

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: P601288

Luminaire Tested: 14CGSB-30-L840

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601288
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-30-L840
Description: 1x4 CGSB AT 3000lm 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

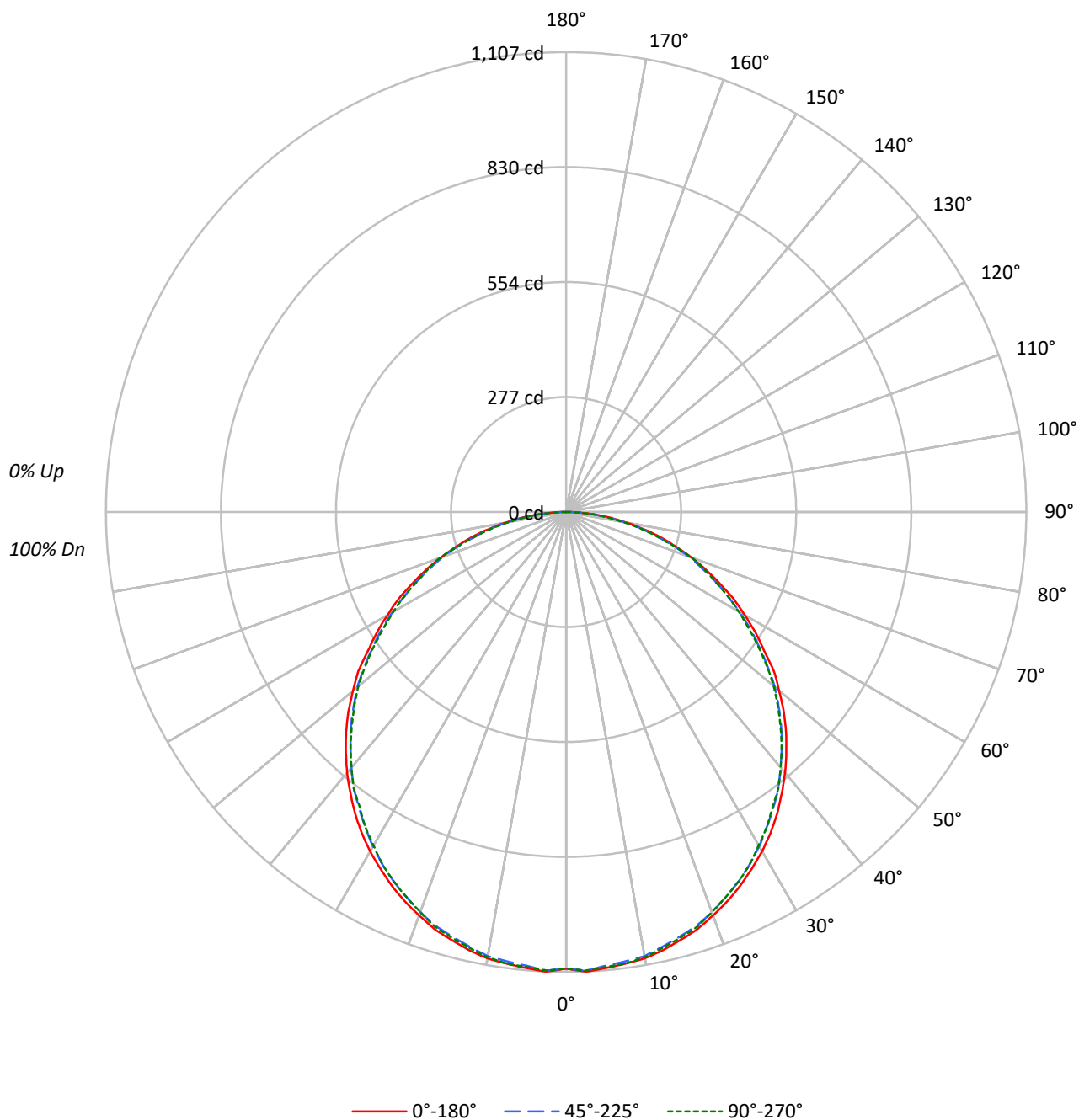
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3190.9 lumens
Efficiency: N/A
Efficacy: 97.6 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): 32.7
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°	2958	2958	2958
5°	2976	2961	2969
10°	2981	2966	2973
15°	2970	2947	2955
20°	2959	2936	2936
25°	2946	2913	2913
30°	2930	2887	2879
35°	2908	2854	2845
40°	2879	2821	2821
45°	2847	2785	2775
50°	2800	2743	2731
55°	2726	2662	2649
60°	2670	2596	2581
65°	2600	2530	2513
70°	2523	2480	2544
75°	2451	2336	2336
80°	2294	2252	2166
85°	2115	2032	2032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2847 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	3.3
10°-20°	299.6	9.4
20°-30°	453.3	14.2
30°-40°	546.2	17.1
40°-50°	567.2	17.8
50°-60°	510.7	16.0
60°-70°	394.6	12.4
70°-80°	240.5	7.5
80°-90°	74.3	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°	857.4	26.9
0°-40°	1403.5	44.0
0°-60°	2481.4	77.8
0°-90°	3190.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3190.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1099	1099	1099	1099	1099	
5°	1102	1099	1096	1096	1099	105
15°	1066	1063	1058	1058	1061	301
25°	992	989	981	978	981	457
35°	885	880	869	866	866	554
45°	748	743	732	729	729	577
55°	581	576	567	565	565	522
65°	408	400	397	392	395	405
75°	236	228	225	222	225	248
85°	68	68	66	63	66	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1099.1	1099.1	1099.1	1099.1	1099.1
2.5°	1107.3	1107.3	1104.6	1104.6	1104.6
5°	1101.8	1099.1	1096.3	1096.3	1099.1
7.5°	1096.3	1096.3	1090.8	1090.8	1096.3
10°	1090.8	1088.1	1085.4	1085.4	1088.1
12.5°	1079.9	1077.1	1071.7	1071.7	1074.4
15°	1066.2	1063.4	1058.0	1058.0	1060.7
17.5°	1052.5	1049.7	1044.3	1044.3	1047.0
20°	1033.3	1030.6	1025.1	1022.3	1025.1
22.5°	1014.1	1011.4	1003.1	1000.4	1003.1
25°	992.2	989.4	981.2	978.5	981.2
27.5°	967.5	964.8	956.5	953.8	956.5
30°	942.8	937.4	929.1	923.7	926.4
32.5°	915.4	910.0	899.0	896.3	899.0
35°	885.3	879.8	868.8	866.1	866.1
37.5°	852.4	849.7	838.7	836.0	838.7
40°	819.5	814.0	803.1	800.3	803.1
42.5°	783.9	778.4	767.4	767.4	767.4
45°	748.2	742.8	731.8	729.1	729.1
47.5°	709.9	704.4	693.4	690.7	690.7
50°	668.8	663.3	655.1	652.3	652.3
52.5°	630.4	622.2	611.2	608.5	608.5
55°	581.1	575.6	567.4	564.6	564.6
57.5°	539.9	531.7	526.2	520.8	520.8
60°	496.1	487.9	482.4	479.6	479.6
62.5°	455.0	444.0	438.5	435.8	438.5
65°	408.4	400.2	397.4	391.9	394.7
67.5°	364.5	356.3	353.6	353.6	359.0
70°	320.7	312.5	315.2	307.0	323.4
72.5°	276.8	271.3	271.3	263.1	271.3
75°	235.7	227.5	224.7	222.0	224.7
77.5°	191.9	189.1	186.4	180.9	183.6
80°	148.0	153.5	145.3	137.0	139.8
82.5°	109.6	106.9	101.4	98.7	101.4
85°	68.5	68.5	65.8	63.0	65.8
87.5°	32.9	32.9	30.1	30.1	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)