

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: P974115

Luminaire Tested: FLR2-24-35-L930-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974115
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-L930-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L930-CP080
Ballast/Driver: -

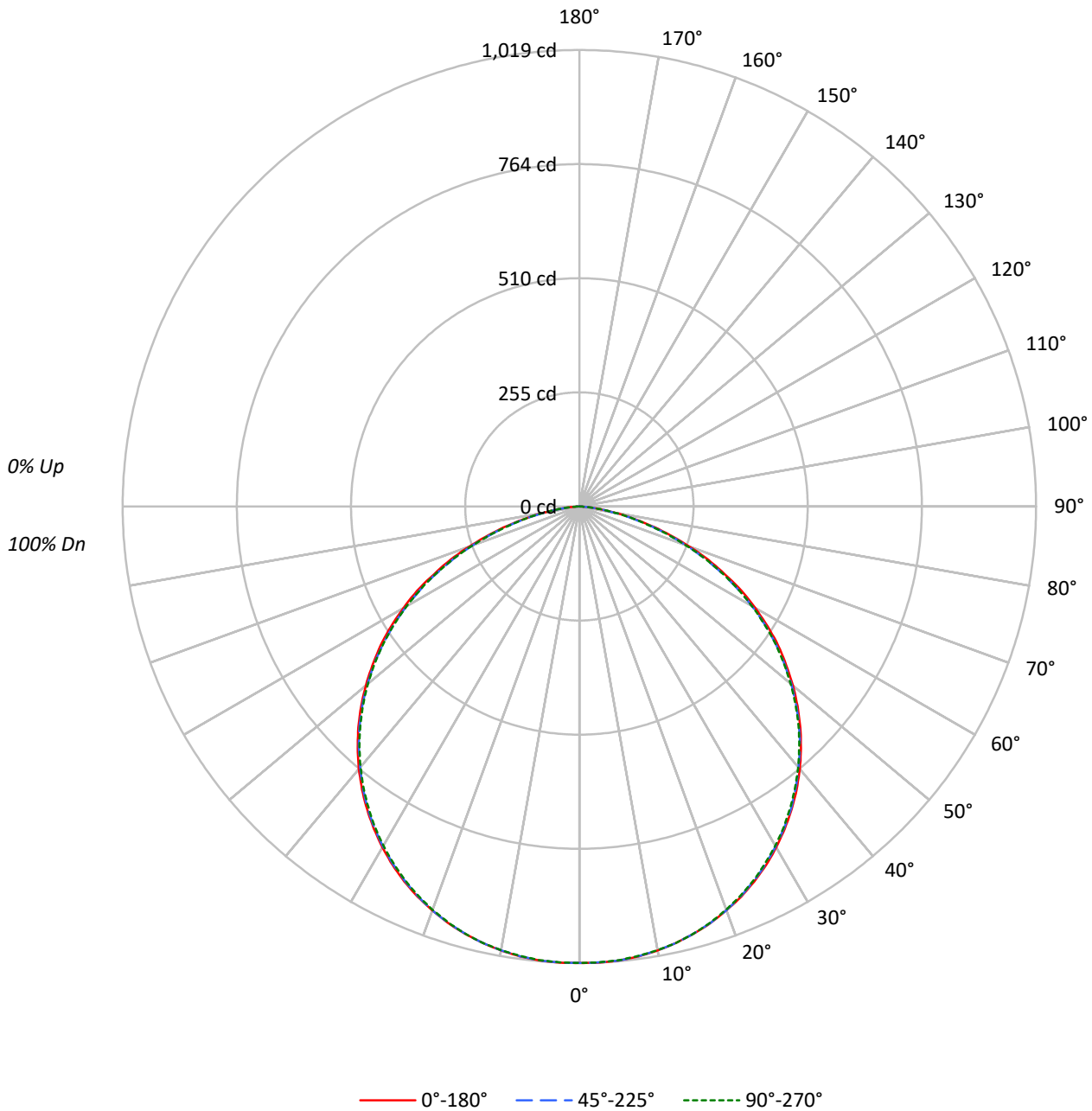
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2880.6 lumens
Efficiency: N/A
Efficacy: 101.4 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: P974115
CATALOG NUMBER: FLR2-24-35-L930-CP080

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°	1371	1371	1371
5°	1374	1374	1373
10°	1375	1374	1374
15°	1375	1375	1375
20°	1374	1373	1371
25°	1371	1369	1367
30°	1365	1361	1359
35°	1356	1353	1348
40°	1344	1336	1334
45°	1327	1319	1315
50°	1302	1292	1288
55°	1271	1253	1252
60°	1218	1197	1197
65°	1140	1113	1117
70°	1026	994	991
75°	861	827	823
80°	629	598	624
85°	355	327	333

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1327 cd/sqm



TEST NUMBER: P974115
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	3.4
10°-20°	278.7	9.7
20°-30°	424.9	14.8
30°-40°	514.8	17.9
40°-50°	534.8	18.6
50°-60°	478.4	16.6
60°-70°	348.7	12.1
70°-80°	172.7	6.0
80°-90°	30.9	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°	800.4	27.8
0°-40°	1315.2	45.7
0°-60°	2328.4	80.8
0°-90°	2880.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2880.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1017	1018	1017	1017	1017	97
15°	987	987	987	988	987	279
25°	924	923	922	922	920	426
35°	826	825	824	822	821	516
45°	697	696	693	692	691	537
55°	542	538	534	534	534	483
65°	358	355	350	351	351	355
75°	166	163	159	162	158	177
85°	23	21	21	22	22	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1019.2	1019.2	1019.2	1019.2	1019.2
2.5°	1019.2	1018.8	1018.8	1019.2	1018.5
5°	1017.4	1017.7	1017.4	1017.4	1016.6
7.5°	1013.3	1013.0	1012.6	1013.0	1011.9
10°	1006.4	1006.4	1006.0	1006.4	1005.7
12.5°	998.0	998.0	998.0	998.4	998.0
15°	987.4	987.0	987.0	987.7	987.0
17.5°	975.0	974.6	974.6	974.2	973.5
20°	959.6	959.6	959.2	958.9	957.8
22.5°	943.1	942.8	941.7	941.7	940.2
25°	923.8	922.7	921.9	921.6	920.5
27.5°	902.5	901.1	900.0	899.3	898.2
30°	878.8	877.3	876.2	875.1	874.4
32.5°	853.2	852.4	850.6	850.2	848.8
35°	825.7	824.6	823.6	822.1	820.6
37.5°	796.5	795.4	792.8	792.1	791.0
40°	765.4	763.9	760.7	760.7	759.6
42.5°	732.1	730.7	728.5	727.0	726.3
45°	697.4	695.9	693.4	691.9	691.2
47.5°	660.5	659.4	656.4	655.3	654.2
50°	622.1	620.6	617.3	616.6	615.5
52.5°	581.8	581.1	576.7	576.3	575.2
55°	542.0	537.9	534.3	534.3	533.6
57.5°	498.1	495.2	490.4	490.4	489.7
60°	452.7	450.2	444.7	445.4	444.7
62.5°	408.5	403.0	397.9	400.1	398.2
65°	358.0	355.1	349.6	351.1	350.7
67.5°	311.9	306.5	301.3	304.3	302.8
70°	260.7	257.8	252.7	255.6	252.0
72.5°	212.5	209.9	204.8	208.1	204.4
75°	165.7	163.1	159.1	162.0	158.3
77.5°	121.4	119.6	115.9	118.9	119.6
80°	81.2	79.0	77.2	79.7	80.5
82.5°	47.5	46.1	45.3	45.7	47.5
85°	23.0	21.2	21.2	21.6	21.6
87.5°	6.2	5.5	6.2	6.6	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)