

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: P601314

Luminaire Tested: 14CGSB-45-L930

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601314
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-L930
Description: 1x4 CGSB AT 4500lm 3000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

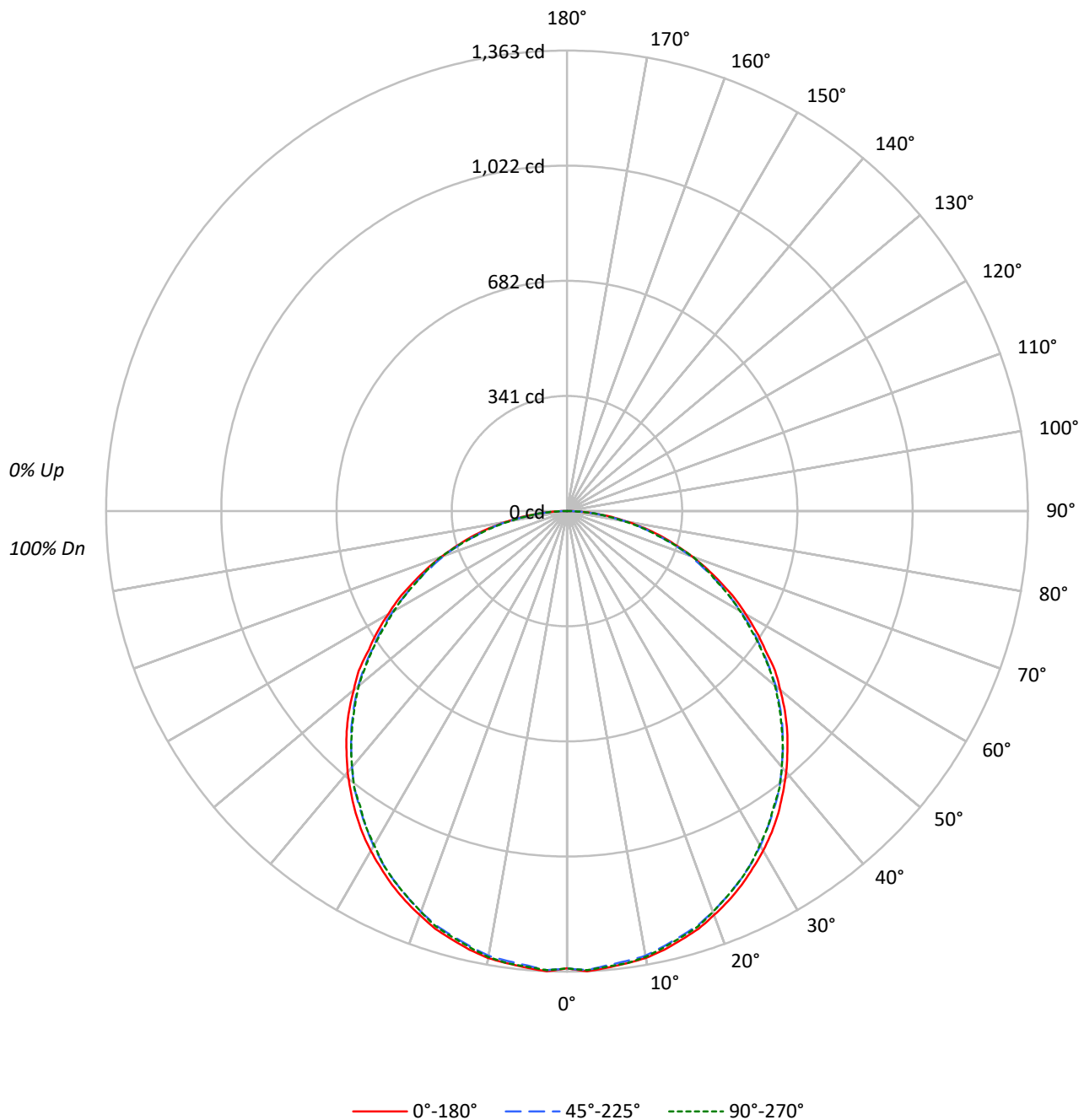
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3928.3 lumens
Efficiency: N/A
Efficacy: 79.4 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

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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°	3641	3641	3641
5°	3664	3646	3655
10°	3669	3651	3660
15°	3657	3629	3638
20°	3643	3614	3614
25°	3627	3587	3587
30°	3607	3554	3544
35°	3580	3514	3503
40°	3544	3473	3473
45°	3506	3428	3416
50°	3447	3376	3362
55°	3356	3277	3261
60°	3287	3196	3178
65°	3202	3116	3094
70°	3106	3053	3133
75°	3017	2877	2877
80°	2824	2771	2667
85°	2606	2501	2501

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3506 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	3.3
10°-20°	368.8	9.4
20°-30°	558.0	14.2
30°-40°	672.4	17.1
40°-50°	698.2	17.8
50°-60°	628.8	16.0
60°-70°	485.9	12.4
70°-80°	296.0	7.5
80°-90°	91.5	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°	1055.5	26.9
0°-40°	1727.9	44.0
0°-60°	3054.9	77.8
0°-90°	3928.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3928.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1353	1353	1353	1353	1353	
5°	1356	1353	1350	1350	1353	129
15°	1313	1309	1302	1302	1306	371
25°	1222	1218	1208	1205	1208	563
35°	1090	1083	1070	1066	1066	681
45°	921	914	901	898	898	710
55°	715	709	698	695	695	643
65°	503	493	489	482	486	499
75°	290	280	277	273	277	305
85°	84	84	81	78	81	95
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1353.1	1353.1	1353.1	1353.1	1353.1
2.5°	1363.2	1363.2	1359.8	1359.8	1359.8
5°	1356.4	1353.1	1349.7	1349.7	1353.1
7.5°	1349.7	1349.7	1342.9	1342.9	1349.7
10°	1342.9	1339.6	1336.2	1336.2	1339.6
12.5°	1329.4	1326.1	1319.3	1319.3	1322.7
15°	1312.6	1309.2	1302.5	1302.5	1305.8
17.5°	1295.7	1292.3	1285.6	1285.6	1289.0
20°	1272.1	1268.7	1262.0	1258.6	1262.0
22.5°	1248.5	1245.1	1235.0	1231.6	1235.0
25°	1221.5	1218.1	1208.0	1204.6	1208.0
27.5°	1191.1	1187.7	1177.6	1174.2	1177.6
30°	1160.7	1154.0	1143.9	1137.1	1140.5
32.5°	1127.0	1120.2	1106.7	1103.4	1106.7
35°	1089.9	1083.1	1069.6	1066.3	1066.3
37.5°	1049.4	1046.0	1032.5	1029.1	1032.5
40°	1008.9	1002.1	988.7	985.3	988.7
42.5°	965.0	958.3	944.8	944.8	944.8
45°	921.2	914.4	900.9	897.5	897.5
47.5°	873.9	867.2	853.7	850.3	850.3
50°	823.3	816.6	806.4	803.1	803.1
52.5°	776.1	766.0	752.5	749.1	749.1
55°	715.3	708.6	698.5	695.1	695.1
57.5°	664.7	654.6	647.9	641.1	641.1
60°	610.7	600.6	593.9	590.5	590.5
62.5°	560.1	546.6	539.9	536.5	539.9
65°	502.8	492.6	489.3	482.5	485.9
67.5°	448.8	438.7	435.3	435.3	442.0
70°	394.8	384.7	388.0	377.9	398.2
72.5°	340.8	334.0	334.0	323.9	334.0
75°	290.2	280.1	276.7	273.3	276.7
77.5°	236.2	232.8	229.4	222.7	226.1
80°	182.2	189.0	178.8	168.7	172.1
82.5°	135.0	131.6	124.8	121.5	124.8
85°	84.4	84.4	81.0	77.6	81.0
87.5°	40.5	40.5	37.1	37.1	40.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)