

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: P973507

Luminaire Tested: FLR2-22-35-L830-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973507
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-L830-CP187
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 2
Light Source:
Ballast/Driver: -

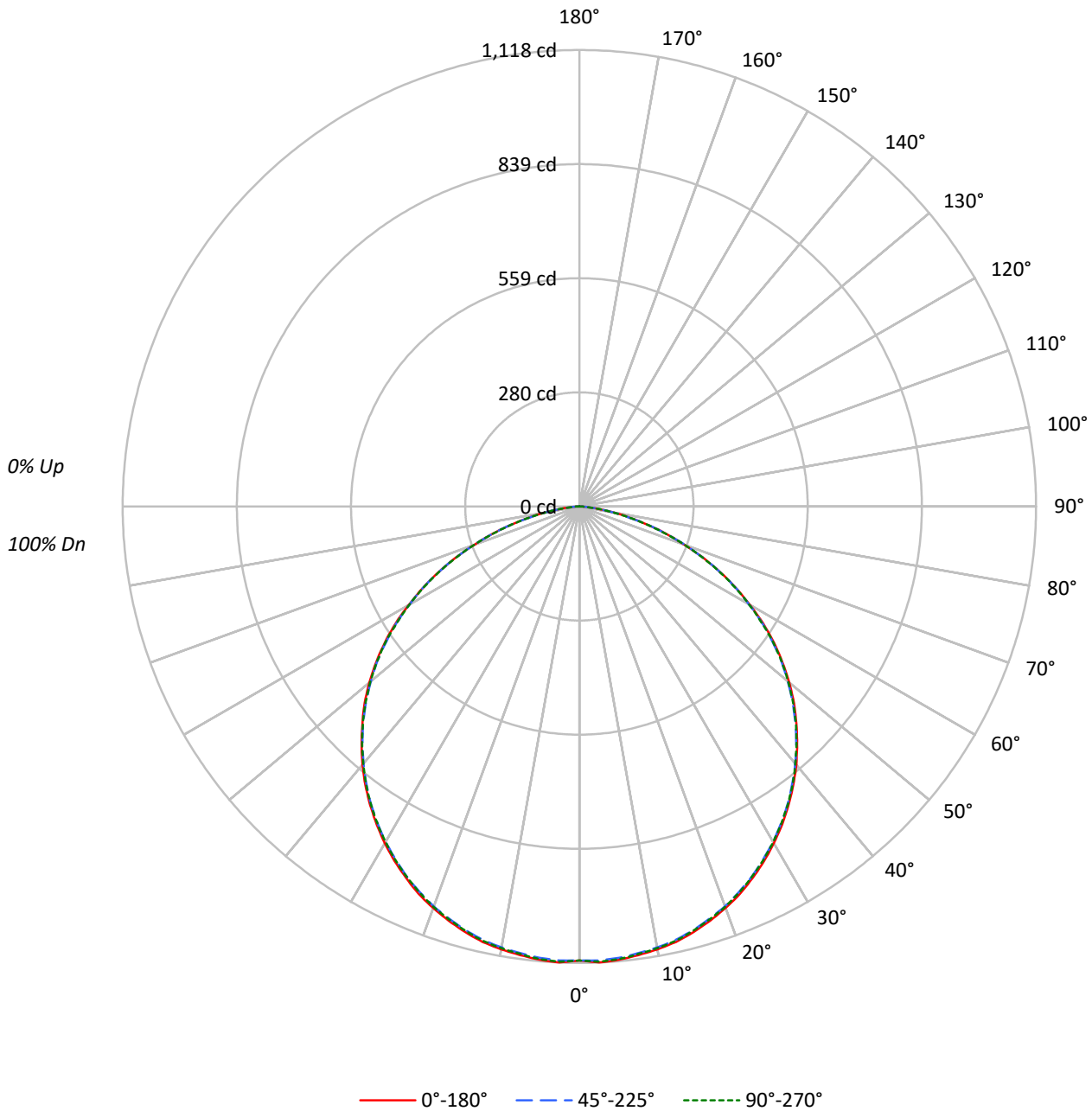
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3109.4 lumens
Efficiency: N/A
Efficacy: 111.4 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									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°	2992	2992	2992
5°	3011	2998	3007
10°	3010	2997	3002
15°	3008	2994	2998
20°	2997	2985	2989
25°	2981	2969	2971
30°	2960	2947	2949
35°	2933	2922	2924
40°	2902	2888	2890
45°	2859	2846	2852
50°	2809	2789	2794
55°	2729	2707	2716
60°	2595	2583	2583
65°	2423	2418	2409
70°	2145	2156	2150
75°	1806	1792	1778
80°	1299	1277	1266
85°	679	679	658

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2859 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	3.4
10°-20°	302.8	9.7
20°-30°	460.1	14.8
30°-40°	556.1	17.9
40°-50°	577.2	18.6
50°-60°	516.1	16.6
60°-70°	375.2	12.1
70°-80°	184.5	5.9
80°-90°	32.0	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°	868.2	27.9
0°-40°	1424.3	45.8
0°-60°	2517.6	81.0
0°-90°	3109.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3109.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1115	1102	1110	1106	1113	106
15°	1080	1067	1075	1072	1076	305
25°	1004	993	1000	998	1001	463
35°	893	887	889	890	890	559
45°	751	748	748	749	749	580
55°	582	578	577	578	579	518
65°	380	382	380	380	378	375
75°	174	175	172	173	171	184
85°	22	23	22	22	21	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1111.9	1111.9	1111.9	1111.9	1111.9
2.5°	1118.0	1105.0	1113.2	1108.4	1116.0
5°	1114.6	1101.6	1109.8	1105.7	1113.2
7.5°	1108.4	1095.4	1103.6	1099.5	1105.7
10°	1101.6	1087.8	1096.8	1092.6	1098.8
12.5°	1092.6	1079.6	1087.8	1084.4	1089.9
15°	1079.6	1067.2	1074.8	1072.0	1076.2
17.5°	1063.8	1051.4	1059.0	1056.9	1060.4
20°	1046.6	1034.9	1042.5	1040.4	1043.9
22.5°	1027.4	1015.0	1021.9	1020.5	1023.3
25°	1004.0	993.1	999.9	997.9	1000.6
27.5°	979.3	969.0	974.5	974.5	975.9
30°	952.5	942.9	948.4	948.4	949.1
32.5°	923.7	916.1	919.6	920.3	920.3
35°	892.8	886.6	889.4	890.0	890.0
37.5°	860.5	854.3	856.4	857.8	857.8
40°	826.2	820.7	822.1	823.4	822.7
42.5°	789.1	785.0	785.7	787.0	787.0
45°	751.3	747.9	747.9	749.3	749.3
47.5°	712.9	709.4	708.0	709.4	709.4
50°	671.0	667.5	666.2	667.5	667.5
52.5°	627.0	623.6	623.6	623.6	624.3
55°	581.7	578.3	576.9	578.3	578.9
57.5°	533.6	532.2	530.2	530.9	528.8
60°	482.1	482.1	480.0	481.4	480.0
62.5°	432.0	433.3	431.3	431.3	429.9
65°	380.5	381.8	379.8	379.8	378.4
67.5°	327.6	329.6	326.9	326.9	325.5
70°	272.6	276.8	274.0	274.7	273.3
72.5°	223.2	225.3	222.5	222.5	221.1
75°	173.7	175.1	172.4	173.1	171.0
77.5°	125.0	127.1	124.3	125.0	124.3
80°	83.8	84.5	82.4	83.1	81.7
82.5°	48.8	49.4	48.8	48.1	47.4
85°	22.0	22.7	22.0	22.0	21.3
87.5°	5.5	5.5	5.5	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)