

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: P974131

Luminaire Tested: FLR2-24-35-L930-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974131
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L930-CP187
Ballast/Driver: -

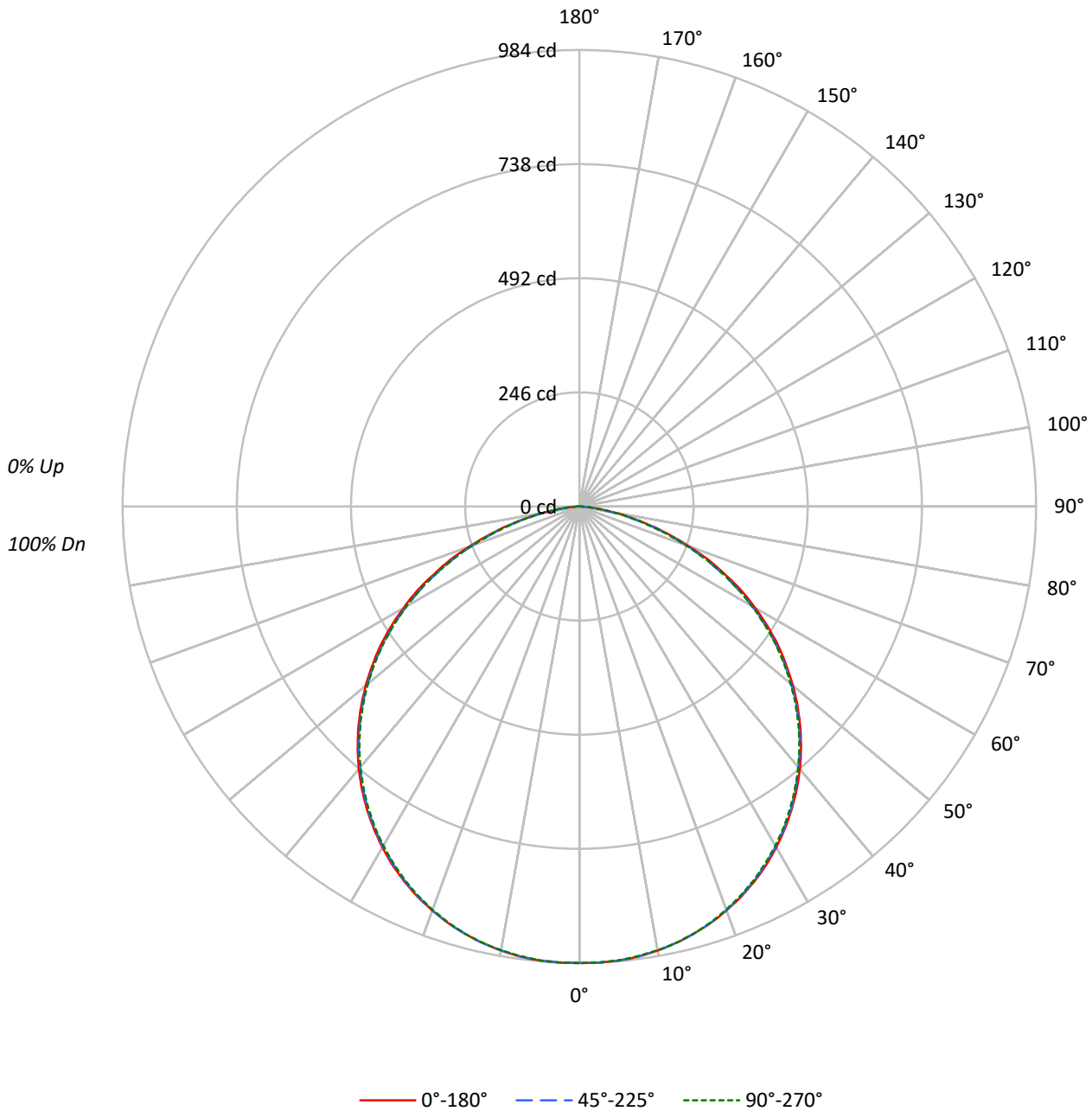
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2782.0 lumens
Efficiency: N/A
Efficacy: 98.0 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: P974131
CATALOG NUMBER: FLR2-24-35-L930-CP187

Luminous Intensity Polar Plot





TEST NUMBER: P974131
 CATALOG NUMBER: FLR2-24-35-L930-CP187

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°	1324	1324	1324
5°	1327	1327	1326
10°	1328	1327	1327
15°	1328	1328	1328
20°	1327	1326	1324
25°	1325	1322	1320
30°	1319	1315	1312
35°	1310	1306	1302
40°	1298	1290	1289
45°	1282	1274	1270
50°	1258	1248	1244
55°	1228	1210	1209
60°	1176	1156	1156
65°	1101	1075	1078
70°	991	960	957
75°	832	799	795
80°	607	577	602
85°	344	316	321

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1282 cd/sqm



TEST NUMBER: P974131
 CATALOG NUMBER: FLR2-24-35-L930-CP187

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.4	3.4
10°-20°	269.2	9.7
20°-30°	410.4	14.8
30°-40°	497.2	17.9
40°-50°	516.5	18.6
50°-60°	462.0	16.6
60°-70°	336.7	12.1
70°-80°	166.8	6.0
80°-90°	29.8	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°	773.0	27.8
0°-40°	1270.2	45.7
0°-60°	2248.7	80.8
0°-90°	2782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2782.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	984	984	984	984	984	
5°	983	983	983	983	982	93
15°	954	953	953	954	953	269
25°	892	891	890	890	889	411
35°	798	796	795	794	793	499
45°	674	672	670	668	668	519
55°	523	520	516	516	515	466
65°	346	343	338	339	339	343
75°	160	158	154	156	153	171
85°	22	20	20	21	21	31
90°	0	0	0	0	0	



TEST NUMBER: P974131
 CATALOG NUMBER: FLR2-24-35-L930-CP187

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	984.3	984.3	984.3	984.3	984.3
2.5°	984.3	984.0	984.0	984.3	983.6
5°	982.6	982.9	982.6	982.6	981.9
7.5°	978.7	978.3	978.0	978.3	977.3
10°	972.0	972.0	971.6	972.0	971.3
12.5°	963.9	963.9	963.9	964.2	963.9
15°	953.6	953.3	953.3	954.0	953.3
17.5°	941.6	941.3	941.3	940.9	940.2
20°	926.8	926.8	926.4	926.1	925.0
22.5°	910.9	910.5	909.5	909.5	908.1
25°	892.2	891.1	890.4	890.0	889.0
27.5°	871.7	870.3	869.2	868.5	867.4
30°	848.7	847.3	846.2	845.2	844.5
32.5°	824.0	823.3	821.5	821.2	819.8
35°	797.5	796.4	795.4	794.0	792.6
37.5°	769.2	768.2	765.7	765.0	764.0
40°	739.2	737.8	734.6	734.6	733.6
42.5°	707.1	705.7	703.6	702.1	701.4
45°	673.5	672.1	669.6	668.2	667.5
47.5°	637.9	636.8	634.0	632.9	631.9
50°	600.8	599.4	596.2	595.5	594.4
52.5°	561.9	561.2	557.0	556.6	555.6
55°	523.4	519.5	516.0	516.0	515.3
57.5°	481.0	478.2	473.6	473.6	472.9
60°	437.2	434.8	429.5	430.2	429.5
62.5°	394.5	389.2	384.3	386.4	384.6
65°	345.8	342.9	337.6	339.1	338.7
67.5°	301.3	296.0	291.0	293.9	292.4
70°	251.8	249.0	244.1	246.9	243.3
72.5°	205.2	202.7	197.8	201.0	197.4
75°	160.0	157.5	153.6	156.5	152.9
77.5°	117.3	115.5	112.0	114.8	115.5
80°	78.4	76.3	74.5	77.0	77.7
82.5°	45.9	44.5	43.8	44.1	45.9
85°	22.3	20.5	20.5	20.8	20.8
87.5°	6.0	5.3	6.0	6.4	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)