

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: P973523

Luminaire Tested: FLR2-22-35-L830-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-35-L830-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

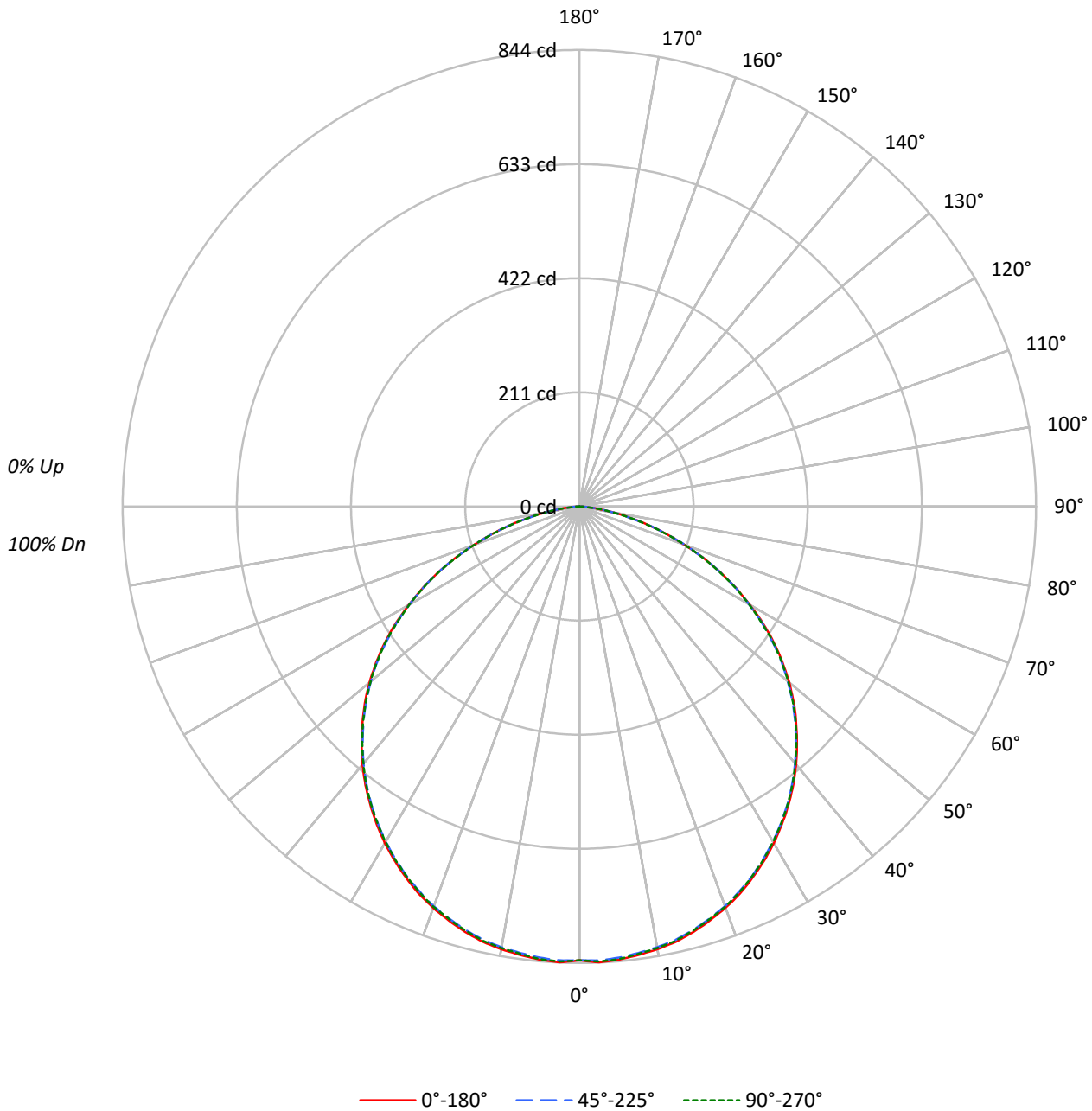
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2346.3 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 27.9
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

TEST NUMBER: P973523
CATALOG NUMBER: FLR2-22-35-L830-CA125

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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	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	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2258	2258	2258
5°	2272	2262	2269
10°	2271	2261	2266
15°	2269	2259	2262
20°	2262	2253	2256
25°	2249	2240	2242
30°	2234	2224	2225
35°	2213	2205	2206
40°	2190	2179	2181
45°	2157	2148	2152
50°	2120	2105	2109
55°	2059	2042	2050
60°	1958	1949	1949
65°	1828	1825	1818
70°	1618	1627	1623
75°	1363	1353	1341
80°	979	964	956
85°	513	513	497

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2157 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	3.4
10°-20°	228.5	9.7
20°-30°	347.2	14.8
30°-40°	419.7	17.9
40°-50°	435.6	18.6
50°-60°	389.4	16.6
60°-70°	283.1	12.1
70°-80°	139.2	5.9
80°-90°	24.1	1.0
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°	655.1	27.9
0°-40°	1074.8	45.8
0°-60°	1899.8	81.0
0°-90°	2346.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2346.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	839	839	839	839	839	
5°	841	831	837	834	840	80
15°	815	805	811	809	812	230
25°	758	749	754	753	755	349
35°	674	669	671	672	672	421
45°	567	564	564	565	565	437
55°	439	436	435	436	437	391
65°	287	288	287	287	286	283
75°	131	132	130	131	129	139
85°	17	17	17	17	16	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	839.0	839.0	839.0	839.0	839.0
2.5°	843.7	833.8	840.0	836.4	842.1
5°	841.1	831.2	837.4	834.3	840.0
7.5°	836.4	826.6	832.8	829.7	834.3
10°	831.2	820.9	827.6	824.5	829.2
12.5°	824.5	814.6	820.9	818.3	822.4
15°	814.6	805.3	811.0	808.9	812.1
17.5°	802.7	793.4	799.1	797.5	800.1
20°	789.8	781.0	786.7	785.1	787.7
22.5°	775.3	765.9	771.1	770.1	772.1
25°	757.6	749.3	754.5	753.0	755.0
27.5°	739.0	731.2	735.4	735.4	736.4
30°	718.8	711.5	715.7	715.7	716.2
32.5°	697.0	691.3	693.9	694.4	694.4
35°	673.7	669.0	671.1	671.6	671.6
37.5°	649.3	644.7	646.2	647.3	647.3
40°	623.4	619.3	620.3	621.3	620.8
42.5°	595.4	592.3	592.8	593.9	593.9
45°	566.9	564.3	564.3	565.4	565.4
47.5°	537.9	535.3	534.3	535.3	535.3
50°	506.3	503.7	502.7	503.7	503.7
52.5°	473.1	470.5	470.5	470.5	471.1
55°	438.9	436.3	435.3	436.3	436.9
57.5°	402.7	401.6	400.1	400.6	399.0
60°	363.8	363.8	362.2	363.3	362.2
62.5°	326.0	327.0	325.4	325.4	324.4
65°	287.1	288.1	286.6	286.6	285.5
67.5°	247.2	248.7	246.7	246.7	245.6
70°	205.7	208.8	206.8	207.3	206.3
72.5°	168.4	170.0	167.9	167.9	166.9
75°	131.1	132.1	130.1	130.6	129.0
77.5°	94.3	95.9	93.8	94.3	93.8
80°	63.2	63.7	62.2	62.7	61.7
82.5°	36.8	37.3	36.8	36.3	35.8
85°	16.6	17.1	16.6	16.6	16.1
87.5°	4.1	4.1	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)