

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: P974154

Luminaire Tested: FLR2-24-30-L930-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974154
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L930-CA080
Ballast/Driver: -

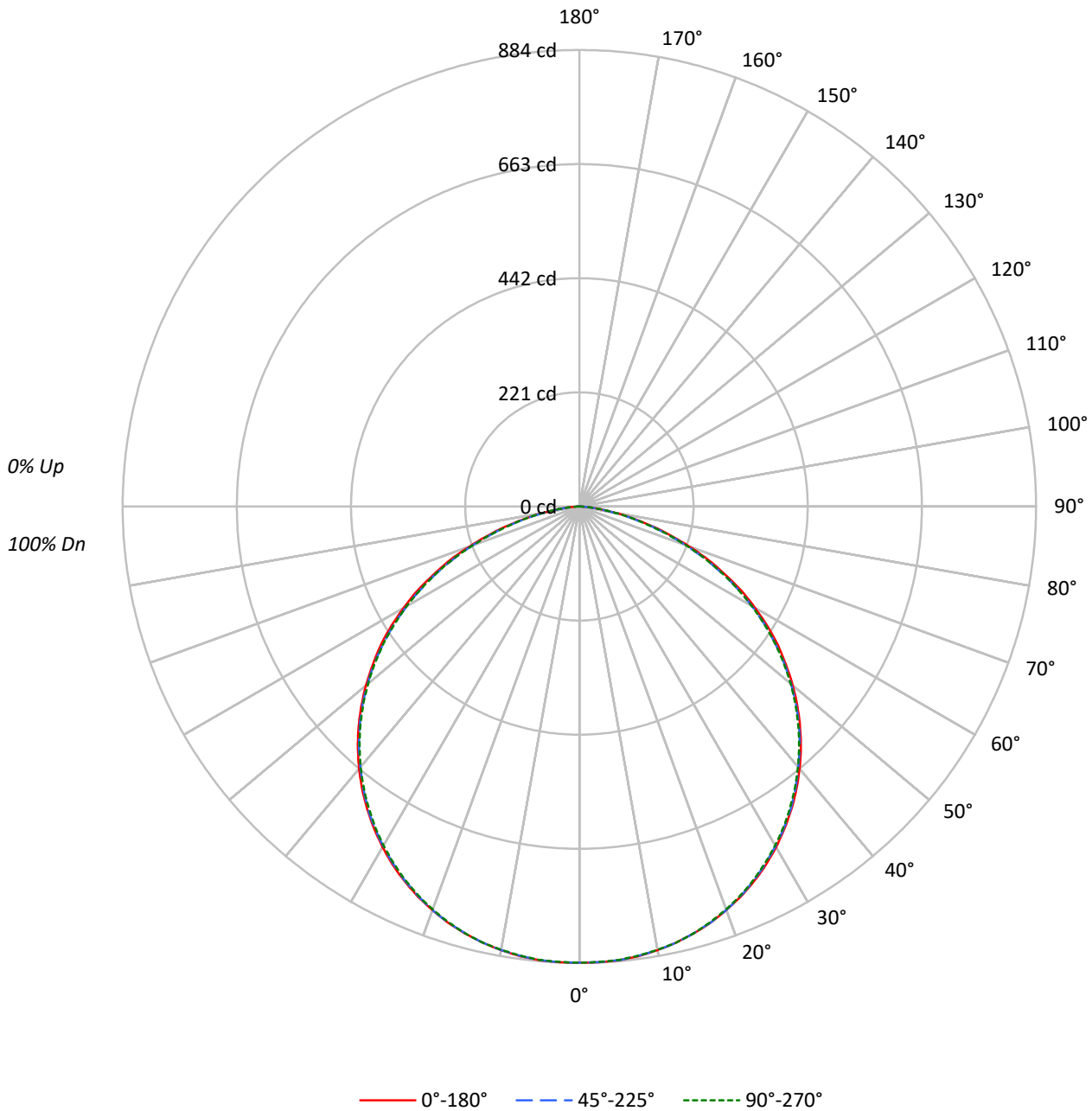
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2497.2 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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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°	1189	1189	1189
5°	1191	1191	1190
10°	1192	1192	1191
15°	1192	1192	1192
20°	1191	1191	1189
25°	1189	1186	1185
30°	1184	1180	1178
35°	1176	1173	1169
40°	1165	1158	1157
45°	1150	1144	1140
50°	1129	1120	1117
55°	1102	1087	1085
60°	1056	1037	1037
65°	988	965	968
70°	889	862	859
75°	747	717	714
80°	545	518	540
85°	309	284	289

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1150 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	3.4
10°-20°	241.6	9.7
20°-30°	368.4	14.8
30°-40°	446.3	17.9
40°-50°	463.6	18.6
50°-60°	414.7	16.6
60°-70°	302.3	12.1
70°-80°	149.7	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°	693.9	27.8
0°-40°	1140.2	45.7
0°-60°	2018.5	80.8
0°-90°	2497.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2497.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	882	882	882	882	881	84
15°	856	856	856	856	856	242
25°	801	800	799	799	798	369
35°	716	715	714	713	711	448
45°	605	603	601	600	599	466
55°	470	466	463	463	463	419
65°	310	308	303	304	304	308
75°	144	141	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°	883.6	883.6	883.6	883.6	883.6
2.5°	883.6	883.3	883.3	883.6	882.9
5°	882.0	882.3	882.0	882.0	881.4
7.5°	878.5	878.2	877.9	878.2	877.2
10°	872.5	872.5	872.2	872.5	871.8
12.5°	865.2	865.2	865.2	865.5	865.2
15°	856.0	855.7	855.7	856.3	855.7
17.5°	845.2	844.9	844.9	844.6	843.9
20°	831.9	831.9	831.6	831.3	830.3
22.5°	817.6	817.3	816.4	816.4	815.1
25°	800.8	799.9	799.2	798.9	798.0
27.5°	782.4	781.2	780.2	779.6	778.6
30°	761.8	760.6	759.6	758.7	758.0
32.5°	739.6	739.0	737.4	737.1	735.8
35°	715.9	714.9	714.0	712.7	711.4
37.5°	690.5	689.5	687.3	686.7	685.7
40°	663.5	662.3	659.4	659.4	658.5
42.5°	634.7	633.4	631.5	630.3	629.6
45°	604.6	603.3	601.1	599.8	599.2
47.5°	572.6	571.6	569.1	568.1	567.2
50°	539.3	538.0	535.2	534.5	533.6
52.5°	504.4	503.8	500.0	499.6	498.7
55°	469.8	466.4	463.2	463.2	462.6
57.5°	431.8	429.3	425.1	425.1	424.5
60°	392.5	390.3	385.5	386.1	385.5
62.5°	354.1	349.4	344.9	346.8	345.2
65°	310.4	307.8	303.1	304.4	304.0
67.5°	270.4	265.7	261.2	263.8	262.5
70°	226.0	223.5	219.1	221.6	218.4
72.5°	184.2	182.0	177.5	180.4	177.2
75°	143.6	141.4	137.9	140.4	137.3
77.5°	105.3	103.7	100.5	103.0	103.7
80°	70.4	68.5	66.9	69.1	69.7
82.5°	41.2	39.9	39.3	39.6	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)