

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: P974163

Luminaire Tested: FLR2-24-35-L930-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974163
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L930-CA125
Ballast/Driver: -

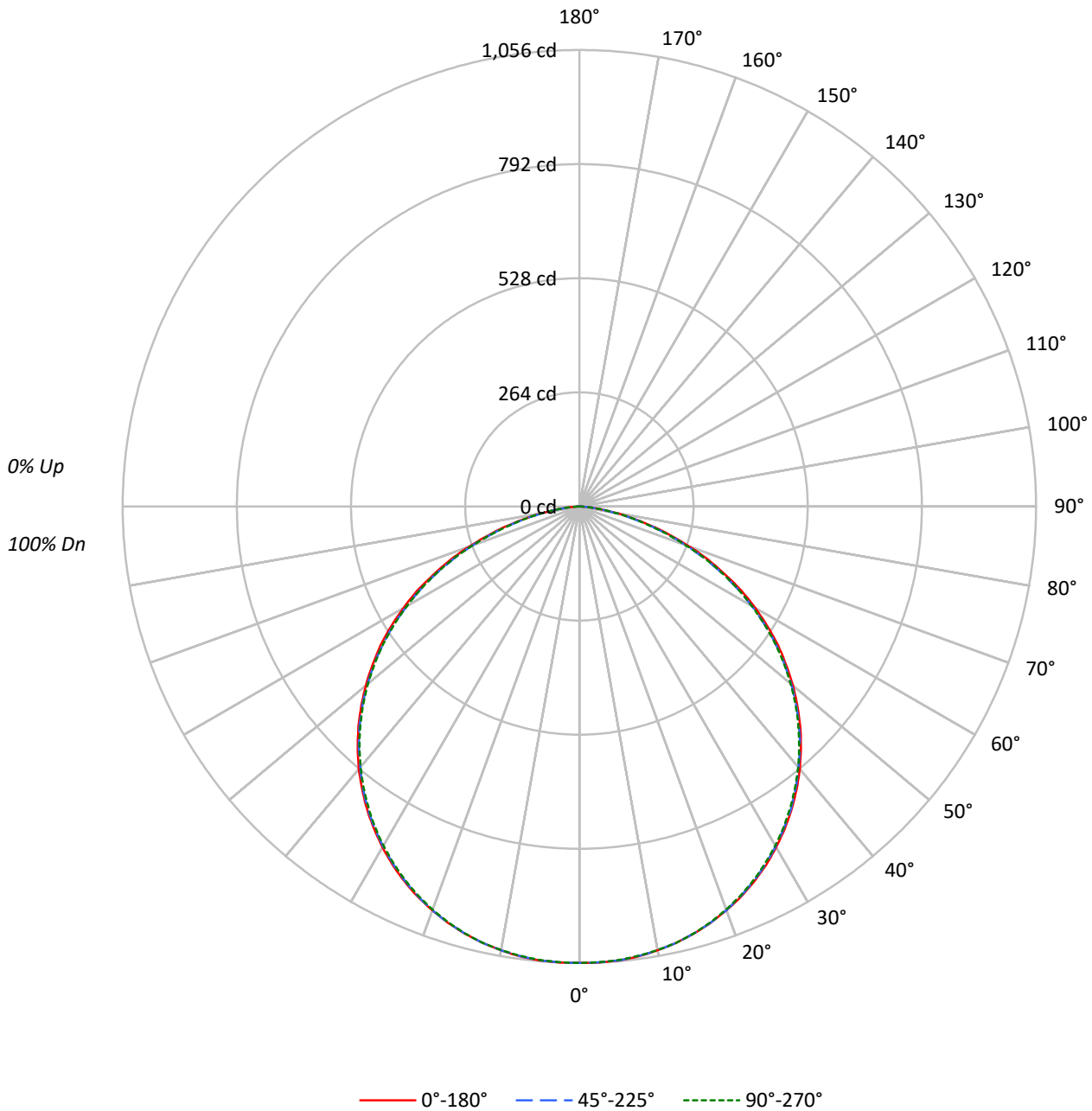
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2984.5 lumens
Efficiency: N/A
Efficacy: 105.1 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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1421	1421	1421
5°	1424	1424	1423
10°	1425	1424	1424
15°	1425	1424	1424
20°	1424	1423	1421
25°	1421	1418	1416
30°	1415	1410	1407
35°	1405	1402	1396
40°	1393	1384	1382
45°	1375	1367	1363
50°	1349	1339	1335
55°	1317	1299	1297
60°	1262	1240	1240
65°	1181	1153	1157
70°	1063	1030	1027
75°	892	857	853
80°	652	619	646
85°	369	340	346

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1375 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	3.4
10°-20°	288.8	9.7
20°-30°	440.3	14.8
30°-40°	533.4	17.9
40°-50°	554.1	18.6
50°-60°	495.7	16.6
60°-70°	361.2	12.1
70°-80°	178.9	6.0
80°-90°	32.0	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°	829.3	27.8
0°-40°	1362.7	45.7
0°-60°	2412.4	80.8
0°-90°	2984.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2984.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1054	1054	1054	1054	1053	100
15°	1023	1023	1023	1023	1023	289
25°	957	956	955	955	954	441
35°	856	854	853	852	850	535
45°	723	721	718	717	716	557
55°	562	557	554	554	553	500
65°	371	368	362	364	363	368
75°	172	169	165	168	164	183
85°	24	22	22	22	22	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1056.0	1056.0	1056.0	1056.0	1056.0
2.5°	1056.0	1055.6	1055.6	1056.0	1055.2
5°	1054.1	1054.5	1054.1	1054.1	1053.3
7.5°	1049.9	1049.5	1049.2	1049.5	1048.4
10°	1042.7	1042.7	1042.4	1042.7	1042.0
12.5°	1034.0	1034.0	1034.0	1034.4	1034.0
15°	1023.0	1022.6	1022.6	1023.4	1022.6
17.5°	1010.1	1009.8	1009.8	1009.4	1008.6
20°	994.2	994.2	993.9	993.5	992.3
22.5°	977.2	976.8	975.7	975.7	974.1
25°	957.1	956.0	955.2	954.8	953.7
27.5°	935.1	933.6	932.5	931.7	930.6
30°	910.5	909.0	907.8	906.7	905.9
32.5°	884.0	883.2	881.3	880.9	879.4
35°	855.6	854.4	853.3	851.8	850.2
37.5°	825.2	824.1	821.5	820.7	819.6
40°	793.0	791.5	788.1	788.1	787.0
42.5°	758.6	757.0	754.8	753.3	752.5
45°	722.6	721.0	718.4	716.9	716.1
47.5°	684.3	683.2	680.1	679.0	677.9
50°	644.5	643.0	639.6	638.8	637.7
52.5°	602.8	602.1	597.5	597.1	596.0
55°	561.5	557.4	553.6	553.6	552.8
57.5°	516.1	513.0	508.1	508.1	507.3
60°	469.1	466.4	460.7	461.5	460.7
62.5°	423.2	417.5	412.2	414.5	412.6
65°	370.9	367.9	362.2	363.7	363.4
67.5°	323.2	317.5	312.2	315.2	313.7
70°	270.2	267.1	261.8	264.9	261.1
72.5°	220.1	217.5	212.2	215.6	211.8
75°	171.6	169.0	164.8	167.9	164.1
77.5°	125.8	123.9	120.1	123.1	123.9
80°	84.1	81.8	79.9	82.6	83.4
82.5°	49.3	47.7	47.0	47.4	49.3
85°	23.9	22.0	22.0	22.4	22.4
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)