

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: P601301

Luminaire Tested: 14CGSB-35-L950

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601301
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-35-L950
Description: 1x4 CGSB AT 3500lm 5000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

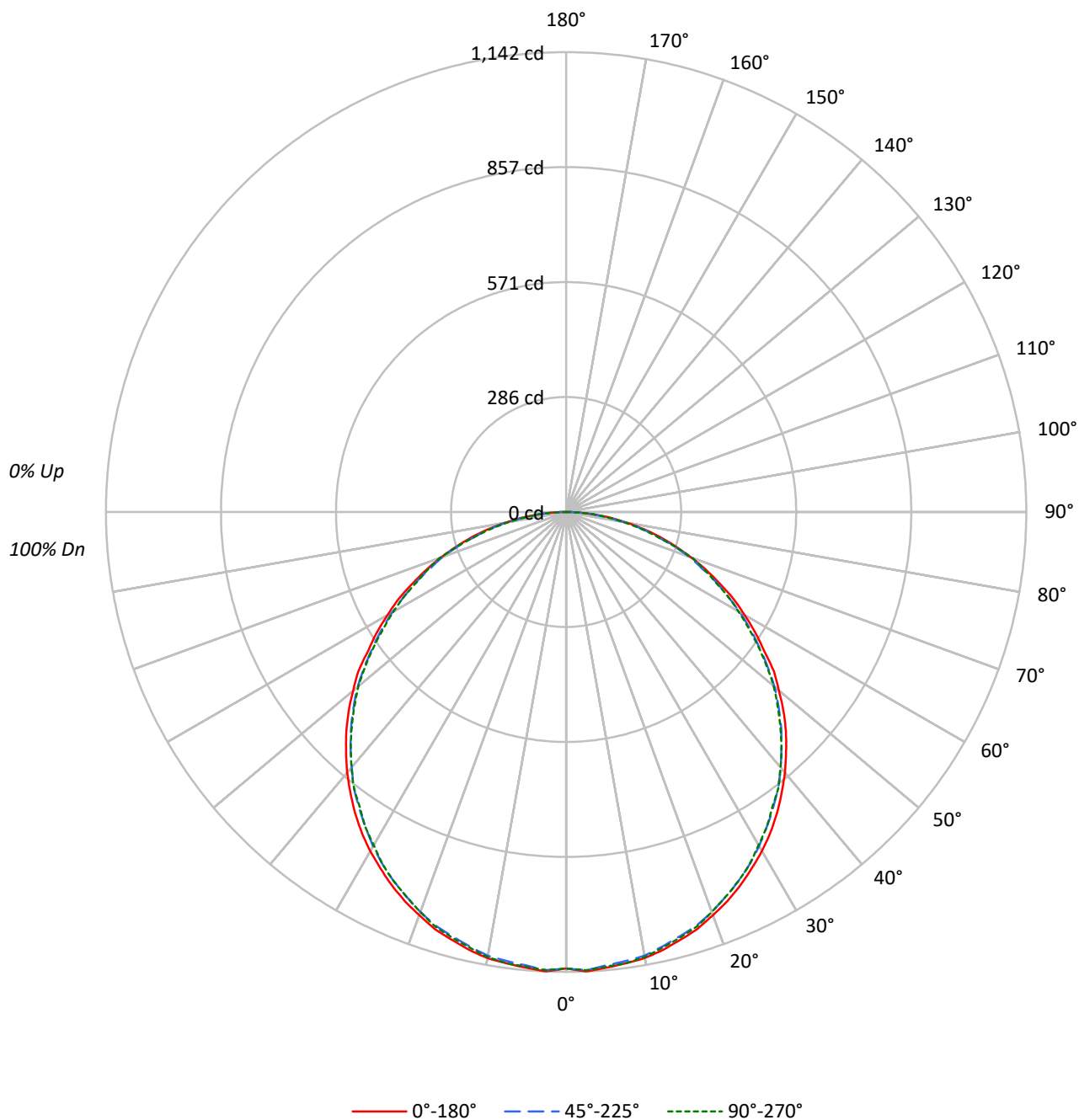
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3289.8 lumens
Efficiency: N/A
Efficacy: 84.4 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): 39
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°	3049	3049	3049
5°	3069	3053	3061
10°	3073	3058	3066
15°	3062	3039	3047
20°	3051	3027	3027
25°	3037	3004	3004
30°	3021	2977	2968
35°	2998	2943	2934
40°	2968	2909	2909
45°	2936	2871	2861
50°	2887	2828	2815
55°	2811	2744	2731
60°	2753	2676	2661
65°	2681	2609	2591
70°	2601	2557	2623
75°	2527	2409	2409
80°	2365	2321	2233
85°	2180	2093	2093

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2936 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	3.3
10°-20°	308.9	9.4
20°-30°	467.3	14.2
30°-40°	563.1	17.1
40°-50°	584.7	17.8
50°-60°	526.6	16.0
60°-70°	406.9	12.4
70°-80°	247.9	7.5
80°-90°	76.6	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°	883.9	26.9
0°-40°	1447.1	44.0
0°-60°	2558.4	77.8
0°-90°	3289.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3289.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1136	1133	1130	1130	1133	108
15°	1099	1096	1091	1091	1094	310
25°	1023	1020	1012	1009	1012	471
35°	913	907	896	893	893	571
45°	772	766	754	752	752	594
55°	599	593	585	582	582	538
65°	421	413	410	404	407	417
75°	243	234	232	229	232	255
85°	71	71	68	65	68	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1133.2	1133.2	1133.2	1133.2	1133.2
2.5°	1141.6	1141.6	1138.8	1138.8	1138.8
5°	1136.0	1133.2	1130.3	1130.3	1133.2
7.5°	1130.3	1130.3	1124.7	1124.7	1130.3
10°	1124.7	1121.9	1119.0	1119.0	1121.9
12.5°	1113.4	1110.6	1104.9	1104.9	1107.7
15°	1099.2	1096.4	1090.8	1090.8	1093.6
17.5°	1085.1	1082.3	1076.6	1076.6	1079.5
20°	1065.3	1062.5	1056.9	1054.0	1056.9
22.5°	1045.6	1042.7	1034.3	1031.4	1034.3
25°	1023.0	1020.1	1011.6	1008.8	1011.6
27.5°	997.5	994.7	986.2	983.4	986.2
30°	972.1	966.4	958.0	952.3	955.1
32.5°	943.8	938.2	926.9	924.0	926.9
35°	912.7	907.1	895.8	893.0	893.0
37.5°	878.8	876.0	864.7	861.9	864.7
40°	844.9	839.3	828.0	825.1	828.0
42.5°	808.2	802.5	791.2	791.2	791.2
45°	771.5	765.8	754.5	751.7	751.7
47.5°	731.9	726.2	714.9	712.1	712.1
50°	689.5	683.9	675.4	672.5	672.5
52.5°	649.9	641.5	630.2	627.3	627.3
55°	599.1	593.4	584.9	582.1	582.1
57.5°	556.7	548.2	542.6	536.9	536.9
60°	511.5	503.0	497.3	494.5	494.5
62.5°	469.1	457.8	452.1	449.3	452.1
65°	421.0	412.6	409.7	404.1	406.9
67.5°	375.8	367.4	364.5	364.5	370.2
70°	330.6	322.1	325.0	316.5	333.4
72.5°	285.4	279.8	279.8	271.3	279.8
75°	243.0	234.5	231.7	228.9	231.7
77.5°	197.8	195.0	192.2	186.5	189.3
80°	152.6	158.2	149.8	141.3	144.1
82.5°	113.0	110.2	104.6	101.7	104.6
85°	70.6	70.6	67.8	65.0	67.8
87.5°	33.9	33.9	31.1	31.1	33.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)