

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: P974516

Luminaire Tested: FLR2-24-20HE-L830-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974516
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: FLR2-24-20HE-L830-CP125
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 2
Light Source:
Ballast/Driver: -

Summary

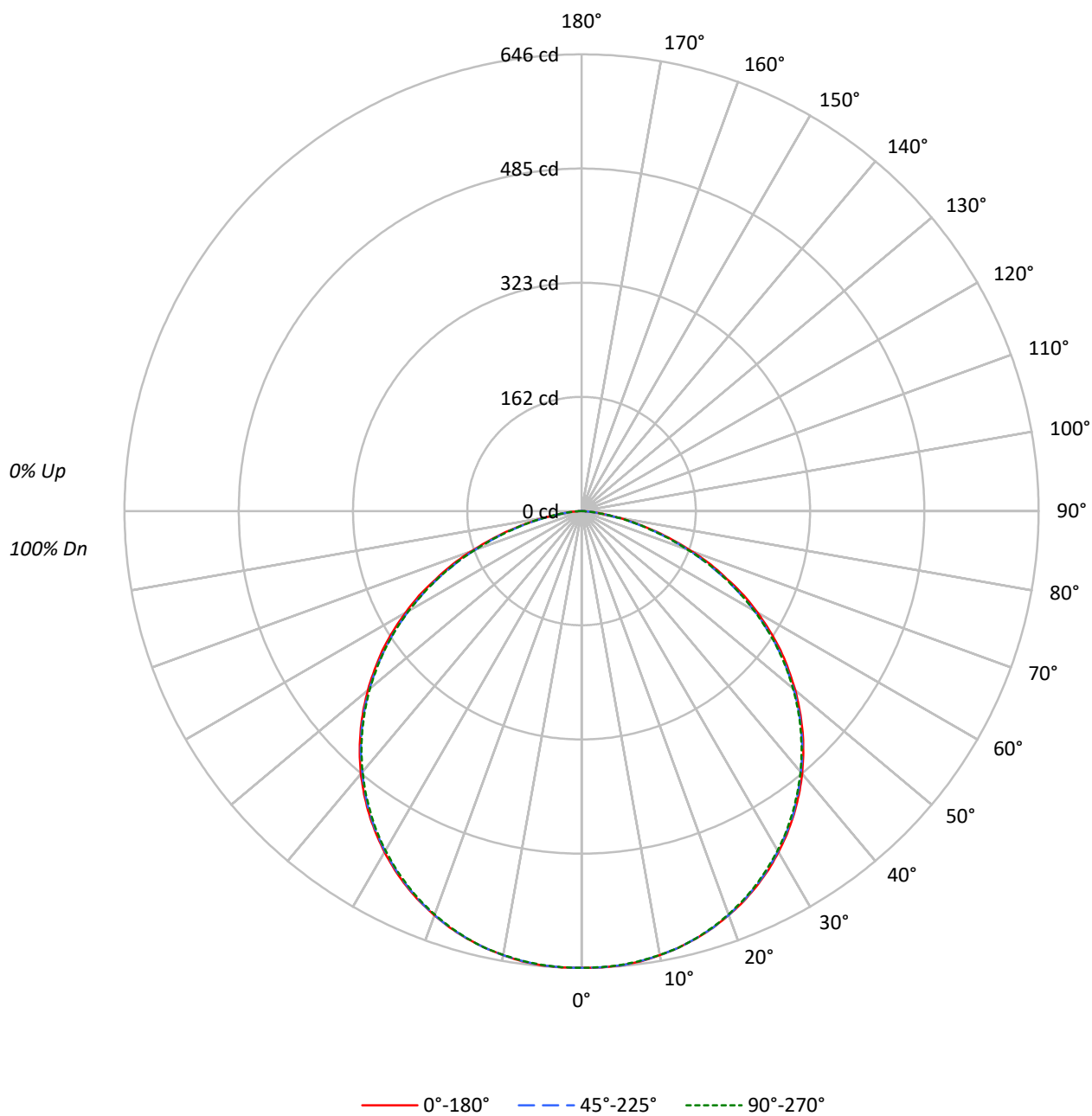
Lumens per Lamp: N/A
Luminaire Lumens: 1825.9 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 14.9
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°	869	869	869
5°	871	871	870
10°	872	871	871
15°	872	871	871
20°	871	871	869
25°	869	868	866
30°	865	863	861
35°	860	857	854
40°	852	847	846
45°	841	836	834
50°	825	819	817
55°	806	795	793
60°	772	759	759
65°	722	706	708
70°	650	630	628
75°	546	524	522
80°	399	379	395
85°	225	207	211

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 841 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	3.4
10°-20°	176.7	9.7
20°-30°	269.3	14.8
30°-40°	326.3	17.9
40°-50°	339.0	18.6
50°-60°	303.2	16.6
60°-70°	221.0	12.1
70°-80°	109.5	6.0
80°-90°	19.6	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°	507.3	27.8
0°-40°	833.7	45.7
0°-60°	1475.9	80.8
0°-90°	1825.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1825.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	646	646	646	646	646	
5°	645	645	645	645	644	61
15°	626	626	626	626	626	177
25°	586	585	584	584	583	270
35°	523	523	522	521	520	327
45°	442	441	440	439	438	341
55°	344	341	339	339	338	306
65°	227	225	222	222	222	225
75°	105	103	101	103	100	112
85°	15	13	13	14	14	20
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	646.0	646.0	646.0	646.0	646.0
2.5°	646.0	645.8	645.8	646.0	645.6
5°	644.9	645.1	644.9	644.9	644.4
7.5°	642.3	642.1	641.9	642.1	641.4
10°	637.9	637.9	637.7	637.9	637.5
12.5°	632.6	632.6	632.6	632.8	632.6
15°	625.9	625.6	625.6	626.1	625.6
17.5°	618.0	617.8	617.8	617.5	617.1
20°	608.3	608.3	608.0	607.8	607.1
22.5°	597.8	597.6	596.9	596.9	596.0
25°	585.5	584.8	584.4	584.1	583.4
27.5°	572.1	571.2	570.5	570.0	569.3
30°	557.0	556.1	555.4	554.7	554.2
32.5°	540.8	540.3	539.2	538.9	538.0
35°	523.4	522.7	522.0	521.1	520.2
37.5°	504.9	504.2	502.5	502.1	501.4
40°	485.2	484.2	482.1	482.1	481.5
42.5°	464.1	463.1	461.8	460.8	460.4
45°	442.0	441.1	439.5	438.6	438.1
47.5°	418.6	417.9	416.1	415.4	414.7
50°	394.3	393.4	391.3	390.8	390.1
52.5°	368.8	368.3	365.6	365.3	364.6
55°	343.5	341.0	338.7	338.7	338.2
57.5°	315.7	313.9	310.8	310.8	310.4
60°	287.0	285.3	281.9	282.3	281.9
62.5°	258.9	255.4	252.2	253.6	252.4
65°	226.9	225.1	221.6	222.5	222.3
67.5°	197.7	194.3	191.0	192.9	191.9
70°	165.3	163.4	160.2	162.0	159.7
72.5°	134.7	133.1	129.8	131.9	129.6
75°	105.0	103.4	100.8	102.7	100.4
77.5°	77.0	75.8	73.5	75.3	75.8
80°	51.5	50.1	48.9	50.5	51.0
82.5°	30.1	29.2	28.7	29.0	30.1
85°	14.6	13.4	13.4	13.7	13.7
87.5°	3.9	3.5	3.9	4.2	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)