

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: P974155

Luminaire Tested: FLR2-24-35-L930-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974155
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L930-CA080
Ballast/Driver: -

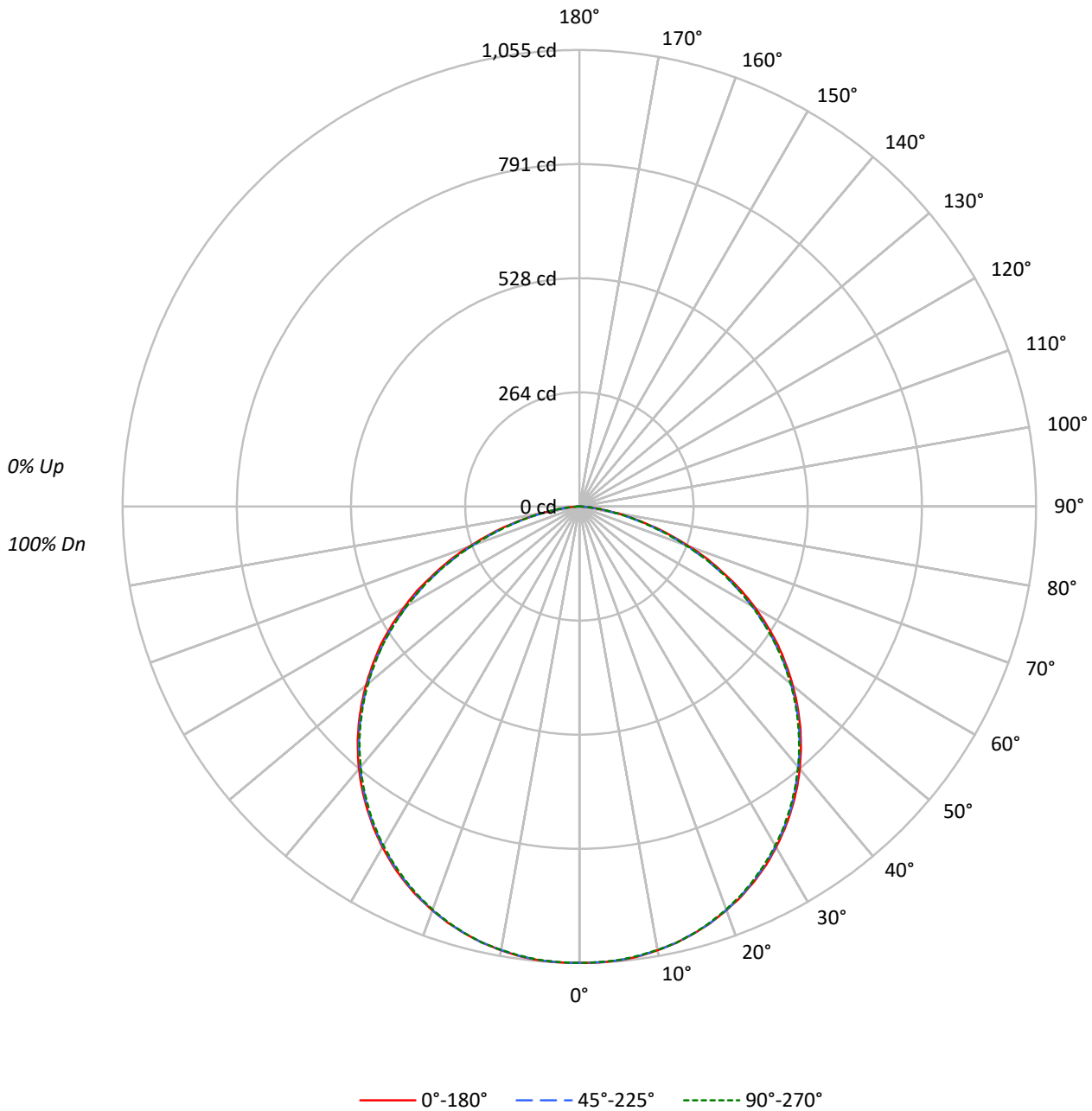
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2981.4 lumens
Efficiency: N/A
Efficacy: 105.0 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: P974155
CATALOG NUMBER: FLR2-24-35-L930-CA080

Luminous Intensity Polar Plot





TEST NUMBER: P974155
 CATALOG NUMBER: FLR2-24-35-L930-CA080

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1419	1419	1419
5°	1422	1422	1421
10°	1423	1423	1422
15°	1423	1423	1423
20°	1422	1422	1419
25°	1419	1417	1414
30°	1413	1409	1406
35°	1404	1400	1395
40°	1391	1383	1381
45°	1373	1365	1361
50°	1348	1337	1333
55°	1316	1297	1295
60°	1261	1238	1238
65°	1180	1152	1156
70°	1062	1029	1026
75°	892	856	852
80°	651	619	645
85°	367	340	344

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1373 cd/sqm



TEST NUMBER: P974155
 CATALOG NUMBER: FLR2-24-35-L930-CA080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	3.4
10°-20°	288.5	9.7
20°-30°	439.8	14.8
30°-40°	532.8	17.9
40°-50°	553.5	18.6
50°-60°	495.1	16.6
60°-70°	360.9	12.1
70°-80°	178.7	6.0
80°-90°	31.9	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°	828.4	27.8
0°-40°	1361.2	45.7
0°-60°	2409.8	80.8
0°-90°	2981.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2981.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1055	1055	1055	1055	1055	
5°	1053	1053	1053	1053	1052	100
15°	1022	1022	1022	1022	1022	289
25°	956	955	954	954	953	441
35°	855	854	852	851	849	535
45°	722	720	718	716	715	556
55°	561	557	553	553	552	500
65°	370	368	362	363	363	367
75°	172	169	165	168	164	183
85°	24	22	22	22	22	33
90°	0	0	0	0	0	



TEST NUMBER: P974155
 CATALOG NUMBER: FLR2-24-35-L930-CA080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1054.9	1054.9	1054.9	1054.9	1054.9
2.5°	1054.9	1054.5	1054.5	1054.9	1054.1
5°	1053.0	1053.3	1053.0	1053.0	1052.2
7.5°	1048.8	1048.4	1048.0	1048.4	1047.3
10°	1041.6	1041.6	1041.2	1041.6	1040.8
12.5°	1032.9	1032.9	1032.9	1033.3	1032.9
15°	1021.9	1021.5	1021.5	1022.3	1021.5
17.5°	1009.1	1008.7	1008.7	1008.3	1007.5
20°	993.2	993.2	992.8	992.4	991.3
22.5°	976.1	975.7	974.6	974.6	973.1
25°	956.1	954.9	954.2	953.8	952.7
27.5°	934.1	932.6	931.5	930.7	929.6
30°	909.5	908.0	906.9	905.7	905.0
32.5°	883.0	882.3	880.4	880.0	878.5
35°	854.6	853.5	852.4	850.8	849.3
37.5°	824.4	823.2	820.6	819.8	818.7
40°	792.2	790.7	787.3	787.3	786.1
42.5°	757.7	756.2	754.0	752.4	751.7
45°	721.8	720.3	717.6	716.1	715.3
47.5°	683.6	682.4	679.4	678.3	677.1
50°	643.8	642.3	638.9	638.1	637.0
52.5°	602.2	601.4	596.9	596.5	595.4
55°	560.9	556.8	553.0	553.0	552.2
57.5°	515.5	512.5	507.6	507.6	506.8
60°	468.6	465.9	460.2	461.0	460.2
62.5°	422.8	417.1	411.8	414.1	412.2
65°	370.5	367.5	361.8	363.4	363.0
67.5°	322.9	317.2	311.9	314.9	313.4
70°	269.9	266.8	261.5	264.6	260.8
72.5°	219.9	217.3	212.0	215.4	211.6
75°	171.5	168.8	164.6	167.7	163.9
77.5°	125.7	123.8	120.0	123.0	123.8
80°	84.0	81.8	79.9	82.5	83.3
82.5°	49.2	47.7	46.9	47.3	49.2
85°	23.8	22.0	22.0	22.3	22.3
87.5°	6.4	5.7	6.4	6.8	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)