

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: P601313

Luminaire Tested: 14CGSB-45-L850

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601313
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-L850
Description: 1x4 CGSB AT 4500lm 5000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

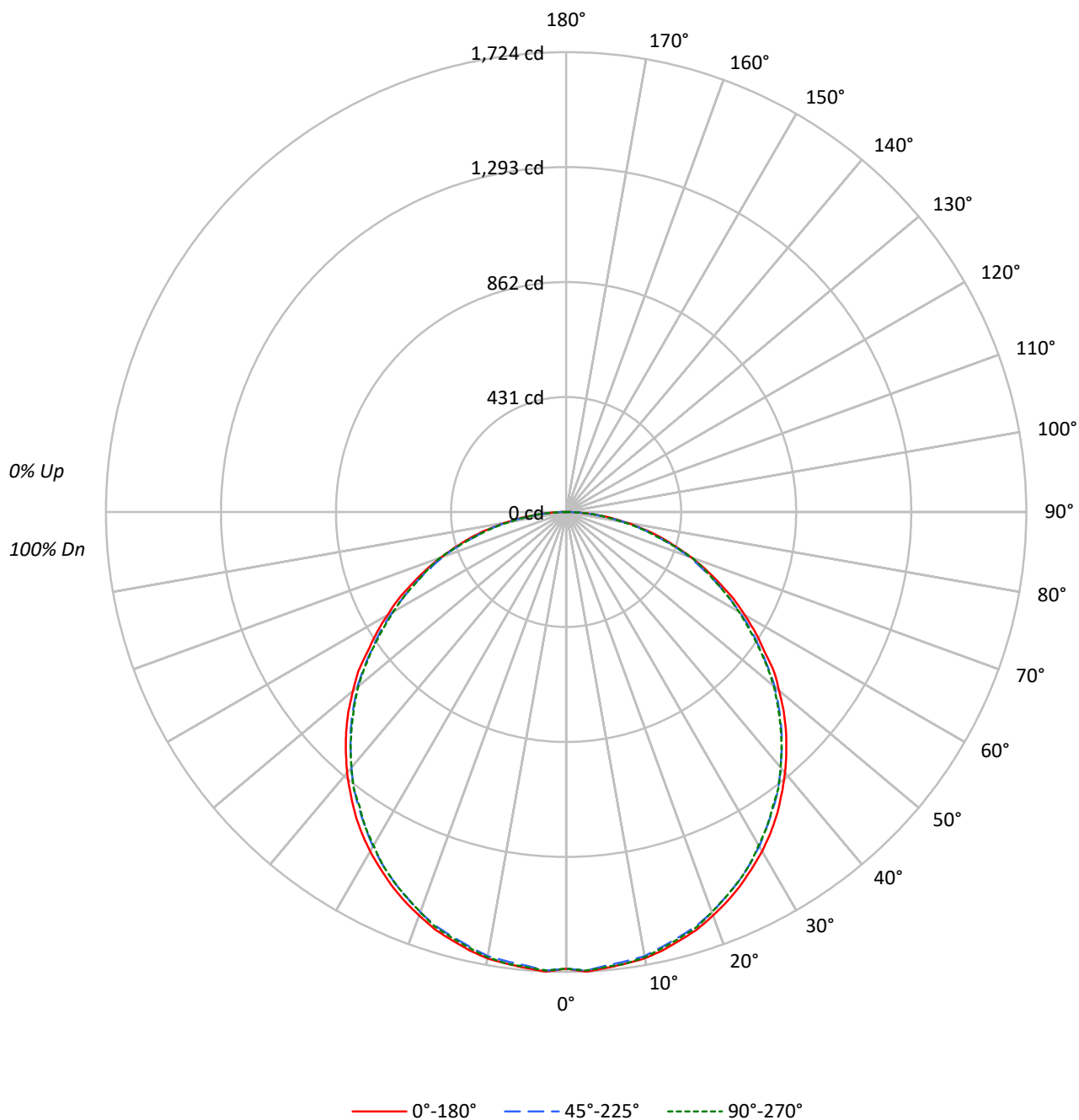
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4969.5 lumens
Efficiency: N/A
Efficacy: 100.4 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: P601313
CATALOG NUMBER: 14CGSB-45-L850

Luminous Intensity Polar Plot



TEST NUMBER: P601313

CATALOG NUMBER: 14CGSB-45-L850

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°	4606	4606	4606
5°	4635	4612	4624
10°	4642	4619	4630
15°	4626	4590	4602
20°	4609	4572	4572
25°	4588	4537	4537
30°	4563	4497	4483
35°	4529	4445	4431
40°	4483	4393	4393
45°	4435	4337	4321
50°	4360	4271	4253
55°	4245	4145	4125
60°	4158	4043	4020
65°	4050	3941	3914
70°	3929	3862	3963
75°	3817	3639	3639
80°	3572	3505	3374
85°	3294	3162	3162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4435 cd/sqm

TEST NUMBER: P601313
 CATALOG NUMBER: 14CGSB-45-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.8	3.3
10°-20°	466.6	9.4
20°-30°	705.9	14.2
30°-40°	850.6	17.1
40°-50°	883.3	17.8
50°-60°	795.4	16.0
60°-70°	614.6	12.4
70°-80°	374.5	7.5
80°-90°	115.8	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°	1335.3	26.9
0°-40°	2185.9	44.0
0°-60°	3864.6	77.8
0°-90°	4969.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4969.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1712	1712	1712	1712	1712	
5°	1716	1712	1707	1707	1712	163
15°	1660	1656	1648	1648	1652	469
25°	1545	1541	1528	1524	1528	712
35°	1379	1370	1353	1349	1349	862
45°	1165	1157	1140	1136	1136	898
55°	905	896	884	879	879	813
65°	636	623	619	610	615	631
75°	367	354	350	346	350	386
85°	107	107	102	98	102	121
90°	0	0	0	0	0	

TEST NUMBER: P601313

CATALOG NUMBER: 14CGSB-45-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1711.7	1711.7	1711.7	1711.7	1711.7
2.5°	1724.5	1724.5	1720.3	1720.3	1720.3
5°	1716.0	1711.7	1707.4	1707.4	1711.7
7.5°	1707.4	1707.4	1698.9	1698.9	1707.4
10°	1698.9	1694.6	1690.4	1690.4	1694.6
12.5°	1681.8	1677.6	1669.0	1669.0	1673.3
15°	1660.5	1656.2	1647.7	1647.7	1652.0
17.5°	1639.1	1634.9	1626.3	1626.3	1630.6
20°	1609.3	1605.0	1596.5	1592.2	1596.5
22.5°	1579.4	1575.1	1562.3	1558.0	1562.3
25°	1545.2	1541.0	1528.2	1523.9	1528.2
27.5°	1506.8	1502.6	1489.7	1485.5	1489.7
30°	1468.4	1459.9	1447.1	1438.5	1442.8
32.5°	1425.7	1417.2	1400.1	1395.8	1400.1
35°	1378.8	1370.2	1353.2	1348.9	1348.9
37.5°	1327.5	1323.3	1306.2	1301.9	1306.2
40°	1276.3	1267.8	1250.7	1246.4	1250.7
42.5°	1220.8	1212.3	1195.2	1195.2	1195.2
45°	1165.3	1156.8	1139.7	1135.5	1135.5
47.5°	1105.6	1097.0	1080.0	1075.7	1075.7
50°	1041.5	1033.0	1020.2	1015.9	1015.9
52.5°	981.8	969.0	951.9	947.6	947.6
55°	904.9	896.4	883.6	879.3	879.3
57.5°	840.9	828.1	819.6	811.0	811.0
60°	772.6	759.8	751.3	747.0	747.0
62.5°	708.6	691.5	683.0	678.7	683.0
65°	636.0	623.2	618.9	610.4	614.7
67.5°	567.7	554.9	550.7	550.7	559.2
70°	499.4	486.6	490.9	478.1	503.7
72.5°	431.1	422.6	422.6	409.8	422.6
75°	367.1	354.3	350.0	345.8	350.0
77.5°	298.8	294.5	290.3	281.7	286.0
80°	230.5	239.0	226.2	213.4	217.7
82.5°	170.7	166.5	157.9	153.7	157.9
85°	106.7	106.7	102.4	98.2	102.4
87.5°	51.2	51.2	47.0	47.0	51.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)