

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: P974339

Luminaire Tested: FLR2-24-35-L940-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974339
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-L940-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L940-CP080
Ballast/Driver: -

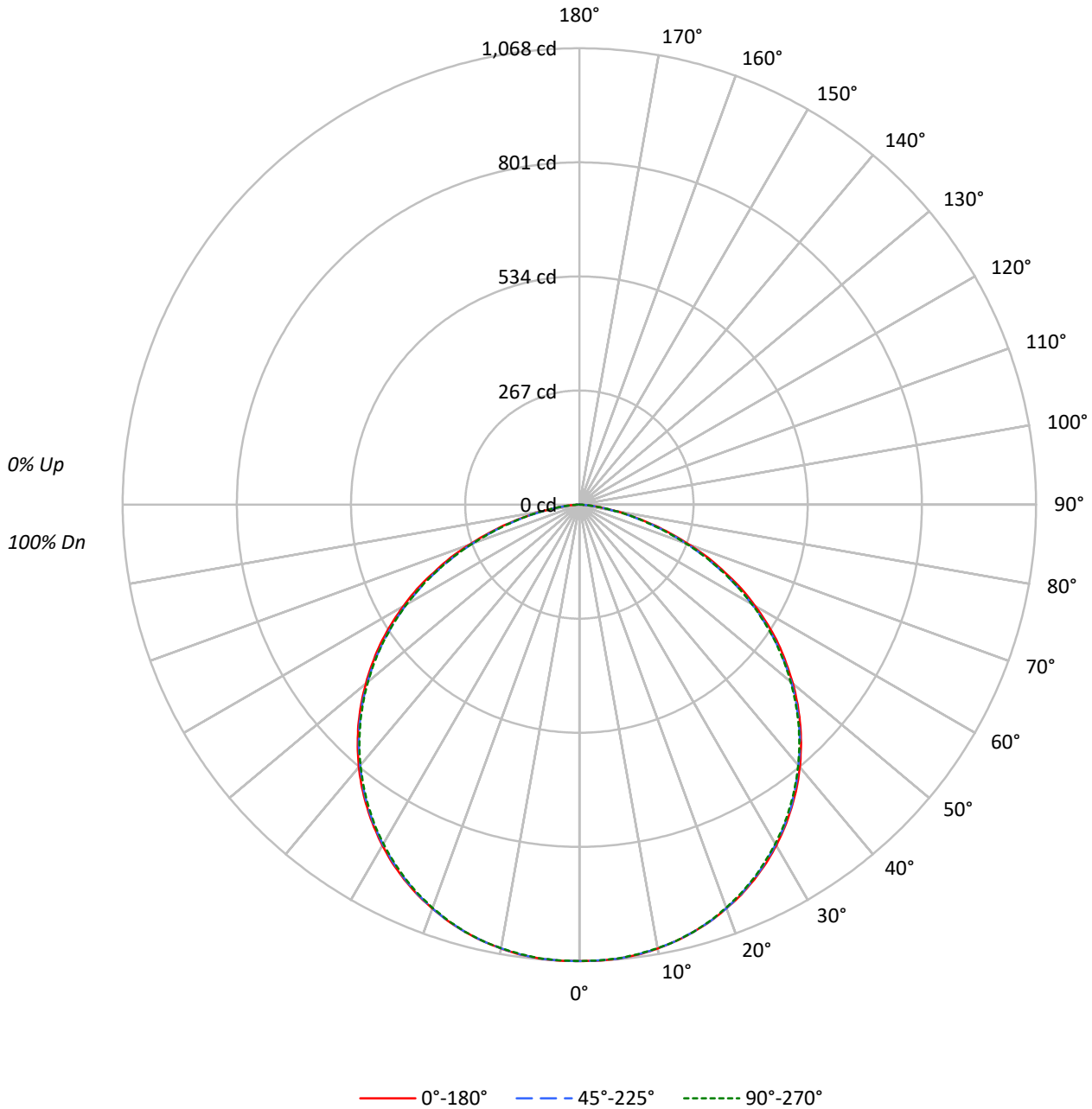
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3019.4 lumens
Efficiency: N/A
Efficacy: 106.3 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: P974339
CATALOG NUMBER: FLR2-24-35-L940-CP080

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	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°	1437	1437	1437
5°	1440	1440	1439
10°	1441	1441	1440
15°	1442	1441	1441
20°	1440	1440	1437
25°	1438	1435	1432
30°	1431	1427	1424
35°	1422	1418	1413
40°	1409	1400	1398
45°	1391	1383	1379
50°	1365	1354	1350
55°	1333	1314	1312
60°	1277	1254	1254
65°	1195	1167	1170
70°	1075	1042	1039
75°	902	867	863
80°	659	627	653
85°	372	343	349

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1391 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	3.4
10°-20°	292.1	9.7
20°-30°	445.4	14.8
30°-40°	539.6	17.9
40°-50°	560.5	18.6
50°-60°	501.4	16.6
60°-70°	365.5	12.1
70°-80°	181.0	6.0
80°-90°	32.3	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°	839.0	27.8
0°-40°	1378.6	45.7
0°-60°	2440.6	80.8
0°-90°	3019.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3019.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1068	1068	1068	1068	1068	
5°	1066	1067	1066	1066	1066	101
15°	1035	1035	1035	1035	1035	292
25°	968	967	966	966	965	446
35°	866	864	863	862	860	541
45°	731	730	727	725	724	563
55°	568	564	560	560	559	506
65°	375	372	366	368	368	372
75°	174	171	167	170	166	185
85°	24	22	22	23	23	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1068.3	1068.3	1068.3	1068.3	1068.3
2.5°	1068.3	1067.9	1067.9	1068.3	1067.6
5°	1066.4	1066.8	1066.4	1066.4	1065.6
7.5°	1062.2	1061.8	1061.4	1061.8	1060.7
10°	1054.9	1054.9	1054.5	1054.9	1054.1
12.5°	1046.1	1046.1	1046.1	1046.5	1046.1
15°	1035.0	1034.6	1034.6	1035.4	1034.6
17.5°	1021.9	1021.6	1021.6	1021.2	1020.4
20°	1005.8	1005.8	1005.5	1005.1	1003.9
22.5°	988.6	988.2	987.1	987.1	985.5
25°	968.3	967.1	966.4	966.0	964.8
27.5°	946.0	944.5	943.4	942.6	941.4
30°	921.1	919.6	918.4	917.3	916.5
32.5°	894.3	893.5	891.6	891.2	889.7
35°	865.5	864.4	863.2	861.7	860.2
37.5°	834.9	833.7	831.0	830.3	829.1
40°	802.3	800.8	797.3	797.3	796.2
42.5°	767.4	765.9	763.6	762.0	761.3
45°	731.0	729.5	726.8	725.2	724.5
47.5°	692.3	691.1	688.1	686.9	685.8
50°	652.0	650.5	647.0	646.3	645.1
52.5°	609.9	609.1	604.5	604.1	603.0
55°	568.1	563.9	560.0	560.0	559.3
57.5°	522.1	519.0	514.0	514.0	513.3
60°	474.6	471.9	466.1	466.9	466.1
62.5°	428.2	422.4	417.1	419.4	417.4
65°	375.3	372.2	366.5	368.0	367.6
67.5°	327.0	321.2	315.9	318.9	317.4
70°	273.3	270.2	264.9	267.9	264.1
72.5°	222.7	220.0	214.7	218.1	214.3
75°	173.6	171.0	166.7	169.8	166.0
77.5°	127.3	125.3	121.5	124.6	125.3
80°	85.1	82.8	80.9	83.6	84.3
82.5°	49.8	48.3	47.5	47.9	49.8
85°	24.1	22.2	22.2	22.6	22.6
87.5°	6.5	5.7	6.5	6.9	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)