

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: P974243

Luminaire Tested: FLR2-24-35-L935-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974243
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-L935-CP187
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L935-CP187
Ballast/Driver: -

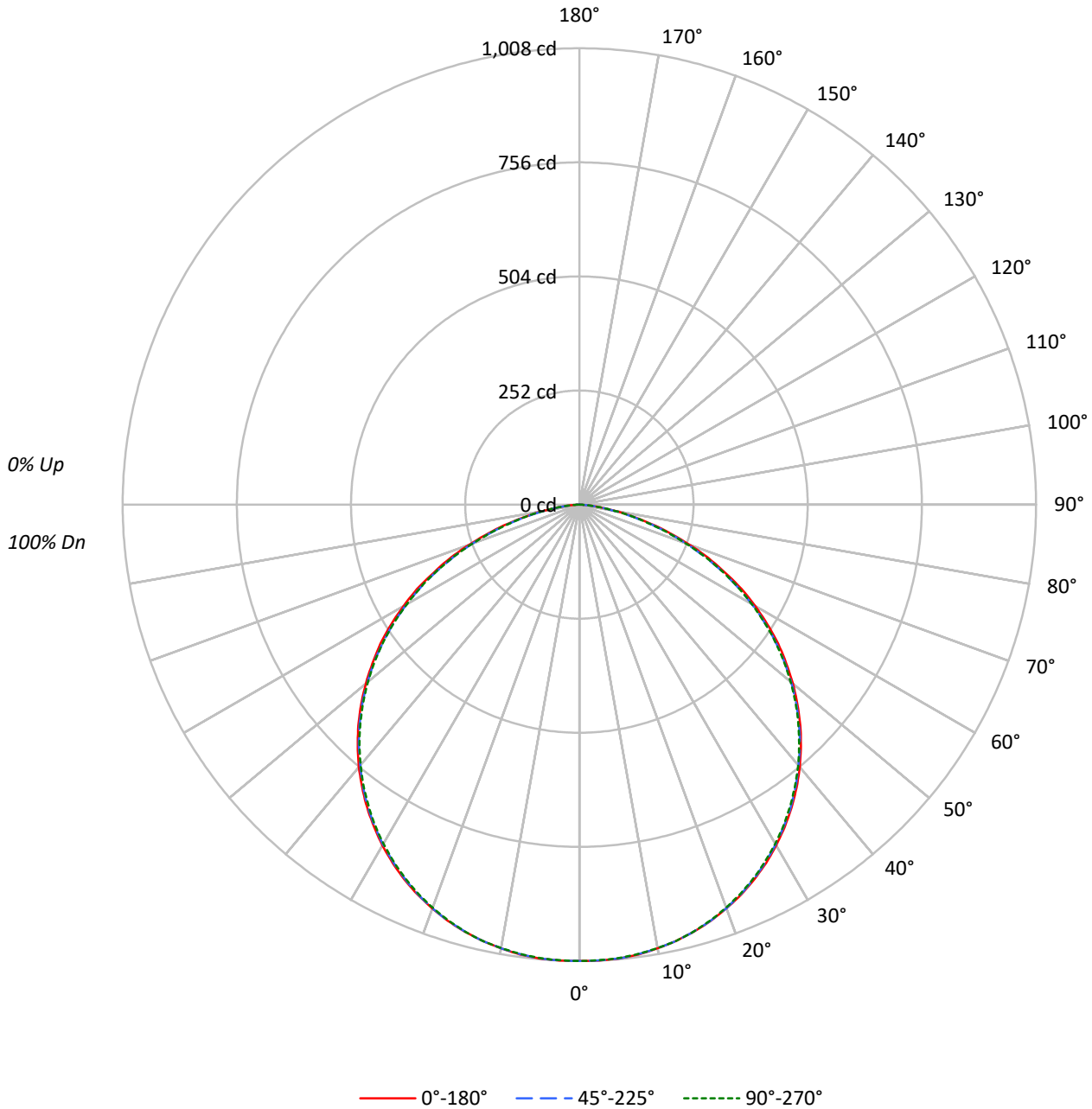
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2849.0 lumens
Efficiency: N/A
Efficacy: 100.3 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

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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															
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°	1356	1356	1356
5°	1359	1359	1358
10°	1360	1359	1359
15°	1360	1360	1360
20°	1359	1358	1356
25°	1356	1354	1352
30°	1350	1346	1344
35°	1341	1338	1333
40°	1330	1321	1320
45°	1313	1305	1301
50°	1288	1278	1274
55°	1257	1240	1238
60°	1205	1183	1183
65°	1127	1101	1104
70°	1015	983	980
75°	852	818	814
80°	622	591	617
85°	352	324	329

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1313 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	3.4
10°-20°	275.7	9.7
20°-30°	420.3	14.8
30°-40°	509.2	17.9
40°-50°	528.9	18.6
50°-60°	473.2	16.6
60°-70°	344.8	12.1
70°-80°	170.8	6.0
80°-90°	30.5	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°	791.6	27.8
0°-40°	1300.8	45.7
0°-60°	2302.9	80.8
0°-90°	2849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2849.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1008	1008	1008	1008	1008	
5°	1006	1007	1006	1006	1006	96
15°	977	976	976	977	976	276
25°	914	913	912	912	910	421
35°	817	816	814	813	812	511
45°	690	688	686	684	684	532
55°	536	532	528	528	528	478
65°	354	351	346	347	347	351
75°	164	161	157	160	157	175
85°	23	21	21	21	21	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1008.1	1008.1	1008.1	1008.1	1008.1
2.5°	1008.1	1007.7	1007.7	1008.1	1007.3
5°	1006.3	1006.6	1006.3	1006.3	1005.5
7.5°	1002.3	1001.9	1001.5	1001.9	1000.8
10°	995.4	995.4	995.0	995.4	994.7
12.5°	987.1	987.1	987.1	987.4	987.1
15°	976.6	976.2	976.2	977.0	976.2
17.5°	964.3	963.9	963.9	963.6	962.8
20°	949.1	949.1	948.7	948.4	947.3
22.5°	932.8	932.5	931.4	931.4	929.9
25°	913.7	912.6	911.8	911.5	910.4
27.5°	892.7	891.2	890.1	889.4	888.3
30°	869.2	867.7	866.6	865.5	864.8
32.5°	843.8	843.1	841.3	841.0	839.5
35°	816.7	815.6	814.5	813.1	811.7
37.5°	787.8	786.7	784.2	783.4	782.4
40°	757.0	755.6	752.3	752.3	751.3
42.5°	724.1	722.7	720.5	719.1	718.3
45°	689.8	688.3	685.8	684.3	683.6
47.5°	653.2	652.1	649.3	648.2	647.1
50°	615.3	613.8	610.6	609.8	608.7
52.5°	575.5	574.7	570.4	570.0	569.0
55°	536.0	532.1	528.4	528.4	527.7
57.5°	492.6	489.7	485.0	485.0	484.3
60°	447.8	445.3	439.8	440.6	439.8
62.5°	404.0	398.6	393.5	395.7	393.9
65°	354.1	351.2	345.8	347.2	346.9
67.5°	308.5	303.1	298.0	300.9	299.5
70°	257.9	255.0	249.9	252.8	249.2
72.5°	210.1	207.6	202.6	205.8	202.2
75°	163.9	161.3	157.3	160.2	156.6
77.5°	120.1	118.3	114.7	117.6	118.3
80°	80.3	78.1	76.3	78.9	79.6
82.5°	47.0	45.6	44.9	45.2	47.0
85°	22.8	21.0	21.0	21.3	21.3
87.5°	6.1	5.4	6.1	6.5	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)