

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: P601432

Luminaire Tested: 22CGSB-20-L840

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601432
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-L840
Description: 2x2 CGSB AT 2000lm 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

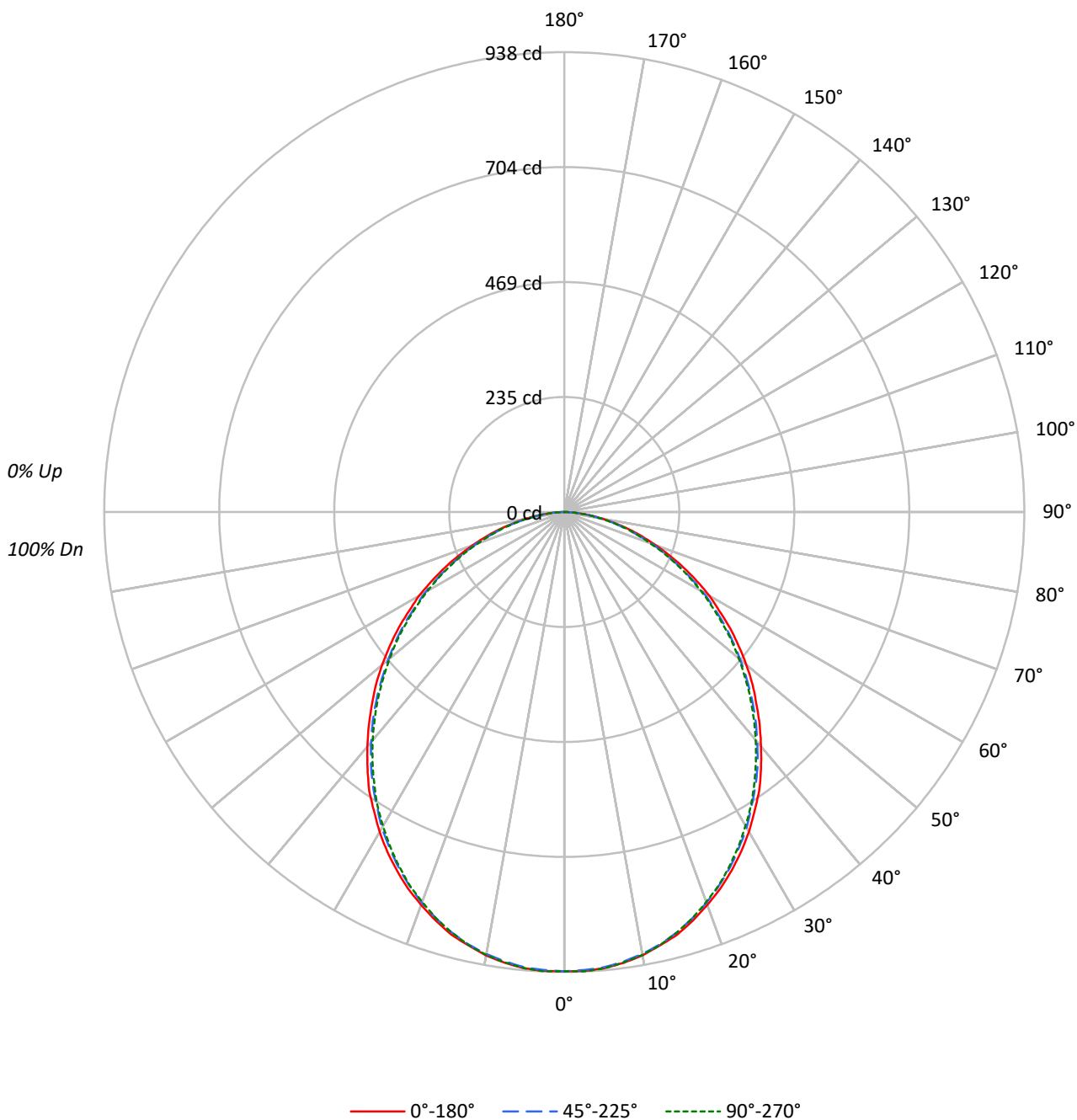
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2341.0 lumens
Efficiency: N/A
Efficacy: 138.5 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																			
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°	2521	2521	2521
5°	2523	2518	2523
10°	2509	2501	2506
15°	2485	2472	2472
20°	2442	2429	2424
25°	2396	2374	2366
30°	2340	2311	2296
35°	2278	2235	2219
40°	2193	2150	2134
45°	2109	2060	2042
50°	2027	1961	1945
55°	1935	1865	1839
60°	1838	1758	1732
65°	1711	1628	1610
70°	1563	1505	1468
75°	1426	1339	1349
80°	1229	1156	1172
85°	951	923	865

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2109 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	3.8
10°-20°	250.2	10.7
20°-30°	368.5	15.7
30°-40°	426.3	18.2
40°-50°	419.1	17.9
50°-60°	357.2	15.3
60°-70°	255.9	10.9
70°-80°	139.0	5.9
80°-90°	36.3	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°	707.2	30.2
0°-40°	1133.5	48.4
0°-60°	1909.8	81.6
0°-90°	2341.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2341.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	937	937	937	937	937	
5°	934	932	932	932	934	89
15°	892	888	887	886	887	251
25°	807	803	800	798	797	372
35°	693	688	680	676	676	432
45°	554	550	541	536	536	428
55°	412	405	398	393	392	368
65°	269	263	256	253	253	266
75°	137	132	129	127	130	145
85°	31	31	30	29	28	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	936.8	936.8	936.8	936.8	936.8
2.5°	936.8	935.9	934.9	935.9	937.7
5°	934.0	932.1	932.1	932.1	934.0
7.5°	927.5	925.6	924.7	925.6	926.5
10°	918.1	916.3	915.3	916.3	917.2
12.5°	905.1	904.2	903.2	903.2	904.2
15°	892.0	888.3	887.4	886.4	887.4
17.5°	873.4	872.4	868.7	868.7	868.7
20°	852.8	851.0	848.2	846.3	846.3
22.5°	831.4	829.5	824.8	823.0	823.9
25°	807.1	803.4	799.6	797.8	796.8
27.5°	781.0	777.3	771.7	768.9	768.9
30°	753.0	750.2	743.7	739.9	739.0
32.5°	722.2	720.3	711.0	709.1	709.1
35°	693.3	687.7	680.2	676.5	675.5
37.5°	658.8	655.0	647.6	642.9	642.0
40°	624.2	619.6	612.1	608.4	607.4
42.5°	589.7	585.0	577.6	572.9	572.0
45°	554.2	550.5	541.2	536.5	536.5
47.5°	520.7	513.2	504.8	501.1	500.1
50°	484.3	477.7	468.4	464.7	464.7
52.5°	447.9	443.2	432.9	431.1	429.2
55°	412.4	405.0	397.5	392.8	391.9
57.5°	374.2	367.6	360.2	356.4	356.4
60°	341.5	333.1	326.6	321.9	321.9
62.5°	304.2	296.7	290.2	287.4	286.5
65°	268.7	263.1	255.7	252.9	252.9
67.5°	233.3	228.6	222.1	219.3	220.2
70°	198.7	195.9	191.3	187.5	186.6
72.5°	167.0	163.3	158.6	157.7	157.7
75°	137.2	132.5	128.8	126.9	129.7
77.5°	106.4	103.6	101.7	100.8	101.7
80°	79.3	75.6	74.6	75.6	75.6
82.5°	55.1	53.2	52.3	52.3	52.3
85°	30.8	30.8	29.9	28.9	28.0
87.5°	12.1	12.1	13.1	13.1	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)