

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: P601511

Luminaire Tested: 22CGSB-80-L835

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601511
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-L835
Description: 2x2 CGSB AT 8000lm 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

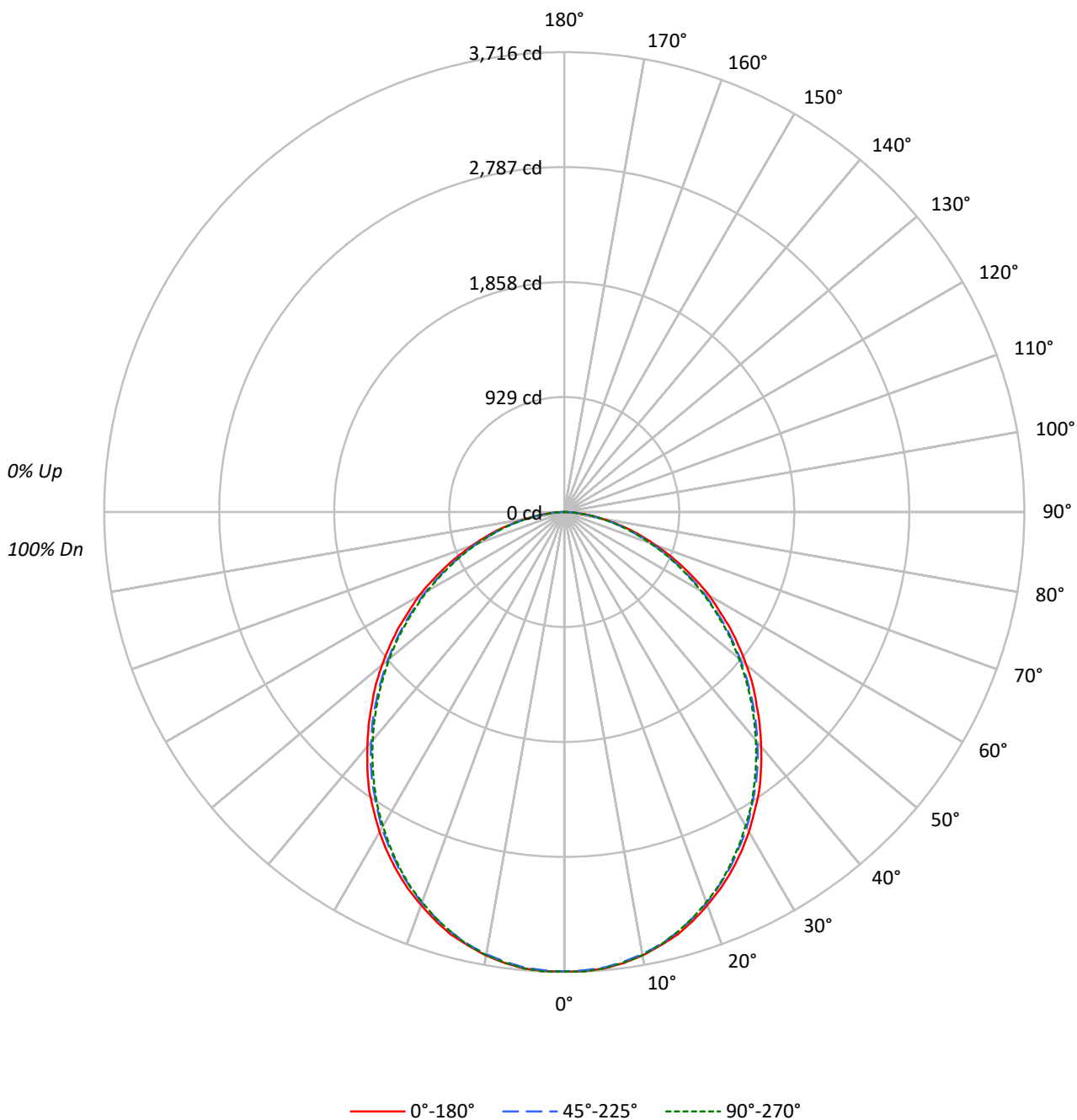
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9278.0 lumens
Efficiency: N/A
Efficacy: 127.8 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): 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	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°	9991	9991	9991
5°	9999	9979	9999
10°	9943	9913	9933
15°	9849	9797	9797
20°	9679	9626	9605
25°	9498	9410	9377
30°	9273	9158	9101
35°	9026	8856	8795
40°	8691	8522	8457
45°	8359	8163	8092
50°	8035	7772	7710
55°	7668	7391	7287
60°	7284	6966	6866
65°	6781	6452	6381
70°	6198	5965	5819
75°	5652	5306	5344
80°	4871	4584	4641
85°	3767	3653	3424

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8359 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.7	3.8
10°-20°	991.7	10.7
20°-30°	1460.6	15.7
30°-40°	1689.6	18.2
40°-50°	1661.0	17.9
50°-60°	1415.6	15.3
60°-70°	1014.3	10.9
70°-80°	550.9	5.9
80°-90°	143.7	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°	2802.9	30.2
0°-40°	4492.5	48.4
0°-60°	7569.1	81.6
0°-90°	9278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9278.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3713	3713	3713	3713	3713	
5°	3702	3694	3694	3694	3702	351
15°	3535	3520	3517	3513	3517	995
25°	3199	3184	3169	3162	3158	1472
35°	2748	2726	2696	2681	2677	1713
45°	2197	2182	2145	2126	2126	1697
55°	1634	1605	1575	1557	1553	1459
65°	1065	1043	1013	1002	1002	1055
75°	544	525	510	503	514	574
85°	122	122	118	115	111	148
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3712.8	3712.8	3712.8	3712.8	<i>3712.8</i>
2.5°	<i>3712.8</i>	<i>3709.1</i>	<i>3705.4</i>	<i>3709.1</i>	<i>3716.5</i>
5°	3701.7	3694.3	3694.3	3694.3	<i>3701.7</i>
7.5°	3675.8	3668.4	3664.8	3668.4	<i>3672.1</i>
10°	3638.9	3631.5	3627.8	3631.5	<i>3635.2</i>
12.5°	3587.1	3583.4	3579.7	3579.7	<i>3583.4</i>
15°	3535.3	3520.5	3516.8	3513.1	<i>3516.8</i>
17.5°	3461.4	3457.7	3442.9	3442.9	<i>3442.9</i>
20°	3380.0	3372.6	3361.5	3354.1	<i>3354.1</i>
22.5°	3294.9	3287.6	3269.1	3261.7	<i>3265.4</i>
25°	3198.8	3184.0	3169.2	3161.8	<i>3158.1</i>
27.5°	3095.3	3080.5	3058.3	3047.2	<i>3047.2</i>
30°	2984.3	2973.2	2947.3	2932.5	<i>2928.8</i>
32.5°	2862.3	2854.9	2817.9	2810.5	<i>2810.5</i>
35°	2747.6	2725.5	2695.9	2681.1	<i>2677.4</i>
37.5°	2610.8	2596.0	2566.4	2547.9	<i>2544.2</i>
40°	2474.0	2455.5	2425.9	2411.1	<i>2407.4</i>
42.5°	2337.2	2318.7	2289.1	2270.6	<i>2266.9</i>
45°	2196.6	2181.8	2144.9	2126.4	<i>2126.4</i>
47.5°	2063.5	2033.9	2000.6	1985.8	<i>1982.1</i>
50°	1919.3	1893.4	1856.4	1841.6	<i>1841.6</i>
52.5°	1775.1	1756.6	1715.9	1708.5	<i>1701.1</i>
55°	1634.5	1604.9	1575.4	1556.9	<i>1553.2</i>
57.5°	1482.9	1457.0	1427.4	1412.6	<i>1412.6</i>
60°	1353.5	1320.2	1294.3	1275.8	<i>1275.8</i>
62.5°	1205.6	1176.0	1150.1	1139.0	<i>1135.3</i>
65°	1065.0	1042.8	1013.3	1002.2	<i>1002.2</i>
67.5°	924.5	906.0	880.1	869.0	<i>872.7</i>
70°	787.7	776.6	758.1	743.3	<i>739.6</i>
72.5°	661.9	647.2	628.7	625.0	<i>625.0</i>
75°	543.6	525.1	510.3	502.9	<i>514.0</i>
77.5°	421.6	410.5	403.1	399.4	<i>403.1</i>
80°	314.3	299.5	295.8	299.5	<i>299.5</i>
82.5°	218.2	210.8	207.1	207.1	<i>207.1</i>
85°	122.0	122.0	118.3	114.6	<i>110.9</i>
87.5°	48.1	48.1	51.8	51.8	<i>55.5</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)