

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: P974098

Luminaire Tested: FLR2-24-30-L830-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974098
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-L830-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L830-CA080
Ballast/Driver: -

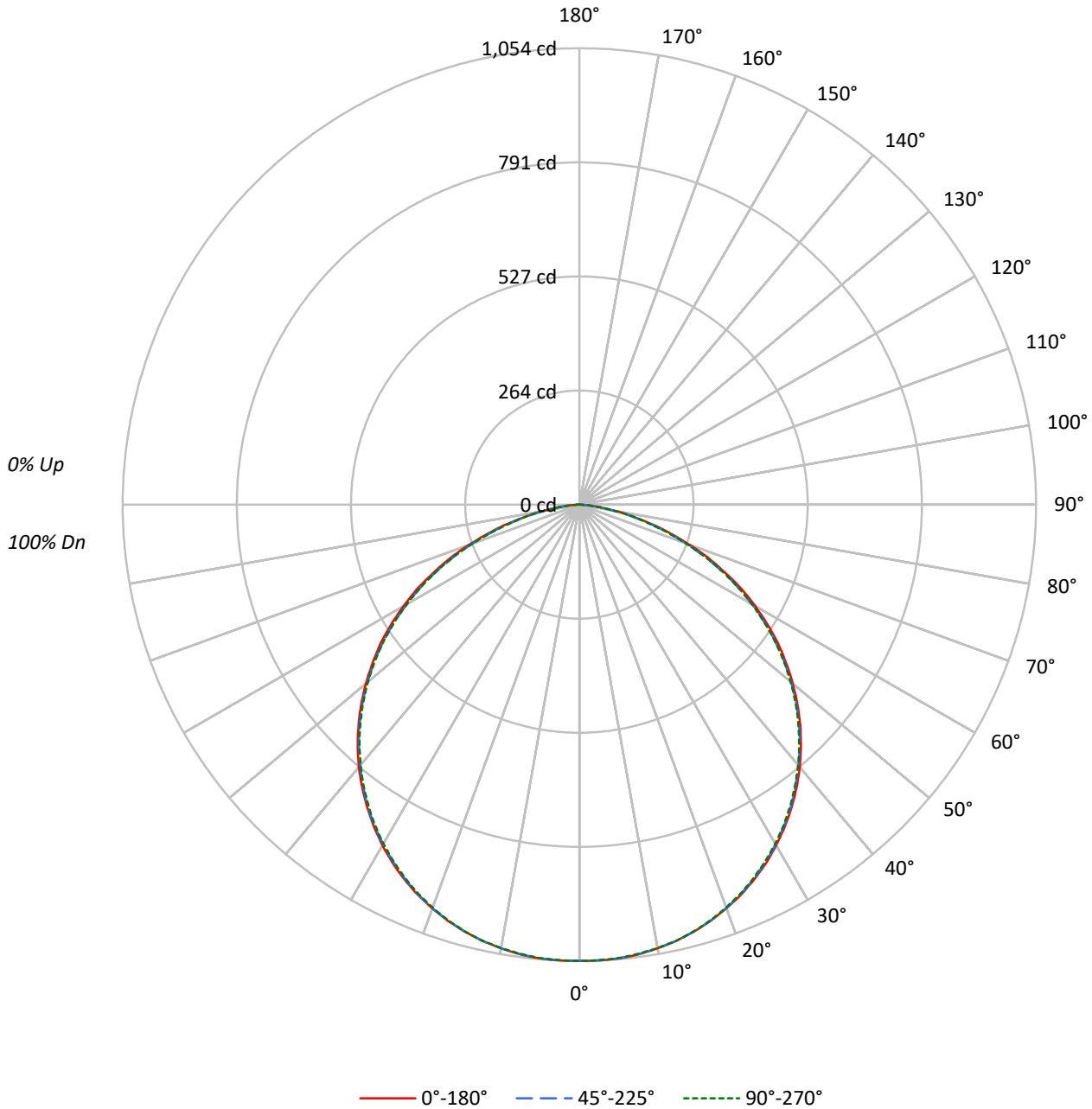
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2978.6 lumens
Efficiency: N/A
Efficacy: 125.7 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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	1418	1418	1418
5°	1421	1421	1420
10°	1422	1421	1421
15°	1422	1422	1422
20°	1421	1420	1418
25°	1418	1415	1413
30°	1412	1408	1405
35°	1403	1399	1394
40°	1390	1381	1379
45°	1372	1364	1360
50°	1346	1336	1332
55°	1315	1296	1294
60°	1260	1237	1237
65°	1179	1151	1154
70°	1061	1028	1025
75°	891	855	851
80°	650	618	645
85°	367	338	344

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1372 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.0	3.4
10°-20°	288.2	9.7
20°-30°	439.4	14.8
30°-40°	532.4	17.9
40°-50°	553.0	18.6
50°-60°	494.7	16.6
60°-70°	360.5	12.1
70°-80°	178.6	6.0
80°-90°	31.9	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°	827.6	27.8
0°-40°	1360.0	45.7
0°-60°	2407.6	80.8
0°-90°	2978.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2978.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1052	1052	1052	1052	1051	100
15°	1021	1021	1021	1021	1021	288
25°	955	954	953	953	952	440
35°	854	853	852	850	849	534
45°	721	720	717	716	715	556
55°	560	556	552	552	552	499
65°	370	367	362	363	363	367
75°	171	169	164	168	164	183
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°	1053.9	1053.9	1053.9	1053.9	1053.9
2.5°	1053.9	1053.5	1053.5	1053.9	1053.1
5°	1052.0	1052.4	1052.0	1052.0	1051.2
7.5°	1047.8	1047.5	1047.1	1047.5	1046.3
10°	1040.7	1040.7	1040.3	1040.7	1039.9
12.5°	1032.0	1032.0	1032.0	1032.3	1032.0
15°	1021.0	1020.6	1020.6	1021.4	1020.6
17.5°	1008.1	1007.8	1007.8	1007.4	1006.6
20°	992.3	992.3	991.9	991.5	990.4
22.5°	975.2	974.9	973.7	973.7	972.2
25°	955.2	954.1	953.3	952.9	951.8
27.5°	933.3	931.8	930.6	929.9	928.7
30°	908.7	907.2	906.0	904.9	904.2
32.5°	882.2	881.5	879.6	879.2	877.7
35°	853.9	852.7	851.6	850.1	848.6
37.5°	823.6	822.5	819.8	819.1	817.9
40°	791.5	789.9	786.5	786.5	785.4
42.5°	757.1	755.5	753.3	751.8	751.0
45°	721.1	719.6	717.0	715.5	714.7
47.5°	682.9	681.8	678.8	677.6	676.5
50°	643.2	641.7	638.3	637.6	636.4
52.5°	601.6	600.9	596.3	596.0	594.8
55°	560.4	556.3	552.5	552.5	551.7
57.5°	515.0	512.0	507.1	507.1	506.3
60°	468.1	465.5	459.8	460.6	459.8
62.5°	422.4	416.7	411.4	413.7	411.8
65°	370.2	367.2	361.5	363.0	362.6
67.5°	322.6	316.9	311.6	314.6	313.1
70°	269.6	266.6	261.3	264.3	260.5
72.5°	219.7	217.1	211.8	215.2	211.4
75°	171.3	168.7	164.5	167.5	163.7
77.5°	125.5	123.7	119.9	122.9	123.7
80°	83.9	81.7	79.8	82.4	83.2
82.5°	49.2	47.6	46.9	47.3	49.2
85°	23.8	21.9	21.9	22.3	22.3
87.5°	6.4	5.7	6.4	6.8	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)