

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: P974282

Luminaire Tested: FLR2-24-30-L840-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974282
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-L840-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L840-CP080
Ballast/Driver: -

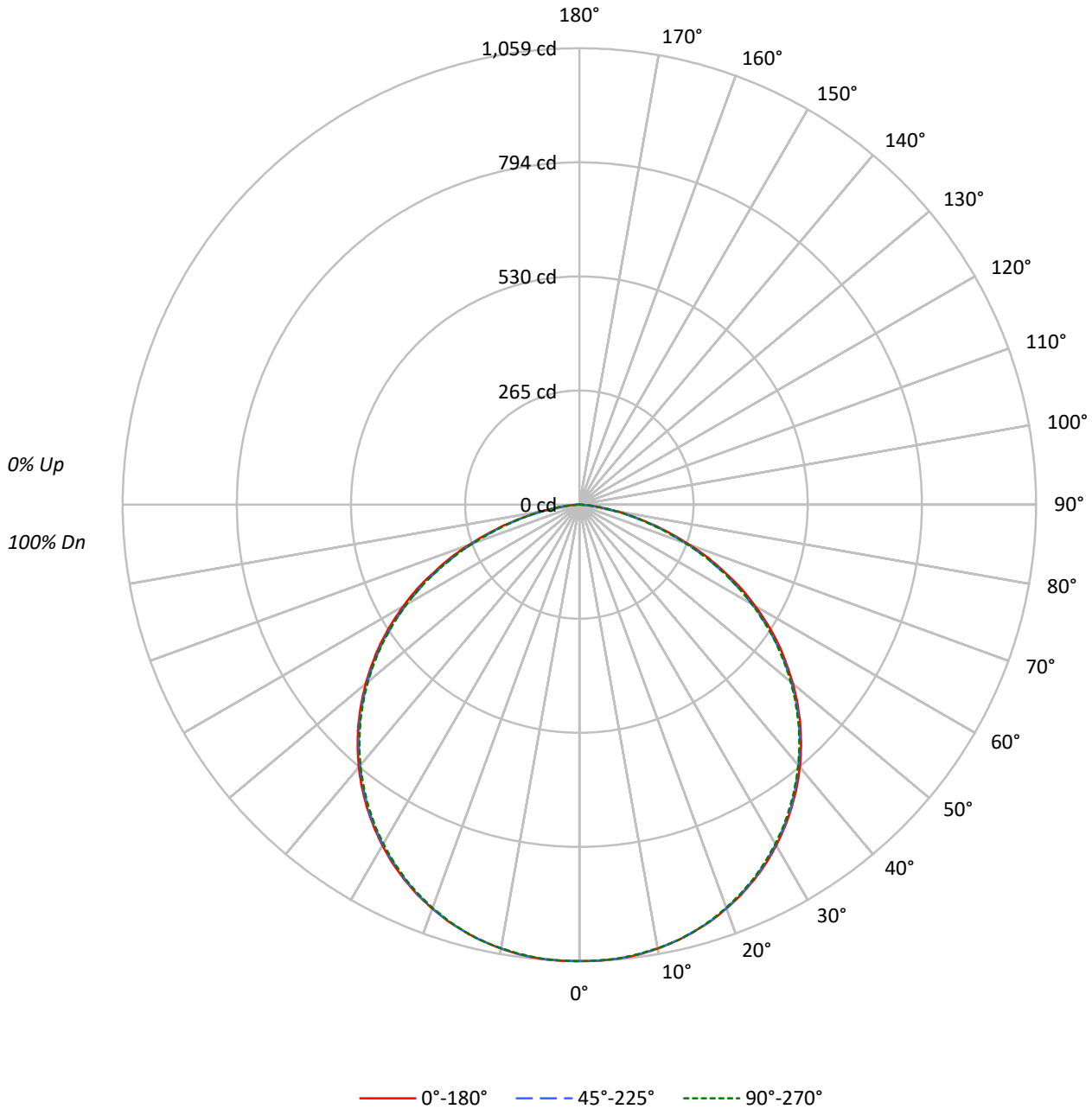
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2994.2 lumens
Efficiency: N/A
Efficacy: 126.3 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				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°	1425	1425	1425
5°	1428	1428	1427
10°	1429	1429	1428
15°	1430	1429	1429
20°	1428	1428	1426
25°	1425	1423	1420
30°	1419	1415	1412
35°	1410	1406	1401
40°	1397	1389	1387
45°	1379	1371	1367
50°	1353	1343	1339
55°	1322	1303	1301
60°	1266	1244	1244
65°	1185	1157	1160
70°	1066	1033	1030
75°	895	860	856
80°	654	621	648
85°	369	340	346

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1379 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	3.4
10°-20°	289.7	9.7
20°-30°	441.7	14.8
30°-40°	535.1	17.9
40°-50°	555.9	18.6
50°-60°	497.3	16.6
60°-70°	362.4	12.1
70°-80°	179.5	6.0
80°-90°	32.1	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°	832.0	27.8
0°-40°	1367.1	45.7
0°-60°	2420.3	80.8
0°-90°	2994.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2994.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1058	1058	1058	1058	1057	101
15°	1026	1026	1026	1027	1026	290
25°	960	959	958	958	957	443
35°	858	857	856	854	853	537
45°	725	723	721	719	718	559
55°	563	559	555	555	555	502
65°	372	369	363	365	364	369
75°	172	170	165	168	165	184
85°	24	22	22	22	22	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1059.4	1059.4	1059.4	1059.4	1059.4
2.5°	1059.4	1059.0	1059.0	1059.4	1058.7
5°	1057.5	1057.9	1057.5	1057.5	1056.8
7.5°	1053.3	1053.0	1052.6	1053.0	1051.8
10°	1046.1	1046.1	1045.7	1046.1	1045.4
12.5°	1037.4	1037.4	1037.4	1037.8	1037.4
15°	1026.3	1026.0	1026.0	1026.7	1026.0
17.5°	1013.4	1013.0	1013.0	1012.7	1011.9
20°	997.5	997.5	997.1	996.7	995.6
22.5°	980.4	980.0	978.8	978.8	977.3
25°	960.2	959.1	958.3	957.9	956.8
27.5°	938.2	936.6	935.5	934.7	933.6
30°	913.4	911.9	910.8	909.6	908.9
32.5°	886.8	886.1	884.2	883.8	882.3
35°	858.3	857.2	856.0	854.5	853.0
37.5°	827.9	826.8	824.1	823.4	822.2
40°	795.6	794.1	790.7	790.7	789.5
42.5°	761.0	759.5	757.2	755.7	754.9
45°	724.9	723.4	720.7	719.2	718.4
47.5°	686.5	685.4	682.3	681.2	680.0
50°	646.6	645.1	641.7	640.9	639.8
52.5°	604.8	604.0	599.5	599.1	597.9
55°	563.4	559.2	555.4	555.4	554.6
57.5°	517.7	514.7	509.8	509.8	509.0
60°	470.6	467.9	462.2	463.0	462.2
62.5°	424.6	418.9	413.6	415.9	414.0
65°	372.1	369.1	363.4	364.9	364.5
67.5°	324.2	318.5	313.2	316.3	314.7
70°	271.0	268.0	262.7	265.7	261.9
72.5°	220.9	218.2	212.9	216.3	212.5
75°	172.2	169.5	165.4	168.4	164.6
77.5°	126.2	124.3	120.5	123.5	124.3
80°	84.4	82.1	80.2	82.9	83.6
82.5°	49.4	47.9	47.1	47.5	49.4
85°	23.9	22.0	22.0	22.4	22.4
87.5°	6.5	5.7	6.5	6.8	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)