

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: P974187

Luminaire Tested: FLR2-24-35-L835-CP187

Issue Date: 3/13/2025



Test Information

Test Method: LM-79-2019
Report Number: P974187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-35-L835-CP187
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L835-CP187
Ballast/Driver: -

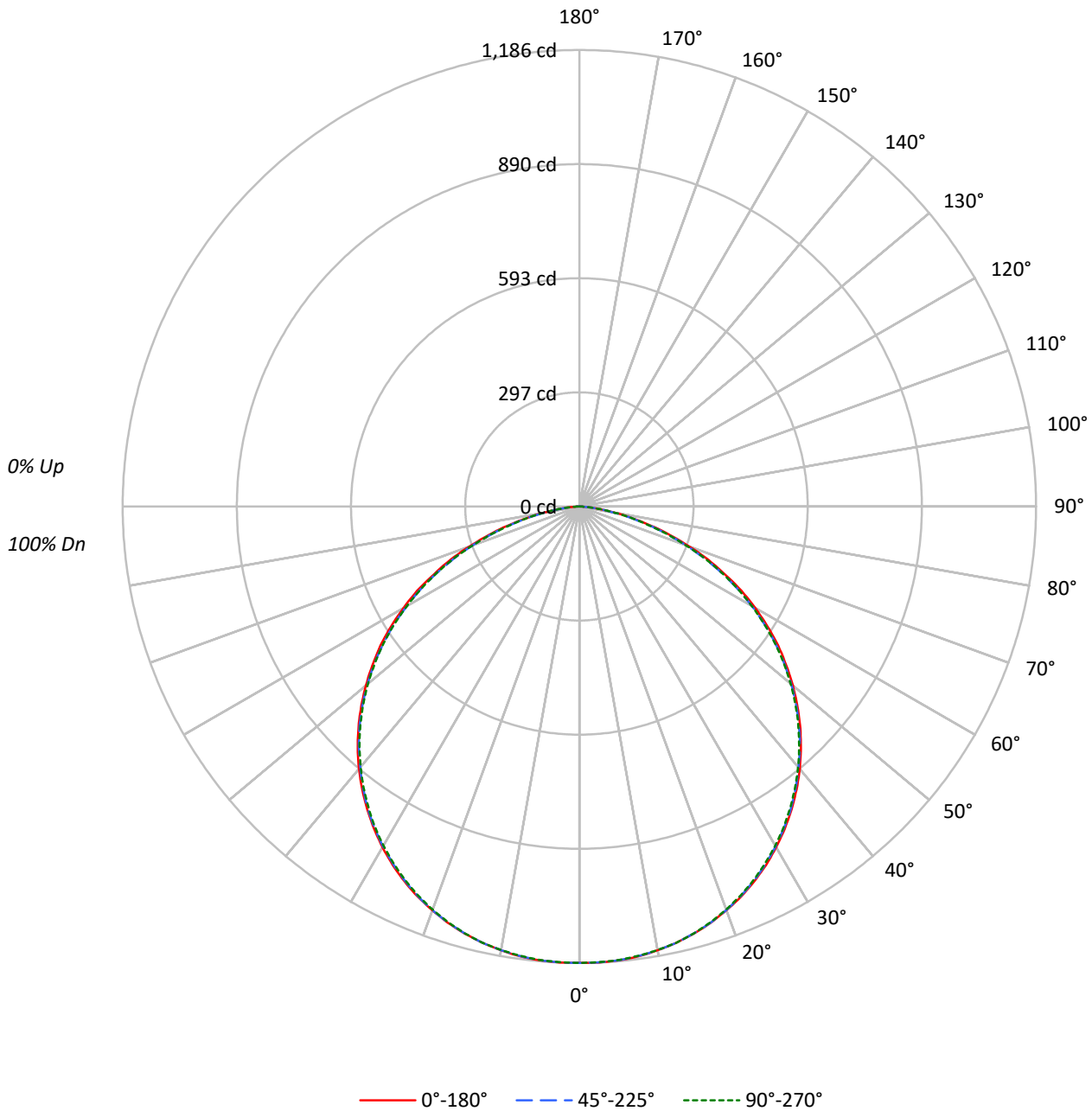
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3351.8 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.4
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: P974187
CATALOG NUMBER: FLR2-24-35-L835-CP187

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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85					85															
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44					44															
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38					38															
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34															
8	61	47	39	33	59	47	38	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	39	33	29	27					27															
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1596	1596	1596
5°	1599	1599	1598
10°	1600	1599	1599
15°	1600	1600	1600
20°	1599	1598	1596
25°	1596	1593	1590
30°	1589	1584	1581
35°	1578	1574	1568
40°	1564	1555	1552
45°	1544	1535	1530
50°	1515	1504	1499
55°	1479	1458	1456
60°	1418	1392	1392
65°	1326	1295	1299
70°	1194	1157	1153
75°	1002	962	958
80°	732	696	725
85°	414	381	387

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1544 cd/sqm



TEST NUMBER: P974187
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	3.4
10°-20°	324.3	9.7
20°-30°	494.4	14.8
30°-40°	599.1	17.9
40°-50°	622.3	18.6
50°-60°	556.7	16.6
60°-70°	405.7	12.1
70°-80°	200.9	6.0
80°-90°	35.9	1.1
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°	931.3	27.8
0°-40°	1530.4	45.7
0°-60°	2709.3	80.8
0°-90°	3351.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3351.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1186	1186	1186	1186	1186	
5°	1184	1184	1184	1184	1183	113
15°	1149	1148	1148	1149	1148	324
25°	1075	1074	1073	1072	1071	495
35°	961	960	958	957	955	601
45°	812	810	807	805	804	625
55°	631	626	622	622	621	562
65°	417	413	407	408	408	413
75°	193	190	185	188	184	206
85°	27	25	25	25	25	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1186.0	1186.0	1186.0	1186.0	1186.0
2.5°	1186.0	1185.5	1185.5	1186.0	1185.1
5°	1183.8	1184.3	1183.8	1183.8	1183.0
7.5°	1179.1	1178.7	1178.3	1178.7	1177.4
10°	1171.1	1171.1	1170.6	1171.1	1170.2
12.5°	1161.3	1161.3	1161.3	1161.7	1161.3
15°	1148.9	1148.5	1148.5	1149.4	1148.5
17.5°	1134.5	1134.0	1134.0	1133.6	1132.8
20°	1116.6	1116.6	1116.2	1115.7	1114.5
22.5°	1097.4	1097.0	1095.7	1095.7	1094.0
25°	1074.9	1073.6	1072.8	1072.3	1071.1
27.5°	1050.2	1048.5	1047.2	1046.4	1045.1
30°	1022.5	1020.8	1019.6	1018.3	1017.4
32.5°	992.8	991.9	989.8	989.4	987.7
35°	960.8	959.6	958.3	956.6	954.9
37.5°	926.8	925.5	922.5	921.7	920.4
40°	890.6	888.9	885.1	885.1	883.8
42.5°	851.9	850.2	847.7	846.0	845.1
45°	811.5	809.8	806.8	805.1	804.3
47.5°	768.5	767.2	763.8	762.6	761.3
50°	723.8	722.1	718.3	717.4	716.2
52.5°	677.0	676.2	671.1	670.6	669.4
55°	630.6	626.0	621.7	621.7	620.8
57.5°	579.6	576.2	570.6	570.6	569.8
60°	526.8	523.8	517.4	518.3	517.4
62.5°	475.3	468.9	463.0	465.5	463.4
65°	416.6	413.2	406.8	408.5	408.1
67.5°	363.0	356.6	350.6	354.0	352.3
70°	303.4	300.0	294.0	297.4	293.2
72.5°	247.2	244.3	238.3	242.1	237.9
75°	192.8	189.8	185.1	188.5	184.3
77.5°	141.3	139.1	134.9	138.3	139.1
80°	94.5	91.9	89.8	92.8	93.6
82.5°	55.3	53.6	52.8	53.2	55.3
85°	26.8	24.7	24.7	25.1	25.1
87.5°	7.2	6.4	7.2	7.7	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)