

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: P975034

Luminaire Tested: FLR2-24-30HE-L850-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975034
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: FLR2-24-30HE-L850-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

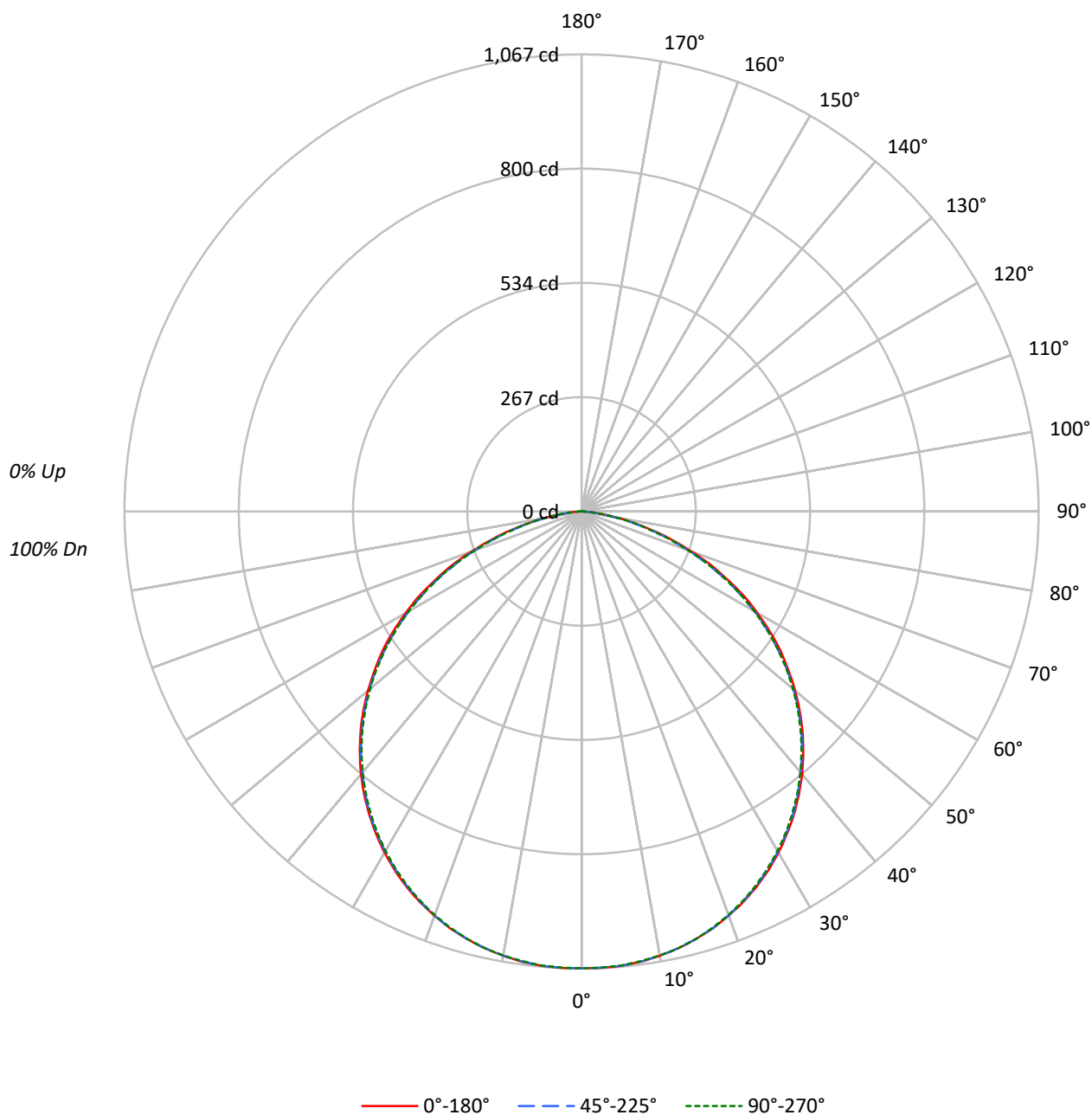
Lumens per Lamp: N/A
Luminaire Lumens: 3014.7 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 21.9
Input Voltage (V):
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		
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°	1435	1435	1435
5°	1438	1438	1437
10°	1439	1439	1438
15°	1439	1439	1439
20°	1438	1437	1435
25°	1435	1432	1430
30°	1429	1425	1422
35°	1419	1416	1411
40°	1407	1398	1396
45°	1389	1381	1376
50°	1363	1352	1348
55°	1331	1312	1310
60°	1275	1252	1252
65°	1193	1165	1168
70°	1074	1041	1037
75°	901	866	861
80°	659	626	652
85°	372	343	349

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1389 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	3.4
10°-20°	291.7	9.7
20°-30°	444.7	14.8
30°-40°	538.8	17.9
40°-50°	559.7	18.6
50°-60°	500.7	16.6
60°-70°	364.9	12.1
70°-80°	180.7	6.0
80°-90°	32.3	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°	837.7	27.8
0°-40°	1376.5	45.7
0°-60°	2436.8	80.8
0°-90°	3014.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3014.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1067	1067	1067	1067	1067	
5°	1065	1065	1065	1065	1064	101
15°	1033	1033	1033	1034	1033	292
25°	967	966	965	964	963	446
35°	864	863	862	860	859	541
45°	730	728	726	724	723	562
55°	567	563	559	559	558	505
65°	375	372	366	367	367	371
75°	173	171	166	170	166	185
85°	24	22	22	23	23	33
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1066.7	1066.7	1066.7	1066.7	1066.7
2.5°	1066.7	1066.3	1066.3	1066.7	1065.9
5°	1064.8	1065.1	1064.8	1064.8	1064.0
7.5°	1060.5	1060.2	1059.8	1060.2	1059.0
10°	1053.3	1053.3	1052.9	1053.3	1052.5
12.5°	1044.5	1044.5	1044.5	1044.8	1044.5
15°	1033.4	1033.0	1033.0	1033.8	1033.0
17.5°	1020.4	1020.0	1020.0	1019.6	1018.8
20°	1004.3	1004.3	1003.9	1003.5	1002.4
22.5°	987.1	986.7	985.5	985.5	984.0
25°	966.8	965.6	964.9	964.5	963.3
27.5°	944.6	943.0	941.9	941.1	940.0
30°	919.7	918.2	917.0	915.9	915.1
32.5°	892.9	892.1	890.2	889.8	888.3
35°	864.2	863.1	861.9	860.4	858.8
37.5°	833.6	832.4	829.8	829.0	827.8
40°	801.1	799.5	796.1	796.1	794.9
42.5°	766.2	764.7	762.4	760.9	760.1
45°	729.9	728.3	725.7	724.1	723.4
47.5°	691.2	690.1	687.0	685.9	684.7
50°	651.0	649.5	646.0	645.3	644.1
52.5°	608.9	608.2	603.6	603.2	602.0
55°	567.2	563.0	559.2	559.2	558.4
57.5°	521.3	518.2	513.2	513.2	512.5
60°	473.8	471.1	465.4	466.2	465.4
62.5°	427.5	421.8	416.4	418.7	416.8
65°	374.7	371.6	365.9	367.4	367.0
67.5°	326.5	320.7	315.4	318.4	316.9
70°	272.9	269.8	264.5	267.5	263.7
72.5°	222.4	219.7	214.3	217.8	213.9
75°	173.4	170.7	166.5	169.5	165.7
77.5°	127.1	125.2	121.3	124.4	125.2
80°	85.0	82.7	80.8	83.4	84.2
82.5°	49.8	48.2	47.5	47.8	49.8
85°	24.1	22.2	22.2	22.6	22.6
87.5°	6.5	5.7	6.5	6.9	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)