

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: P601334

Luminaire Tested: 14CGSB-60-L830

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601334
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-60-L830
Description: 1x4 CGSB AT 6000lm 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

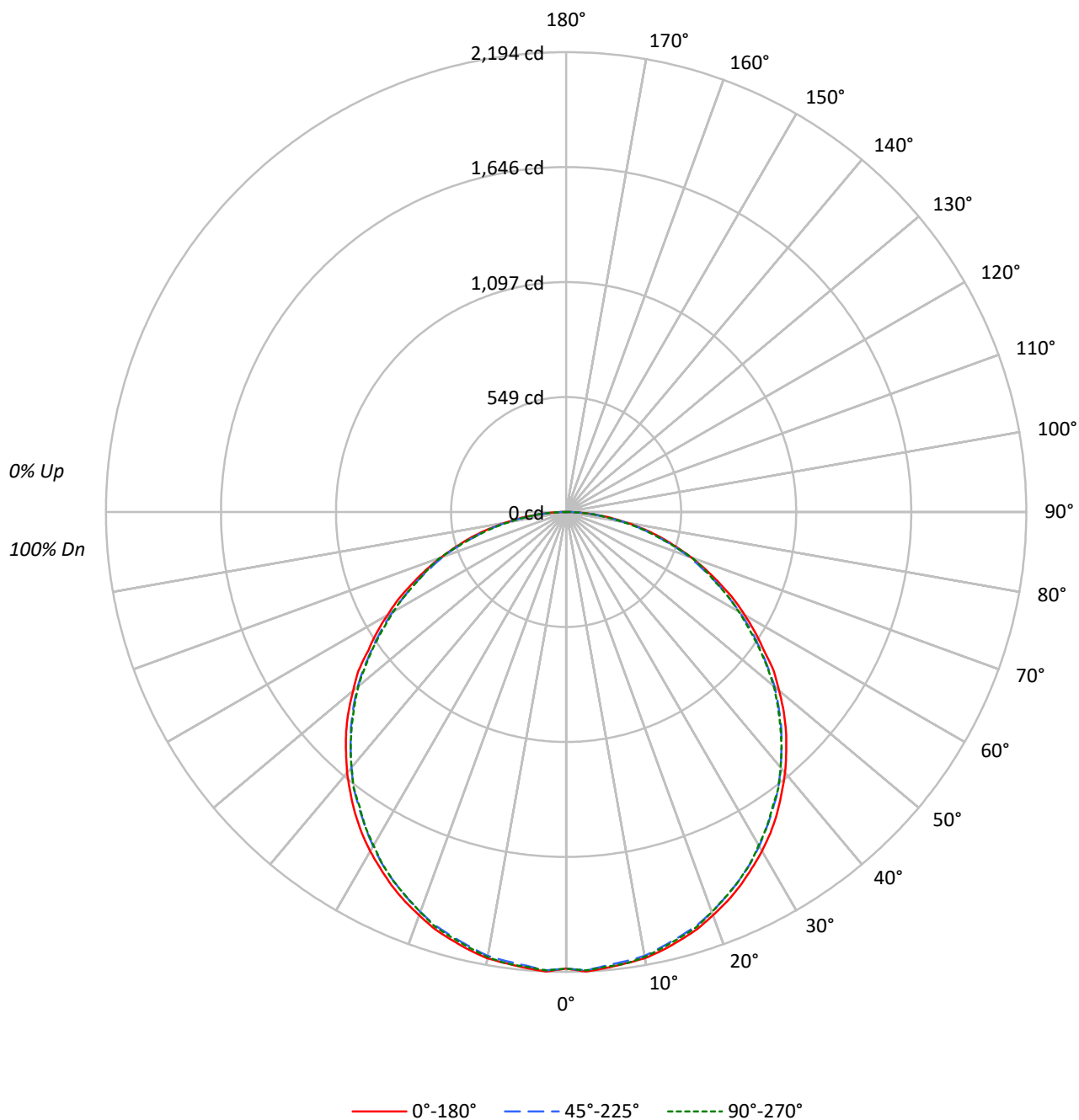
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6322.6 lumens
Efficiency: N/A
Efficacy: 92.6 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): 68.3
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°	5860	5860	5860
5°	5897	5868	5883
10°	5906	5876	5891
15°	5886	5840	5855
20°	5863	5816	5816
25°	5837	5773	5773
30°	5805	5721	5704
35°	5763	5656	5638
40°	5704	5590	5590
45°	5642	5518	5498
50°	5547	5434	5411
55°	5401	5274	5249
60°	5290	5144	5115
65°	5152	5014	4979
70°	4999	4914	5042
75°	4857	4630	4630
80°	4545	4460	4293
85°	4193	4023	4023

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5642 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.1	3.3
10°-20°	593.6	9.4
20°-30°	898.1	14.2
30°-40°	1082.2	17.1
40°-50°	1123.8	17.8
50°-60°	1012.0	16.0
60°-70°	782.0	12.4
70°-80°	476.5	7.5
80°-90°	147.3	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°	1698.8	26.9
0°-40°	2781.0	44.0
0°-60°	4916.8	77.8
0°-90°	6322.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6322.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2178	2178	2178	2178	2178	
5°	2183	2178	2172	2172	2178	208
15°	2113	2107	2096	2096	2102	597
25°	1966	1960	1944	1939	1944	906
35°	1754	1743	1722	1716	1716	1097
45°	1483	1472	1450	1445	1445	1142
55°	1151	1140	1124	1119	1119	1034
65°	809	793	788	777	782	802
75°	467	451	445	440	445	491
85°	136	136	130	125	130	154
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2177.8	2177.8	2177.8	2177.8	2177.8
2.5°	2194.1	2194.1	2188.6	2188.6	2188.6
5°	2183.2	2177.8	2172.3	2172.3	2177.8
7.5°	2172.3	2172.3	2161.5	2161.5	2172.3
10°	2161.5	2156.0	2150.6	2150.6	2156.0
12.5°	2139.7	2134.3	2123.5	2123.5	2128.9
15°	2112.6	2107.2	2096.3	2096.3	2101.7
17.5°	2085.4	2080.0	2069.1	2069.1	2074.6
20°	2047.4	2042.0	2031.1	2025.7	2031.1
22.5°	2009.4	2004.0	1987.7	1982.3	1987.7
25°	1966.0	1960.5	1944.2	1938.8	1944.2
27.5°	1917.1	1911.7	1895.4	1889.9	1895.4
30°	1868.2	1857.3	1841.1	1830.2	1835.6
32.5°	1813.9	1803.0	1781.3	1775.9	1781.3
35°	1754.2	1743.3	1721.6	1716.1	1716.1
37.5°	1689.0	1683.6	1661.8	1656.4	1661.8
40°	1623.8	1613.0	1591.2	1585.8	1591.2
42.5°	1553.2	1542.4	1520.6	1520.6	1520.6
45°	1482.6	1471.8	1450.0	1444.6	1444.6
47.5°	1406.6	1395.7	1374.0	1368.6	1368.6
50°	1325.1	1314.3	1298.0	1292.5	1292.5
52.5°	1249.1	1232.8	1211.1	1205.6	1205.6
55°	1151.3	1140.5	1124.2	1118.8	1118.8
57.5°	1069.9	1053.6	1042.7	1031.9	1031.9
60°	983.0	966.7	955.8	950.4	950.4
62.5°	901.5	879.8	868.9	863.5	868.9
65°	809.2	792.9	787.5	776.6	782.0
67.5°	722.3	706.0	700.6	700.6	711.4
70°	635.4	619.1	624.5	608.3	640.8
72.5°	548.5	537.7	537.7	521.4	537.7
75°	467.1	450.8	445.3	439.9	445.3
77.5°	380.2	374.7	369.3	358.4	363.9
80°	293.3	304.1	287.8	271.5	277.0
82.5°	217.2	211.8	200.9	195.5	200.9
85°	135.8	135.8	130.3	124.9	130.3
87.5°	65.2	65.2	59.7	59.7	65.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)