

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: P601299

Luminaire Tested: 14CGSB-35-L935

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601299
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-L935
Description: 1x4 CGSB AT 3500lm 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

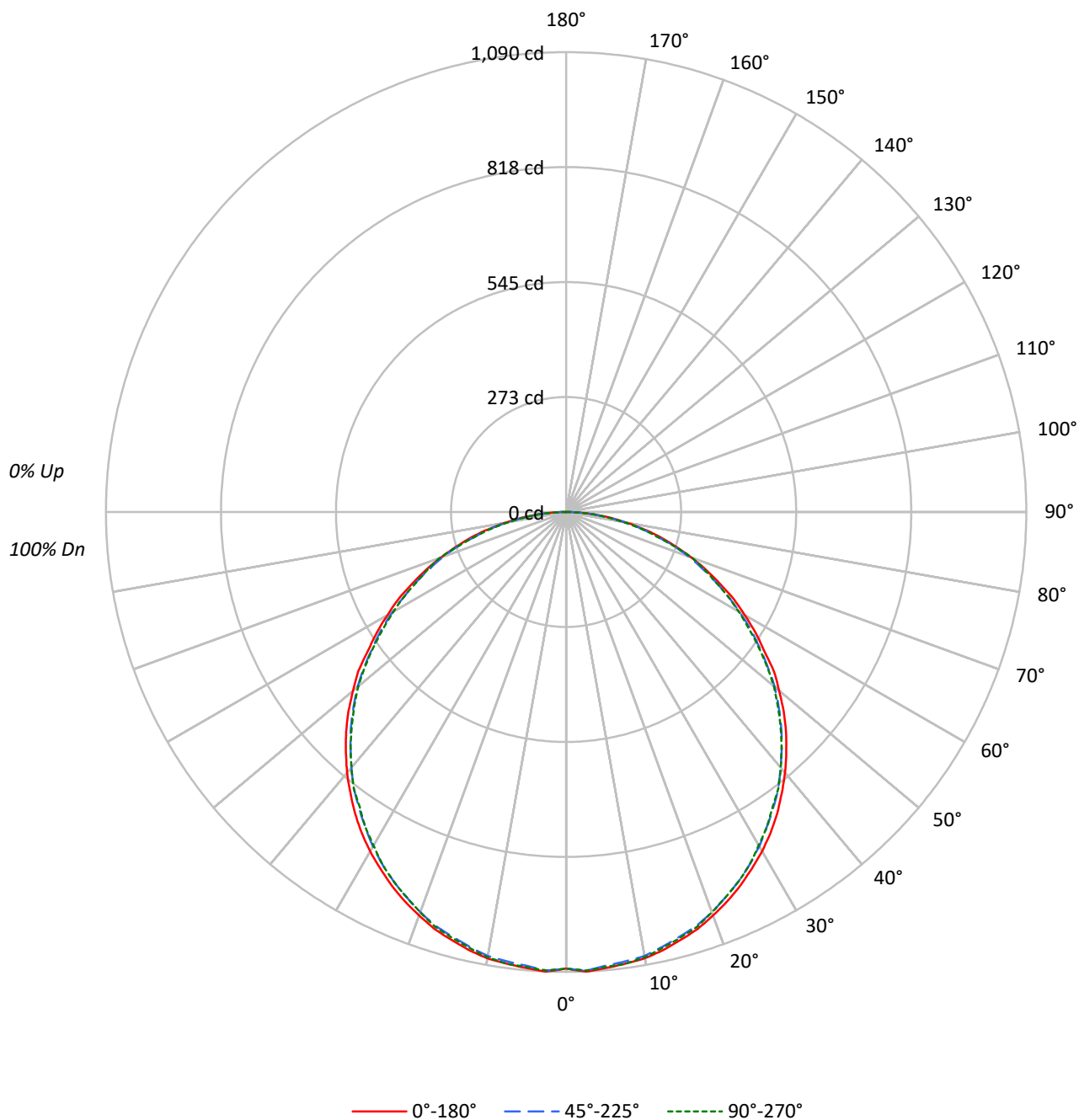
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3142.0 lumens
Efficiency: N/A
Efficacy: 80.6 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): 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

TEST NUMBER: P601299
CATALOG NUMBER: 14CGSB-35-L935

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°	2912	2912	2912
5°	2931	2916	2923
10°	2935	2920	2928
15°	2925	2902	2910
20°	2914	2891	2891
25°	2901	2869	2869
30°	2885	2843	2834
35°	2864	2810	2802
40°	2834	2778	2778
45°	2804	2742	2732
50°	2757	2700	2689
55°	2685	2621	2609
60°	2629	2556	2542
65°	2560	2492	2474
70°	2485	2442	2506
75°	2413	2301	2301
80°	2258	2216	2132
85°	2084	2001	2001

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2804 cd/sqm

TEST NUMBER: P601299
 CATALOG NUMBER: 14CGSB-35-L935

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	3.3
10°-20°	295.0	9.4
20°-30°	446.3	14.2
30°-40°	537.8	17.1
40°-50°	558.5	17.8
50°-60°	502.9	16.0
60°-70°	388.6	12.4
70°-80°	236.8	7.5
80°-90°	73.2	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°	844.2	26.9
0°-40°	1382.0	44.0
0°-60°	2443.4	77.8
0°-90°	3142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3142.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1085	1082	1080	1080	1082	103
15°	1050	1047	1042	1042	1044	296
25°	977	974	966	964	966	450
35°	872	866	856	853	853	545
45°	737	731	721	718	718	568
55°	572	567	559	556	556	514
65°	402	394	391	386	389	399
75°	232	224	221	219	221	244
85°	68	68	65	62	65	76
90°	0	0	0	0	0	

TEST NUMBER: P601299

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1082.2	1082.2	1082.2	1082.2	1082.2
2.5°	1090.3	1090.3	1087.6	1087.6	1087.6
5°	1084.9	1082.2	1079.5	1079.5	1082.2
7.5°	1079.5	1079.5	1074.1	1074.1	1079.5
10°	1074.1	1071.4	1068.7	1068.7	1071.4
12.5°	1063.3	1060.6	1055.2	1055.2	1057.9
15°	1049.8	1047.1	1041.7	1041.7	1044.4
17.5°	1036.3	1033.7	1028.3	1028.3	1031.0
20°	1017.5	1014.8	1009.4	1006.7	1009.4
22.5°	998.6	995.9	987.8	985.1	987.8
25°	977.0	974.3	966.2	963.5	966.2
27.5°	952.7	950.0	941.9	939.2	941.9
30°	928.4	923.0	914.9	909.5	912.2
32.5°	901.4	896.0	885.2	882.5	885.2
35°	871.7	866.3	855.5	852.8	852.8
37.5°	839.3	836.6	825.8	823.1	825.8
40°	806.9	801.6	790.8	788.1	790.8
42.5°	771.9	766.5	755.7	755.7	755.7
45°	736.8	731.4	720.6	717.9	717.9
47.5°	699.0	693.6	682.8	680.1	680.1
50°	658.5	653.1	645.0	642.3	642.3
52.5°	620.7	612.6	601.8	599.1	599.1
55°	572.2	566.8	558.7	556.0	556.0
57.5°	531.7	523.6	518.2	512.8	512.8
60°	488.5	480.4	475.0	472.3	472.3
62.5°	448.0	437.2	431.8	429.1	431.8
65°	402.1	394.0	391.3	385.9	388.6
67.5°	358.9	350.8	348.1	348.1	353.5
70°	315.8	307.7	310.4	302.3	318.5
72.5°	272.6	267.2	267.2	259.1	267.2
75°	232.1	224.0	221.3	218.6	221.3
77.5°	188.9	186.2	183.5	178.1	180.8
80°	145.7	151.1	143.0	134.9	137.6
82.5°	108.0	105.3	99.9	97.2	99.9
85°	67.5	67.5	64.8	62.1	64.8
87.5°	32.4	32.4	29.7	29.7	32.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)