

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: P601470

Luminaire Tested: 22CGSB-45-L830

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601470
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-45-L830
Description: 2x2 CGSB AT 4500lm 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

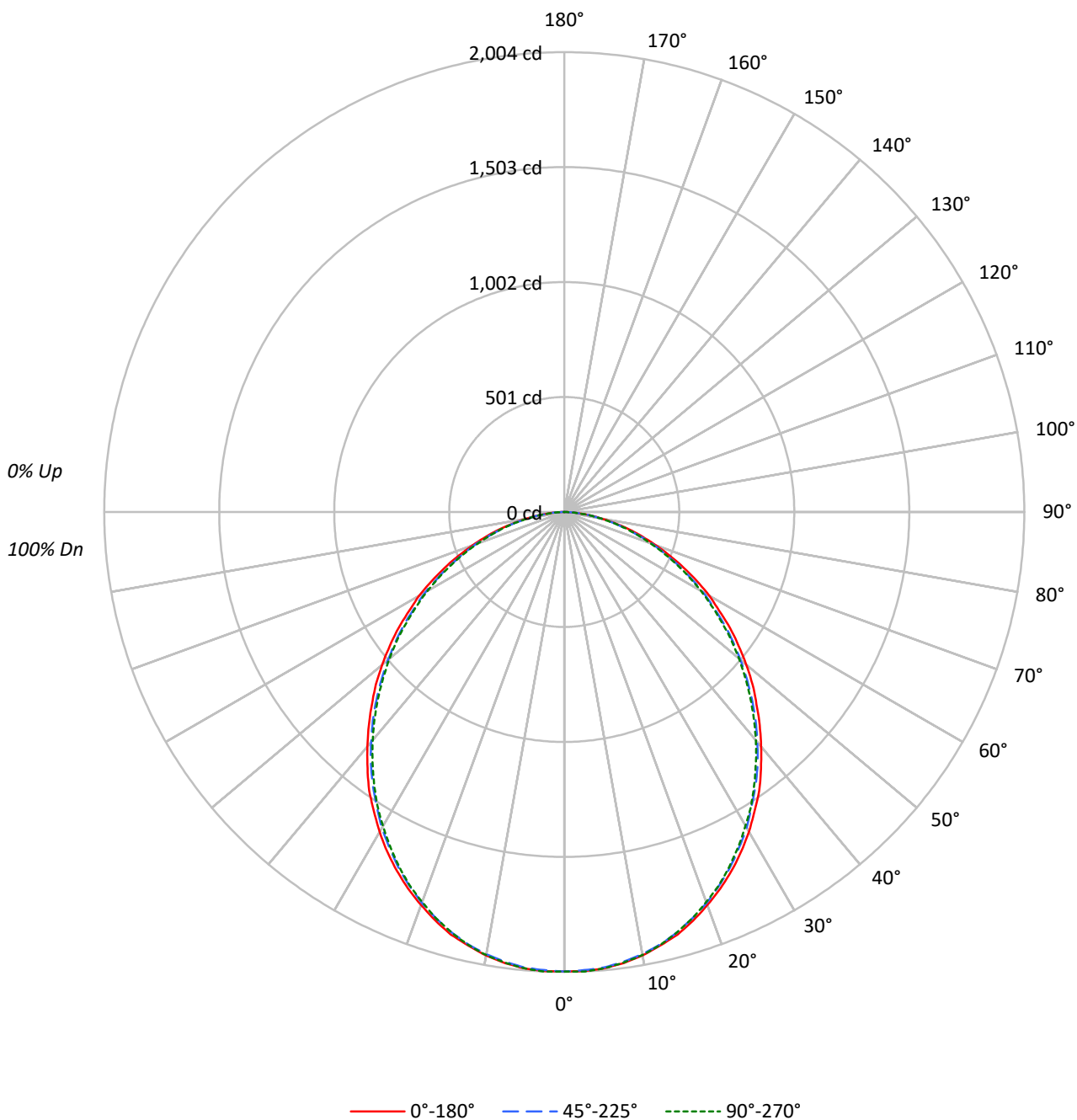
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5003.0 lumens
Efficiency: N/A
Efficacy: 131.0 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): 38.2
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°	5388	5388	5388
5°	5392	5381	5392
10°	5362	5345	5356
15°	5311	5283	5283
20°	5219	5191	5179
25°	5122	5074	5056
30°	5000	4938	4907
35°	4867	4776	4743
40°	4686	4595	4560
45°	4508	4402	4364
50°	4333	4191	4158
55°	4135	3985	3929
60°	3928	3756	3703
65°	3657	3479	3441
70°	3341	3216	3138
75°	3047	2861	2882
80°	2627	2472	2503
85°	2032	1970	1846

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4508 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.1	3.8
10°-20°	534.7	10.7
20°-30°	787.6	15.7
30°-40°	911.1	18.2
40°-50°	895.7	17.9
50°-60°	763.3	15.3
60°-70°	546.9	10.9
70°-80°	297.1	5.9
80°-90°	77.5	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°	1511.4	30.2
0°-40°	2422.5	48.4
0°-60°	4081.5	81.6
0°-90°	5003.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5003.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2002	2002	2002	2002	2002	
5°	1996	1992	1992	1992	1996	189
15°	1906	1898	1896	1894	1896	537
25°	1725	1717	1709	1705	1703	794
35°	1482	1470	1454	1446	1444	924
45°	1184	1176	1157	1147	1147	915
55°	881	865	850	840	838	787
65°	574	562	546	540	540	569
75°	293	283	275	271	277	310
85°	66	66	64	62	60	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2002.1	2002.1	2002.1	2002.1	2002.1
2.5°	2002.1	2000.1	1998.1	2000.1	2004.1
5°	1996.1	1992.1	1992.1	1992.1	1996.1
7.5°	1982.1	1978.1	1976.2	1978.1	1980.1
10°	1962.2	1958.2	1956.2	1958.2	1960.2
12.5°	1934.3	1932.3	1930.3	1930.3	1932.3
15°	1906.4	1898.4	1896.4	1894.4	1896.4
17.5°	1866.5	1864.5	1856.5	1856.5	1856.5
20°	1822.6	1818.6	1812.6	1808.6	1808.6
22.5°	1776.7	1772.8	1762.8	1758.8	1760.8
25°	1724.9	1716.9	1708.9	1705.0	1703.0
27.5°	1669.1	1661.1	1649.1	1643.1	1643.1
30°	1609.2	1603.3	1589.3	1581.3	1579.3
32.5°	1543.4	1539.4	1519.5	1515.5	1515.5
35°	1481.6	1469.7	1453.7	1445.7	1443.7
37.5°	1407.8	1399.9	1383.9	1373.9	1371.9
40°	1334.1	1324.1	1308.1	1300.2	1298.2
42.5°	1260.3	1250.3	1234.3	1224.4	1222.4
45°	1184.5	1176.5	1156.6	1146.6	1146.6
47.5°	1112.7	1096.8	1078.8	1070.8	1068.8
50°	1034.9	1021.0	1001.0	993.1	993.1
52.5°	957.2	947.2	925.3	921.3	917.3
55°	881.4	865.4	849.5	839.5	837.5
57.5°	799.6	785.7	769.7	761.7	761.7
60°	729.8	711.9	697.9	688.0	688.0
62.5°	650.1	634.1	620.2	614.2	612.2
65°	574.3	562.3	546.4	540.4	540.4
67.5°	498.5	488.6	474.6	468.6	470.6
70°	424.7	418.8	408.8	400.8	398.8
72.5°	356.9	349.0	339.0	337.0	337.0
75°	293.1	283.2	275.2	271.2	277.2
77.5°	227.3	221.3	217.4	215.4	217.4
80°	169.5	161.5	159.5	161.5	161.5
82.5°	117.7	113.7	111.7	111.7	111.7
85°	65.8	65.8	63.8	61.8	59.8
87.5°	25.9	25.9	27.9	27.9	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)