

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: P601433

Luminaire Tested: 22CGSB-20-L850

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601433
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-20-L850
Description: 2x2 CGSB AT 2000lm 5000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

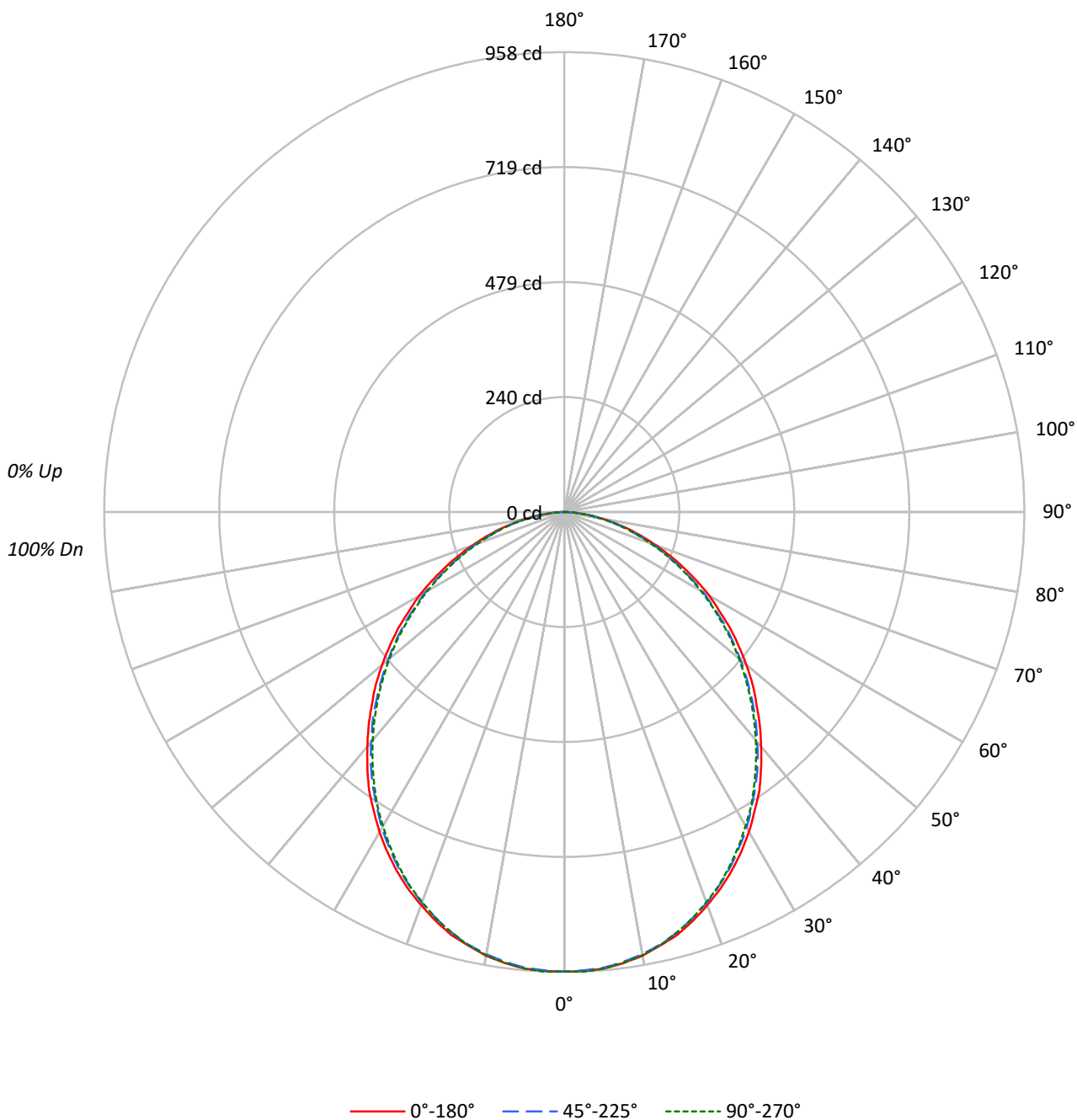
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2392.0 lumens
Efficiency: N/A
Efficacy: 141.5 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): 16.9
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									
RC	80									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°	2576	2576	2576
5°	2578	2573	2578
10°	2564	2556	2561
15°	2539	2526	2526
20°	2495	2482	2476
25°	2449	2426	2417
30°	2391	2361	2346
35°	2327	2283	2268
40°	2240	2197	2180
45°	2155	2105	2086
50°	2071	2004	1988
55°	1977	1906	1879
60°	1878	1796	1770
65°	1748	1663	1645
70°	1598	1537	1500
75°	1458	1368	1378
80°	1255	1182	1196
85°	973	942	883

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2155 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	3.8
10°-20°	255.7	10.7
20°-30°	376.6	15.7
30°-40°	435.6	18.2
40°-50°	428.2	17.9
50°-60°	365.0	15.3
60°-70°	261.5	10.9
70°-80°	142.0	5.9
80°-90°	37.0	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°	722.6	30.2
0°-40°	1158.2	48.4
0°-60°	1951.4	81.6
0°-90°	2392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2392.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	957	957	957	957	957	
5°	954	952	952	952	954	91
15°	912	908	907	906	907	257
25°	825	821	817	815	814	380
35°	708	703	695	691	690	442
45°	566	562	553	548	548	437
55°	421	414	406	401	400	376
65°	275	269	261	258	258	272
75°	140	135	132	130	132	148
85°	32	32	30	30	29	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	957.2	957.2	957.2	957.2	957.2
2.5°	957.2	956.3	955.3	956.3	958.2
5°	954.4	952.5	952.5	952.5	954.4
7.5°	947.7	945.8	944.8	945.8	946.7
10°	938.2	936.2	935.3	936.2	937.2
12.5°	924.8	923.8	922.9	922.9	923.8
15°	911.5	907.6	906.7	905.7	906.7
17.5°	892.4	891.4	887.6	887.6	887.6
20°	871.4	869.5	866.6	864.7	864.7
22.5°	849.5	847.6	842.8	840.9	841.9
25°	824.7	820.9	817.1	815.2	814.2
27.5°	798.0	794.2	788.5	785.6	785.6
30°	769.4	766.5	759.9	756.1	755.1
32.5°	737.9	736.0	726.5	724.6	724.6
35°	708.4	702.7	695.0	691.2	690.3
37.5°	673.1	669.3	661.7	656.9	655.9
40°	637.8	633.1	625.4	621.6	620.7
42.5°	602.6	597.8	590.2	585.4	584.4
45°	566.3	562.5	553.0	548.2	548.2
47.5°	532.0	524.4	515.8	512.0	511.0
50°	494.8	488.1	478.6	474.8	474.8
52.5°	457.6	452.9	442.4	440.5	438.6
55°	421.4	413.8	406.2	401.4	400.4
57.5°	382.3	375.6	368.0	364.2	364.2
60°	348.9	340.4	333.7	328.9	328.9
62.5°	310.8	303.2	296.5	293.6	292.7
65°	274.6	268.9	261.2	258.4	258.4
67.5°	238.4	233.6	226.9	224.1	225.0
70°	203.1	200.2	195.4	191.6	190.7
72.5°	170.7	166.8	162.1	161.1	161.1
75°	140.2	135.4	131.6	129.7	132.5
77.5°	108.7	105.8	103.9	103.0	103.9
80°	81.0	77.2	76.3	77.2	77.2
82.5°	56.3	54.3	53.4	53.4	53.4
85°	31.5	31.5	30.5	29.6	28.6
87.5°	12.4	12.4	13.3	13.3	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)