

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: P601270

Luminaire Tested: 14CGSB-20-L830

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601270
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-L830
Description: 1x4 CGSB AT 2000lm 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

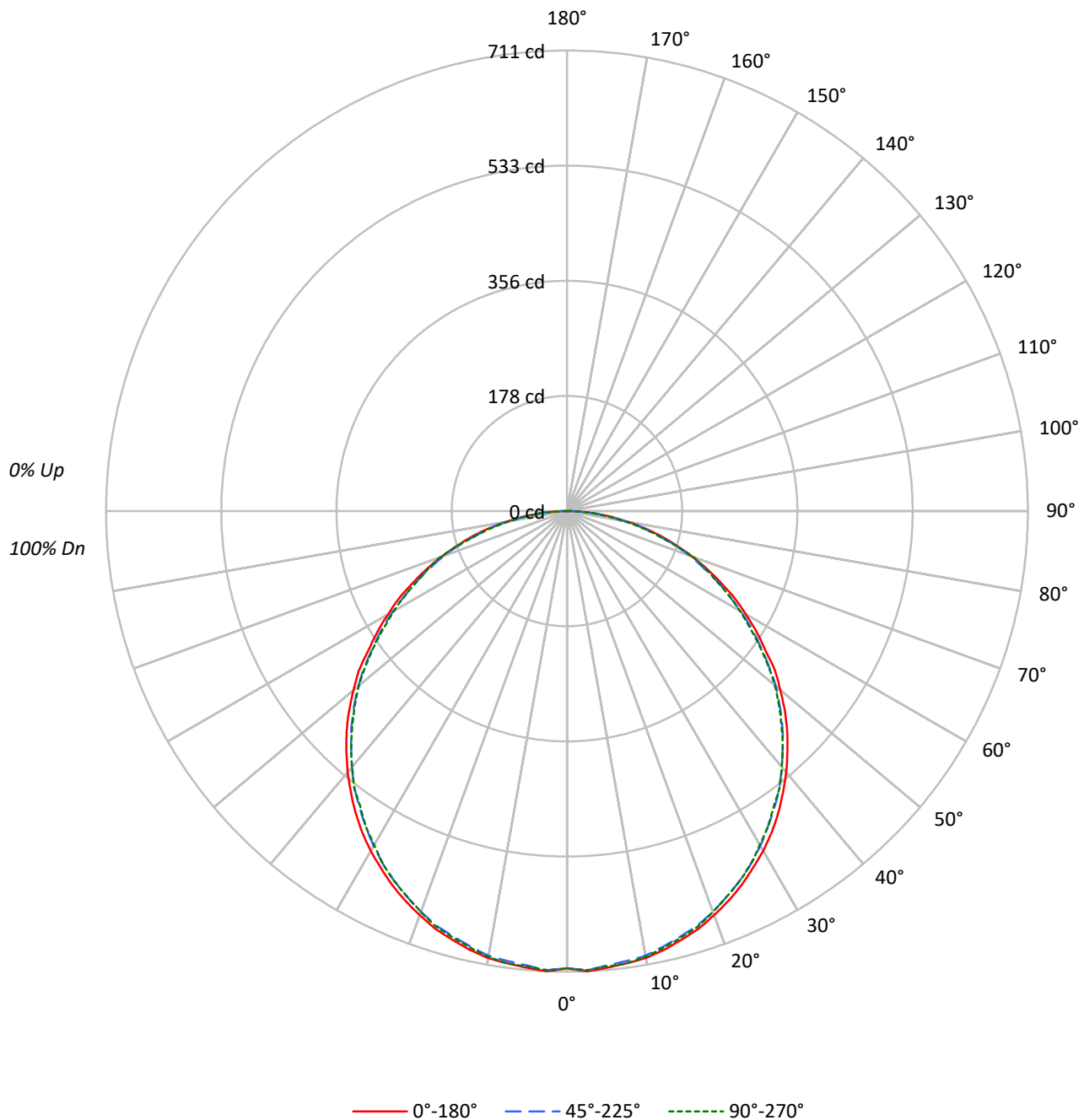
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2049.2 lumens
Efficiency: N/A
Efficacy: 91.1 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°	1899	1899	1899
5°	1911	1902	1907
10°	1914	1905	1909
15°	1908	1893	1898
20°	1900	1885	1885
25°	1892	1871	1871
30°	1881	1854	1849
35°	1868	1833	1827
40°	1849	1812	1812
45°	1829	1789	1782
50°	1798	1761	1754
55°	1751	1710	1701
60°	1715	1667	1658
65°	1670	1625	1614
70°	1620	1592	1634
75°	1574	1500	1500
80°	1472	1446	1392
85°	1359	1303	1303

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1829 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	3.3
10°-20°	192.4	9.4
20°-30°	291.1	14.2
30°-40°	350.8	17.1
40°-50°	364.2	17.8
50°-60°	328.0	16.0
60°-70°	253.4	12.4
70°-80°	154.4	7.5
80°-90°	47.7	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°	550.6	26.9
0°-40°	901.4	44.0
0°-60°	1593.6	77.8
0°-90°	2049.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2049.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	708	706	704	704	706	67
15°	685	683	679	679	681	193
25°	637	635	630	628	630	294
35°	568	565	558	556	556	355
45°	480	477	470	468	468	370
55°	373	370	364	363	363	335
65°	262	257	255	252	254	260
75°	151	146	144	143	144	159
85°	44	44	42	40	42	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	705.8	705.8	705.8	705.8	705.8
2.5°	711.1	711.1	709.3	709.3	709.3
5°	707.6	705.8	704.1	704.1	705.8
7.5°	704.1	704.1	700.5	700.5	704.1
10°	700.5	698.8	697.0	697.0	698.8
12.5°	693.5	691.7	688.2	688.2	690.0
15°	684.7	682.9	679.4	679.4	681.2
17.5°	675.9	674.1	670.6	670.6	672.4
20°	663.6	661.8	658.3	656.5	658.3
22.5°	651.3	649.5	644.2	642.5	644.2
25°	637.2	635.4	630.1	628.4	630.1
27.5°	621.3	619.6	614.3	612.5	614.3
30°	605.5	602.0	596.7	593.2	594.9
32.5°	587.9	584.4	577.3	575.6	577.3
35°	568.5	565.0	558.0	556.2	556.2
37.5°	547.4	545.7	538.6	536.9	538.6
40°	526.3	522.8	515.7	514.0	515.7
42.5°	503.4	499.9	492.8	492.8	492.8
45°	480.5	477.0	470.0	468.2	468.2
47.5°	455.9	452.4	445.3	443.6	443.6
50°	429.5	426.0	420.7	418.9	418.9
52.5°	404.8	399.6	392.5	390.8	390.8
55°	373.2	369.6	364.4	362.6	362.6
57.5°	346.8	341.5	338.0	334.4	334.4
60°	318.6	313.3	309.8	308.0	308.0
62.5°	292.2	285.1	281.6	279.9	281.6
65°	262.3	257.0	255.2	251.7	253.5
67.5°	234.1	228.8	227.1	227.1	230.6
70°	205.9	200.7	202.4	197.1	207.7
72.5°	177.8	174.3	174.3	169.0	174.3
75°	151.4	146.1	144.3	142.6	144.3
77.5°	123.2	121.5	119.7	116.2	117.9
80°	95.0	98.6	93.3	88.0	89.8
82.5°	70.4	68.6	65.1	63.4	65.1
85°	44.0	44.0	42.2	40.5	42.2
87.5°	21.1	21.1	19.4	19.4	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)