

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: P974346

Luminaire Tested: FLR2-24-30-L940-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974346
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-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L940-CP125
Ballast/Driver: -

Summary

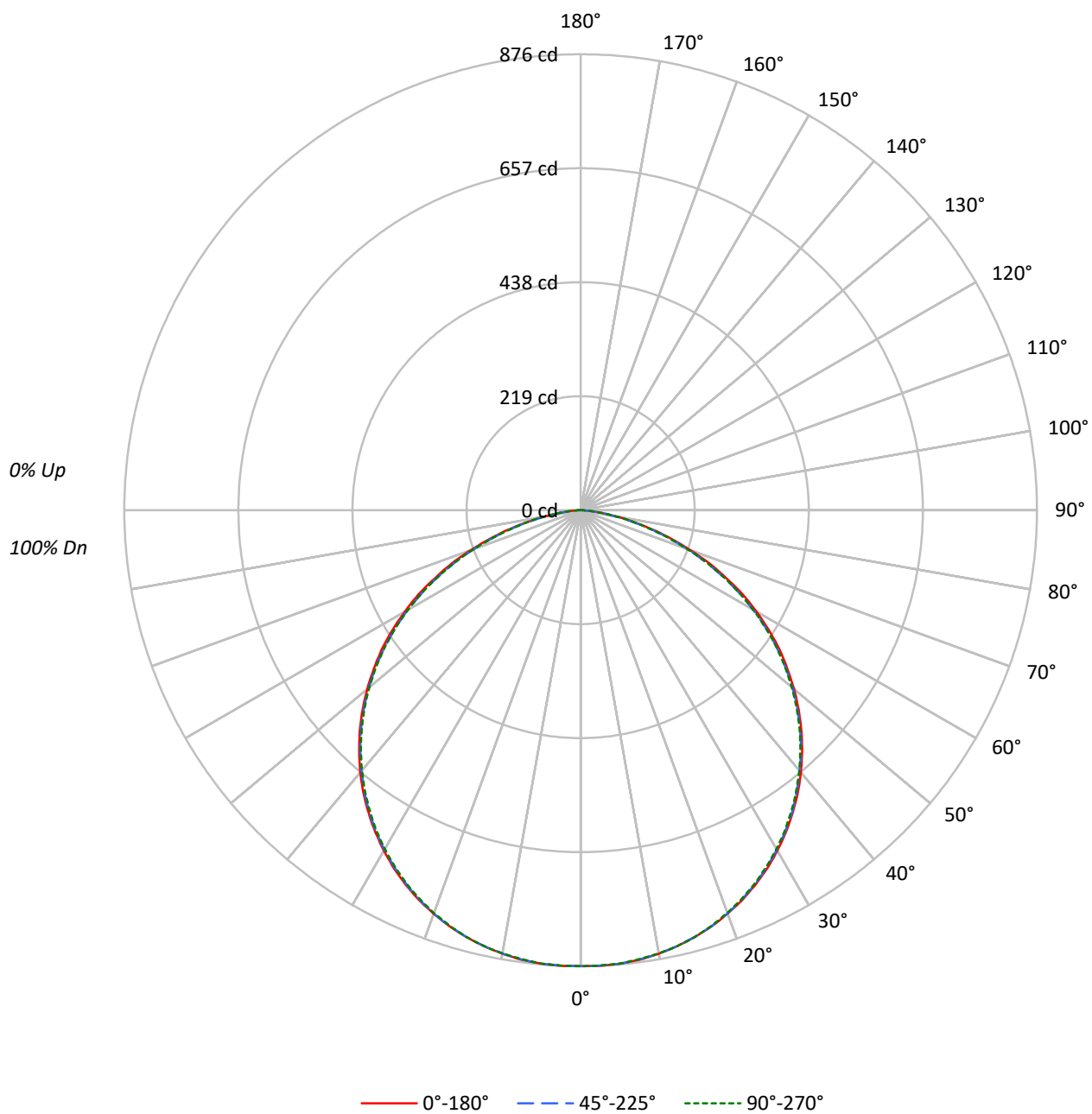
Lumens per Lamp: N/A
Luminaire Lumens: 2476.5 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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°	1179	1179	1179
5°	1181	1181	1180
10°	1182	1182	1181
15°	1182	1182	1182
20°	1181	1181	1179
25°	1179	1177	1175
30°	1174	1170	1168
35°	1166	1163	1159
40°	1156	1149	1147
45°	1141	1134	1131
50°	1119	1111	1108
55°	1093	1077	1076
60°	1047	1029	1029
65°	980	957	960
70°	882	854	852
75°	740	711	708
80°	541	514	536
85°	306	281	286

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1141 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	3.4
10°-20°	239.6	9.7
20°-30°	365.3	14.8
30°-40°	442.6	17.9
40°-50°	459.8	18.6
50°-60°	411.3	16.6
60°-70°	299.8	12.1
70°-80°	148.5	6.0
80°-90°	26.5	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°	688.1	27.8
0°-40°	1130.7	45.7
0°-60°	2001.7	80.8
0°-90°	2476.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2476.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	876	876	876	876	876	
5°	875	875	875	875	874	83
15°	849	849	849	849	849	240
25°	794	793	793	792	791	366
35°	710	709	708	707	706	444
45°	600	598	596	595	594	462
55°	466	462	459	459	459	415
65°	308	305	301	302	302	305
75°	142	140	137	139	136	152
85°	20	18	18	18	18	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	876.2	876.2	876.2	876.2	876.2
2.5°	876.2	875.9	875.9	876.2	875.6
5°	874.7	875.0	874.7	874.7	874.0
7.5°	871.2	870.9	870.6	870.9	869.9
10°	865.2	865.2	864.9	865.2	864.6
12.5°	858.0	858.0	858.0	858.3	858.0
15°	848.9	848.6	848.6	849.2	848.6
17.5°	838.2	837.9	837.9	837.6	836.9
20°	825.0	825.0	824.7	824.3	823.4
22.5°	810.8	810.5	809.6	809.6	808.3
25°	794.2	793.2	792.6	792.3	791.3
27.5°	775.9	774.7	773.7	773.1	772.2
30°	755.5	754.2	753.3	752.4	751.7
32.5°	733.5	732.9	731.3	731.0	729.7
35°	709.9	709.0	708.0	706.8	705.5
37.5°	684.8	683.8	681.6	681.0	680.0
40°	658.0	656.8	653.9	653.9	653.0
42.5°	629.4	628.2	626.3	625.0	624.4
45°	599.6	598.3	596.1	594.8	594.2
47.5°	567.8	566.9	564.3	563.4	562.5
50°	534.8	533.5	530.7	530.1	529.1
52.5°	500.2	499.6	495.8	495.5	494.5
55°	465.9	462.5	459.3	459.3	458.7
57.5°	428.2	425.7	421.6	421.6	421.0
60°	389.2	387.0	382.3	382.9	382.3
62.5°	351.2	346.5	342.1	344.0	342.4
65°	307.8	305.3	300.6	301.8	301.5
67.5°	268.2	263.5	259.1	261.6	260.3
70°	224.2	221.6	217.2	219.8	216.6
72.5°	182.7	180.5	176.1	178.9	175.7
75°	142.4	140.2	136.8	139.3	136.1
77.5°	104.4	102.8	99.7	102.2	102.8
80°	69.8	67.9	66.3	68.5	69.2
82.5°	40.9	39.6	39.0	39.3	40.9
85°	19.8	18.2	18.2	18.5	18.5
87.5°	5.3	4.7	5.3	5.7	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)