

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: P601295

Luminaire Tested: 14CGSB-35-L835

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601295
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-L835
Description: 1x4 CGSB AT 3500lm 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

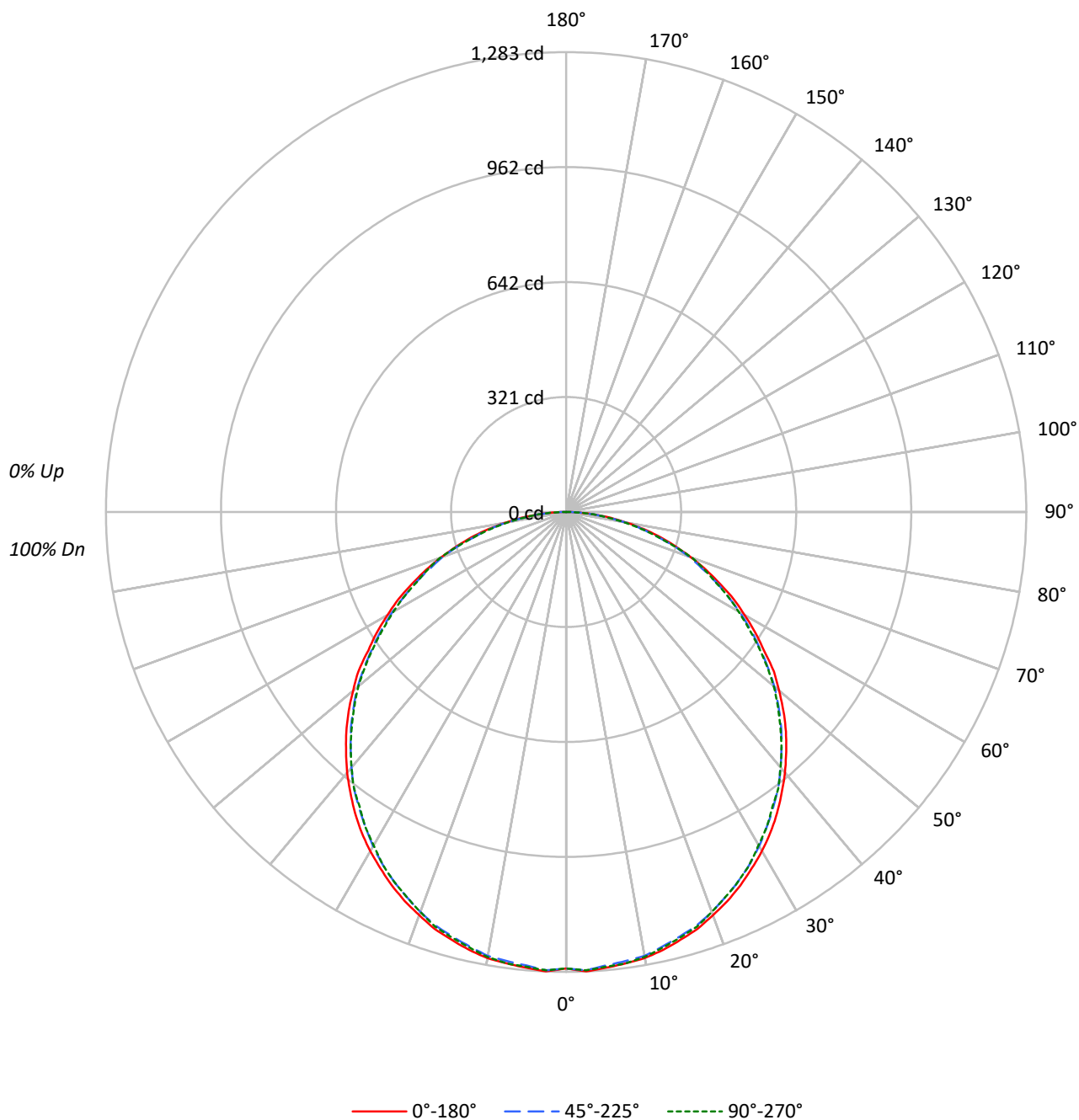
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3696.4 lumens
Efficiency: N/A
Efficacy: 94.8 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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	103	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	33	28		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3426	3426	3426
5°	3448	3431	3439
10°	3453	3436	3444
15°	3441	3414	3423
20°	3428	3401	3401
25°	3413	3375	3375
30°	3394	3345	3335
35°	3369	3306	3296
40°	3335	3268	3268
45°	3299	3226	3214
50°	3243	3177	3164
55°	3158	3083	3069
60°	3093	3007	2990
65°	3012	2932	2911
70°	2923	2873	2948
75°	2839	2707	2707
80°	2658	2608	2509
85°	2452	2353	2353

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3299 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.1	3.3
10°-20°	347.0	9.4
20°-30°	525.1	14.2
30°-40°	632.7	17.1
40°-50°	657.0	17.8
50°-60°	591.7	16.0
60°-70°	457.2	12.4
70°-80°	278.6	7.5
80°-90°	86.1	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°	993.2	26.9
0°-40°	1625.9	44.0
0°-60°	2874.6	77.8
0°-90°	3696.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3696.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1273	1273	1273	1273	1273	
5°	1276	1273	1270	1270	1273	121
15°	1235	1232	1226	1226	1229	349
25°	1149	1146	1137	1134	1137	530
35°	1026	1019	1006	1003	1003	641
45°	867	860	848	845	845	668
55°	673	667	657	654	654	605
65°	473	464	460	454	457	469
75°	273	264	260	257	260	287
85°	79	79	76	73	76	90
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1273.2	1273.2	1273.2	1273.2	1273.2
2.5°	1282.7	1282.7	1279.6	1279.6	1279.6
5°	1276.4	1273.2	1270.0	1270.0	1273.2
7.5°	1270.0	1270.0	1263.7	1263.7	1270.0
10°	1263.7	1260.5	1257.3	1257.3	1260.5
12.5°	1251.0	1247.8	1241.5	1241.5	1244.6
15°	1235.1	1231.9	1225.6	1225.6	1228.8
17.5°	1219.2	1216.1	1209.7	1209.7	1212.9
20°	1197.0	1193.8	1187.5	1184.3	1187.5
22.5°	1174.8	1171.6	1162.1	1158.9	1162.1
25°	1149.4	1146.2	1136.7	1133.5	1136.7
27.5°	1120.8	1117.6	1108.1	1104.9	1108.1
30°	1092.2	1085.9	1076.4	1070.0	1073.2
32.5°	1060.5	1054.1	1041.4	1038.3	1041.4
35°	1025.6	1019.2	1006.5	1003.3	1003.3
37.5°	987.5	984.3	971.6	968.4	971.6
40°	949.4	943.0	930.3	927.1	930.3
42.5°	908.1	901.7	889.0	889.0	889.0
45°	866.8	860.4	847.7	844.6	844.6
47.5°	822.3	816.0	803.3	800.1	800.1
50°	774.7	768.4	758.8	755.7	755.7
52.5°	730.3	720.7	708.0	704.9	704.9
55°	673.1	666.8	657.2	654.1	654.1
57.5°	625.5	616.0	609.6	603.3	603.3
60°	574.7	565.2	558.8	555.6	555.6
62.5°	527.1	514.4	508.0	504.8	508.0
65°	473.1	463.6	460.4	454.0	457.2
67.5°	422.3	412.8	409.6	409.6	415.9
70°	371.5	362.0	365.1	355.6	374.7
72.5°	320.7	314.3	314.3	304.8	314.3
75°	273.1	263.5	260.4	257.2	260.4
77.5°	222.3	219.1	215.9	209.6	212.7
80°	171.5	177.8	168.3	158.8	161.9
82.5°	127.0	123.8	117.5	114.3	117.5
85°	79.4	79.4	76.2	73.0	76.2
87.5°	38.1	38.1	34.9	34.9	38.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)