

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: P974156

Luminaire Tested: FLR2-24-40-L930-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974156
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: FLR2-24-40-L930-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L930-CA080
Ballast/Driver: -

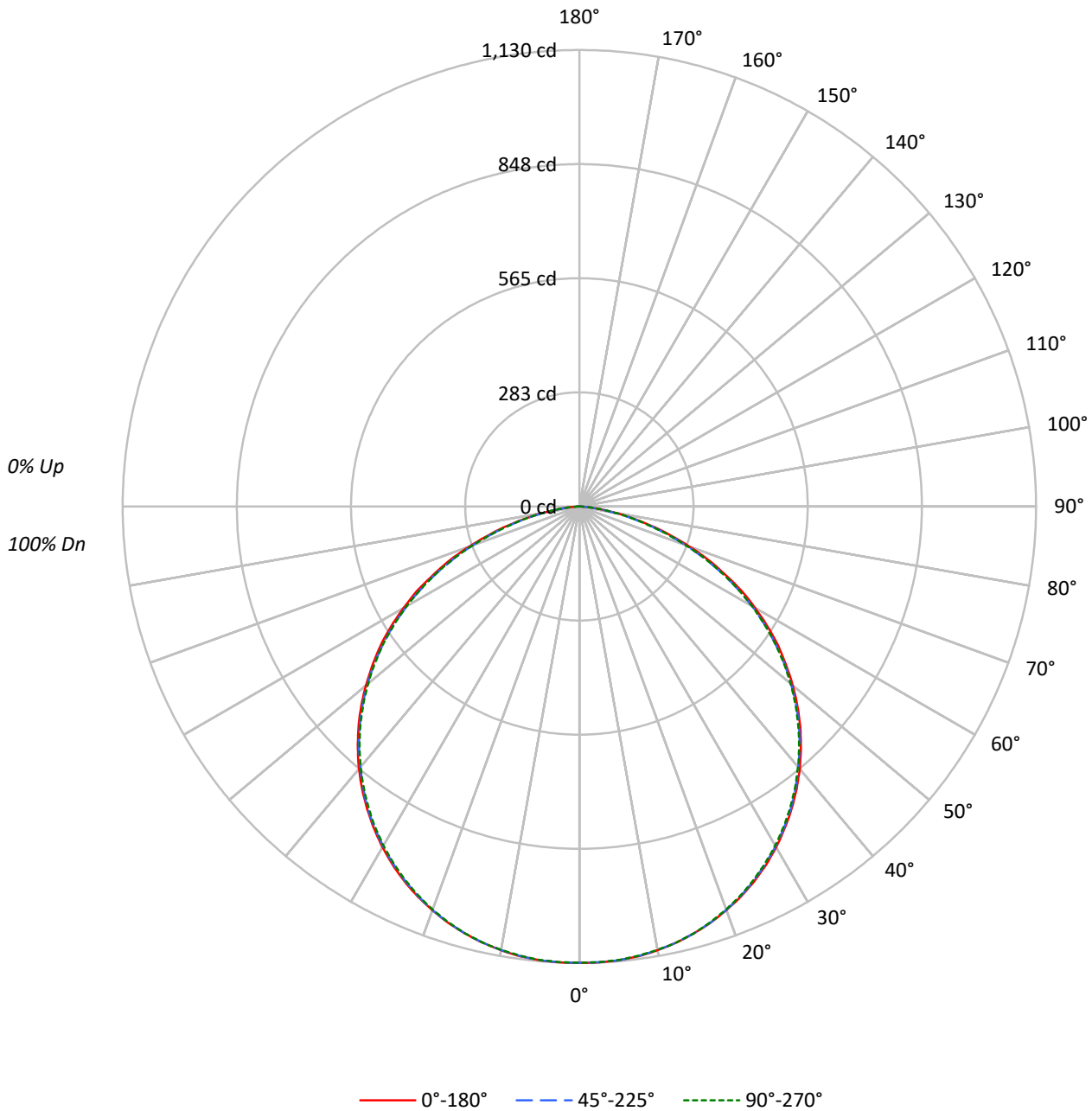
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3192.8 lumens
Efficiency: N/A
Efficacy: 105.4 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): 30.3
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				20	
RC	80				70				50				30				10	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	1520	1520	1520
5°	1523	1523	1522
10°	1524	1524	1523
15°	1524	1524	1524
20°	1523	1522	1520
25°	1520	1517	1515
30°	1513	1509	1506
35°	1503	1499	1494
40°	1490	1481	1479
45°	1471	1462	1458
50°	1443	1432	1428
55°	1409	1389	1387
60°	1350	1326	1326
65°	1263	1234	1238
70°	1137	1102	1099
75°	954	917	912
80°	697	662	691
85°	394	363	369

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1471 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	3.4
10°-20°	308.9	9.7
20°-30°	471.0	14.8
30°-40°	570.6	17.9
40°-50°	592.7	18.6
50°-60°	530.3	16.6
60°-70°	386.5	12.1
70°-80°	191.4	6.0
80°-90°	34.2	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°	887.1	27.8
0°-40°	1457.8	45.7
0°-60°	2580.7	80.8
0°-90°	3192.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3192.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1130	1130	1130	1130	1130	
5°	1128	1128	1128	1128	1127	107
15°	1094	1094	1094	1095	1094	309
25°	1024	1023	1022	1021	1020	472
35°	915	914	913	911	910	572
45°	773	771	768	767	766	596
55°	601	596	592	592	591	535
65°	397	394	388	389	389	393
75°	184	181	176	180	176	196
85°	26	24	24	24	24	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1129.7	1129.7	1129.7	1129.7	1129.7
2.5°	1129.7	1129.3	1129.3	1129.7	1128.9
5°	1127.6	1128.0	1127.6	1127.6	1126.8
7.5°	1123.2	1122.8	1122.4	1122.8	1121.6
10°	1115.5	1115.5	1115.1	1115.5	1114.7
12.5°	1106.2	1106.2	1106.2	1106.6	1106.2
15°	1094.4	1094.0	1094.0	1094.8	1094.0
17.5°	1080.6	1080.2	1080.2	1079.8	1079.0
20°	1063.6	1063.6	1063.2	1062.8	1061.6
22.5°	1045.4	1044.9	1043.7	1043.7	1042.1
25°	1023.9	1022.7	1021.8	1021.4	1020.2
27.5°	1000.4	998.7	997.5	996.7	995.5
30°	974.0	972.4	971.2	970.0	969.2
32.5°	945.6	944.8	942.8	942.4	940.8
35°	915.2	914.0	912.8	911.2	909.6
37.5°	882.8	881.6	878.8	878.0	876.7
40°	848.4	846.7	843.1	843.1	841.9
42.5°	811.5	809.9	807.4	805.8	805.0
45°	773.0	771.3	768.5	766.9	766.1
47.5°	732.0	730.8	727.6	726.4	725.1
50°	689.5	687.9	684.2	683.4	682.2
52.5°	644.9	644.1	639.2	638.8	637.6
55°	600.7	596.2	592.2	592.2	591.4
57.5°	552.1	548.8	543.6	543.6	542.7
60°	501.8	499.0	492.9	493.7	492.9
62.5°	452.8	446.7	441.0	443.4	441.4
65°	396.8	393.6	387.5	389.1	388.7
67.5°	345.7	339.7	334.0	337.2	335.6
70°	289.0	285.8	280.1	283.3	279.3
72.5°	235.5	232.7	227.0	230.6	226.6
75°	183.6	180.8	176.3	179.6	175.5
77.5°	134.6	132.5	128.5	131.7	132.5
80°	90.0	87.6	85.5	88.4	89.2
82.5°	52.7	51.1	50.3	50.7	52.7
85°	25.5	23.5	23.5	23.9	23.9
87.5°	6.9	6.1	6.9	7.3	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)