

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: P974363

Luminaire Tested: FLR2-24-35-L940-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974363
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L940-CP250
Ballast/Driver: -

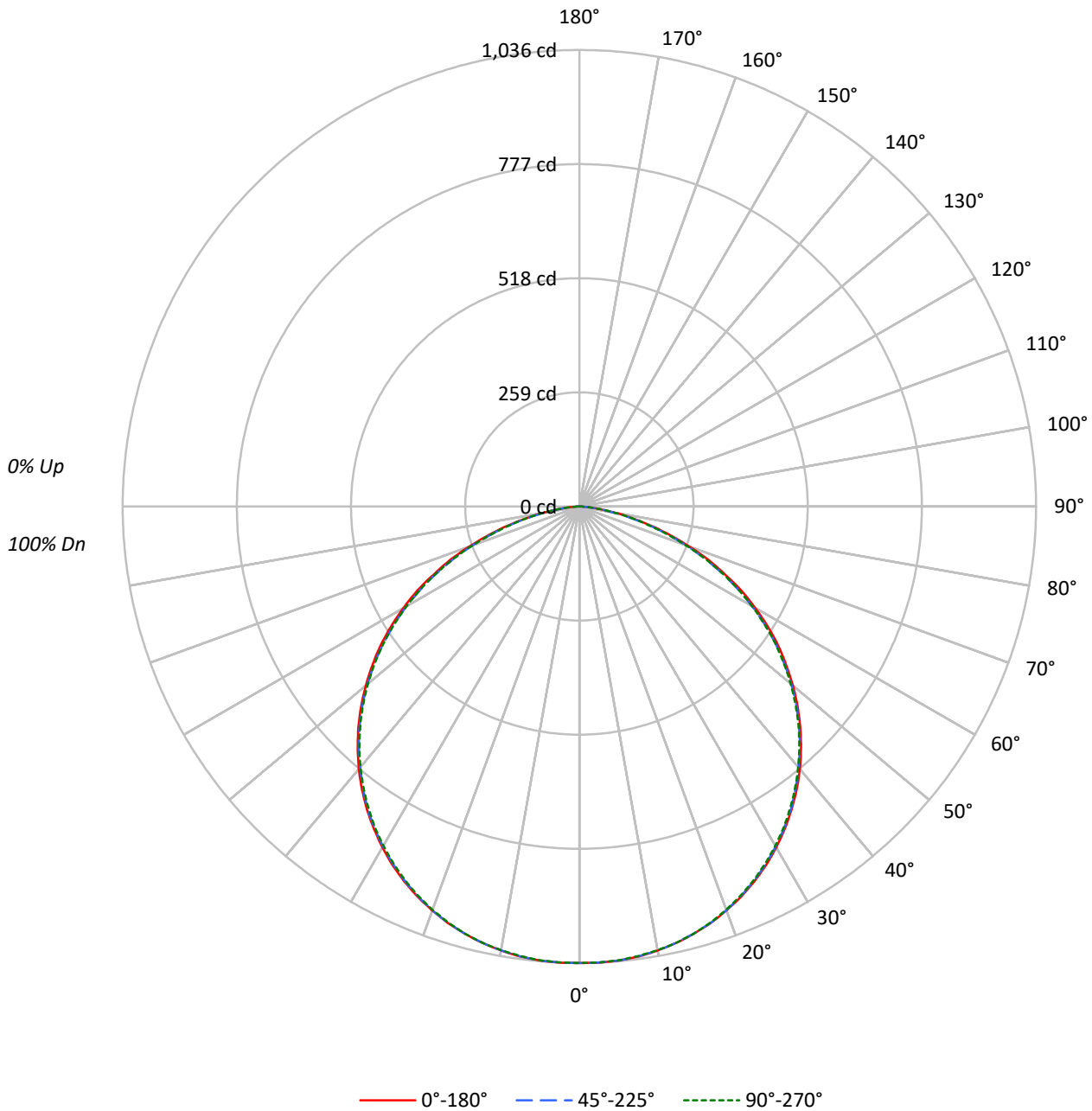
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2929.0 lumens
Efficiency: N/A
Efficacy: 103.1 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									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	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°	1394	1394	1394
5°	1397	1397	1396
10°	1398	1398	1397
15°	1399	1398	1398
20°	1397	1397	1394
25°	1394	1392	1389
30°	1388	1384	1381
35°	1379	1375	1371
40°	1367	1358	1356
45°	1349	1341	1337
50°	1324	1314	1310
55°	1293	1274	1273
60°	1239	1217	1217
65°	1159	1132	1135
70°	1043	1011	1008
75°	875	841	837
80°	640	608	634
85°	361	333	338

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1349 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	3.4
10°-20°	283.4	9.7
20°-30°	432.1	14.8
30°-40°	523.5	17.9
40°-50°	543.8	18.6
50°-60°	486.5	16.6
60°-70°	354.5	12.1
70°-80°	175.6	6.0
80°-90°	31.4	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°	813.8	27.8
0°-40°	1337.3	45.7
0°-60°	2367.5	80.8
0°-90°	2929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	1034	1035	1034	1034	1034	98
15°	1004	1004	1004	1004	1004	283
25°	939	938	937	937	936	433
35°	840	838	837	836	834	525
45°	709	708	705	704	703	546
55°	551	547	543	543	542	491
65°	364	361	356	357	357	361
75°	168	166	162	165	161	180
85°	23	22	22	22	22	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1036.3	1036.3	1036.3	1036.3	1036.3
2.5°	1036.3	1036.0	1036.0	1036.3	1035.6
5°	1034.5	1034.9	1034.5	1034.5	1033.7
7.5°	1030.4	1030.0	1029.7	1030.0	1028.9
10°	1023.3	1023.3	1023.0	1023.3	1022.6
12.5°	1014.8	1014.8	1014.8	1015.2	1014.8
15°	1004.0	1003.6	1003.6	1004.4	1003.6
17.5°	991.4	991.0	991.0	990.6	989.9
20°	975.7	975.7	975.4	975.0	973.9
22.5°	959.0	958.6	957.5	957.5	956.0
25°	939.3	938.2	937.4	937.1	935.9
27.5°	917.7	916.2	915.1	914.4	913.3
30°	893.6	892.1	891.0	889.8	889.1
32.5°	867.5	866.8	864.9	864.6	863.1
35°	839.6	838.5	837.4	835.9	834.4
37.5°	809.9	808.8	806.2	805.4	804.3
40°	778.3	776.8	773.4	773.4	772.3
42.5°	744.4	743.0	740.7	739.2	738.5
45°	709.1	707.6	705.0	703.5	702.8
47.5°	671.6	670.4	667.5	666.4	665.2
50°	632.5	631.0	627.7	626.9	625.8
52.5°	591.6	590.9	586.4	586.0	584.9
55°	551.1	547.0	543.3	543.3	542.5
57.5°	506.5	503.5	498.7	498.7	497.9
60°	460.4	457.7	452.2	452.9	452.2
62.5°	415.4	409.8	404.6	406.8	404.9
65°	364.0	361.1	355.5	357.0	356.6
67.5°	317.2	311.6	306.4	309.4	307.9
70°	265.1	262.2	256.9	259.9	256.2
72.5°	216.0	213.4	208.2	211.6	207.9
75°	168.4	165.8	161.8	164.7	161.0
77.5°	123.5	121.6	117.9	120.9	121.6
80°	82.6	80.3	78.5	81.1	81.8
82.5°	48.3	46.9	46.1	46.5	48.3
85°	23.4	21.6	21.6	21.9	21.9
87.5°	6.3	5.6	6.3	6.7	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)