

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: P974227

Luminaire Tested: FLR2-24-35-L935-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974227
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-L935-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L935-CP080
Ballast/Driver: -

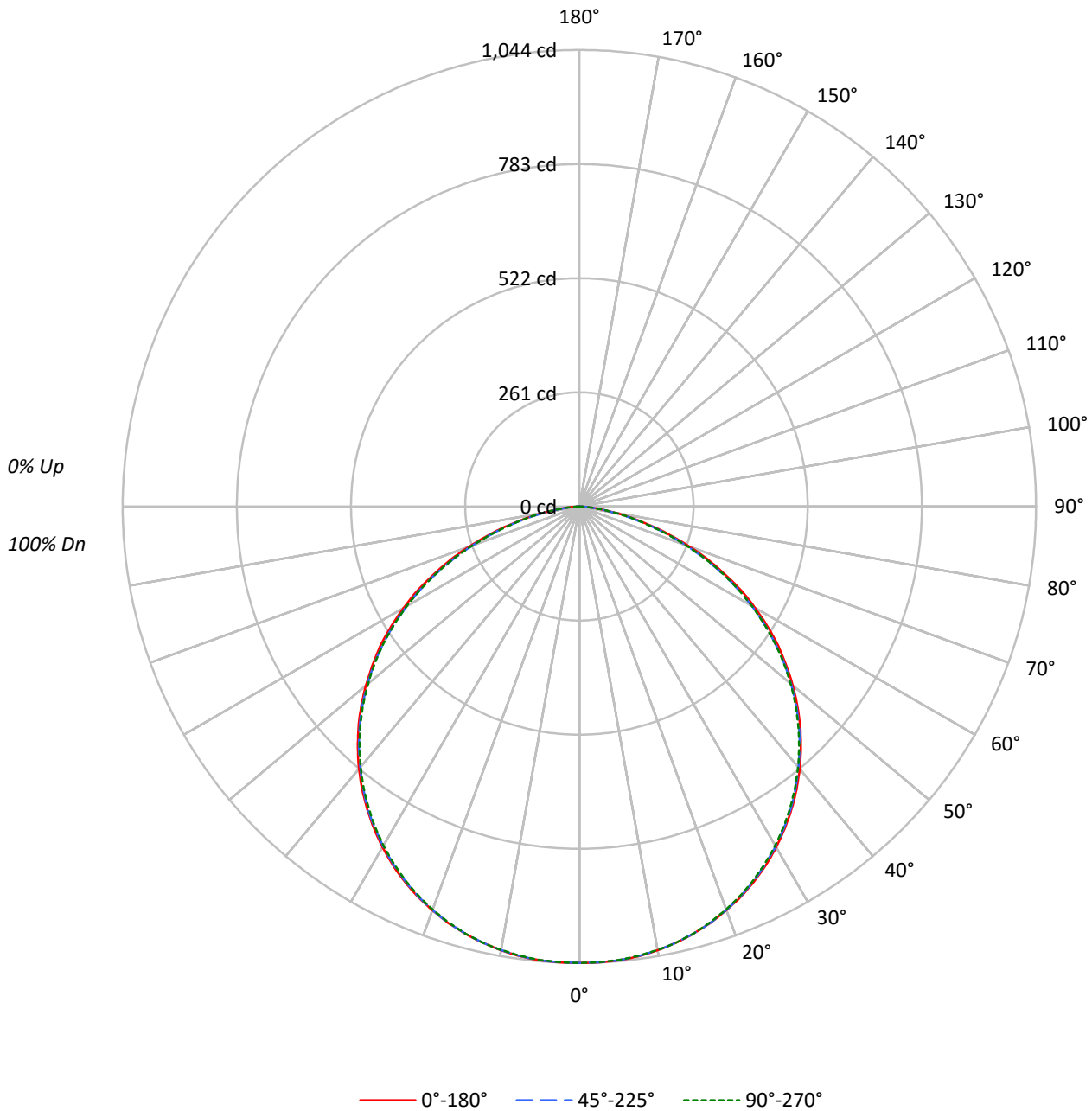
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2950.0 lumens
Efficiency: N/A
Efficacy: 103.9 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: P974227
CATALOG NUMBER: FLR2-24-35-L935-CP080

Luminous Intensity Polar Plot





TEST NUMBER: P974227
 CATALOG NUMBER: FLR2-24-35-L935-CP080

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°	1404	1404	1404
5°	1407	1407	1406
10°	1408	1408	1407
15°	1409	1408	1408
20°	1407	1406	1404
25°	1404	1402	1399
30°	1398	1394	1391
35°	1389	1385	1380
40°	1377	1368	1366
45°	1359	1351	1347
50°	1333	1323	1319
55°	1302	1284	1282
60°	1248	1225	1225
65°	1167	1140	1144
70°	1050	1018	1015
75°	882	847	843
80°	644	612	638
85°	364	335	341

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1359 cd/sqm



TEST NUMBER: P974227
 CATALOG NUMBER: FLR2-24-35-L935-CP080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	3.4
10°-20°	285.4	9.7
20°-30°	435.2	14.8
30°-40°	527.2	17.9
40°-50°	547.7	18.6
50°-60°	489.9	16.6
60°-70°	357.1	12.1
70°-80°	176.8	6.0
80°-90°	31.6	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°	819.7	27.8
0°-40°	1346.9	45.7
0°-60°	2384.5	80.8
0°-90°	2950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2950.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1042	1042	1042	1042	1041	99
15°	1011	1011	1011	1012	1011	285
25°	946	945	944	944	943	436
35°	846	844	843	842	840	529
45°	714	713	710	709	708	550
55°	555	551	547	547	546	494
65°	367	364	358	360	359	363
75°	170	167	163	166	162	181
85°	24	22	22	22	22	33
90°	0	0	0	0	0	



TEST NUMBER: P974227
 CATALOG NUMBER: FLR2-24-35-L935-CP080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1043.8	1043.8	1043.8	1043.8	1043.8
2.5°	1043.8	1043.4	1043.4	1043.8	1043.0
5°	1041.9	1042.3	1041.9	1041.9	1041.1
7.5°	1037.8	1037.4	1037.0	1037.4	1036.3
10°	1030.7	1030.7	1030.3	1030.7	1029.9
12.5°	1022.0	1022.0	1022.0	1022.4	1022.0
15°	1011.2	1010.8	1010.8	1011.6	1010.8
17.5°	998.4	998.1	998.1	997.7	996.9
20°	982.7	982.7	982.3	982.0	980.8
22.5°	965.9	965.5	964.4	964.4	962.9
25°	946.0	944.9	944.1	943.8	942.6
27.5°	924.3	922.8	921.7	920.9	919.8
30°	899.9	898.4	897.3	896.2	895.5
32.5°	873.7	873.0	871.1	870.7	869.2
35°	845.6	844.5	843.4	841.9	840.4
37.5°	815.7	814.6	811.9	811.2	810.1
40°	783.8	782.4	779.0	779.0	777.9
42.5°	749.8	748.3	746.0	744.5	743.8
45°	714.2	712.7	710.1	708.6	707.8
47.5°	676.4	675.2	672.2	671.1	670.0
50°	637.0	635.5	632.2	631.4	630.3
52.5°	595.8	595.1	590.6	590.2	589.1
55°	555.0	550.9	547.2	547.2	546.4
57.5°	510.1	507.1	502.2	502.2	501.5
60°	463.6	461.0	455.4	456.2	455.4
62.5°	418.3	412.7	407.5	409.7	407.8
65°	366.6	363.6	358.0	359.5	359.2
67.5°	319.5	313.8	308.6	311.6	310.1
70°	267.0	264.0	258.8	261.8	258.0
72.5°	217.6	215.0	209.7	213.1	209.4
75°	169.7	167.0	162.9	165.9	162.2
77.5°	124.3	122.5	118.7	121.7	122.5
80°	83.1	80.9	79.0	81.6	82.4
82.5°	48.7	47.2	46.4	46.8	48.7
85°	23.6	21.7	21.7	22.1	22.1
87.5°	6.4	5.6	6.4	6.7	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)