957.4	961.0	961.7	961.7
35°	933.0	926.5	929.4	930.1	930.1
37.5°	899.2	892.8	894.9	896.4	896.4
40°	863.4	857.6	859.1	860.5	859.8
42.5°	824.6	820.3	821.0	822.5	822.5
45°	785.1	781.5	781.5	783.0	783.0
47.5°	744.9	741.4	739.9	741.4	741.4
50°	701.2	697.6	696.1	697.6	697.6
52.5°	655.2	651.6	651.6	651.6	652.4
55°	607.9	604.3	602.8	604.3	605.0
57.5°	557.6	556.2	554.0	554.8	552.6
60°	503.8	503.8	501.7	503.1	501.7
62.5°	451.4	452.9	450.7	450.7	449.3
65°	397.6	399.0	396.9	396.9	395.4
67.5°	342.3	344.5	341.6	341.6	340.2
70°	284.9	289.2	286.4	287.1	285.6
72.5°	233.2	235.4	232.5	232.5	231.1
75°	181.6	183.0	180.1	180.9	178.7
77.5°	130.6	132.8	129.9	130.6	129.9
80°	87.6	88.3	86.1	86.8	85.4
82.5°	51.0	51.7	51.0	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)