

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: P601277

Luminaire Tested: 14CGSB-20-L950

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2311-233-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/24/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CGSB-20-L950
Description: 1x4 CGSB AT 2000lm 5000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

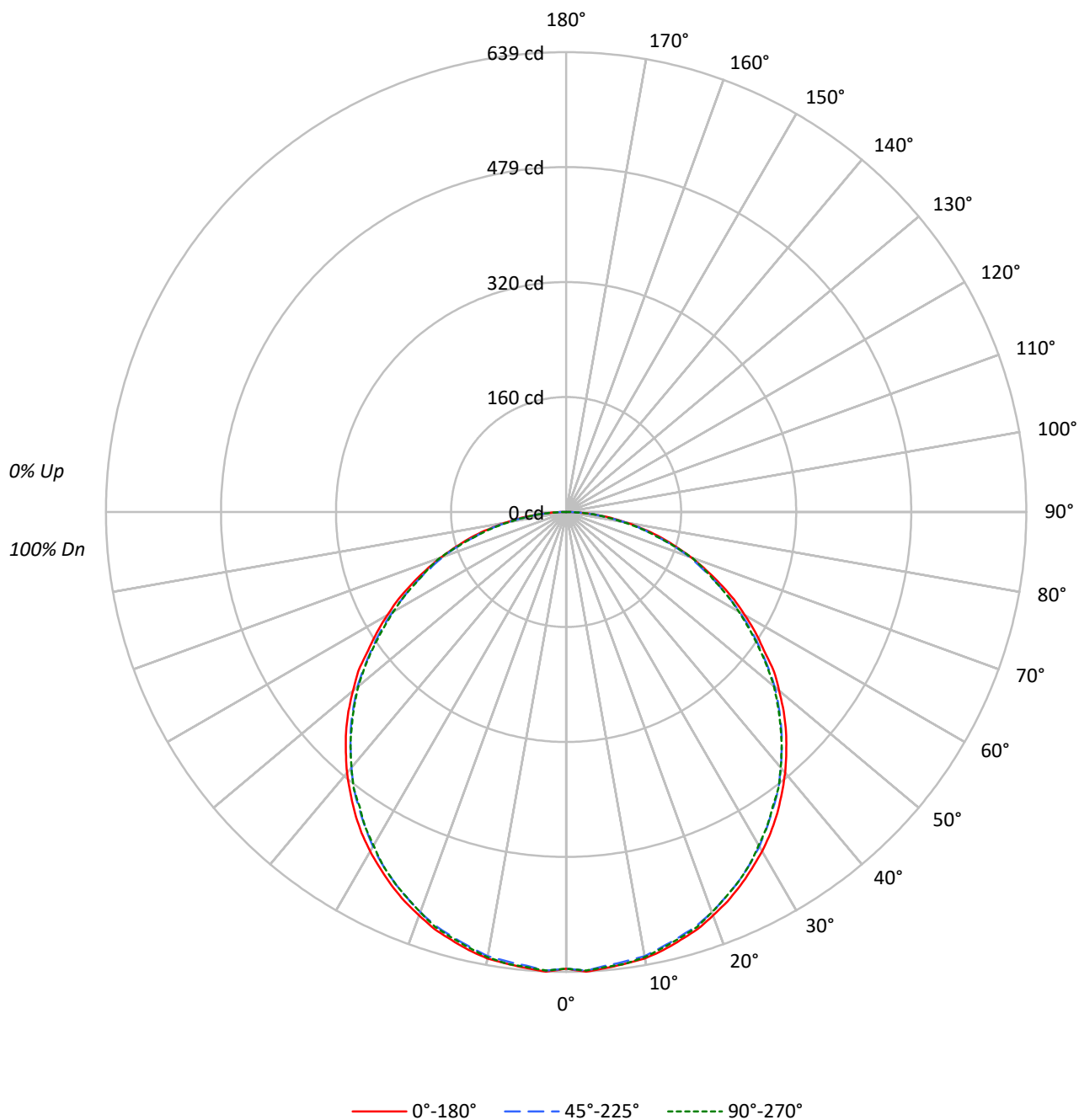
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1842.2 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 22.5
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					0
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
1	108	103	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	71	64	87	77	70	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	64	51	42	36	63	50	42	36		48	41	35		47	40	35		46	39	35
8	60	46	38	32	58	46	37	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	33	28		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1707	1707	1707
5°	1718	1710	1714
10°	1721	1712	1717
15°	1715	1702	1706
20°	1708	1695	1695
25°	1701	1682	1682
30°	1691	1667	1662
35°	1679	1648	1643
40°	1662	1629	1629
45°	1644	1608	1602
50°	1616	1583	1577
55°	1574	1537	1529
60°	1541	1499	1490
65°	1501	1461	1451
70°	1456	1432	1469
75°	1415	1350	1350
80°	1323	1300	1251
85°	1223	1173	1173

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1644 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	3.3
10°-20°	173.0	9.4
20°-30°	261.7	14.2
30°-40°	315.3	17.1
40°-50°	327.4	17.8
50°-60°	294.9	16.0
60°-70°	227.8	12.4
70°-80°	138.8	7.5
80°-90°	42.9	2.3
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°	495.0	26.9
0°-40°	810.3	44.0
0°-60°	1432.6	77.8
0°-90°	1842.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1842.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	634	634	634	634	634	
5°	636	634	633	633	634	61
15°	616	614	611	611	612	174
25°	573	571	566	565	566	264
35°	511	508	502	500	500	320
45°	432	429	422	421	421	333
55°	336	332	328	326	326	301
65°	236	231	229	226	228	234
75°	136	131	130	128	130	143
85°	40	40	38	36	38	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	634.5	634.5	634.5	634.5	634.5
2.5°	639.3	639.3	637.7	637.7	637.7
5°	636.1	634.5	632.9	632.9	634.5
7.5°	632.9	632.9	629.8	629.8	632.9
10°	629.8	628.2	626.6	626.6	628.2
12.5°	623.5	621.9	618.7	618.7	620.3
15°	615.5	614.0	610.8	610.8	612.4
17.5°	607.6	606.0	602.9	602.9	604.5
20°	596.6	595.0	591.8	590.2	591.8
22.5°	585.5	583.9	579.1	577.6	579.1
25°	572.8	571.2	566.5	564.9	566.5
27.5°	558.6	557.0	552.2	550.7	552.2
30°	544.3	541.2	536.4	533.3	534.8
32.5°	528.5	525.3	519.0	517.4	519.0
35°	511.1	507.9	501.6	500.0	500.0
37.5°	492.1	490.5	484.2	482.6	484.2
40°	473.1	470.0	463.6	462.1	463.6
42.5°	452.6	449.4	443.1	443.1	443.1
45°	432.0	428.8	422.5	420.9	420.9
47.5°	409.8	406.7	400.3	398.8	398.8
50°	386.1	382.9	378.2	376.6	376.6
52.5°	363.9	359.2	352.9	351.3	351.3
55°	335.5	332.3	327.6	326.0	326.0
57.5°	311.7	307.0	303.8	300.7	300.7
60°	286.4	281.7	278.5	276.9	276.9
62.5°	262.7	256.3	253.2	251.6	253.2
65°	235.8	231.0	229.4	226.3	227.9
67.5°	210.5	205.7	204.1	204.1	207.3
70°	185.1	180.4	182.0	177.2	186.7
72.5°	159.8	156.7	156.7	151.9	156.7
75°	136.1	131.3	129.8	128.2	129.8
77.5°	110.8	109.2	107.6	104.4	106.0
80°	85.4	88.6	83.9	79.1	80.7
82.5°	63.3	61.7	58.5	57.0	58.5
85°	39.6	39.6	38.0	36.4	38.0
87.5°	19.0	19.0	17.4	17.4	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)