

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: P601447

Luminaire Tested: 22CGSB-30-L835

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601447
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-30-L835
Description: 2x2 CGSB AT 3000lm 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

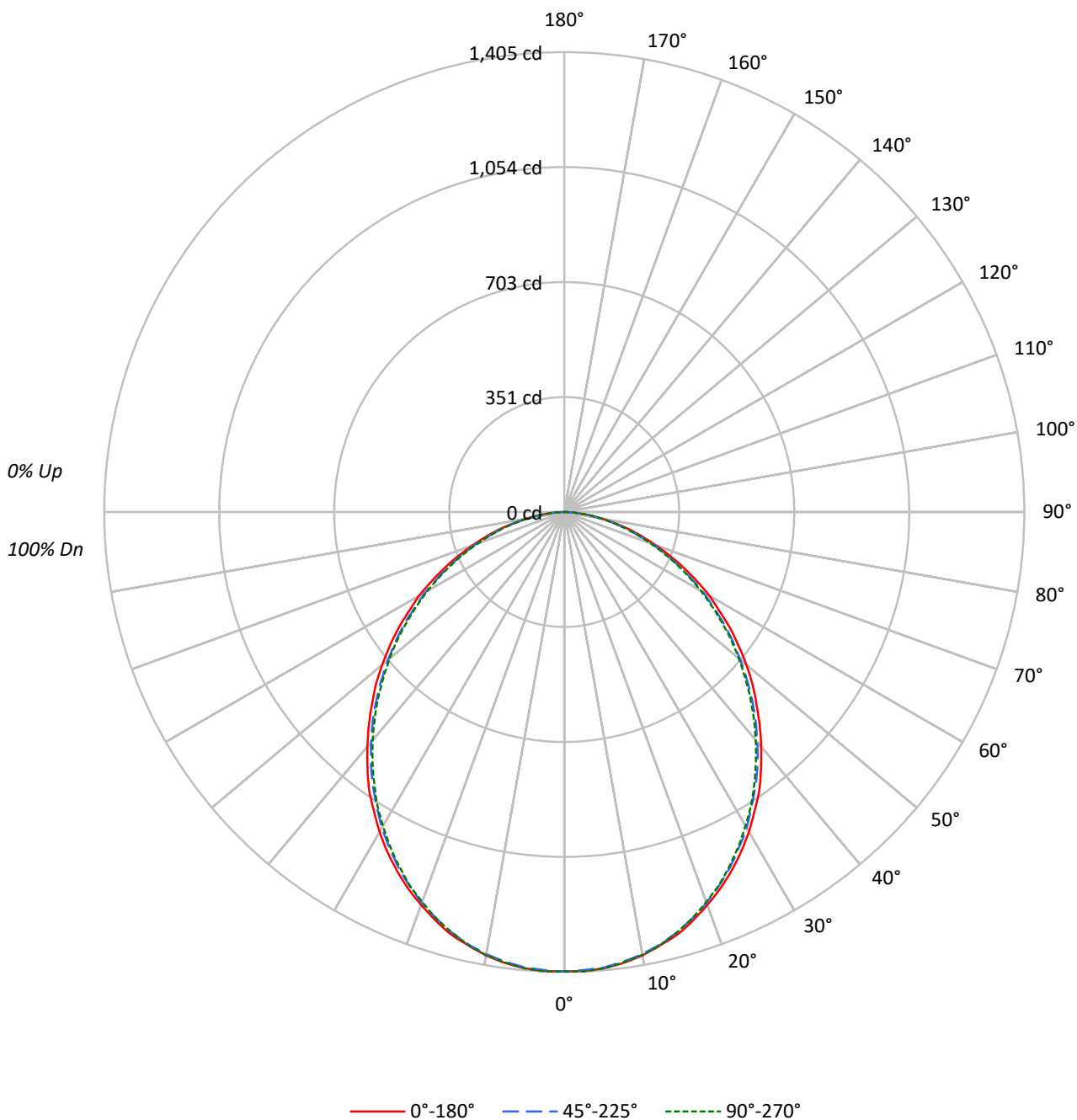
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3507.0 lumens
Efficiency: N/A
Efficacy: 140.8 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): 24.9
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°	3777	3777	3777
5°	3780	3772	3780
10°	3759	3747	3755
15°	3723	3703	3703
20°	3659	3639	3631
25°	3590	3557	3544
30°	3505	3462	3440
35°	3412	3347	3324
40°	3285	3221	3197
45°	3160	3085	3059
50°	3037	2938	2914
55°	2898	2794	2754
60°	2753	2633	2595
65°	2564	2439	2412
70°	2342	2255	2200
75°	2137	2006	2020
80°	1841	1733	1754
85°	1423	1380	1294

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3160 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.6	3.8
10°-20°	374.8	10.7
20°-30°	552.1	15.7
30°-40°	638.6	18.2
40°-50°	627.9	17.9
50°-60°	535.1	15.3
60°-70°	383.4	10.9
70°-80°	208.2	5.9
80°-90°	54.3	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°	1059.5	30.2
0°-40°	1698.1	48.4
0°-60°	2861.1	81.6
0°-90°	3507.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3507.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1403	1403	1403	1403	1403	
5°	1399	1396	1396	1396	1399	133
15°	1336	1331	1329	1328	1329	376
25°	1209	1204	1198	1195	1194	557
35°	1039	1030	1019	1013	1012	648
45°	830	825	811	804	804	641
55°	618	607	596	588	587	552
65°	403	394	383	379	379	399
75°	206	198	193	190	194	217
85°	46	46	45	43	42	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1403.4	1403.4	1403.4	1403.4	1403.4
2.5°	1403.4	1402.0	1400.6	1402.0	1404.8
5°	1399.2	1396.4	1396.4	1396.4	1399.2
7.5°	1389.4	1386.6	1385.2	1386.6	1388.0
10°	1375.5	1372.7	1371.3	1372.7	1374.1
12.5°	1355.9	1354.5	1353.1	1353.1	1354.5
15°	1336.3	1330.7	1329.3	1327.9	1329.3
17.5°	1308.4	1307.0	1301.4	1301.4	1301.4
20°	1277.6	1274.8	1270.6	1267.8	1267.8
22.5°	1245.5	1242.7	1235.7	1232.9	1234.3
25°	1209.1	1203.5	1197.9	1195.1	1193.7
27.5°	1170.0	1164.4	1156.0	1151.8	1151.8
30°	1128.0	1123.8	1114.1	1108.5	1107.1
32.5°	1081.9	1079.1	1065.1	1062.3	1062.3
35°	1038.6	1030.2	1019.0	1013.4	1012.0
37.5°	986.9	981.3	970.1	963.1	961.7
40°	935.1	928.2	917.0	911.4	910.0
42.5°	883.4	876.4	865.3	858.3	856.9
45°	830.3	824.7	810.7	803.7	803.7
47.5°	780.0	768.8	756.2	750.6	749.2
50°	725.5	715.7	701.7	696.1	696.1
52.5°	671.0	664.0	648.6	645.8	643.0
55°	617.8	606.7	595.5	588.5	587.1
57.5°	560.5	550.7	539.6	534.0	534.0
60°	511.6	499.0	489.2	482.2	482.2
62.5°	455.7	444.5	434.7	430.5	429.1
65°	402.6	394.2	383.0	378.8	378.8
67.5°	349.5	342.5	332.7	328.5	329.9
70°	297.7	293.5	286.6	281.0	279.6
72.5°	250.2	244.6	237.6	236.2	236.2
75°	205.5	198.5	192.9	190.1	194.3
77.5°	159.4	155.2	152.4	151.0	152.4
80°	118.8	113.2	111.8	113.2	113.2
82.5°	82.5	79.7	78.3	78.3	78.3
85°	46.1	46.1	44.7	43.3	41.9
87.5°	18.2	18.2	19.6	19.6	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)