

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: P974572

Luminaire Tested: FLR2-24-30HE-L830-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974572
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-L830-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

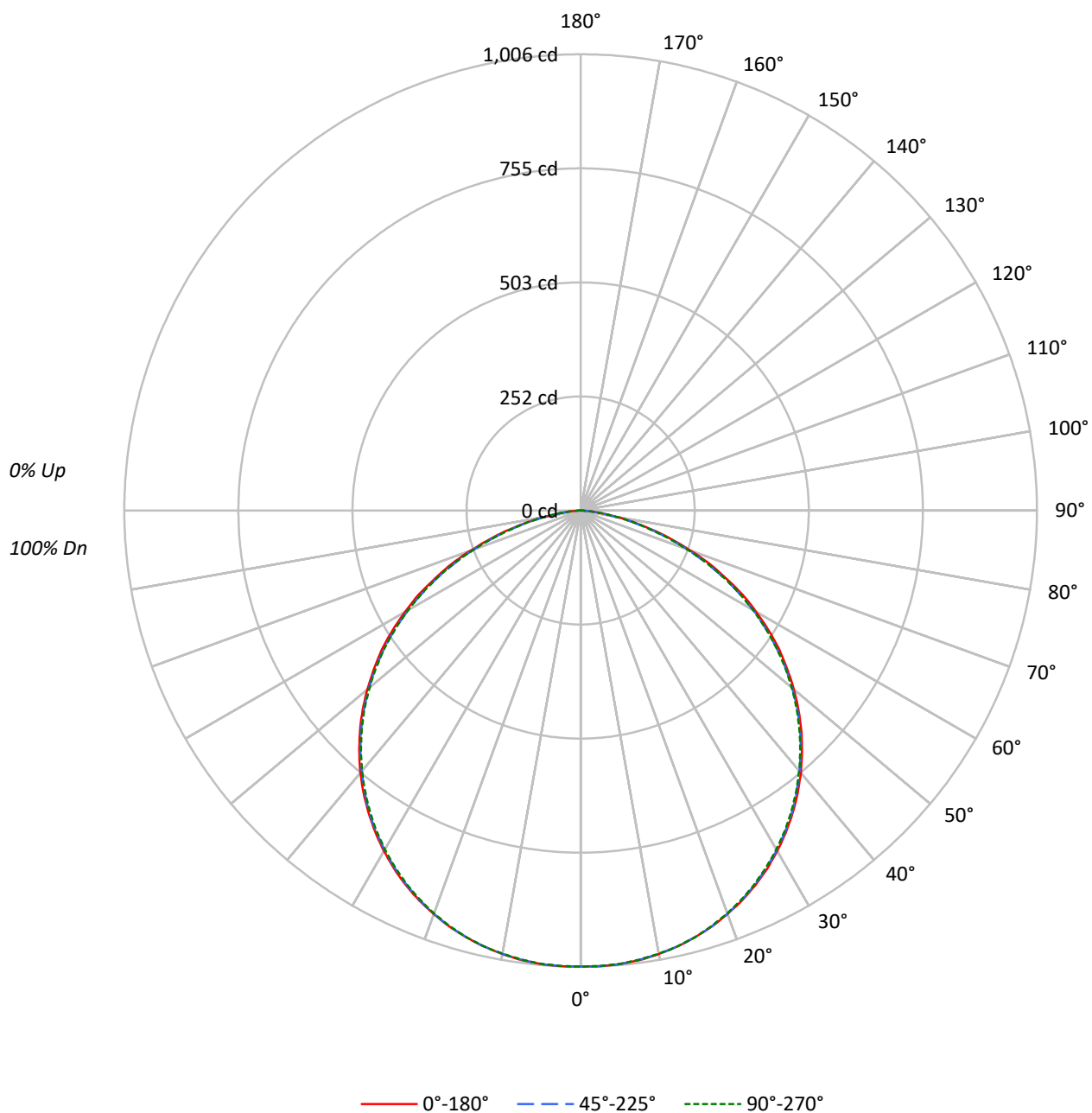
Lumens per Lamp: N/A
Luminaire Lumens: 2842.4 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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		100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71		71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60		60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1353	1353	1353
5°	1356	1356	1355
10°	1357	1356	1356
15°	1357	1357	1357
20°	1356	1355	1353
25°	1353	1351	1348
30°	1347	1343	1340
35°	1338	1335	1330
40°	1327	1318	1316
45°	1310	1302	1298
50°	1285	1275	1271
55°	1255	1237	1235
60°	1202	1181	1181
65°	1125	1098	1102
70°	1012	981	978
75°	850	816	813
80°	621	590	615
85°	350	323	329

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1310 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	3.4
10°-20°	275.0	9.7
20°-30°	419.3	14.8
30°-40°	508.0	17.9
40°-50°	527.7	18.6
50°-60°	472.1	16.6
60°-70°	344.0	12.1
70°-80°	170.4	6.0
80°-90°	30.4	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°	789.8	27.8
0°-40°	1297.8	45.7
0°-60°	2297.6	80.8
0°-90°	2842.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2842.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1004	1004	1004	1004	1003	95
15°	974	974	974	975	974	275
25°	912	910	910	909	908	420
35°	815	814	813	811	810	510
45°	688	687	684	683	682	530
55°	535	531	527	527	526	476
65°	353	350	345	346	346	350
75°	164	161	157	160	156	174
85°	23	21	21	21	21	31
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1005.7	1005.7	1005.7	1005.7	1005.7
2.5°	1005.7	1005.4	1005.4	1005.7	1005.0
5°	1003.9	1004.3	1003.9	1003.9	1003.2
7.5°	999.9	999.6	999.2	999.6	998.5
10°	993.1	993.1	992.7	993.1	992.4
12.5°	984.8	984.8	984.8	985.1	984.8
15°	974.3	974.0	974.0	974.7	974.0
17.5°	962.0	961.7	961.7	961.3	960.6
20°	946.9	946.9	946.5	946.2	945.1
22.5°	930.7	930.3	929.2	929.2	927.8
25°	911.5	910.4	909.7	909.4	908.3
27.5°	890.6	889.2	888.1	887.4	886.3
30°	867.1	865.7	864.6	863.5	862.8
32.5°	841.9	841.2	839.4	839.0	837.6
35°	814.8	813.7	812.7	811.2	809.8
37.5°	786.0	784.9	782.3	781.6	780.5
40°	755.3	753.8	750.6	750.6	749.5
42.5°	722.4	721.0	718.8	717.4	716.7
45°	688.2	686.7	684.2	682.7	682.0
47.5°	651.7	650.6	647.7	646.7	645.6
50°	613.8	612.4	609.1	608.4	607.3
52.5°	574.1	573.4	569.1	568.7	567.6
55°	534.8	530.8	527.2	527.2	526.5
57.5°	491.5	488.6	483.9	483.9	483.2
60°	446.7	444.2	438.8	439.5	438.8
62.5°	403.1	397.7	392.6	394.8	393.0
65°	353.3	350.4	345.0	346.4	346.1
67.5°	307.8	302.4	297.3	300.2	298.8
70°	257.3	254.4	249.4	252.2	248.6
72.5°	209.7	207.1	202.1	205.3	201.7
75°	163.5	160.9	157.0	159.9	156.3
77.5°	119.8	118.0	114.4	117.3	118.0
80°	80.1	77.9	76.1	78.7	79.4
82.5°	46.9	45.5	44.7	45.1	46.9
85°	22.7	20.9	20.9	21.3	21.3
87.5°	6.1	5.4	6.1	6.5	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)