

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: METALUX

Report Number: P601278

Luminaire Tested: 14CGSB-25-L830

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2311-233-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/24/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CGSB-25-L830
Description: 1x4 CGSB AT 2500lm 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

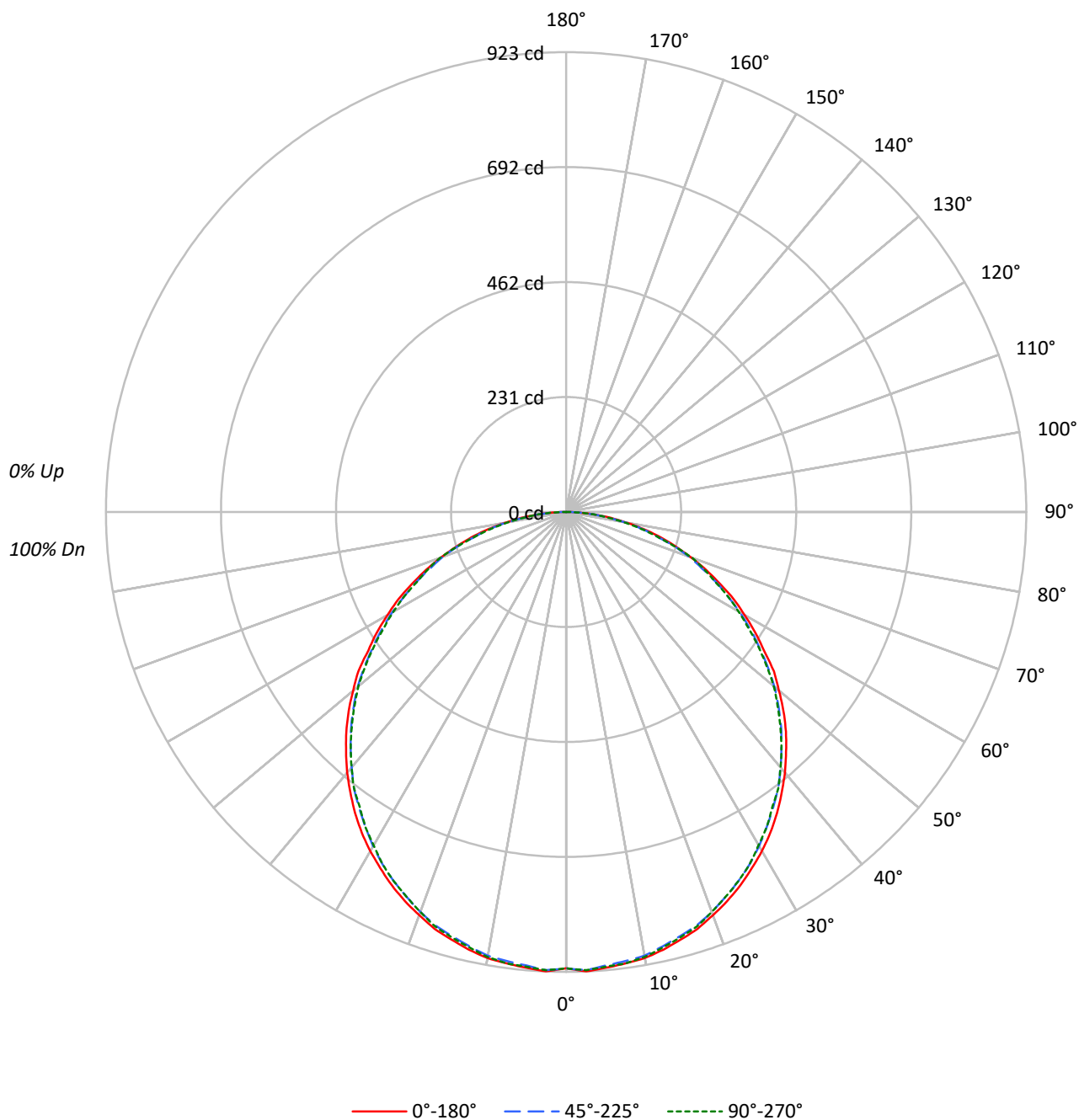
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2658.9 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P601278
CATALOG NUMBER: 14CGSB-25-L830

Luminous Intensity Polar Plot



TEST NUMBER: P601278

CATALOG NUMBER: 14CGSB-25-L830

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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	71	64	87	77	70	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	64	51	42	36	63	50	42	36		48	41	35		47	40	35		46	39	35
8	60	46	38	32	58	46	37	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	33	28		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2464	2464	2464
5°	2480	2468	2474
10°	2484	2471	2478
15°	2475	2456	2462
20°	2466	2446	2446
25°	2455	2428	2428
30°	2441	2406	2399
35°	2423	2378	2371
40°	2399	2351	2351
45°	2373	2321	2312
50°	2333	2285	2276
55°	2272	2218	2207
60°	2225	2164	2151
65°	2167	2109	2094
70°	2102	2066	2120
75°	2042	1947	1947
80°	1911	1875	1805
85°	1763	1692	1692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2373 cd/sqm

TEST NUMBER: P601278
 CATALOG NUMBER: 14CGSB-25-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	3.3
10°-20°	249.6	9.4
20°-30°	377.7	14.2
30°-40°	455.1	17.1
40°-50°	472.6	17.8
50°-60°	425.6	16.0
60°-70°	328.8	12.4
70°-80°	200.4	7.5
80°-90°	61.9	2.3
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°	714.4	26.9
0°-40°	1169.5	44.0
0°-60°	2067.7	77.8
0°-90°	2658.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2658.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	916	916	916	916	916	
5°	918	916	914	914	916	87
15°	888	886	882	882	884	251
25°	827	824	818	815	818	381
35°	738	733	724	722	722	461
45°	624	619	610	608	608	480
55°	484	480	473	470	470	435
65°	340	333	331	327	329	337
75°	196	190	187	185	187	206
85°	57	57	55	52	55	65
90°	0	0	0	0	0	

TEST NUMBER: P601278

CATALOG NUMBER: 14CGSB-25-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	915.8	915.8	915.8	915.8	915.8
2.5°	922.7	922.7	920.4	920.4	920.4
5°	918.1	915.8	913.6	913.6	915.8
7.5°	913.6	913.6	909.0	909.0	913.6
10°	909.0	906.7	904.4	904.4	906.7
12.5°	899.8	897.6	893.0	893.0	895.3
15°	888.4	886.1	881.6	881.6	883.9
17.5°	877.0	874.7	870.2	870.2	872.4
20°	861.0	858.7	854.2	851.9	854.2
22.5°	845.0	842.8	835.9	833.6	835.9
25°	826.8	824.5	817.6	815.3	817.6
27.5°	806.2	803.9	797.1	794.8	797.1
30°	785.7	781.1	774.2	769.7	772.0
32.5°	762.8	758.2	749.1	746.8	749.1
35°	737.7	733.1	724.0	721.7	721.7
37.5°	710.3	708.0	698.9	696.6	698.9
40°	682.9	678.3	669.2	666.9	669.2
42.5°	653.2	648.6	639.5	639.5	639.5
45°	623.5	618.9	609.8	607.5	607.5
47.5°	591.5	587.0	577.8	575.5	575.5
50°	557.3	552.7	545.8	543.6	543.6
52.5°	525.3	518.4	509.3	507.0	507.0
55°	484.2	479.6	472.8	470.5	470.5
57.5°	449.9	443.1	438.5	433.9	433.9
60°	413.4	406.5	402.0	399.7	399.7
62.5°	379.1	370.0	365.4	363.1	365.4
65°	340.3	333.4	331.2	326.6	328.9
67.5°	303.8	296.9	294.6	294.6	299.2
70°	267.2	260.4	262.6	255.8	269.5
72.5°	230.7	226.1	226.1	219.3	226.1
75°	196.4	189.6	187.3	185.0	187.3
77.5°	159.9	157.6	155.3	150.7	153.0
80°	123.3	127.9	121.0	114.2	116.5
82.5°	91.4	89.1	84.5	82.2	84.5
85°	57.1	57.1	54.8	52.5	54.8
87.5°	27.4	27.4	25.1	25.1	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)