

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: P601444

Luminaire Tested: 22CGSB-25-L940

Issue Date: 1/24/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P601444  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/24/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22CGSB-25-L940  
Description: 2x2 CGSB AT 2500lm 4000K 90CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

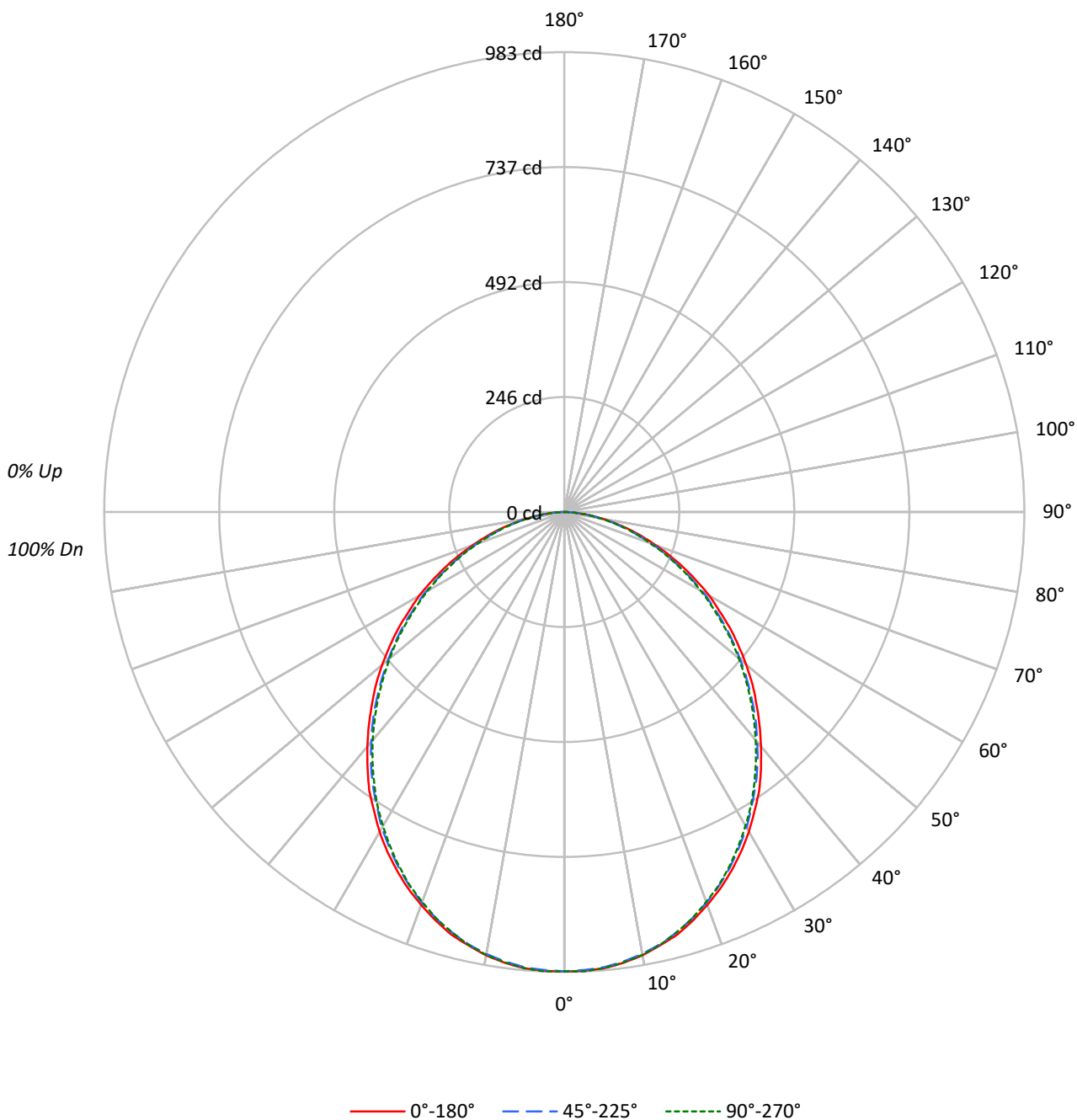
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2453.0 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.4  
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

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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				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	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2641	2641	2641
5°	2644	2638	2644
10°	2629	2621	2626
15°	2604	2590	2590
20°	2559	2545	2540
25°	2511	2488	2479
30°	2452	2421	2406
35°	2386	2342	2326
40°	2298	2253	2236
45°	2210	2158	2140
50°	2124	2055	2038
55°	2028	1954	1926
60°	1926	1842	1815
65°	1793	1706	1687
70°	1639	1577	1538
75°	1494	1403	1413
80°	1288	1212	1227
85°	997	966	905

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2210 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.7	3.8
10°-20°	262.2	10.7
20°-30°	386.1	15.7
30°-40°	446.7	18.2
40°-50°	439.2	17.9
50°-60°	374.3	15.3
60°-70°	268.2	10.9
70°-80°	145.6	5.9
80°-90°	38.0	1.5
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°	741.1	30.2
0°-40°	1187.8	48.4
0°-60°	2001.2	81.6
0°-90°	2453.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2453.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	982	982	982	982	982	
5°	979	977	977	977	979	93
15°	935	931	930	929	930	263
25°	846	842	838	836	835	389
35°	726	721	713	709	708	453
45°	581	577	567	562	562	449
55°	432	424	416	412	411	386
65°	282	276	268	265	265	279
75°	144	139	135	133	136	152
85°	32	32	31	30	29	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	981.6	981.6	981.6	981.6	981.6
2.5°	981.6	980.7	979.7	980.7	982.6
5°	978.7	976.7	976.7	976.7	978.7
7.5°	971.9	969.9	968.9	969.9	970.9
10°	962.1	960.1	959.1	960.1	961.1
12.5°	948.4	947.4	946.4	946.4	947.4
15°	934.7	930.8	929.8	928.8	929.8
17.5°	915.1	914.2	910.3	910.3	910.3
20°	893.6	891.7	888.7	886.8	886.8
22.5°	871.1	869.2	864.3	862.3	863.3
25°	845.7	841.8	837.9	835.9	835.0
27.5°	818.4	814.4	808.6	805.6	805.6
30°	789.0	786.1	779.2	775.3	774.4
32.5°	756.8	754.8	745.0	743.1	743.1
35°	726.4	720.6	712.8	708.8	707.9
37.5°	690.3	686.4	678.5	673.6	672.7
40°	654.1	649.2	641.4	637.5	636.5
42.5°	617.9	613.0	605.2	600.3	599.3
45°	580.8	576.9	567.1	562.2	562.2
47.5°	545.6	537.7	528.9	525.0	524.1
50°	507.4	500.6	490.8	486.9	486.9
52.5°	469.3	464.4	453.7	451.7	449.8
55°	432.2	424.3	416.5	411.6	410.6
57.5°	392.1	385.2	377.4	373.5	373.5
60°	357.8	349.0	342.2	337.3	337.3
62.5°	318.7	310.9	304.1	301.1	300.2
65°	281.6	275.7	267.9	265.0	265.0
67.5°	244.4	239.5	232.7	229.8	230.7
70°	208.3	205.3	200.4	196.5	195.5
72.5°	175.0	171.1	166.2	165.2	165.2
75°	143.7	138.8	134.9	133.0	135.9
77.5°	111.5	108.5	106.6	105.6	106.6
80°	83.1	79.2	78.2	79.2	79.2
82.5°	57.7	55.7	54.8	54.8	54.8
85°	32.3	32.3	31.3	30.3	29.3
87.5°	12.7	12.7	13.7	13.7	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)