

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: P601271

Luminaire Tested: 14CGSB-20-L835

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601271
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-L835
Description: 1x4 CGSB AT 2000lm 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

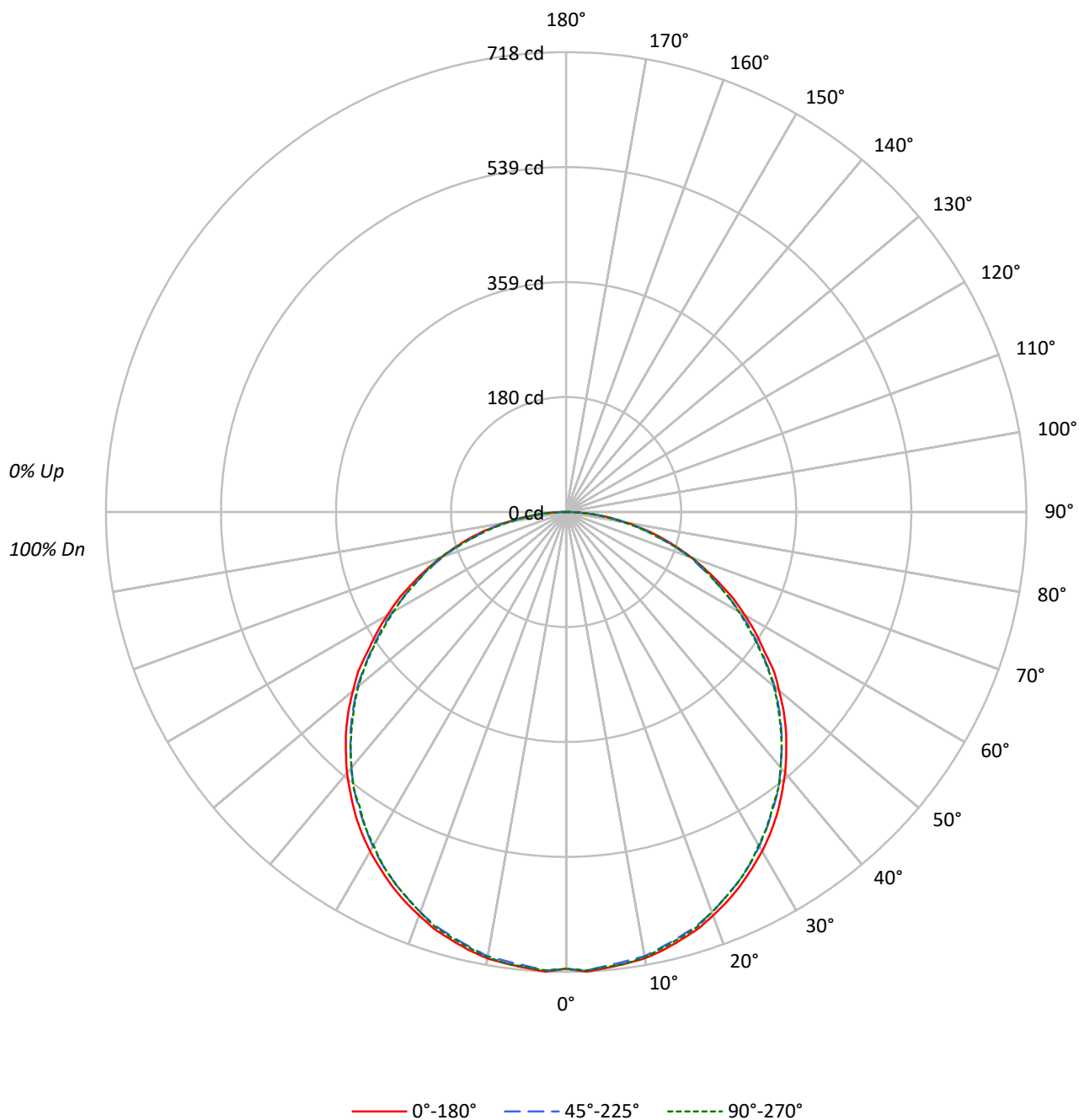
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2069.9 lumens
Efficiency: N/A
Efficacy: 92.0 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°	1919	1919	1919
5°	1931	1921	1926
10°	1934	1924	1929
15°	1927	1912	1917
20°	1920	1904	1904
25°	1911	1890	1890
30°	1900	1873	1867
35°	1887	1851	1846
40°	1867	1830	1830
45°	1847	1807	1800
50°	1816	1779	1772
55°	1768	1727	1719
60°	1732	1684	1674
65°	1687	1642	1630
70°	1637	1609	1651
75°	1590	1516	1516
80°	1488	1460	1406
85°	1371	1318	1318

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1847 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	3.3
10°-20°	194.3	9.4
20°-30°	294.0	14.2
30°-40°	354.3	17.1
40°-50°	367.9	17.8
50°-60°	331.3	16.0
60°-70°	256.0	12.4
70°-80°	156.0	7.5
80°-90°	48.2	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°	556.2	26.9
0°-40°	910.5	44.0
0°-60°	1609.7	77.8
0°-90°	2069.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2069.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	713	713	713	713	713	
5°	715	713	711	711	713	68
15°	692	690	686	686	688	195
25°	644	642	636	635	636	297
35°	574	571	564	562	562	359
45°	485	482	475	473	473	374
55°	377	373	368	366	366	339
65°	265	260	258	254	256	263
75°	153	148	146	144	146	161
85°	44	44	43	41	43	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	713.0	713.0	713.0	713.0	713.0
2.5°	718.3	718.3	716.5	716.5	716.5
5°	714.7	713.0	711.2	711.2	713.0
7.5°	711.2	711.2	707.6	707.6	711.2
10°	707.6	705.8	704.1	704.1	705.8
12.5°	700.5	698.7	695.2	695.2	697.0
15°	691.6	689.8	686.3	686.3	688.1
17.5°	682.7	681.0	677.4	677.4	679.2
20°	670.3	668.5	665.0	663.2	665.0
22.5°	657.8	656.1	650.7	649.0	650.7
25°	643.6	641.8	636.5	634.7	636.5
27.5°	627.6	625.8	620.5	618.7	620.5
30°	611.6	608.1	602.7	599.2	600.9
32.5°	593.8	590.3	583.2	581.4	583.2
35°	574.3	570.7	563.6	561.8	561.8
37.5°	552.9	551.2	544.1	542.3	544.1
40°	531.6	528.1	520.9	519.2	520.9
42.5°	508.5	504.9	497.8	497.8	497.8
45°	485.4	481.8	474.7	472.9	472.9
47.5°	460.5	456.9	449.8	448.0	448.0
50°	433.8	430.3	424.9	423.2	423.2
52.5°	408.9	403.6	396.5	394.7	394.7
55°	376.9	373.4	368.0	366.3	366.3
57.5°	350.3	344.9	341.4	337.8	337.8
60°	321.8	316.5	312.9	311.1	311.1
62.5°	295.1	288.0	284.5	282.7	284.5
65°	264.9	259.6	257.8	254.2	256.0
67.5°	236.5	231.1	229.4	229.4	232.9
70°	208.0	202.7	204.5	199.1	209.8
72.5°	179.6	176.0	176.0	170.7	176.0
75°	152.9	147.6	145.8	144.0	145.8
77.5°	124.5	122.7	120.9	117.3	119.1
80°	96.0	99.6	94.2	88.9	90.7
82.5°	71.1	69.3	65.8	64.0	65.8
85°	44.4	44.4	42.7	40.9	42.7
87.5°	21.3	21.3	19.6	19.6	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)