

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: P601431

Luminaire Tested: 22CGSB-20-L835

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601431
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-20-L835
Description: 2x2 CGSB AT 2000lm 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

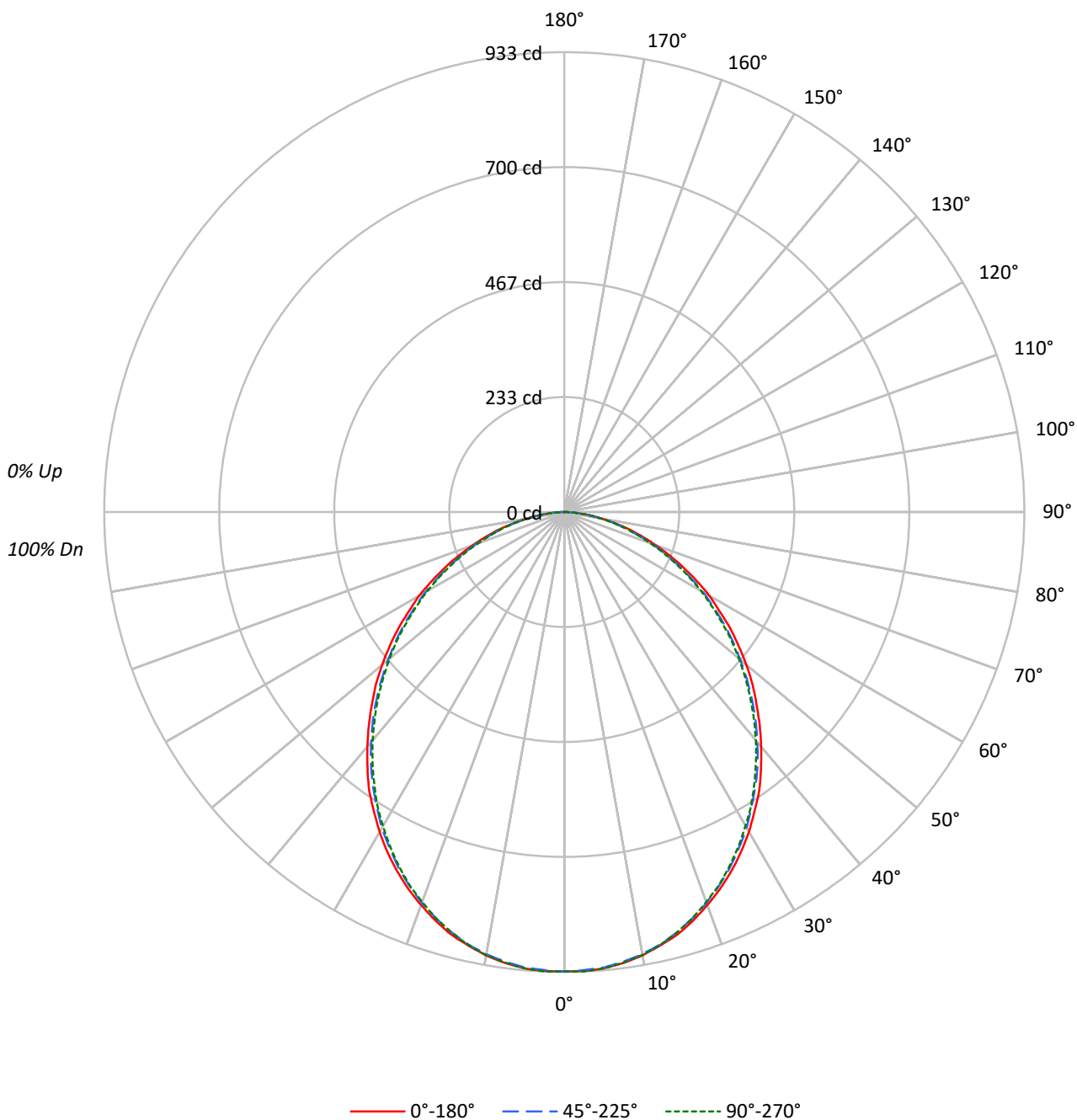
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2329.0 lumens
Efficiency: N/A
Efficacy: 137.8 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): 16.9
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	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					100														
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85														
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71					71														
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61														
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52														
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45					45														
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40					40														
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36					36														
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32					32														
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29					29														
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2508	2508	2508
5°	2510	2505	2510
10°	2496	2488	2493
15°	2472	2459	2459
20°	2430	2416	2411
25°	2384	2362	2354
30°	2328	2299	2284
35°	2266	2223	2208
40°	2181	2139	2123
45°	2098	2049	2031
50°	2017	1951	1935
55°	1925	1856	1829
60°	1829	1749	1724
65°	1702	1620	1602
70°	1555	1497	1461
75°	1419	1332	1341
80°	1223	1151	1165
85°	945	917	858

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2098 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	3.8
10°-20°	248.9	10.7
20°-30°	366.6	15.7
30°-40°	424.1	18.2
40°-50°	417.0	17.9
50°-60°	355.3	15.3
60°-70°	254.6	10.9
70°-80°	138.3	5.9
80°-90°	36.1	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°	703.6	30.2
0°-40°	1127.7	48.4
0°-60°	1900.0	81.6
0°-90°	2329.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2329.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	932	932	932	932	932	
5°	929	927	927	927	929	88
15°	887	884	883	882	883	250
25°	803	799	796	794	793	370
35°	690	684	677	673	672	430
45°	551	548	538	534	534	426
55°	410	403	396	391	390	366
65°	267	262	254	252	252	265
75°	136	132	128	126	129	144
85°	31	31	30	29	28	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	932.0	932.0	932.0	932.0	932.0
2.5°	932.0	931.1	930.2	931.1	932.9
5°	929.2	927.4	927.4	927.4	929.2
7.5°	922.7	920.9	919.9	920.9	921.8
10°	913.4	911.6	910.7	911.6	912.5
12.5°	900.4	899.5	898.6	898.6	899.5
15°	887.4	883.7	882.8	881.9	882.8
17.5°	868.9	868.0	864.2	864.2	864.2
20°	848.5	846.6	843.8	842.0	842.0
22.5°	827.1	825.3	820.6	818.8	819.7
25°	803.0	799.3	795.5	793.7	792.8
27.5°	777.0	773.3	767.7	764.9	764.9
30°	749.1	746.3	739.9	736.1	735.2
32.5°	718.5	716.6	707.4	705.5	705.5
35°	689.7	684.2	676.7	673.0	672.1
37.5°	655.4	651.7	644.2	639.6	638.7
40°	621.0	616.4	609.0	605.2	604.3
42.5°	586.7	582.0	574.6	570.0	569.0
45°	551.4	547.7	538.4	533.8	533.8
47.5°	518.0	510.6	502.2	498.5	497.6
50°	481.8	475.3	466.0	462.3	462.3
52.5°	445.6	440.9	430.7	428.9	427.0
55°	410.3	402.9	395.5	390.8	389.9
57.5°	372.2	365.7	358.3	354.6	354.6
60°	339.8	331.4	324.9	320.3	320.3
62.5°	302.6	295.2	288.7	285.9	285.0
65°	267.3	261.8	254.4	251.6	251.6
67.5°	232.1	227.4	220.9	218.1	219.1
70°	197.7	194.9	190.3	186.6	185.7
72.5°	166.2	162.5	157.8	156.9	156.9
75°	136.5	131.8	128.1	126.2	129.0
77.5°	105.8	103.0	101.2	100.3	101.2
80°	78.9	75.2	74.3	75.2	75.2
82.5°	54.8	52.9	52.0	52.0	52.0
85°	30.6	30.6	29.7	28.8	27.8
87.5°	12.1	12.1	13.0	13.0	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)