

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: P974116

Luminaire Tested: FLR2-24-40-L930-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974116
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: FLR2-24-40-L930-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L930-CP080
Ballast/Driver: -

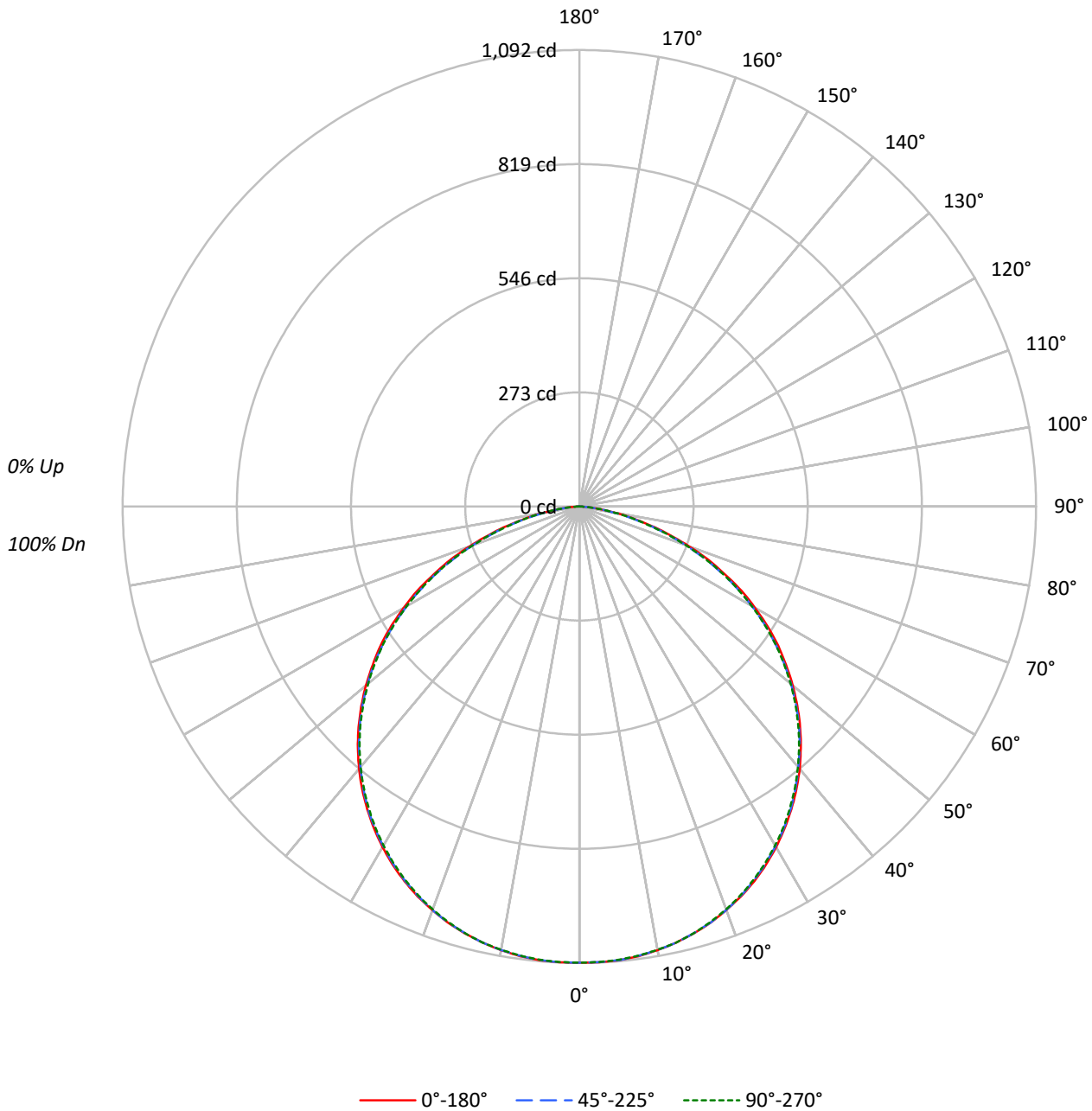
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3084.9 lumens
Efficiency: N/A
Efficacy: 101.8 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): 30.3
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°	1469	1469	1469
5°	1472	1472	1470
10°	1473	1472	1471
15°	1473	1472	1472
20°	1471	1471	1469
25°	1469	1466	1463
30°	1462	1458	1455
35°	1452	1449	1443
40°	1440	1431	1429
45°	1421	1413	1408
50°	1394	1384	1380
55°	1361	1342	1340
60°	1305	1281	1281
65°	1221	1192	1196
70°	1098	1065	1061
75°	922	886	882
80°	673	640	668
85°	381	350	357

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1421 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	3.4
10°-20°	298.5	9.7
20°-30°	455.1	14.8
30°-40°	551.3	17.9
40°-50°	572.7	18.6
50°-60°	512.3	16.6
60°-70°	373.4	12.1
70°-80°	184.9	6.0
80°-90°	33.1	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°	857.1	27.8
0°-40°	1408.5	45.7
0°-60°	2493.5	80.8
0°-90°	3084.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3084.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1092	1092	1092	1092	1092	
5°	1090	1090	1090	1090	1089	104
15°	1057	1057	1057	1058	1057	299
25°	989	988	987	987	986	456
35°	884	883	882	880	879	553
45°	747	745	742	741	740	576
55°	580	576	572	572	571	517
65°	383	380	374	376	376	380
75°	177	175	170	174	170	189
85°	25	23	23	23	23	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1091.5	1091.5	1091.5	1091.5	1091.5
2.5°	1091.5	1091.1	1091.1	1091.5	1090.7
5°	1089.5	1089.9	1089.5	1089.5	1088.7
7.5°	1085.2	1084.8	1084.4	1084.8	1083.6
10°	1077.8	1077.8	1077.4	1077.8	1077.0
12.5°	1068.8	1068.8	1068.8	1069.2	1068.8
15°	1057.4	1057.0	1057.0	1057.8	1057.0
17.5°	1044.1	1043.7	1043.7	1043.3	1042.5
20°	1027.6	1027.6	1027.3	1026.9	1025.7
22.5°	1010.0	1009.6	1008.5	1008.5	1006.9
25°	989.3	988.1	987.3	986.9	985.7
27.5°	966.6	965.0	963.8	963.0	961.9
30°	941.1	939.5	938.4	937.2	936.4
32.5°	913.7	912.9	910.9	910.5	909.0
35°	884.3	883.1	882.0	880.4	878.8
37.5°	853.0	851.8	849.1	848.3	847.1
40°	819.7	818.1	814.6	814.6	813.4
42.5°	784.0	782.5	780.1	778.6	777.8
45°	746.8	745.3	742.5	741.0	740.2
47.5°	707.3	706.1	703.0	701.8	700.6
50°	666.2	664.6	661.1	660.3	659.1
52.5°	623.1	622.3	617.6	617.2	616.0
55°	580.4	576.1	572.2	572.2	571.4
57.5°	533.4	530.3	525.2	525.2	524.4
60°	484.8	482.1	476.2	477.0	476.2
62.5°	437.5	431.6	426.1	428.4	426.5
65°	383.4	380.3	374.4	376.0	375.6
67.5°	334.1	328.2	322.7	325.8	324.3
70°	279.2	276.1	270.6	273.8	269.8
72.5°	227.5	224.8	219.3	222.8	218.9
75°	177.4	174.7	170.4	173.5	169.6
77.5°	130.0	128.1	124.1	127.3	128.1
80°	86.9	84.6	82.6	85.4	86.2
82.5°	50.9	49.3	48.6	49.0	50.9
85°	24.7	22.7	22.7	23.1	23.1
87.5°	6.7	5.9	6.7	7.0	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)