

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: P601507

Luminaire Tested: 22CGSB-70-L935

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601507
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-70-L935
Description: 2x2 CGSB AT 7000lm 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

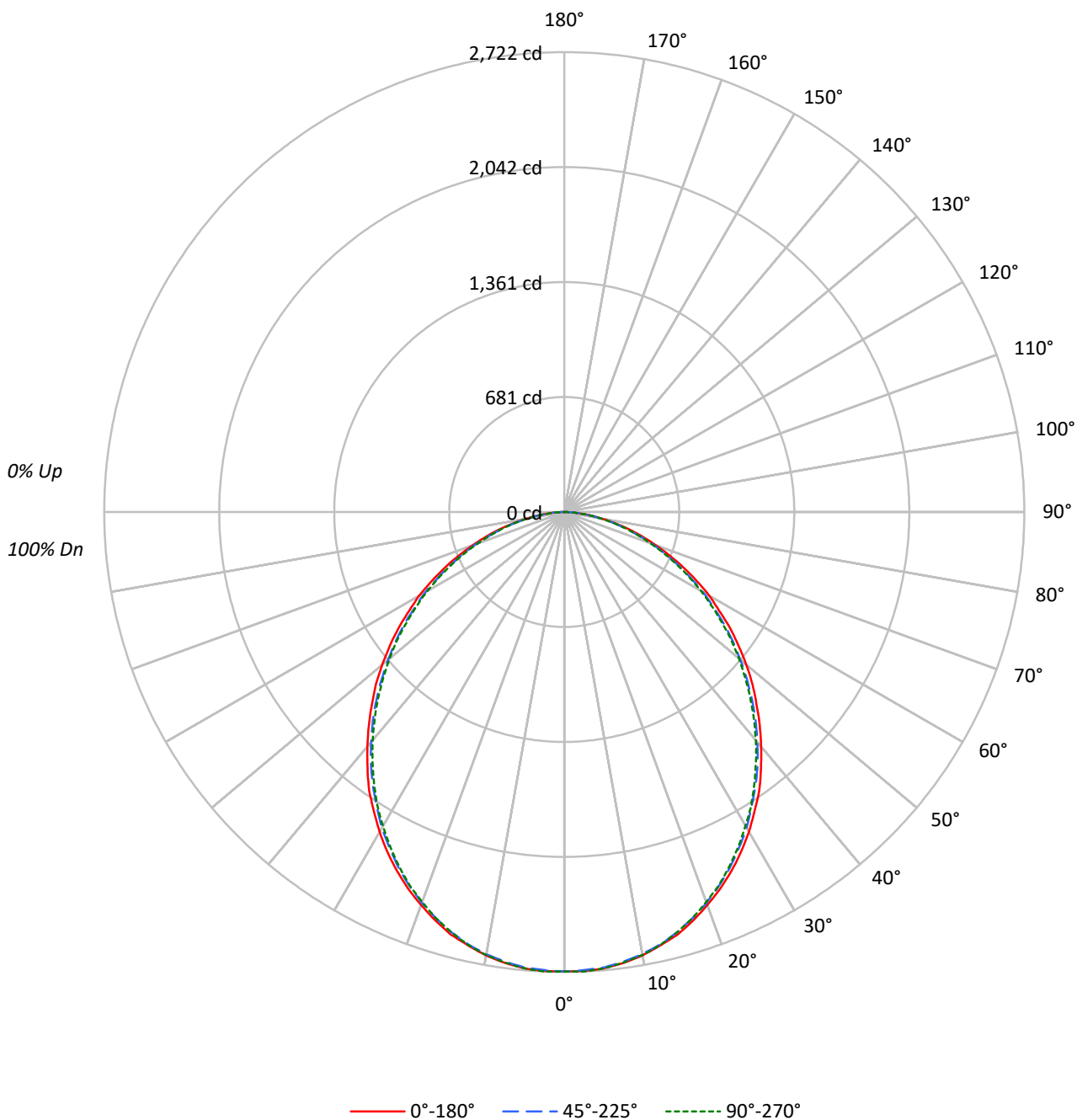
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6795.0 lumens
Efficiency: N/A
Efficacy: 107.9 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): 63
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°	7317	7317	7317
5°	7323	7309	7323
10°	7282	7260	7275
15°	7213	7175	7175
20°	7089	7050	7035
25°	6956	6892	6867
30°	6791	6707	6665
35°	6611	6486	6442
40°	6365	6241	6193
45°	6122	5978	5926
50°	5884	5692	5647
55°	5616	5413	5337
60°	5335	5102	5029
65°	4967	4725	4674
70°	4539	4368	4262
75°	4139	3886	3915
80°	3567	3358	3400
85°	2760	2677	2510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6122 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.9	3.8
10°-20°	726.3	10.7
20°-30°	1069.7	15.7
30°-40°	1237.4	18.2
40°-50°	1216.5	17.9
50°-60°	1036.7	15.3
60°-70°	742.9	10.9
70°-80°	403.5	5.9
80°-90°	105.3	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°	2052.8	30.2
0°-40°	3290.2	48.4
0°-60°	5543.5	81.6
0°-90°	6795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6795.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2719	2719	2719	2719	2719	
5°	2711	2706	2706	2706	2711	257
15°	2589	2578	2576	2573	2576	729
25°	2343	2332	2321	2316	2313	1078
35°	2012	1996	1974	1964	1961	1255
45°	1609	1598	1571	1557	1557	1243
55°	1197	1175	1154	1140	1138	1069
65°	780	764	742	734	734	773
75°	398	385	374	368	376	421
85°	89	89	87	84	81	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2719.2	2719.2	2719.2	2719.2	2719.2
2.5°	2719.2	2716.5	2713.8	2716.5	2721.9
5°	2711.1	2705.6	2705.6	2705.6	2711.1
7.5°	2692.1	2686.7	2684.0	2686.7	2689.4
10°	2665.0	2659.6	2656.9	2659.6	2662.3
12.5°	2627.1	2624.4	2621.7	2621.7	2624.4
15°	2589.2	2578.4	2575.6	2572.9	2575.6
17.5°	2535.0	2532.3	2521.5	2521.5	2521.5
20°	2475.4	2470.0	2461.9	2456.5	2456.5
22.5°	2413.1	2407.7	2394.2	2388.8	2391.5
25°	2342.7	2331.9	2321.1	2315.6	2312.9
27.5°	2266.9	2256.1	2239.8	2231.7	2231.7
30°	2185.6	2177.5	2158.6	2147.7	2145.0
32.5°	2096.3	2090.9	2063.8	2058.4	2058.4
35°	2012.3	1996.1	1974.4	1963.6	1960.9
37.5°	1912.1	1901.3	1879.6	1866.1	1863.3
40°	1811.9	1798.3	1776.7	1765.8	1763.1
42.5°	1711.7	1698.1	1676.5	1662.9	1660.2
45°	1608.8	1597.9	1570.8	1557.3	1557.3
47.5°	1511.3	1489.6	1465.2	1454.4	1451.7
50°	1405.6	1386.7	1359.6	1348.8	1348.8
52.5°	1300.0	1286.5	1256.7	1251.3	1245.8
55°	1197.1	1175.4	1153.8	1140.2	1137.5
57.5°	1086.1	1067.1	1045.4	1034.6	1034.6
60°	991.3	966.9	947.9	934.4	934.4
62.5°	882.9	861.3	842.3	834.2	831.5
65°	780.0	763.8	742.1	734.0	734.0
67.5°	677.1	663.5	644.6	636.5	639.2
70°	576.9	568.8	555.2	544.4	541.7
72.5°	484.8	474.0	460.4	457.7	457.7
75°	398.1	384.6	373.8	368.3	376.5
77.5°	308.8	300.6	295.2	292.5	295.2
80°	230.2	219.4	216.7	219.4	219.4
82.5°	159.8	154.4	151.7	151.7	151.7
85°	89.4	89.4	86.7	84.0	81.3
87.5°	35.2	35.2	37.9	37.9	40.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)