

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: P601454

Luminaire Tested: 22CGSB-35-L830

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/24/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CGSB-35-L830
Description: 2x2 CGSB AT 3500lm 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

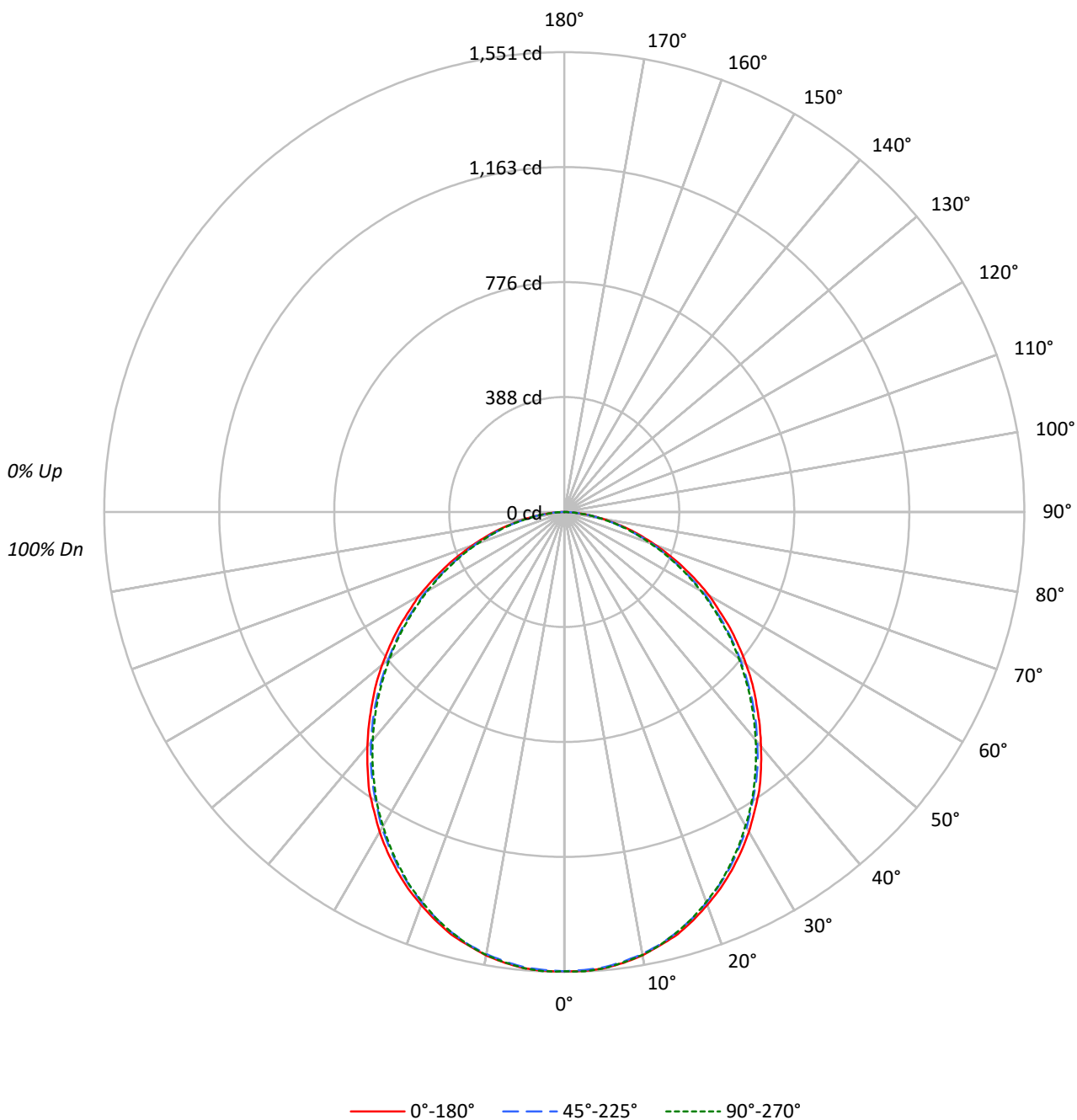
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3871.0 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 29.2
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				10	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4169	4169	4169
5°	4172	4164	4172
10°	4148	4136	4144
15°	4109	4088	4088
20°	4038	4016	4007
25°	3963	3926	3912
30°	3869	3821	3797
35°	3766	3695	3670
40°	3626	3555	3528
45°	3488	3406	3376
50°	3352	3242	3217
55°	3200	3084	3040
60°	3039	2906	2865
65°	2830	2692	2662
70°	2585	2489	2428
75°	2358	2214	2230
80°	2032	1912	1937
85°	1572	1525	1430

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3488 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.3	3.8
10°-20°	413.7	10.7
20°-30°	609.4	15.7
30°-40°	704.9	18.2
40°-50°	693.0	17.9
50°-60°	590.6	15.3
60°-70°	423.2	10.9
70°-80°	229.8	5.9
80°-90°	60.0	1.5
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°	1169.4	30.2
0°-40°	1874.4	48.4
0°-60°	3158.0	81.6
0°-90°	3871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3871.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1549	1549	1549	1549	1549	
5°	1544	1541	1541	1541	1544	147
15°	1475	1469	1467	1466	1467	415
25°	1335	1328	1322	1319	1318	614
35°	1146	1137	1125	1119	1117	715
45°	916	910	895	887	887	708
55°	682	670	657	650	648	609
65°	444	435	423	418	418	440
75°	227	219	213	210	214	240
85°	51	51	49	48	46	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1549.1	1549.1	1549.1	1549.1	1549.1
2.5°	1549.1	1547.5	1546.0	1547.5	1550.6
5°	1544.4	1541.4	1541.4	1541.4	1544.4
7.5°	1533.6	1530.6	1529.0	1530.6	1532.1
10°	1518.2	1515.1	1513.6	1515.1	1516.7
12.5°	1496.6	1495.1	1493.5	1493.5	1495.1
15°	1475.0	1468.8	1467.3	1465.8	1467.3
17.5°	1444.2	1442.6	1436.4	1436.4	1436.4
20°	1410.2	1407.1	1402.5	1399.4	1399.4
22.5°	1374.7	1371.6	1363.9	1360.8	1362.4
25°	1334.6	1328.4	1322.3	1319.2	1317.6
27.5°	1291.4	1285.2	1276.0	1271.4	1271.4
30°	1245.1	1240.5	1229.7	1223.5	1222.0
32.5°	1194.2	1191.1	1175.7	1172.6	1172.6
35°	1146.4	1137.1	1124.8	1118.6	1117.1
37.5°	1089.3	1083.1	1070.8	1063.1	1061.5
40°	1032.2	1024.5	1012.1	1006.0	1004.4
42.5°	975.1	967.4	955.1	947.3	945.8
45°	916.5	910.3	894.9	887.2	887.2
47.5°	860.9	848.6	834.7	828.5	827.0
50°	800.8	790.0	774.5	768.4	768.4
52.5°	740.6	732.9	715.9	712.8	709.7
55°	682.0	669.6	657.3	649.6	648.0
57.5°	618.7	607.9	595.6	589.4	589.4
60°	564.7	550.8	540.0	532.3	532.3
62.5°	503.0	490.6	479.8	475.2	473.7
65°	444.4	435.1	422.8	418.1	418.1
67.5°	385.7	378.0	367.2	362.6	364.1
70°	328.6	324.0	316.3	310.1	308.6
72.5°	276.2	270.0	262.3	260.8	260.8
75°	226.8	219.1	212.9	209.8	214.5
77.5°	175.9	171.3	168.2	166.6	168.2
80°	131.1	125.0	123.4	125.0	125.0
82.5°	91.0	87.9	86.4	86.4	86.4
85°	50.9	50.9	49.4	47.8	46.3
87.5°	20.1	20.1	21.6	21.6	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)