

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: P601435

Luminaire Tested: 22CGSB-20-L935

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601435
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-L935
Description: 2x2 CGSB AT 2000lm 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

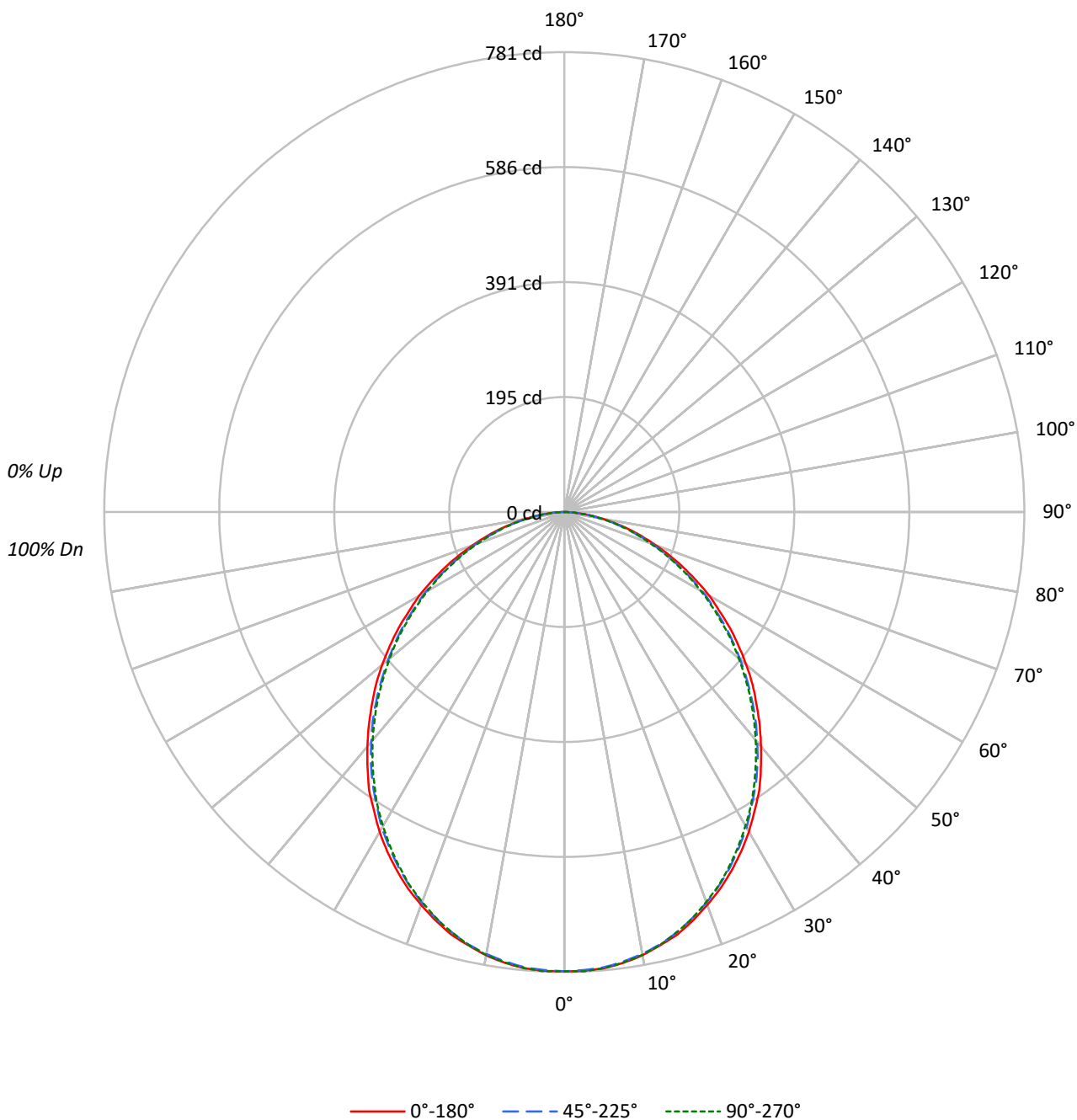
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1949.0 lumens
Efficiency: N/A
Efficacy: 115.3 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): 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	
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°	2099	2099	2099
5°	2100	2096	2100
10°	2089	2082	2087
15°	2069	2058	2058
20°	2033	2022	2018
25°	1995	1977	1970
30°	1948	1924	1912
35°	1896	1860	1848
40°	1826	1790	1776
45°	1756	1715	1700
50°	1688	1633	1620
55°	1611	1552	1531
60°	1530	1463	1442
65°	1424	1356	1340
70°	1302	1253	1223
75°	1187	1115	1123
80°	1023	962	975
85°	790	769	719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1756 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	3.8
10°-20°	208.3	10.7
20°-30°	306.8	15.7
30°-40°	354.9	18.2
40°-50°	348.9	17.9
50°-60°	297.4	15.3
60°-70°	213.1	10.9
70°-80°	115.7	5.9
80°-90°	30.2	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°	588.8	30.2
0°-40°	943.7	48.4
0°-60°	1590.0	81.6
0°-90°	1949.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1949.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	778	776	776	776	778	74
15°	743	740	739	738	739	209
25°	672	669	666	664	663	309
35°	577	572	566	563	562	360
45°	461	458	451	447	447	356
55°	343	337	331	327	326	307
65°	224	219	213	210	210	222
75°	114	110	107	106	108	121
85°	26	26	25	24	23	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	779.9	779.9	779.9	779.9	779.9
2.5°	779.9	779.2	778.4	779.2	780.7
5°	777.6	776.1	776.1	776.1	777.6
7.5°	772.2	770.6	769.8	770.6	771.4
10°	764.4	762.9	762.1	762.9	763.6
12.5°	753.5	752.8	752.0	752.0	752.8
15°	742.7	739.5	738.8	738.0	738.8
17.5°	727.1	726.3	723.2	723.2	723.2
20°	710.0	708.5	706.1	704.6	704.6
22.5°	692.2	690.6	686.7	685.2	685.9
25°	672.0	668.9	665.7	664.2	663.4
27.5°	650.2	647.1	642.4	640.1	640.1
30°	626.9	624.6	619.1	616.0	615.3
32.5°	601.3	599.7	591.9	590.4	590.4
35°	577.2	572.5	566.3	563.2	562.4
37.5°	548.4	545.3	539.1	535.2	534.5
40°	519.7	515.8	509.6	506.5	505.7
42.5°	491.0	487.1	480.9	477.0	476.2
45°	461.4	458.3	450.6	446.7	446.7
47.5°	433.5	427.3	420.3	417.2	416.4
50°	403.2	397.7	390.0	386.9	386.9
52.5°	372.9	369.0	360.5	358.9	357.3
55°	343.4	337.1	330.9	327.0	326.3
57.5°	311.5	306.1	299.9	296.8	296.8
60°	284.3	277.3	271.9	268.0	268.0
62.5°	253.2	247.0	241.6	239.3	238.5
65°	223.7	219.1	212.9	210.5	210.5
67.5°	194.2	190.3	184.9	182.6	183.3
70°	165.5	163.1	159.3	156.1	155.4
72.5°	139.1	135.9	132.1	131.3	131.3
75°	114.2	110.3	107.2	105.6	108.0
77.5°	88.6	86.2	84.7	83.9	84.7
80°	66.0	62.9	62.1	62.9	62.9
82.5°	45.8	44.3	43.5	43.5	43.5
85°	25.6	25.6	24.9	24.1	23.3
87.5°	10.1	10.1	10.9	10.9	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)