

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: P974362

Luminaire Tested: FLR2-24-30-L940-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974362
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L940-CP250
Ballast/Driver: -

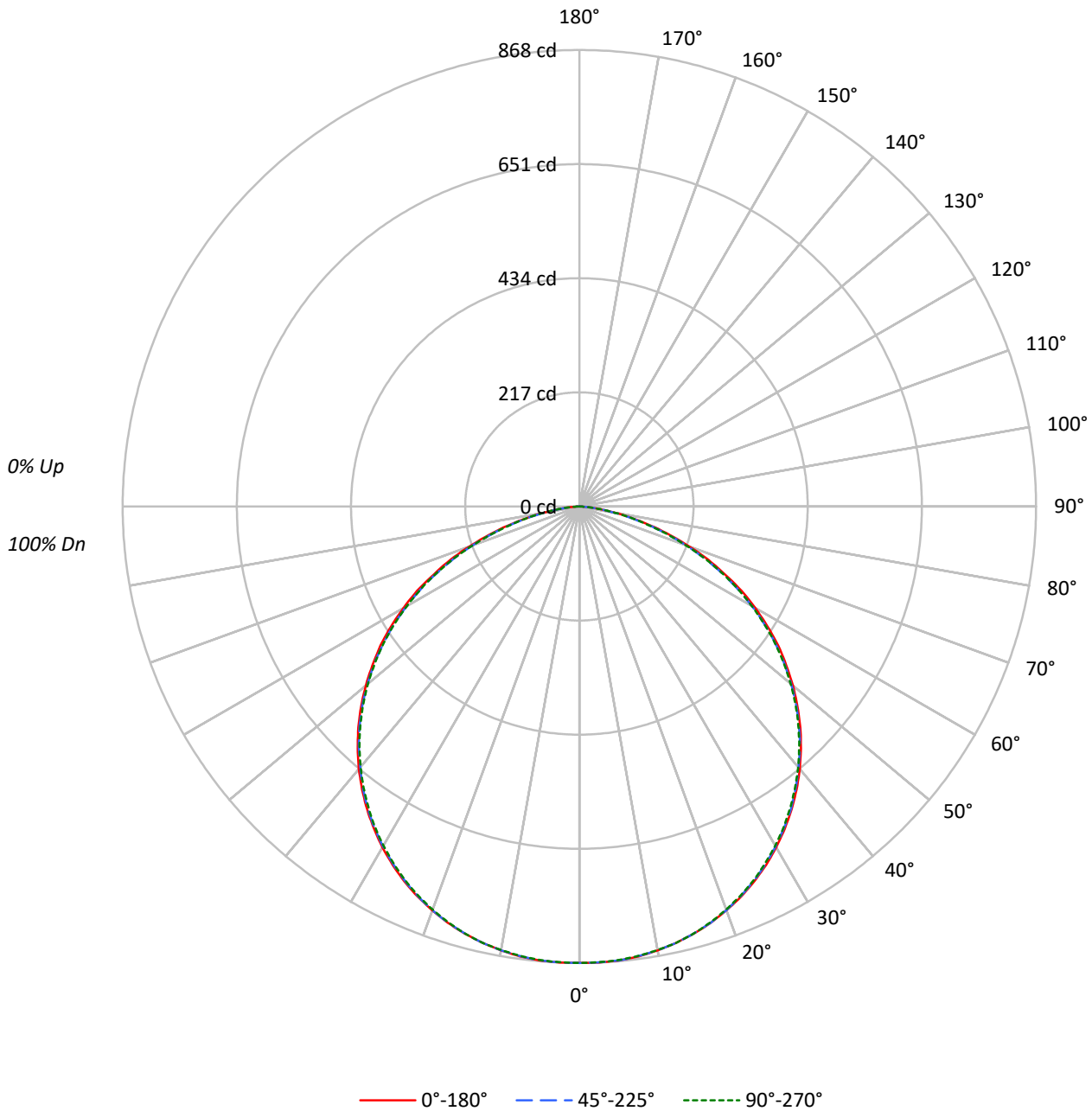
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2453.4 lumens
Efficiency: N/A
Efficacy: 103.5 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

TEST NUMBER: P974362
CATALOG NUMBER: FLR2-24-30-L940-CP250

Luminous Intensity Polar Plot





TEST NUMBER: P974362
 CATALOG NUMBER: FLR2-24-30-L940-CP250

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°	1168	1168	1168
5°	1170	1170	1170
10°	1171	1171	1170
15°	1171	1171	1171
20°	1170	1170	1168
25°	1168	1166	1164
30°	1163	1159	1157
35°	1155	1152	1148
40°	1145	1138	1136
45°	1130	1124	1120
50°	1109	1101	1097
55°	1083	1068	1066
60°	1038	1019	1019
65°	971	948	951
70°	874	847	844
75°	734	704	701
80°	535	509	531
85°	303	279	284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1130 cd/sqm



TEST NUMBER: P974362
 CATALOG NUMBER: FLR2-24-30-L940-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	3.4
10°-20°	237.4	9.7
20°-30°	361.9	14.8
30°-40°	438.5	17.9
40°-50°	455.5	18.6
50°-60°	407.5	16.6
60°-70°	297.0	12.1
70°-80°	147.1	6.0
80°-90°	26.3	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°	681.7	27.8
0°-40°	1120.2	45.7
0°-60°	1983.1	80.8
0°-90°	2453.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2453.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	866	867	866	866	866	82
15°	841	841	841	841	841	237
25°	787	786	785	785	784	363
35°	703	702	701	700	699	440
45°	594	593	590	589	589	458
55°	462	458	455	455	454	411
65°	305	302	298	299	299	302
75°	141	139	136	138	135	150
85°	20	18	18	18	18	27
90°	0	0	0	0	0	



TEST NUMBER: P974362
 CATALOG NUMBER: FLR2-24-30-L940-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	868.1	868.1	868.1	868.1	868.1
2.5°	868.1	867.8	867.8	868.1	867.4
5°	866.5	866.8	866.5	866.5	865.9
7.5°	863.1	862.8	862.5	862.8	861.8
10°	857.2	857.2	856.9	857.2	856.5
12.5°	850.0	850.0	850.0	850.3	850.0
15°	841.0	840.7	840.7	841.3	840.7
17.5°	830.4	830.1	830.1	829.8	829.1
20°	817.3	817.3	817.0	816.7	815.7
22.5°	803.3	803.0	802.0	802.0	800.8
25°	786.8	785.8	785.2	784.9	784.0
27.5°	768.7	767.5	766.5	765.9	765.0
30°	748.5	747.2	746.3	745.4	744.7
32.5°	726.7	726.0	724.5	724.2	722.9
35°	703.3	702.4	701.4	700.2	698.9
37.5°	678.4	677.4	675.3	674.6	673.7
40°	651.9	650.7	647.9	647.9	646.9
42.5°	623.6	622.3	620.5	619.2	618.6
45°	594.0	592.7	590.5	589.3	588.7
47.5°	562.5	561.6	559.1	558.2	557.2
50°	529.8	528.6	525.8	525.1	524.2
52.5°	495.6	494.9	491.2	490.9	489.9
55°	461.6	458.2	455.1	455.1	454.4
57.5°	424.2	421.7	417.7	417.7	417.1
60°	385.6	383.4	378.7	379.4	378.7
62.5°	347.9	343.2	338.9	340.7	339.2
65°	304.9	302.4	297.8	299.0	298.7
67.5°	265.7	261.0	256.7	259.1	257.9
70°	222.1	219.6	215.2	217.7	214.6
72.5°	181.0	178.8	174.4	177.2	174.1
75°	141.1	138.9	135.5	138.0	134.9
77.5°	103.4	101.9	98.7	101.2	101.9
80°	69.1	67.3	65.7	67.9	68.5
82.5°	40.5	39.2	38.6	38.9	40.5
85°	19.6	18.1	18.1	18.4	18.4
87.5°	5.3	4.7	5.3	5.6	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)