

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: P974386

Luminaire Tested: FLR2-24-30-L940-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974386
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: FLR2-24-30-L940-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L940-CA125
Ballast/Driver: -

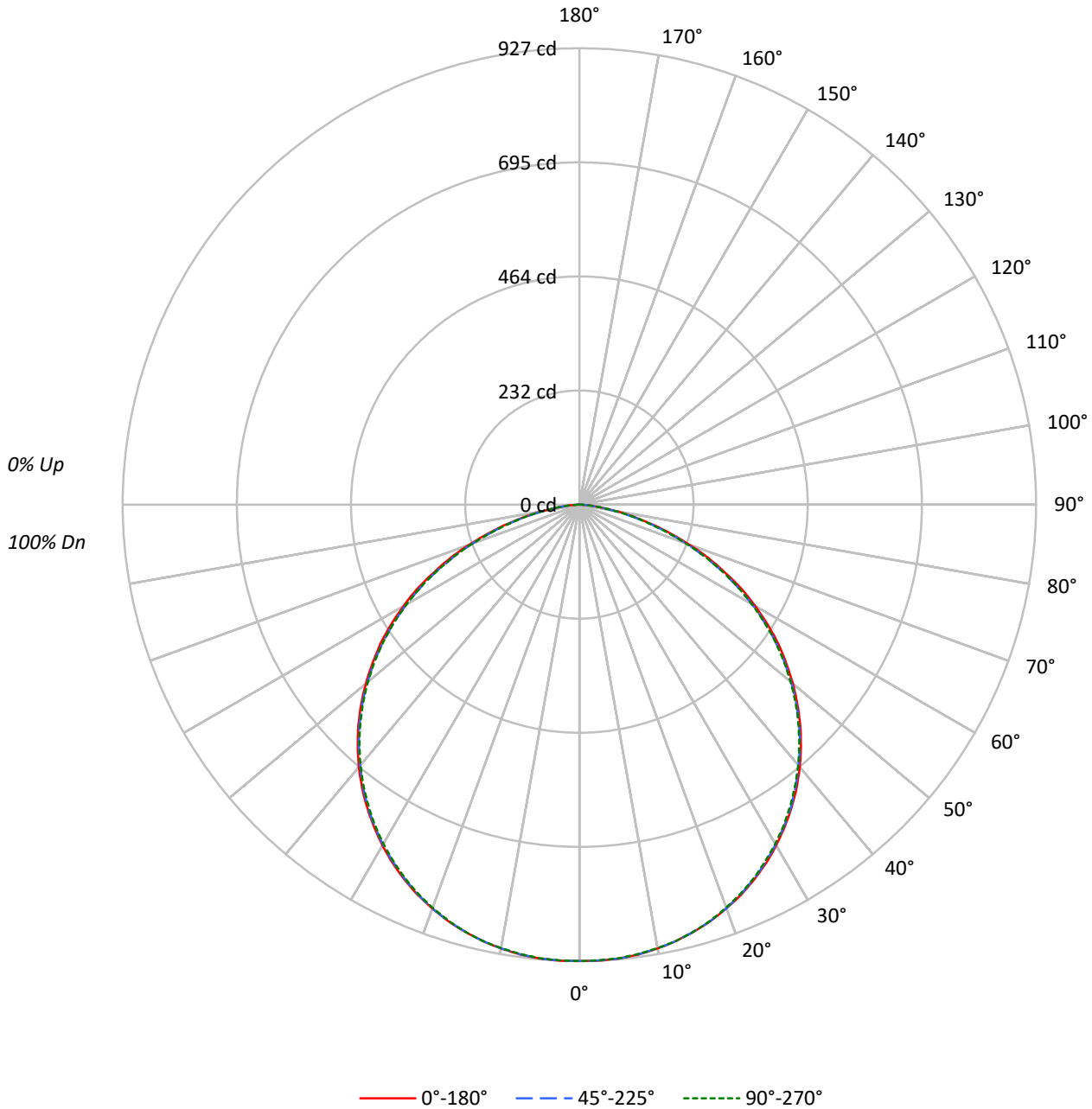
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2620.4 lumens
Efficiency: N/A
Efficacy: 110.6 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): 23.7
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°	1248	1248	1248
5°	1250	1250	1249
10°	1251	1250	1250
15°	1251	1251	1251
20°	1250	1249	1248
25°	1247	1245	1243
30°	1242	1238	1236
35°	1234	1231	1226
40°	1223	1215	1214
45°	1207	1200	1196
50°	1185	1175	1172
55°	1156	1140	1139
60°	1108	1089	1089
65°	1037	1012	1016
70°	933	904	902
75°	783	752	749
80°	573	544	567
85°	324	298	303

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1207 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	3.4
10°-20°	253.5	9.7
20°-30°	386.5	14.8
30°-40°	468.3	17.9
40°-50°	486.5	18.6
50°-60°	435.2	16.6
60°-70°	317.2	12.1
70°-80°	157.1	6.0
80°-90°	28.1	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°	728.1	27.8
0°-40°	1196.4	45.7
0°-60°	2118.1	80.8
0°-90°	2620.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2620.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	927	927	927	927	927	
5°	926	926	926	926	925	88
15°	898	898	898	898	898	254
25°	840	839	839	838	837	387
35°	751	750	749	748	746	470
45°	634	633	631	629	629	489
55°	493	489	486	486	485	439
65°	326	323	318	319	319	323
75°	151	148	145	147	144	161
85°	21	19	19	20	20	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	927.2	927.2	927.2	927.2	927.2
2.5°	927.2	926.8	926.8	927.2	926.5
5°	925.5	925.8	925.5	925.5	924.8
7.5°	921.8	921.5	921.2	921.5	920.5
10°	915.5	915.5	915.2	915.5	914.8
12.5°	907.9	907.9	907.9	908.2	907.9
15°	898.2	897.9	897.9	898.5	897.9
17.5°	886.9	886.6	886.6	886.2	885.6
20°	872.9	872.9	872.6	872.3	871.3
22.5°	858.0	857.6	856.6	856.6	855.3
25°	840.3	839.3	838.7	838.3	837.3
27.5°	821.0	819.7	818.7	818.0	817.0
30°	799.4	798.1	797.1	796.1	795.4
32.5°	776.1	775.5	773.8	773.5	772.1
35°	751.2	750.2	749.2	747.8	746.5
37.5°	724.6	723.6	721.2	720.6	719.6
40°	696.3	694.9	692.0	692.0	691.0
42.5°	666.0	664.7	662.7	661.3	660.7
45°	634.4	633.1	630.7	629.4	628.7
47.5°	600.8	599.8	597.1	596.1	595.1
50°	565.9	564.5	561.5	560.9	559.9
52.5°	529.3	528.6	524.6	524.3	523.3
55°	493.0	489.4	486.0	486.0	485.4
57.5°	453.1	450.4	446.1	446.1	445.4
60°	411.8	409.5	404.5	405.2	404.5
62.5°	371.6	366.6	361.9	363.9	362.3
65°	325.7	323.0	318.0	319.4	319.0
67.5°	283.8	278.8	274.1	276.8	275.5
70°	237.2	234.5	229.9	232.5	229.2
72.5°	193.3	191.0	186.3	189.3	186.0
75°	150.7	148.4	144.7	147.4	144.0
77.5°	110.4	108.8	105.5	108.1	108.8
80°	73.9	71.9	70.2	72.5	73.2
82.5°	43.2	41.9	41.3	41.6	43.2
85°	21.0	19.3	19.3	19.6	19.6
87.5°	5.7	5.0	5.7	6.0	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)