

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: P601515

Luminaire Tested: 22CGSB-80-L935

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601515
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-80-L935
Description: 2x2 CGSB AT 8000lm 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

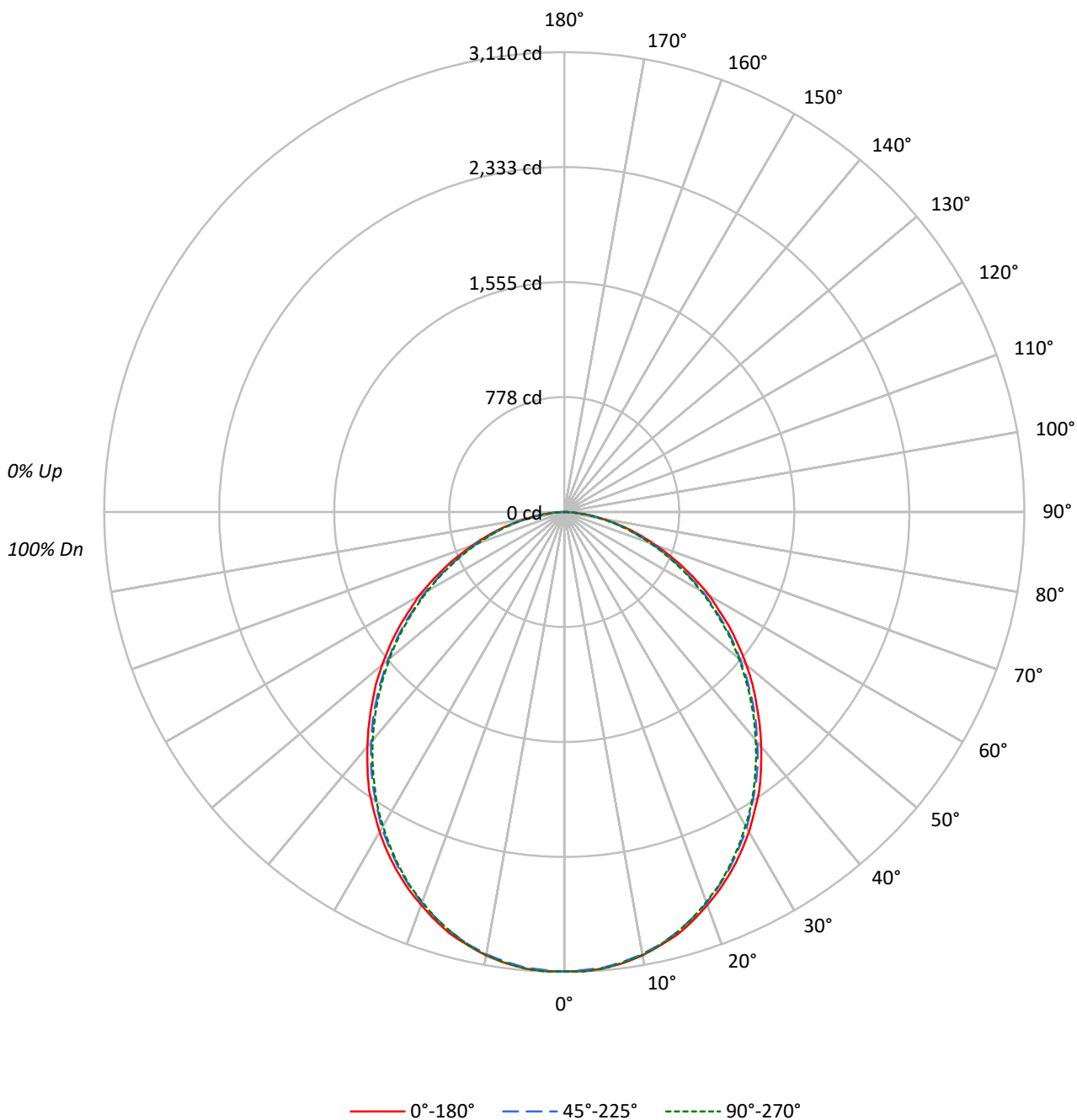
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7763.0 lumens
Efficiency: N/A
Efficacy: 106.9 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): 72.6
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

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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	
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	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°	8360	8360	8360
5°	8367	8350	8367
10°	8320	8294	8311
15°	8241	8198	8198
20°	8099	8054	8037
25°	7947	7873	7846
30°	7759	7663	7615
35°	7552	7410	7359
40°	7272	7130	7076
45°	6994	6830	6771
50°	6723	6503	6451
55°	6416	6184	6097
60°	6095	5829	5745
65°	5674	5398	5339
70°	5186	4991	4869
75°	4729	4440	4472
80°	4076	3835	3883
85°	3152	3057	2865

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6994 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.4	3.8
10°-20°	829.7	10.7
20°-30°	1222.1	15.7
30°-40°	1413.7	18.2
40°-50°	1389.8	17.9
50°-60°	1184.4	15.3
60°-70°	848.7	10.9
70°-80°	460.9	5.9
80°-90°	120.2	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°	2345.3	30.2
0°-40°	3758.9	48.4
0°-60°	6333.2	81.6
0°-90°	7763.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7763.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3107	3107	3107	3107	3107	
5°	3097	3091	3091	3091	3097	294
15°	2958	2946	2943	2940	2943	833
25°	2676	2664	2652	2646	2642	1232
35°	2299	2280	2256	2243	2240	1434
45°	1838	1826	1795	1779	1779	1420
55°	1368	1343	1318	1303	1300	1221
65°	891	873	848	838	838	883
75°	455	439	427	421	430	480
85°	102	102	99	96	93	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3106.6	3106.6	3106.6	3106.6	3106.6
2.5°	3106.6	3103.5	3100.4	3103.5	3109.7
5°	3097.3	3091.1	3091.1	3091.1	3097.3
7.5°	3075.6	3069.4	3066.3	3069.4	3072.5
10°	3044.7	3038.5	3035.4	3038.5	3041.6
12.5°	3001.4	2998.3	2995.2	2995.2	2998.3
15°	2958.0	2945.7	2942.6	2939.5	2942.6
17.5°	2896.2	2893.1	2880.7	2880.7	2880.7
20°	2828.1	2821.9	2812.6	2806.4	2806.4
22.5°	2756.9	2750.7	2735.3	2729.1	2732.2
25°	2676.5	2664.1	2651.7	2645.5	2642.4
27.5°	2589.8	2577.5	2558.9	2549.6	2549.6
30°	2497.0	2487.7	2466.1	2453.7	2450.6
32.5°	2394.9	2388.7	2357.8	2351.6	2351.6
35°	2299.0	2280.4	2255.7	2243.3	2240.2
37.5°	2184.5	2172.1	2147.4	2131.9	2128.8
40°	2070.0	2054.5	2029.8	2017.4	2014.3
42.5°	1955.5	1940.1	1915.3	1899.8	1896.7
45°	1837.9	1825.6	1794.6	1779.2	1779.2
47.5°	1726.6	1701.8	1674.0	1661.6	1658.5
50°	1605.9	1584.2	1553.3	1540.9	1540.9
52.5°	1485.2	1469.7	1435.7	1429.5	1423.3
55°	1367.6	1342.9	1318.1	1302.7	1299.6
57.5°	1240.8	1219.1	1194.4	1182.0	1182.0
60°	1132.5	1104.6	1083.0	1067.5	1067.5
62.5°	1008.7	984.0	962.3	953.0	949.9
65°	891.1	872.6	847.8	838.5	838.5
67.5°	773.5	758.1	736.4	727.1	730.2
70°	659.1	649.8	634.3	621.9	618.8
72.5°	553.9	541.5	526.0	522.9	522.9
75°	454.8	439.4	427.0	420.8	430.1
77.5°	352.7	343.5	337.3	334.2	337.3
80°	263.0	250.6	247.5	250.6	250.6
82.5°	182.6	176.4	173.3	173.3	173.3
85°	102.1	102.1	99.0	95.9	92.8
87.5°	40.2	40.2	43.3	43.3	46.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)