

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: P974162

Luminaire Tested: FLR2-24-30-L930-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974162
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-L930-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L930-CA125
Ballast/Driver: -

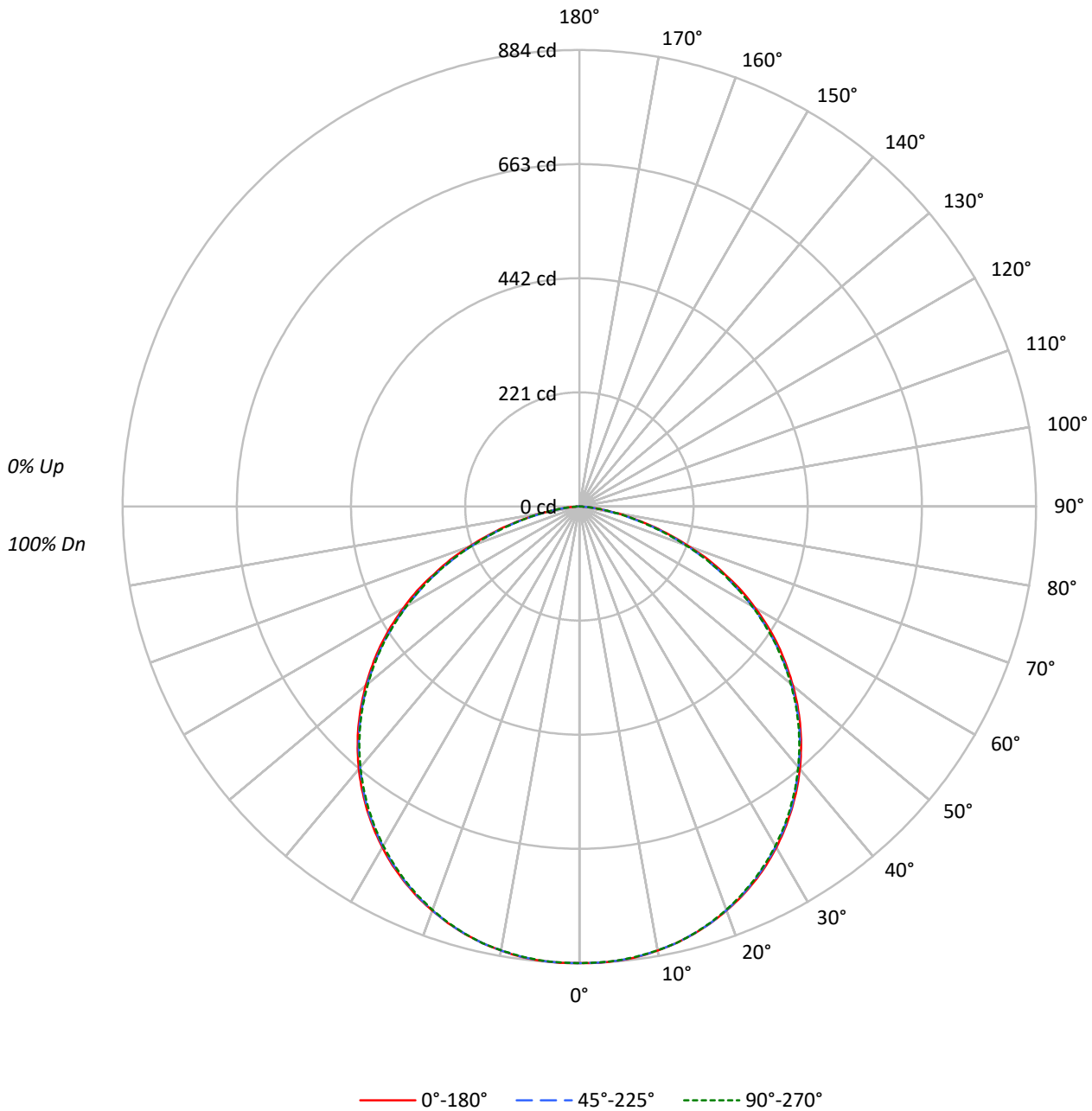
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2499.9 lumens
Efficiency: N/A
Efficacy: 105.5 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°	1190	1190	1190
5°	1192	1192	1192
10°	1193	1193	1192
15°	1194	1193	1193
20°	1192	1192	1190
25°	1190	1188	1186
30°	1185	1181	1179
35°	1177	1174	1170
40°	1167	1159	1158
45°	1152	1145	1141
50°	1130	1121	1118
55°	1103	1088	1086
60°	1057	1038	1038
65°	989	966	969
70°	890	863	860
75°	748	718	714
80°	546	519	541
85°	309	284	289

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1152 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	3.4
10°-20°	241.9	9.7
20°-30°	368.8	14.8
30°-40°	446.8	17.9
40°-50°	464.1	18.6
50°-60°	415.2	16.6
60°-70°	302.6	12.1
70°-80°	149.9	6.0
80°-90°	26.8	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°	694.6	27.8
0°-40°	1141.4	45.7
0°-60°	2020.7	80.8
0°-90°	2499.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2499.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	883	883	883	883	882	84
15°	857	857	857	857	857	242
25°	802	801	800	800	799	369
35°	717	716	715	714	712	448
45°	605	604	602	600	600	466
55°	470	467	464	464	463	419
65°	311	308	303	305	304	308
75°	144	142	138	141	137	153
85°	20	18	18	19	19	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	884.5	884.5	884.5	884.5	884.5
2.5°	884.5	884.2	884.2	884.5	883.9
5°	882.9	883.3	882.9	882.9	882.3
7.5°	879.4	879.1	878.8	879.1	878.2
10°	873.4	873.4	873.1	873.4	872.8
12.5°	866.1	866.1	866.1	866.4	866.1
15°	856.9	856.6	856.6	857.2	856.6
17.5°	846.1	845.8	845.8	845.5	844.9
20°	832.8	832.8	832.5	832.2	831.2
22.5°	818.5	818.2	817.2	817.2	816.0
25°	801.7	800.7	800.1	799.8	798.8
27.5°	783.3	782.0	781.1	780.4	779.5
30°	762.7	761.4	760.4	759.5	758.8
32.5°	740.4	739.8	738.2	737.9	736.6
35°	716.6	715.7	714.7	713.5	712.2
37.5°	691.2	690.3	688.1	687.4	686.5
40°	664.3	663.0	660.1	660.1	659.2
42.5°	635.4	634.1	632.2	630.9	630.3
45°	605.2	604.0	601.7	600.5	599.8
47.5°	573.2	572.2	569.7	568.7	567.8
50°	539.9	538.6	535.7	535.1	534.1
52.5°	504.9	504.3	500.5	500.2	499.2
55°	470.3	466.9	463.7	463.7	463.0
57.5°	432.3	429.7	425.6	425.6	425.0
60°	392.9	390.7	385.9	386.6	385.9
62.5°	354.5	349.7	345.3	347.2	345.6
65°	310.7	308.2	303.4	304.7	304.4
67.5°	270.7	266.0	261.5	264.1	262.8
70°	226.3	223.7	219.3	221.8	218.7
72.5°	184.4	182.2	177.7	180.6	177.4
75°	143.8	141.5	138.1	140.6	137.4
77.5°	105.4	103.8	100.6	103.1	103.8
80°	70.5	68.6	67.0	69.2	69.8
82.5°	41.3	40.0	39.4	39.7	41.3
85°	20.0	18.4	18.4	18.7	18.7
87.5°	5.4	4.8	5.4	5.7	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)