

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: P974466

Luminaire Tested: FLR2-24-30-L950-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974466
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-L950-CP187
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L950-CP187
Ballast/Driver: -

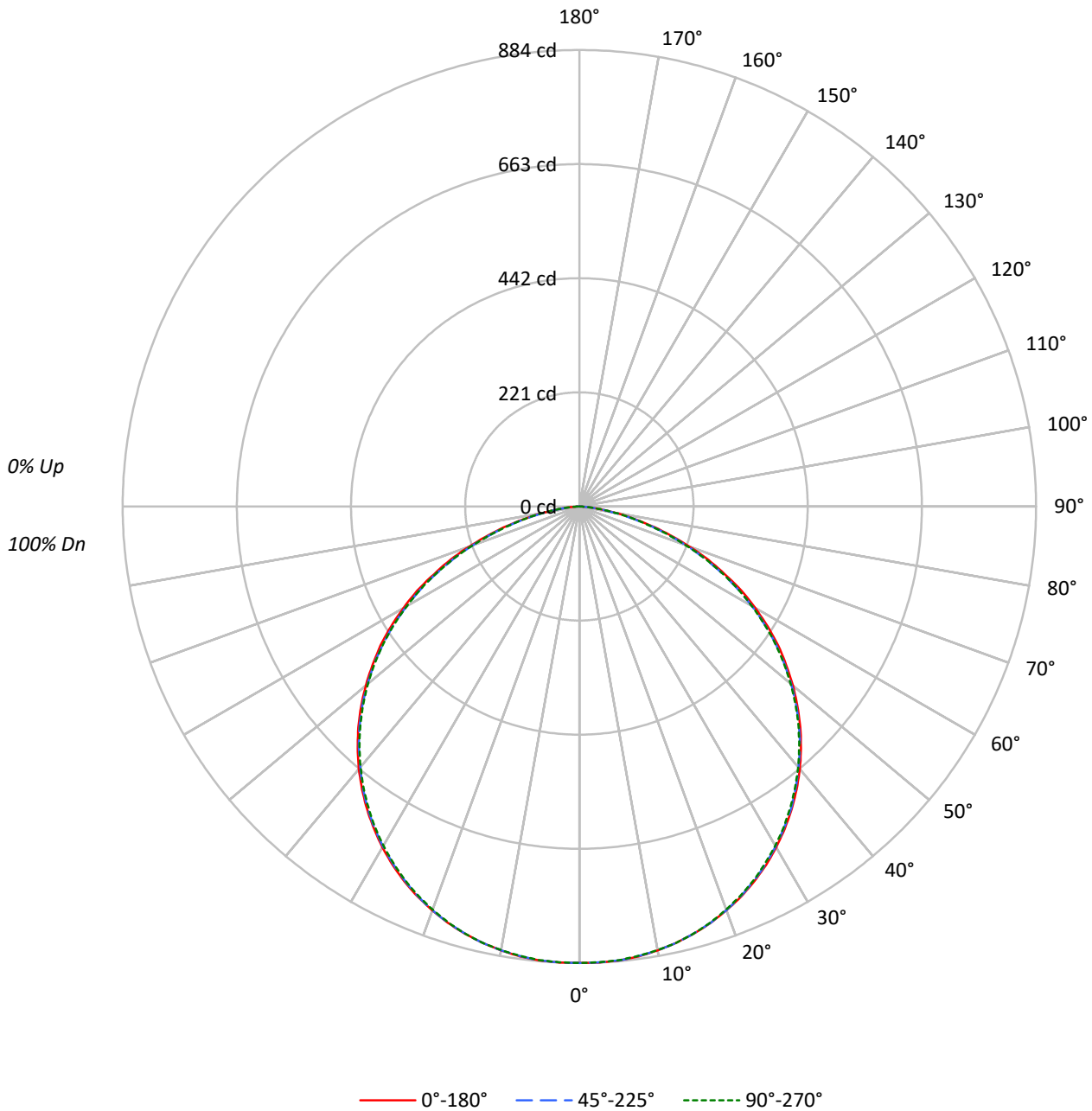
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2498.7 lumens
Efficiency: N/A
Efficacy: 105.4 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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CATALOG NUMBER: FLR2-24-30-L950-CP187

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°	1190	1190	1190
5°	1192	1192	1191
10°	1193	1192	1192
15°	1193	1193	1193
20°	1192	1191	1190
25°	1190	1187	1185
30°	1184	1181	1178
35°	1177	1173	1169
40°	1166	1159	1157
45°	1151	1145	1141
50°	1129	1121	1118
55°	1103	1087	1086
60°	1057	1038	1038
65°	989	966	968
70°	890	862	860
75°	747	717	714
80°	545	518	541
85°	309	284	289

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1151 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	3.4
10°-20°	241.8	9.7
20°-30°	368.6	14.8
30°-40°	446.6	17.9
40°-50°	463.9	18.6
50°-60°	415.0	16.6
60°-70°	302.4	12.1
70°-80°	149.8	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°	694.3	27.8
0°-40°	1140.9	45.7
0°-60°	2019.8	80.8
0°-90°	2498.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2498.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	882	883	882	882	882	84
15°	856	856	856	857	856	242
25°	801	800	800	799	798	369
35°	716	715	714	713	712	448
45°	605	604	602	600	600	466
55°	470	467	464	464	463	419
65°	311	308	303	304	304	308
75°	144	142	138	140	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°	884.1	884.1	884.1	884.1	884.1
2.5°	884.1	883.8	883.8	884.1	883.5
5°	882.5	882.8	882.5	882.5	881.9
7.5°	879.0	878.7	878.4	878.7	877.8
10°	873.0	873.0	872.7	873.0	872.4
12.5°	865.7	865.7	865.7	866.0	865.7
15°	856.5	856.2	856.2	856.8	856.2
17.5°	845.7	845.4	845.4	845.1	844.5
20°	832.4	832.4	832.1	831.8	830.8
22.5°	818.1	817.8	816.9	816.9	815.6
25°	801.3	800.4	799.7	799.4	798.5
27.5°	782.9	781.6	780.7	780.1	779.1
30°	762.3	761.0	760.1	759.1	758.5
32.5°	740.1	739.5	737.9	737.6	736.3
35°	716.3	715.3	714.4	713.1	711.9
37.5°	690.9	690.0	687.7	687.1	686.2
40°	664.0	662.7	659.8	659.8	658.9
42.5°	635.1	633.8	631.9	630.6	630.0
45°	605.0	603.7	601.5	600.2	599.6
47.5°	572.9	572.0	569.4	568.5	567.5
50°	539.6	538.3	535.5	534.8	533.9
52.5°	504.7	504.1	500.3	499.9	499.0
55°	470.1	466.6	463.5	463.5	462.8
57.5°	432.1	429.5	425.4	425.4	424.8
60°	392.7	390.5	385.7	386.4	385.7
62.5°	354.3	349.6	345.1	347.0	345.5
65°	310.6	308.0	303.3	304.5	304.2
67.5°	270.6	265.8	261.4	263.9	262.7
70°	226.2	223.6	219.2	221.7	218.6
72.5°	184.3	182.1	177.6	180.5	177.3
75°	143.7	141.5	138.0	140.5	137.4
77.5°	105.3	103.7	100.6	103.1	103.7
80°	70.4	68.5	66.9	69.2	69.8
82.5°	41.2	40.0	39.3	39.7	41.2
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)