

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: P601311

Luminaire Tested: 14CGSB-45-L835

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601311
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-45-L835
Description: 1x4 CGSB AT 4500lm 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

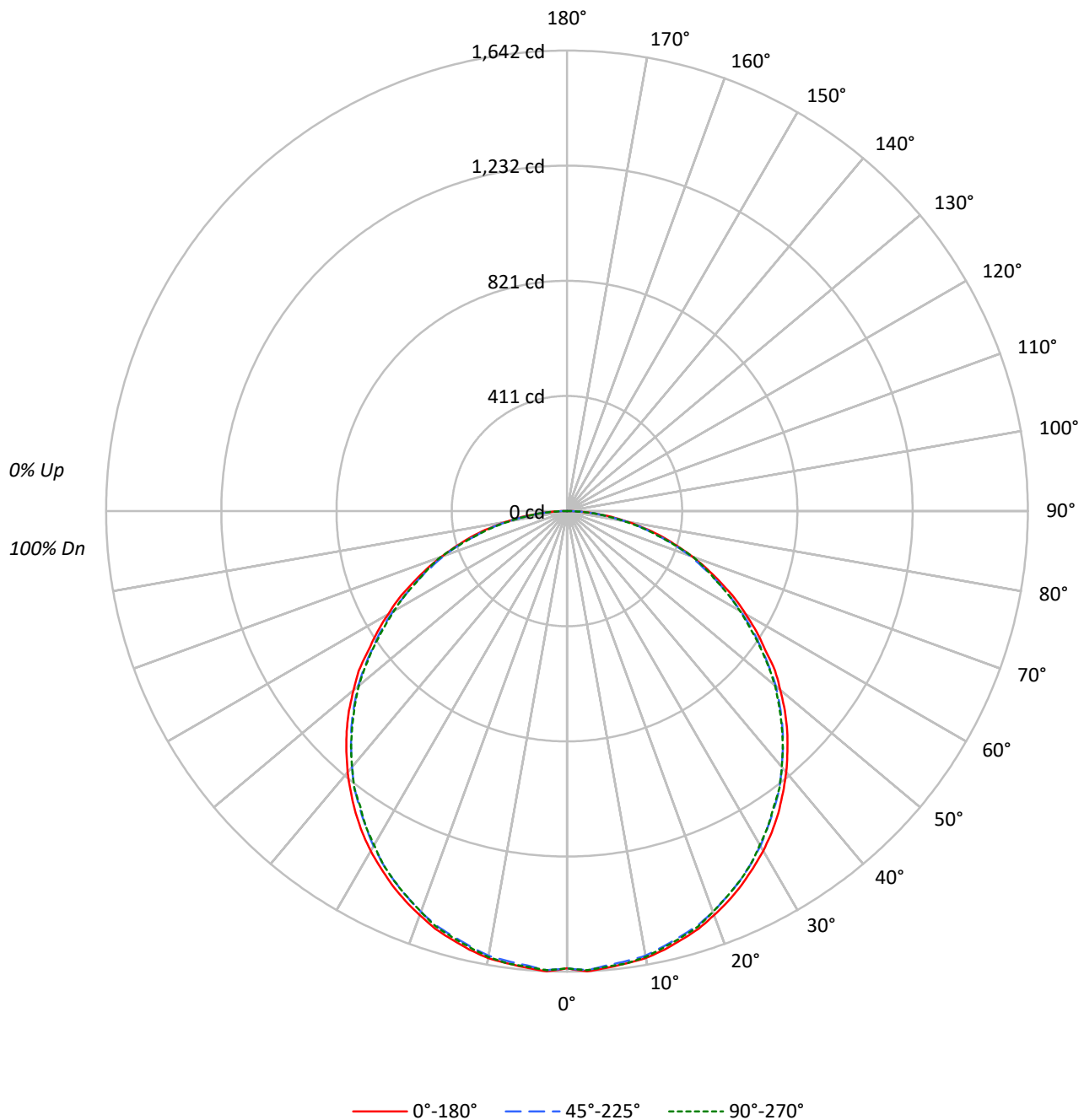
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4732.9 lumens
Efficiency: N/A
Efficacy: 95.6 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): 49.5
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: P601311
CATALOG NUMBER: 14CGSB-45-L835

Luminous Intensity Polar Plot



TEST NUMBER: P601311

CATALOG NUMBER: 14CGSB-45-L835

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°	4387	4387	4387
5°	4415	4393	4404
10°	4421	4399	4410
15°	4406	4372	4383
20°	4389	4354	4354
25°	4370	4321	4321
30°	4346	4282	4270
35°	4314	4233	4220
40°	4270	4184	4184
45°	4223	4131	4115
50°	4153	4068	4051
55°	4044	3948	3929
60°	3960	3851	3829
65°	3857	3754	3727
70°	3742	3678	3774
75°	3635	3466	3466
80°	3402	3340	3212
85°	3137	3013	3013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4223 cd/sqm

TEST NUMBER: P601311
 CATALOG NUMBER: 14CGSB-45-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	3.3
10°-20°	444.3	9.4
20°-30°	672.3	14.2
30°-40°	810.1	17.1
40°-50°	841.2	17.8
50°-60°	757.5	16.0
60°-70°	585.3	12.4
70°-80°	356.7	7.5
80°-90°	110.3	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°	1271.7	26.9
0°-40°	2081.8	44.0
0°-60°	3680.6	77.8
0°-90°	4732.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4732.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1630	1630	1630	1630	1630	
5°	1634	1630	1626	1626	1630	155
15°	1581	1577	1569	1569	1573	447
25°	1472	1468	1455	1451	1455	678
35°	1313	1305	1289	1285	1285	821
45°	1110	1102	1085	1081	1081	855
55°	862	854	842	838	838	774
65°	606	594	590	581	585	601
75°	350	337	333	329	333	367
85°	102	102	98	94	98	115
90°	0	0	0	0	0	

TEST NUMBER: P601311

CATALOG NUMBER: 14CGSB-45-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1630.2	1630.2	1630.2	1630.2	1630.2
2.5°	1642.4	1642.4	1638.3	1638.3	1638.3
5°	1634.3	1630.2	1626.1	1626.1	1630.2
7.5°	1626.1	1626.1	1618.0	1618.0	1626.1
10°	1618.0	1613.9	1609.9	1609.9	1613.9
12.5°	1601.7	1597.7	1589.6	1589.6	1593.6
15°	1581.4	1577.4	1569.2	1569.2	1573.3
17.5°	1561.1	1557.0	1548.9	1548.9	1553.0
20°	1532.6	1528.6	1520.4	1516.4	1520.4
22.5°	1504.2	1500.1	1487.9	1483.9	1487.9
25°	1471.7	1467.6	1455.4	1451.3	1455.4
27.5°	1435.1	1431.0	1418.8	1414.7	1418.8
30°	1398.5	1390.3	1378.2	1370.0	1374.1
32.5°	1357.8	1349.7	1333.4	1329.4	1333.4
35°	1313.1	1305.0	1288.7	1284.6	1284.6
37.5°	1264.3	1260.3	1244.0	1239.9	1244.0
40°	1215.5	1207.4	1191.1	1187.1	1191.1
42.5°	1162.7	1154.6	1138.3	1138.3	1138.3
45°	1109.8	1101.7	1085.4	1081.4	1081.4
47.5°	1052.9	1044.8	1028.5	1024.5	1024.5
50°	991.9	983.8	971.6	967.6	967.6
52.5°	935.0	922.8	906.6	902.5	902.5
55°	861.9	853.7	841.5	837.5	837.5
57.5°	800.9	788.7	780.5	772.4	772.4
60°	735.8	723.6	715.5	711.4	711.4
62.5°	674.8	658.6	650.5	646.4	650.5
65°	605.7	593.5	589.5	581.3	585.4
67.5°	540.7	528.5	524.4	524.4	532.6
70°	475.6	463.4	467.5	455.3	479.7
72.5°	410.6	402.5	402.5	390.3	402.5
75°	349.6	337.4	333.4	329.3	333.4
77.5°	284.6	280.5	276.4	268.3	272.4
80°	219.5	227.7	215.5	203.3	207.3
82.5°	162.6	158.5	150.4	146.4	150.4
85°	101.6	101.6	97.6	93.5	97.6
87.5°	48.8	48.8	44.7	44.7	48.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)