

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: P974148

Luminaire Tested: FLR2-24-40-L930-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974148
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-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L930-CP375
Ballast/Driver: -

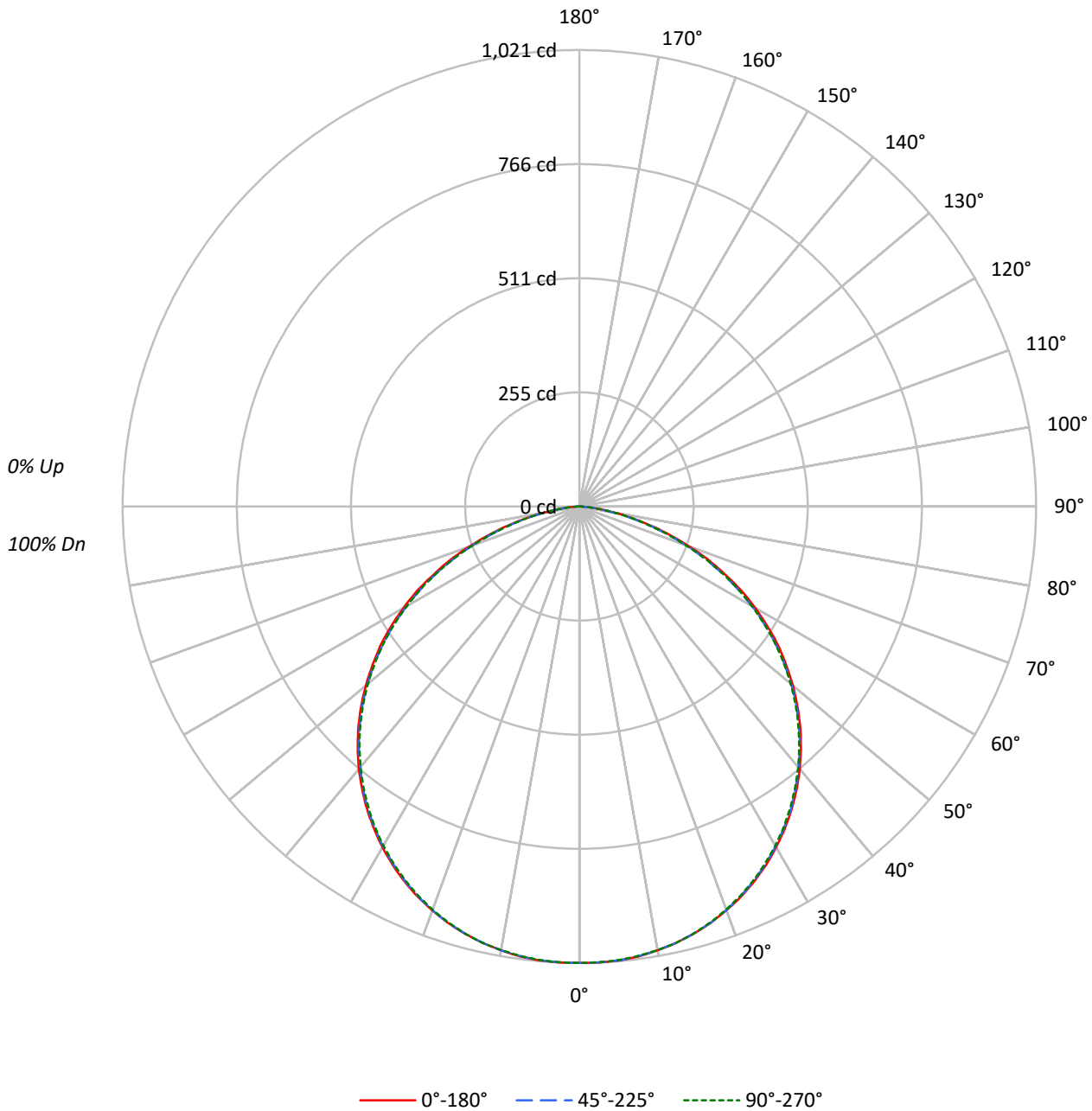
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2885.8 lumens
Efficiency: N/A
Efficacy: 95.2 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	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°	1374	1374	1374
5°	1377	1377	1376
10°	1377	1377	1376
15°	1378	1377	1377
20°	1376	1376	1374
25°	1374	1371	1369
30°	1368	1364	1361
35°	1359	1355	1350
40°	1347	1338	1336
45°	1329	1322	1318
50°	1304	1294	1291
55°	1274	1256	1254
60°	1221	1199	1199
65°	1142	1115	1118
70°	1028	996	993
75°	863	829	824
80°	630	599	625
85°	357	327	333

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1329 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	3.4
10°-20°	279.2	9.7
20°-30°	425.7	14.8
30°-40°	515.8	17.9
40°-50°	535.7	18.6
50°-60°	479.3	16.6
60°-70°	349.3	12.1
70°-80°	173.0	6.0
80°-90°	30.9	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°	801.8	27.8
0°-40°	1317.6	45.7
0°-60°	2332.6	80.8
0°-90°	2885.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2885.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1021	1021	1021	1021	1021	
5°	1019	1020	1019	1019	1018	97
15°	989	989	989	990	989	279
25°	925	924	924	923	922	427
35°	827	826	825	824	822	517
45°	699	697	695	693	692	538
55°	543	539	535	535	534	484
65°	359	356	350	352	351	356
75°	166	163	159	162	159	177
85°	23	21	21	22	22	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1021.1	1021.1	1021.1	1021.1	1021.1
2.5°	1021.1	1020.7	1020.7	1021.1	1020.3
5°	1019.2	1019.6	1019.2	1019.2	1018.5
7.5°	1015.2	1014.8	1014.5	1014.8	1013.7
10°	1008.2	1008.2	1007.9	1008.2	1007.5
12.5°	999.8	999.8	999.8	1000.2	999.8
15°	989.2	988.8	988.8	989.6	988.8
17.5°	976.7	976.4	976.4	976.0	975.3
20°	961.3	961.3	961.0	960.6	959.5
22.5°	944.9	944.5	943.4	943.4	941.9
25°	925.4	924.3	923.6	923.2	922.1
27.5°	904.2	902.7	901.6	900.9	899.8
30°	880.4	878.9	877.8	876.7	876.0
32.5°	854.7	854.0	852.2	851.8	850.3
35°	827.3	826.2	825.1	823.6	822.1
37.5°	797.9	796.8	794.3	793.5	792.4
40°	766.8	765.3	762.0	762.0	760.9
42.5°	733.5	732.0	729.8	728.3	727.6
45°	698.7	697.2	694.6	693.2	692.4
47.5°	661.7	660.6	657.6	656.5	655.4
50°	623.2	621.7	618.4	617.7	616.6
52.5°	582.9	582.2	577.8	577.4	576.3
55°	543.0	538.9	535.3	535.3	534.5
57.5°	499.0	496.1	491.3	491.3	490.6
60°	453.6	451.0	445.5	446.2	445.5
62.5°	409.2	403.7	398.6	400.8	399.0
65°	358.7	355.7	350.2	351.7	351.3
67.5°	312.5	307.0	301.9	304.8	303.4
70°	261.2	258.3	253.2	256.1	252.4
72.5°	212.9	210.3	205.2	208.5	204.8
75°	166.0	163.4	159.4	162.3	158.6
77.5°	121.6	119.8	116.1	119.1	119.8
80°	81.3	79.1	77.3	79.9	80.6
82.5°	47.6	46.2	45.4	45.8	47.6
85°	23.1	21.2	21.2	21.6	21.6
87.5°	6.2	5.5	6.2	6.6	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)