

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: P601330

Luminaire Tested: 14CGSB-55-L930

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601330
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-55-L930
Description: 1x4 CGSB AT 5500lm 3000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

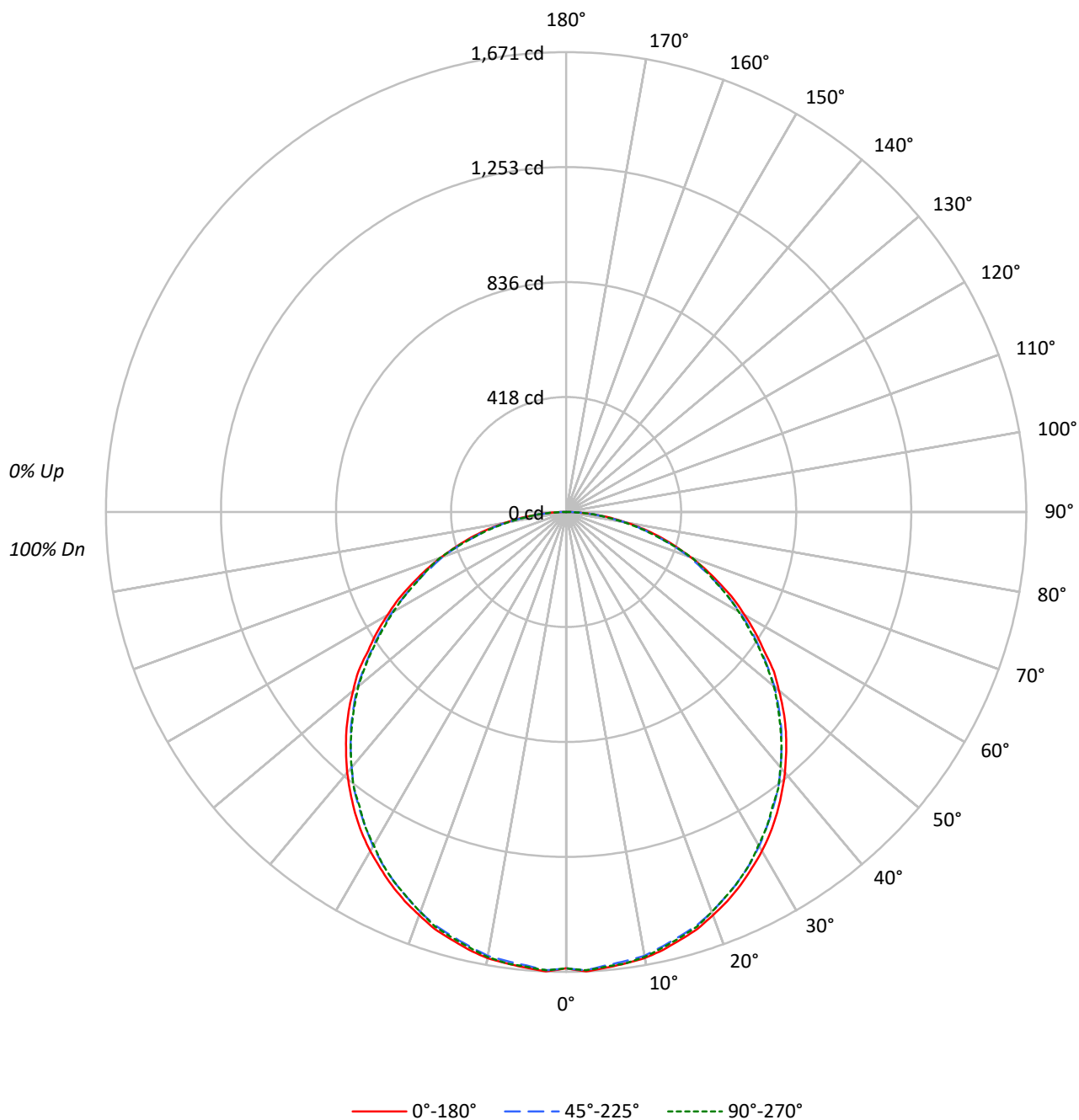
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4814.0 lumens
Efficiency: N/A
Efficacy: 72.3 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): 66.6
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°	4462	4462	4462
5°	4490	4468	4479
10°	4497	4474	4486
15°	4481	4447	4458
20°	4464	4429	4429
25°	4445	4395	4395
30°	4420	4356	4343
35°	4388	4306	4293
40°	4343	4256	4256
45°	4296	4202	4186
50°	4224	4137	4120
55°	4113	4016	3996
60°	4028	3917	3894
65°	3923	3818	3791
70°	3806	3741	3839
75°	3697	3526	3526
80°	3460	3397	3268
85°	3193	3063	3063

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4296 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.7	3.3
10°-20°	452.0	9.4
20°-30°	683.8	14.2
30°-40°	824.0	17.1
40°-50°	855.6	17.8
50°-60°	770.5	16.0
60°-70°	595.4	12.4
70°-80°	362.8	7.5
80°-90°	112.2	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°	1293.5	26.9
0°-40°	2117.5	44.0
0°-60°	3743.7	77.8
0°-90°	4814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4814.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1658	1658	1658	1658	1658	
5°	1662	1658	1654	1654	1658	158
15°	1608	1604	1596	1596	1600	454
25°	1497	1493	1480	1476	1480	690
35°	1336	1327	1311	1307	1307	835
45°	1129	1121	1104	1100	1100	870
55°	877	868	856	852	852	787
65°	616	604	600	591	595	611
75°	356	343	339	335	339	374
85°	103	103	99	95	99	117
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1658.1	1658.1	1658.1	1658.1	1658.1
2.5°	1670.6	1670.6	1666.4	1666.4	1666.4
5°	1662.3	1658.1	1654.0	1654.0	1658.1
7.5°	1654.0	1654.0	1645.7	1645.7	1654.0
10°	1645.7	1641.6	1637.5	1637.5	1641.6
12.5°	1629.2	1625.1	1616.8	1616.8	1620.9
15°	1608.5	1604.4	1596.1	1596.1	1600.3
17.5°	1587.9	1583.7	1575.4	1575.4	1579.6
20°	1558.9	1554.8	1546.5	1542.4	1546.5
22.5°	1530.0	1525.8	1513.4	1509.3	1513.4
25°	1496.9	1492.7	1480.3	1476.2	1480.3
27.5°	1459.7	1455.5	1443.1	1439.0	1443.1
30°	1422.5	1414.2	1401.8	1393.5	1397.6
32.5°	1381.1	1372.8	1356.3	1352.2	1356.3
35°	1335.6	1327.3	1310.8	1306.7	1306.7
37.5°	1286.0	1281.9	1265.3	1261.2	1265.3
40°	1236.4	1228.1	1211.6	1207.4	1211.6
42.5°	1182.6	1174.3	1157.8	1157.8	1157.8
45°	1128.9	1120.6	1104.1	1099.9	1099.9
47.5°	1071.0	1062.7	1046.2	1042.0	1042.0
50°	1008.9	1000.7	988.3	984.1	984.1
52.5°	951.1	938.7	922.1	918.0	918.0
55°	876.6	868.4	856.0	851.8	851.8
57.5°	814.6	802.2	793.9	785.7	785.7
60°	748.4	736.0	727.8	723.6	723.6
62.5°	686.4	669.9	661.6	657.5	661.6
65°	616.1	603.7	599.6	591.3	595.4
67.5°	550.0	537.6	533.4	533.4	541.7
70°	483.8	471.4	475.5	463.1	487.9
72.5°	417.6	409.4	409.4	397.0	409.4
75°	355.6	343.2	339.1	334.9	339.1
77.5°	289.5	285.3	281.2	272.9	277.0
80°	223.3	231.6	219.2	206.8	210.9
82.5°	165.4	161.3	153.0	148.9	153.0
85°	103.4	103.4	99.2	95.1	99.2
87.5°	49.6	49.6	45.5	45.5	49.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)