

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: P601298

Luminaire Tested: 14CGSB-35-L930

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601298
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-L930
Description: 1x4 CGSB AT 3500lm 3000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

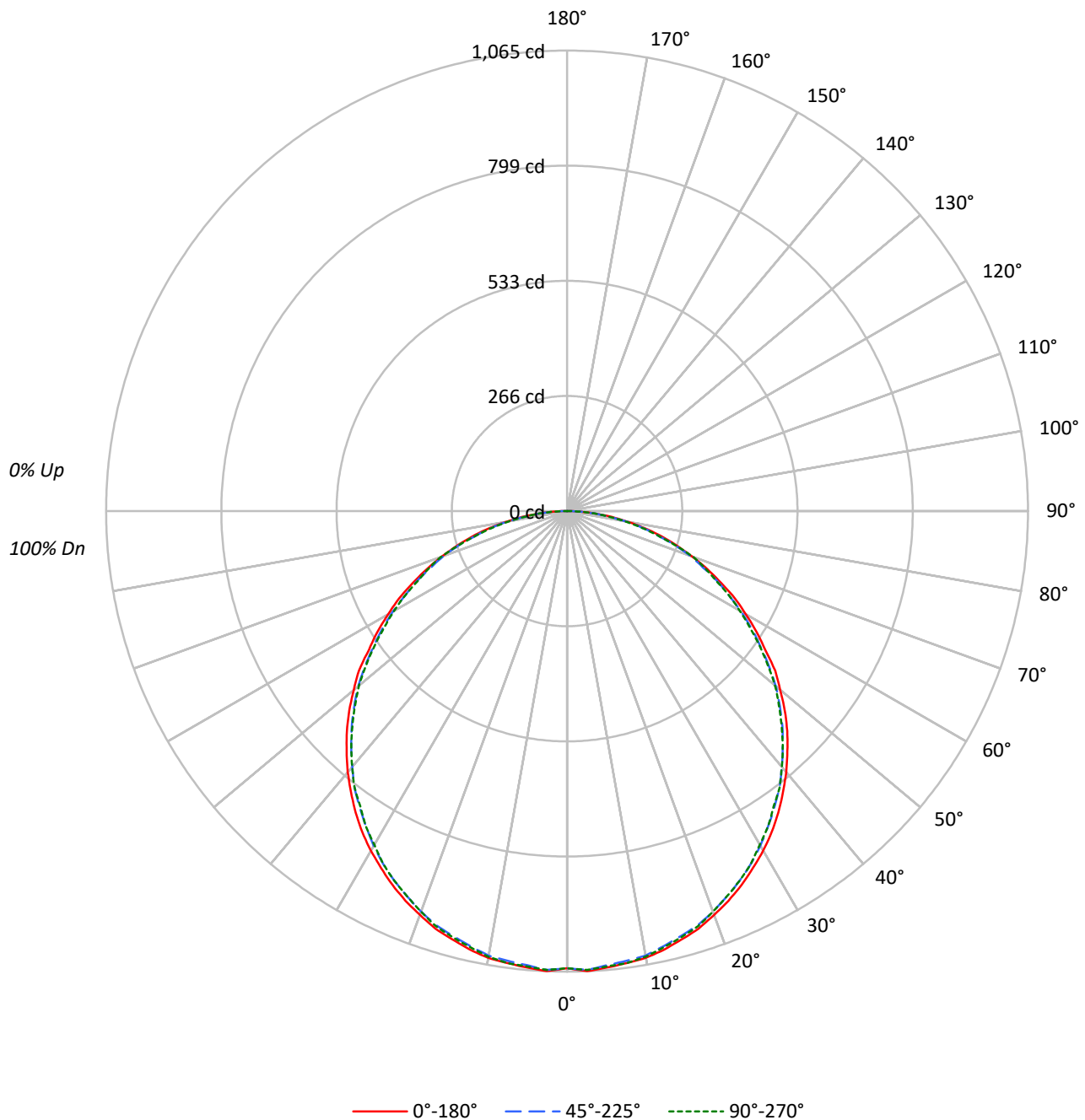
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3068.1 lumens
Efficiency: N/A
Efficacy: 78.7 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°	2844	2844	2844
5°	2862	2847	2855
10°	2866	2852	2859
15°	2856	2834	2841
20°	2845	2822	2822
25°	2833	2801	2801
30°	2817	2776	2768
35°	2796	2744	2736
40°	2768	2712	2712
45°	2738	2678	2668
50°	2692	2637	2626
55°	2621	2559	2547
60°	2567	2496	2482
65°	2500	2433	2416
70°	2426	2385	2447
75°	2356	2247	2247
80°	2205	2165	2083
85°	2035	1951	1951

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2738 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	3.3
10°-20°	288.0	9.4
20°-30°	435.8	14.2
30°-40°	525.2	17.1
40°-50°	545.3	17.8
50°-60°	491.1	16.0
60°-70°	379.5	12.4
70°-80°	231.2	7.5
80°-90°	71.5	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°	824.3	26.9
0°-40°	1349.5	44.0
0°-60°	2385.9	77.8
0°-90°	3068.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3068.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1059	1057	1054	1054	1057	101
15°	1025	1022	1017	1017	1020	290
25°	954	951	943	941	943	440
35°	851	846	835	833	833	532
45°	719	714	704	701	701	554
55°	559	553	546	543	543	502
65°	393	385	382	377	380	389
75°	227	219	216	214	216	238
85°	66	66	63	61	63	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1056.8	1056.8	1056.8	1056.8	1056.8
2.5°	1064.7	1064.7	1062.0	1062.0	1062.0
5°	1059.4	1056.8	1054.1	1054.1	1056.8
7.5°	1054.1	1054.1	1048.9	1048.9	1054.1
10°	1048.9	1046.2	1043.6	1043.6	1046.2
12.5°	1038.3	1035.7	1030.4	1030.4	1033.0
15°	1025.1	1022.5	1017.2	1017.2	1019.9
17.5°	1012.0	1009.3	1004.1	1004.1	1006.7
20°	993.5	990.9	985.6	983.0	985.6
22.5°	975.1	972.4	964.5	961.9	964.5
25°	954.0	951.4	943.4	940.8	943.4
27.5°	930.3	927.6	919.7	917.1	919.7
30°	906.6	901.3	893.4	888.1	890.7
32.5°	880.2	874.9	864.4	861.8	864.4
35°	851.2	845.9	835.4	832.8	832.8
37.5°	819.6	817.0	806.4	803.8	806.4
40°	788.0	782.7	772.1	769.5	772.1
42.5°	753.7	748.4	737.9	737.9	737.9
45°	719.4	714.2	703.6	701.0	701.0
47.5°	682.5	677.3	666.7	664.1	664.1
50°	643.0	637.7	629.8	627.2	627.2
52.5°	606.1	598.2	587.7	585.0	585.0
55°	558.7	553.4	545.5	542.9	542.9
57.5°	519.2	511.3	506.0	500.7	500.7
60°	477.0	469.1	463.8	461.2	461.2
62.5°	437.5	426.9	421.7	419.0	421.7
65°	392.7	384.8	382.1	376.9	379.5
67.5°	350.5	342.6	340.0	340.0	345.2
70°	308.3	300.4	303.1	295.2	311.0
72.5°	266.2	260.9	260.9	253.0	260.9
75°	226.6	218.7	216.1	213.5	216.1
77.5°	184.5	181.8	179.2	173.9	176.6
80°	142.3	147.6	139.7	131.8	134.4
82.5°	105.4	102.8	97.5	94.9	97.5
85°	65.9	65.9	63.2	60.6	63.2
87.5°	31.6	31.6	29.0	29.0	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)