

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: P974571

Luminaire Tested: FLR2-24-20HE-L830-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974571
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

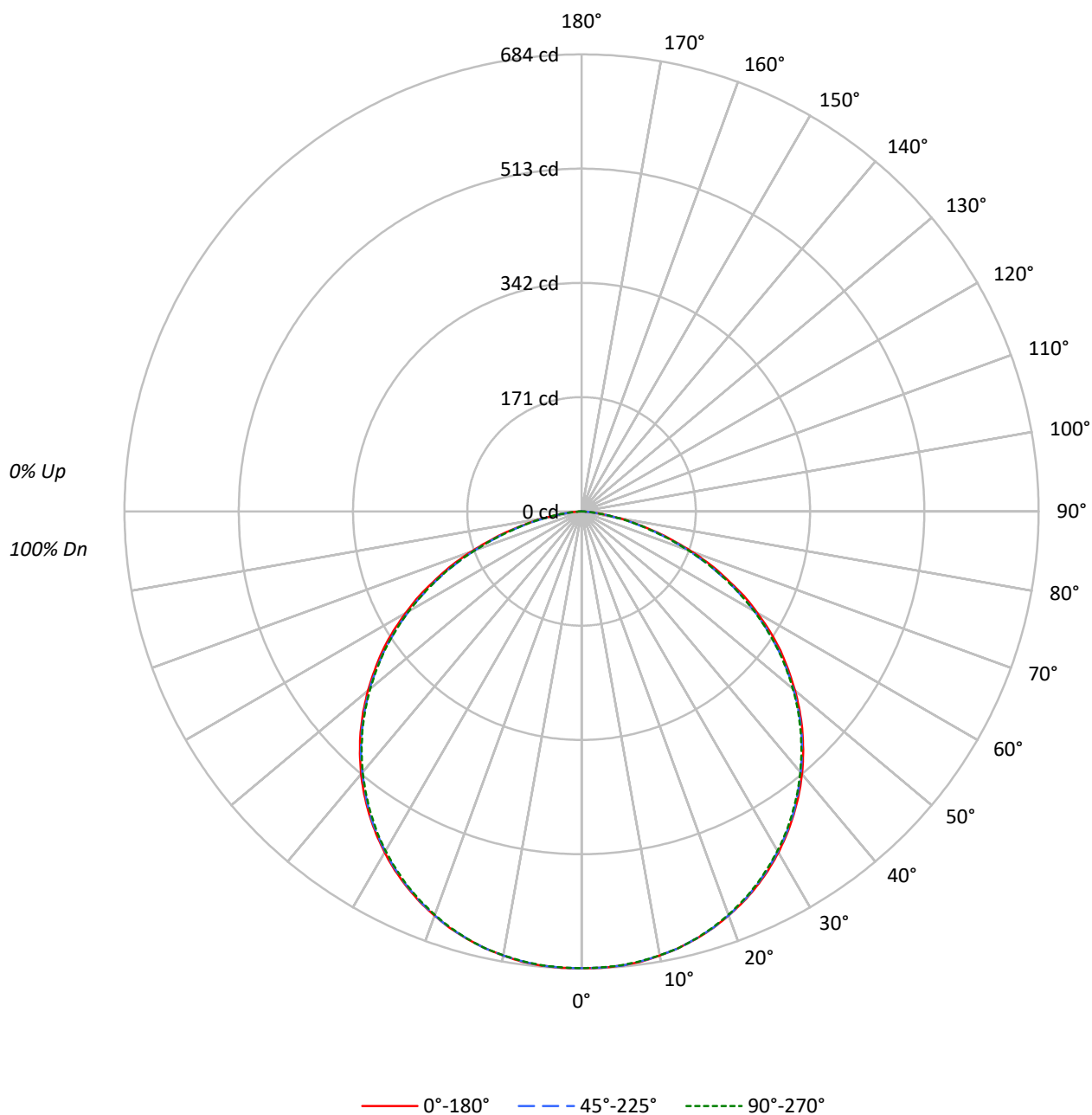
Lumens per Lamp: N/A
Luminaire Lumens: 1932.0 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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		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°	920	920	920
5°	922	922	921
10°	922	922	922
15°	922	922	922
20°	922	921	920
25°	920	918	917
30°	916	913	911
35°	910	907	904
40°	902	896	895
45°	890	885	882
50°	873	867	864
55°	853	840	840
60°	817	803	803
65°	764	747	749
70°	688	667	665
75°	578	555	552
80°	422	401	418
85°	239	219	224

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 890 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	3.4
10°-20°	186.9	9.7
20°-30°	285.0	14.8
30°-40°	345.3	17.9
40°-50°	358.7	18.6
50°-60°	320.9	16.6
60°-70°	233.9	12.1
70°-80°	115.8	6.0
80°-90°	20.7	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°	536.8	27.8
0°-40°	882.1	45.7
0°-60°	1561.7	80.8
0°-90°	1932.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1932.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	684	684	684	684	684	
5°	682	683	682	682	682	65
15°	662	662	662	662	662	187
25°	620	619	618	618	617	286
35°	554	553	552	551	550	346
45°	468	467	465	464	464	360
55°	364	361	358	358	358	324
65°	240	238	234	236	235	238
75°	111	109	107	109	106	118
85°	16	14	14	14	14	21
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	683.6	683.6	683.6	683.6	683.6
2.5°	683.6	683.3	683.3	683.6	683.1
5°	682.4	682.6	682.4	682.4	681.9
7.5°	679.7	679.4	679.2	679.4	678.7
10°	675.0	675.0	674.8	675.0	674.5
12.5°	669.4	669.4	669.4	669.6	669.4
15°	662.2	662.0	662.0	662.5	662.0
17.5°	653.9	653.7	653.7	653.4	652.9
20°	643.6	643.6	643.4	643.1	642.4
22.5°	632.6	632.3	631.6	631.6	630.6
25°	619.6	618.8	618.3	618.1	617.4
27.5°	605.3	604.4	603.6	603.1	602.4
30°	589.4	588.4	587.7	586.9	586.5
32.5°	572.2	571.7	570.5	570.3	569.3
35°	553.8	553.1	552.4	551.4	550.4
37.5°	534.2	533.5	531.8	531.3	530.5
40°	513.4	512.4	510.2	510.2	509.4
42.5°	491.0	490.1	488.6	487.6	487.1
45°	467.7	466.8	465.0	464.1	463.6
47.5°	443.0	442.2	440.3	439.5	438.8
50°	417.2	416.2	414.0	413.5	412.8
52.5°	390.2	389.7	386.8	386.6	385.8
55°	363.5	360.8	358.3	358.3	357.9
57.5°	334.1	332.1	328.9	328.9	328.4
60°	303.7	301.9	298.3	298.7	298.3
62.5°	274.0	270.3	266.9	268.3	267.1
65°	240.1	238.2	234.5	235.5	235.2
67.5°	209.2	205.5	202.1	204.1	203.1
70°	174.9	172.9	169.5	171.4	169.0
72.5°	142.5	140.8	137.4	139.6	137.1
75°	111.1	109.4	106.7	108.7	106.2
77.5°	81.4	80.2	77.8	79.7	80.2
80°	54.5	53.0	51.8	53.5	54.0
82.5°	31.9	30.9	30.4	30.7	31.9
85°	15.5	14.2	14.2	14.5	14.5
87.5°	4.2	3.7	4.2	4.4	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)