

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: P601436

Luminaire Tested: 22CGSB-20-L940

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601436
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-L940
Description: 2x2 CGSB AT 2000lm 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

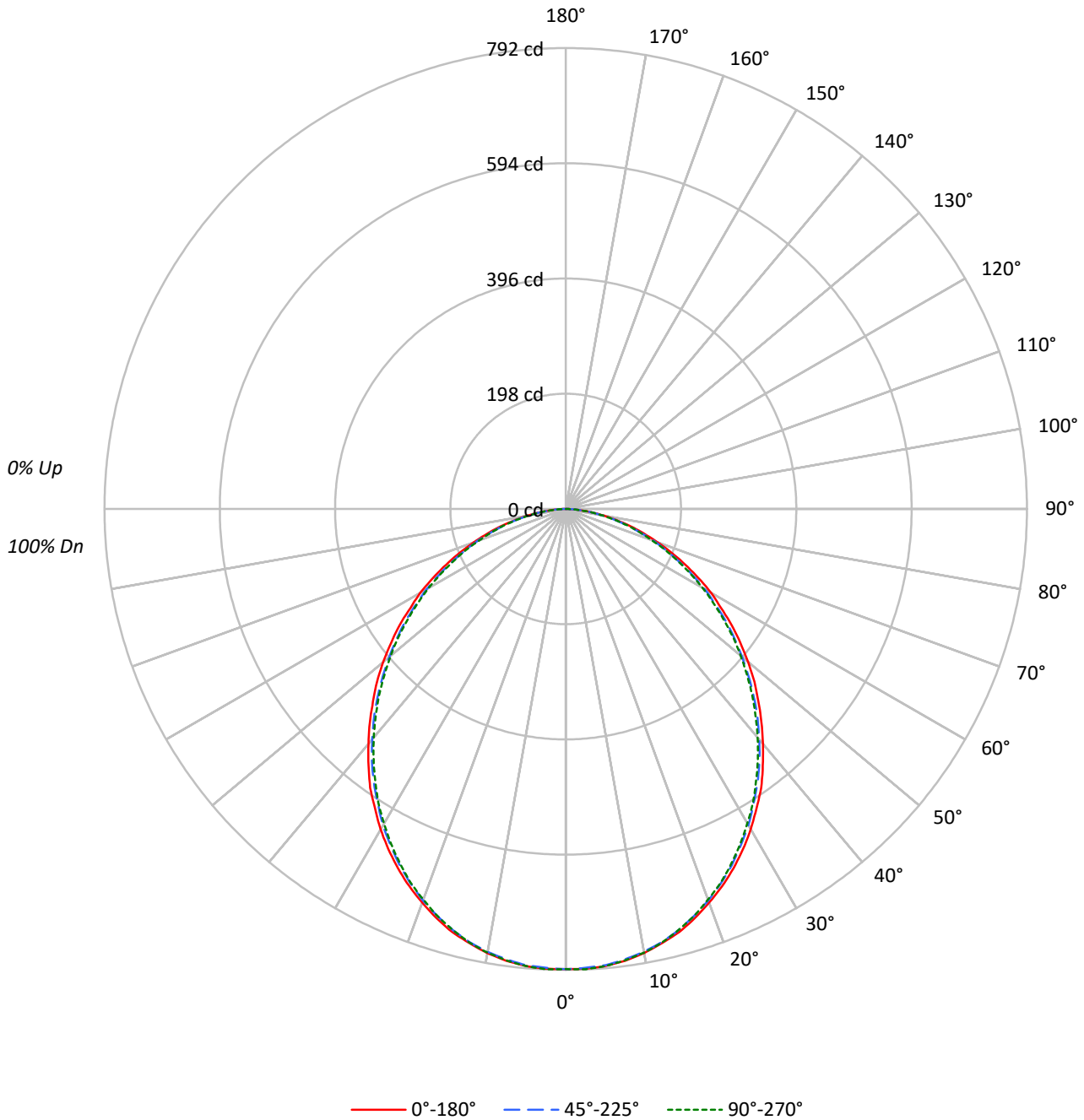
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1976.0 lumens
Efficiency: N/A
Efficacy: 116.9 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				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°	2128	2128	2128
5°	2130	2125	2130
10°	2118	2111	2115
15°	2098	2087	2087
20°	2062	2050	2046
25°	2023	2004	1997
30°	1975	1950	1938
35°	1922	1886	1873
40°	1851	1815	1801
45°	1780	1738	1724
50°	1711	1655	1642
55°	1633	1574	1552
60°	1552	1484	1462
65°	1444	1374	1359
70°	1320	1271	1239
75°	1204	1130	1138
80°	1037	976	989
85°	803	778	729

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1780 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	3.8
10°-20°	211.2	10.7
20°-30°	311.1	15.7
30°-40°	359.8	18.2
40°-50°	353.8	17.9
50°-60°	301.5	15.3
60°-70°	216.0	10.9
70°-80°	117.3	5.9
80°-90°	30.6	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°	597.0	30.2
0°-40°	956.8	48.4
0°-60°	1612.1	81.6
0°-90°	1976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1976.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	791	791	791	791	791	
5°	788	787	787	787	788	75
15°	753	750	749	748	749	212
25°	681	678	675	673	673	314
35°	585	580	574	571	570	365
45°	468	465	457	453	453	361
55°	348	342	336	332	331	311
65°	227	222	216	213	213	225
75°	116	112	109	107	110	122
85°	26	26	25	24	24	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	790.7	790.7	790.7	790.7	790.7
2.5°	790.7	790.0	789.2	790.0	791.5
5°	788.4	786.8	786.8	786.8	788.4
7.5°	782.9	781.3	780.5	781.3	782.1
10°	775.0	773.4	772.6	773.4	774.2
12.5°	764.0	763.2	762.4	762.4	763.2
15°	752.9	749.8	749.0	748.2	749.0
17.5°	737.2	736.4	733.3	733.3	733.3
20°	719.9	718.3	715.9	714.3	714.3
22.5°	701.7	700.2	696.2	694.7	695.4
25°	681.3	678.1	675.0	673.4	672.6
27.5°	659.2	656.1	651.3	649.0	649.0
30°	635.6	633.2	627.7	624.6	623.8
32.5°	609.6	608.0	600.1	598.6	598.6
35°	585.2	580.5	574.2	571.0	570.2
37.5°	556.0	552.9	546.6	542.7	541.9
40°	526.9	523.0	516.7	513.5	512.7
42.5°	497.8	493.8	487.5	483.6	482.8
45°	467.8	464.7	456.8	452.9	452.9
47.5°	439.5	433.2	426.1	422.9	422.2
50°	408.8	403.2	395.4	392.2	392.2
52.5°	378.0	374.1	365.4	363.9	362.3
55°	348.1	341.8	335.5	331.6	330.8
57.5°	315.8	310.3	304.0	300.9	300.9
60°	288.3	281.2	275.7	271.7	271.7
62.5°	256.8	250.5	244.9	242.6	241.8
65°	226.8	222.1	215.8	213.4	213.4
67.5°	196.9	193.0	187.4	185.1	185.9
70°	167.8	165.4	161.5	158.3	157.5
72.5°	141.0	137.8	133.9	133.1	133.1
75°	115.8	111.8	108.7	107.1	109.5
77.5°	89.8	87.4	85.8	85.1	85.8
80°	66.9	63.8	63.0	63.8	63.8
82.5°	46.5	44.9	44.1	44.1	44.1
85°	26.0	26.0	25.2	24.4	23.6
87.5°	10.2	10.2	11.0	11.0	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)