

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: P601512

Luminaire Tested: 22CGSB-80-L840

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601512
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-L840
Description: 2x2 CGSB AT 8000lm 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

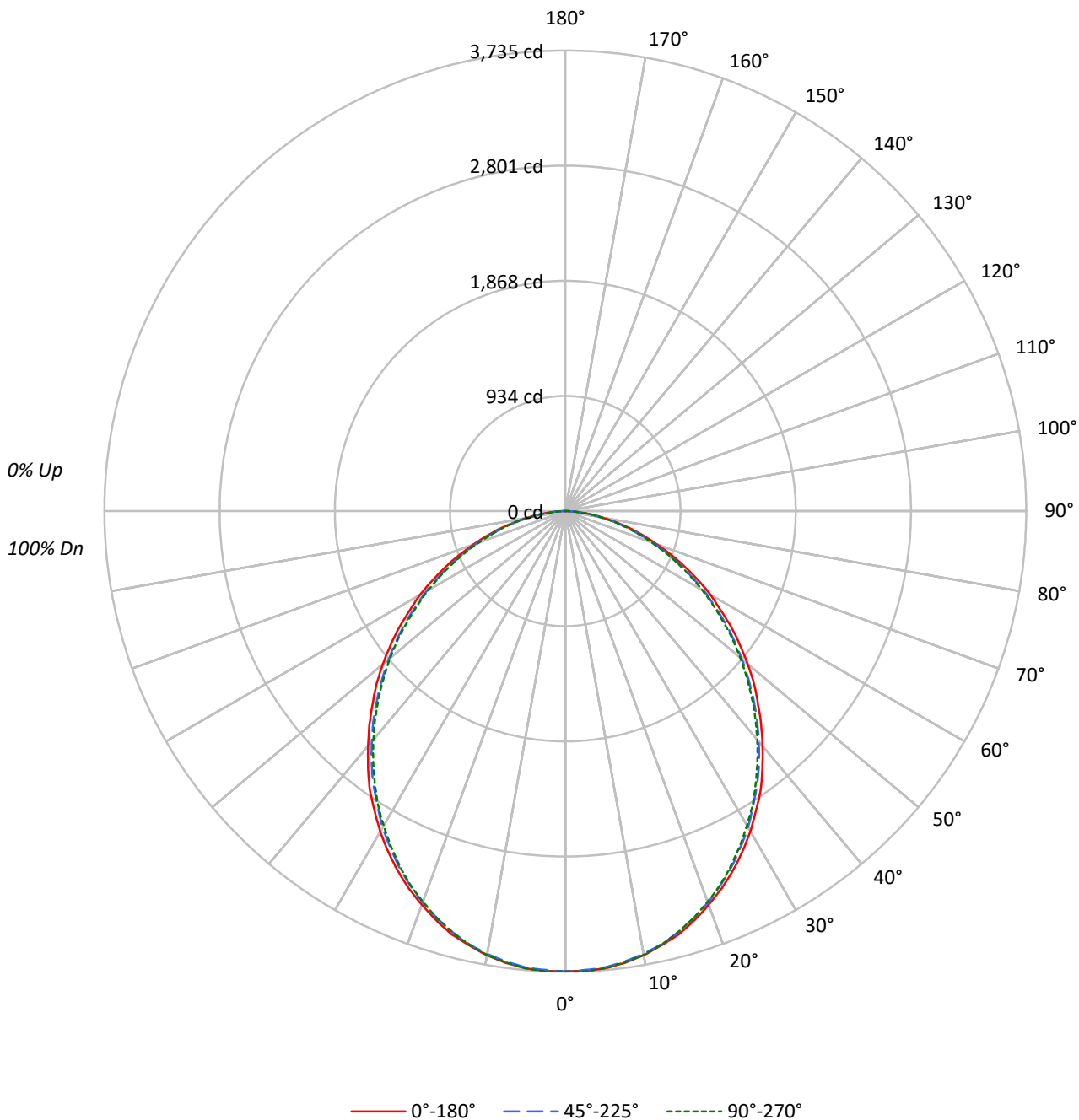
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9325.0 lumens
Efficiency: N/A
Efficacy: 128.4 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	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°	10042	10042	10042
5°	10050	10030	10050
10°	9994	9963	9983
15°	9899	9847	9847
20°	9728	9675	9654
25°	9546	9458	9424
30°	9320	9205	9147
35°	9072	8901	8840
40°	8735	8565	8500
45°	8402	8204	8133
50°	8076	7811	7749
55°	7707	7428	7324
60°	7321	7001	6901
65°	6816	6485	6413
70°	6229	5995	5849
75°	5681	5333	5371
80°	4895	4607	4666
85°	3788	3671	3443

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8402 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.5	3.8
10°-20°	996.7	10.7
20°-30°	1467.9	15.7
30°-40°	1698.1	18.2
40°-50°	1669.5	17.9
50°-60°	1422.7	15.3
60°-70°	1019.4	10.9
70°-80°	553.7	5.9
80°-90°	144.4	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°	2817.1	30.2
0°-40°	4515.3	48.4
0°-60°	7607.5	81.6
0°-90°	9325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3732	3732	3732	3732	3732	
5°	3720	3713	3713	3713	3720	353
15°	3553	3538	3535	3531	3535	1000
25°	3215	3200	3185	3178	3174	1480
35°	2762	2739	2710	2695	2691	1722
45°	2208	2193	2156	2137	2137	1705
55°	1643	1613	1583	1565	1561	1467
65°	1070	1048	1018	1007	1007	1060
75°	546	528	513	506	517	577
85°	123	123	119	115	112	149
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3731.6	3731.6	3731.6	3731.6	3731.6
2.5°	3731.6	3727.9	3724.2	3727.9	3735.3
5°	3720.5	3713.0	3713.0	3713.0	3720.5
7.5°	3694.5	3687.0	3683.3	3687.0	3690.7
10°	3657.3	3649.9	3646.1	3649.9	3653.6
12.5°	3605.3	3601.5	3597.8	3597.8	3601.5
15°	3553.2	3538.4	3534.6	3530.9	3534.6
17.5°	3478.9	3475.2	3460.3	3460.3	3460.3
20°	3397.1	3389.7	3378.5	3371.1	3371.1
22.5°	3311.6	3304.2	3285.6	3278.2	3281.9
25°	3215.0	3200.1	3185.3	3177.8	3174.1
27.5°	3110.9	3096.1	3073.8	3062.6	3062.6
30°	2999.4	2988.3	2962.3	2947.4	2943.7
32.5°	2876.8	2869.3	2832.2	2824.7	2824.7
35°	2761.6	2739.3	2709.5	2694.7	2690.9
37.5°	2624.0	2609.2	2579.4	2560.9	2557.1
40°	2486.5	2467.9	2438.2	2423.3	2419.6
42.5°	2349.0	2330.4	2300.7	2282.1	2278.4
45°	2207.8	2192.9	2155.7	2137.1	2137.1
47.5°	2074.0	2044.2	2010.8	1995.9	1992.2
50°	1929.0	1903.0	1865.8	1850.9	1850.9
52.5°	1784.0	1765.5	1724.6	1717.1	1709.7
55°	1642.8	1613.1	1583.3	1564.8	1561.0
57.5°	1490.4	1464.4	1434.7	1419.8	1419.8
60°	1360.3	1326.9	1300.9	1282.3	1282.3
62.5°	1211.7	1181.9	1155.9	1144.8	1141.0
65°	1070.4	1048.1	1018.4	1007.2	1007.2
67.5°	929.2	910.6	884.6	873.4	877.2
70°	791.7	780.5	761.9	747.1	743.4
72.5°	665.3	650.4	631.9	628.1	628.1
75°	546.4	527.8	512.9	505.5	516.6
77.5°	423.7	412.6	405.1	401.4	405.1
80°	315.9	301.1	297.3	301.1	301.1
82.5°	219.3	211.9	208.1	208.1	208.1
85°	122.7	122.7	118.9	115.2	111.5
87.5°	48.3	48.3	52.0	52.0	55.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)