

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: P601513

Luminaire Tested: 22CGSB-80-L850

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601513
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-L850
Description: 2x2 CGSB AT 8000lm 5000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

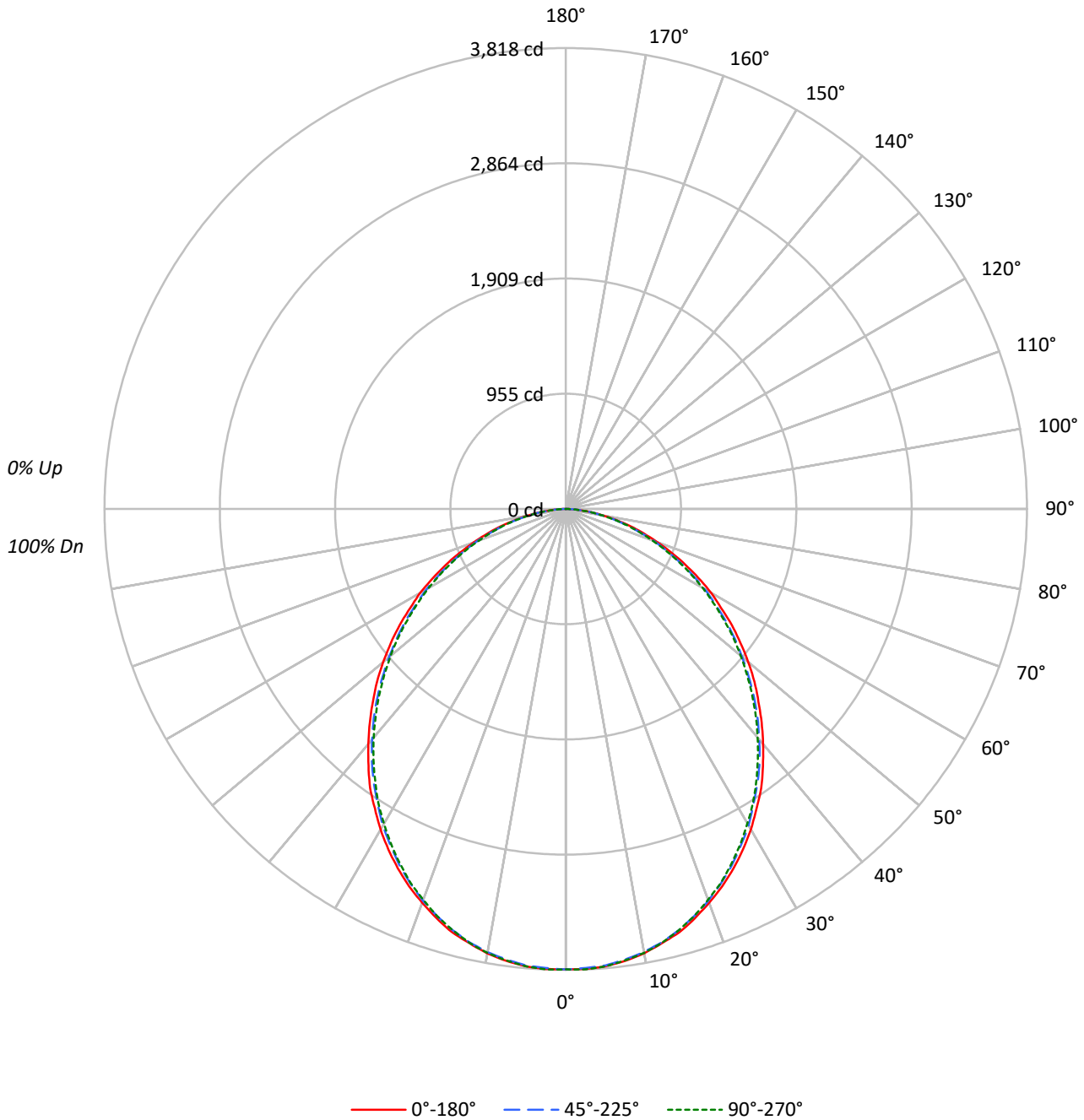
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9530.0 lumens
Efficiency: N/A
Efficacy: 131.3 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°	10263	10263	10263
5°	10271	10250	10271
10°	10213	10182	10203
15°	10116	10064	10064
20°	9942	9888	9866
25°	9756	9666	9632
30°	9525	9407	9348
35°	9271	9097	9034
40°	8927	8753	8687
45°	8587	8384	8312
50°	8253	7983	7919
55°	7877	7592	7485
60°	7482	7155	7053
65°	6966	6627	6555
70°	6366	6127	5977
75°	5806	5450	5490
80°	5004	4709	4768
85°	3869	3754	3520

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8587 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.2	3.8
10°-20°	1018.6	10.7
20°-30°	1500.2	15.7
30°-40°	1735.4	18.2
40°-50°	1706.2	17.9
50°-60°	1454.0	15.3
60°-70°	1041.8	10.9
70°-80°	565.8	5.9
80°-90°	147.6	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°	2879.1	30.2
0°-40°	4614.5	48.4
0°-60°	7774.7	81.6
0°-90°	9530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9530.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3814	3814	3814	3814	3814	
5°	3802	3795	3795	3795	3802	361
15°	3631	3616	3612	3609	3612	1022
25°	3286	3270	3255	3248	3244	1512
35°	2822	2800	2769	2754	2750	1760
45°	2256	2241	2203	2184	2184	1743
55°	1679	1648	1618	1599	1595	1499
65°	1094	1071	1041	1029	1029	1084
75°	558	539	524	517	528	590
85°	125	125	122	118	114	152
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3813.7	3813.7	3813.7	3813.7	3813.7
2.5°	3813.7	3809.9	3806.1	3809.9	3817.5
5°	3802.3	3794.7	3794.7	3794.7	3802.3
7.5°	3775.7	3768.1	3764.3	3768.1	3771.9
10°	3737.7	3730.1	3726.3	3730.1	3733.9
12.5°	3684.5	3680.7	3676.9	3676.9	3680.7
15°	3631.3	3616.1	3612.3	3608.6	3612.3
17.5°	3555.4	3551.6	3536.4	3536.4	3536.4
20°	3471.8	3464.2	3452.8	3445.2	3445.2
22.5°	3384.4	3376.8	3357.9	3350.3	3354.1
25°	3285.7	3270.5	3255.3	3247.7	3243.9
27.5°	3179.3	3164.1	3141.3	3129.9	3129.9
30°	3065.4	3054.0	3027.4	3012.2	3008.4
32.5°	2940.0	2932.4	2894.4	2886.8	2886.8
35°	2822.3	2799.5	2769.1	2753.9	2750.1
37.5°	2681.7	2666.5	2636.1	2617.1	2613.4
40°	2541.2	2522.2	2491.8	2476.6	2472.8
42.5°	2400.6	2381.6	2351.3	2332.3	2328.5
45°	2256.3	2241.1	2203.1	2184.1	2184.1
47.5°	2119.5	2089.2	2055.0	2039.8	2036.0
50°	1971.4	1944.8	1906.8	1891.6	1891.6
52.5°	1823.3	1804.3	1762.5	1754.9	1747.3
55°	1678.9	1648.5	1618.2	1599.2	1595.4
57.5°	1523.2	1496.6	1466.2	1451.0	1451.0
60°	1390.2	1356.1	1329.5	1310.5	1310.5
62.5°	1238.3	1207.9	1181.3	1169.9	1166.1
65°	1094.0	1071.2	1040.8	1029.4	1029.4
67.5°	949.6	930.6	904.0	892.6	896.4
70°	809.1	797.7	778.7	763.5	759.7
72.5°	679.9	664.7	645.7	641.9	641.9
75°	558.4	539.4	524.2	516.6	528.0
77.5°	433.0	421.6	414.0	410.2	414.0
80°	322.9	307.7	303.9	307.7	307.7
82.5°	224.1	216.5	212.7	212.7	212.7
85°	125.3	125.3	121.6	117.8	114.0
87.5°	49.4	49.4	53.2	53.2	57.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)