

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: P601296

Luminaire Tested: 14CGSB-35-L840

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601296
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-L840
Description: 1x4 CGSB AT 3500lm 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

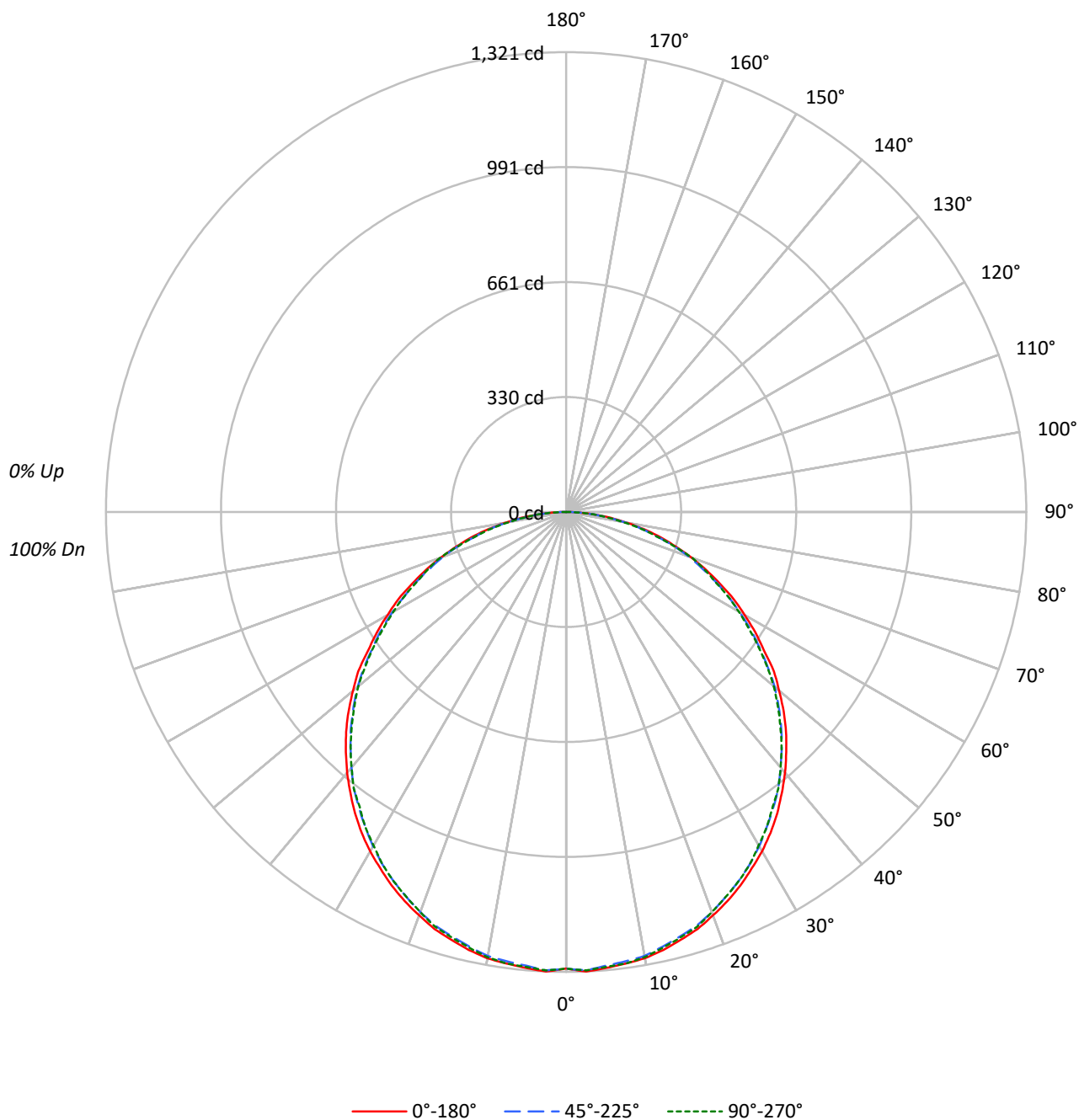
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3807.3 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): 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: P601296
CATALOG NUMBER: 14CGSB-35-L840

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°	3529	3529	3529
5°	3551	3534	3542
10°	3557	3539	3548
15°	3544	3517	3526
20°	3531	3503	3503
25°	3515	3476	3476
30°	3496	3445	3435
35°	3470	3406	3395
40°	3435	3366	3366
45°	3398	3323	3311
50°	3341	3272	3258
55°	3253	3176	3161
60°	3186	3098	3080
65°	3103	3019	2998
70°	3010	2959	3036
75°	2924	2789	2789
80°	2737	2686	2585
85°	2526	2424	2424

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3398 cd/sqm

TEST NUMBER: P601296
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	3.3
10°-20°	357.4	9.4
20°-30°	540.8	14.2
30°-40°	651.7	17.1
40°-50°	676.7	17.8
50°-60°	609.4	16.0
60°-70°	470.9	12.4
70°-80°	286.9	7.5
80°-90°	88.7	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°	1023.0	26.9
0°-40°	1674.7	44.0
0°-60°	2960.8	77.8
0°-90°	3807.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3807.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1311	1311	1311	1311	1311	
5°	1315	1311	1308	1308	1311	125
15°	1272	1269	1262	1262	1266	359
25°	1184	1181	1171	1168	1171	546
35°	1056	1050	1037	1033	1033	660
45°	893	886	873	870	870	688
55°	693	687	677	674	674	623
65°	487	478	474	468	471	483
75°	281	271	268	265	268	295
85°	82	82	78	75	78	93
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1311.4	1311.4	1311.4	1311.4	1311.4
2.5°	1321.2	1321.2	1317.9	1317.9	1317.9
5°	1314.7	1311.4	1308.1	1308.1	1311.4
7.5°	1308.1	1308.1	1301.6	1301.6	1308.1
10°	1301.6	1298.3	1295.1	1295.1	1298.3
12.5°	1288.5	1285.2	1278.7	1278.7	1282.0
15°	1272.2	1268.9	1262.4	1262.4	1265.6
17.5°	1255.8	1252.5	1246.0	1246.0	1249.3
20°	1232.9	1229.6	1223.1	1219.8	1223.1
22.5°	1210.0	1206.8	1196.9	1193.7	1196.9
25°	1183.9	1180.6	1170.8	1167.5	1170.8
27.5°	1154.4	1151.2	1141.3	1138.1	1141.3
30°	1125.0	1118.5	1108.6	1102.1	1105.4
32.5°	1092.3	1085.8	1072.7	1069.4	1072.7
35°	1056.3	1049.8	1036.7	1033.4	1033.4
37.5°	1017.1	1013.8	1000.7	997.5	1000.7
40°	977.8	971.3	958.2	954.9	958.2
42.5°	935.3	928.8	915.7	915.7	915.7
45°	892.8	886.3	873.2	869.9	869.9
47.5°	847.0	840.5	827.4	824.1	824.1
50°	798.0	791.4	781.6	778.3	778.3
52.5°	752.2	742.4	729.3	726.0	726.0
55°	693.3	686.8	677.0	673.7	673.7
57.5°	644.3	634.4	627.9	621.4	621.4
60°	591.9	582.1	575.6	572.3	572.3
62.5°	542.9	529.8	523.3	520.0	523.3
65°	487.3	477.5	474.2	467.7	470.9
67.5°	435.0	425.1	421.9	421.9	428.4
70°	382.6	372.8	376.1	366.3	385.9
72.5°	330.3	323.8	323.8	314.0	323.8
75°	281.2	271.4	268.2	264.9	268.2
77.5°	228.9	225.7	222.4	215.8	219.1
80°	176.6	183.1	173.3	163.5	166.8
82.5°	130.8	127.5	121.0	117.7	121.0
85°	81.8	81.8	78.5	75.2	78.5
87.5°	39.2	39.2	36.0	36.0	39.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)