

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: P601457

Luminaire Tested: 22CGSB-35-L850

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601457
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-L850
Description: 2x2 CGSB AT 3500lm 5000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

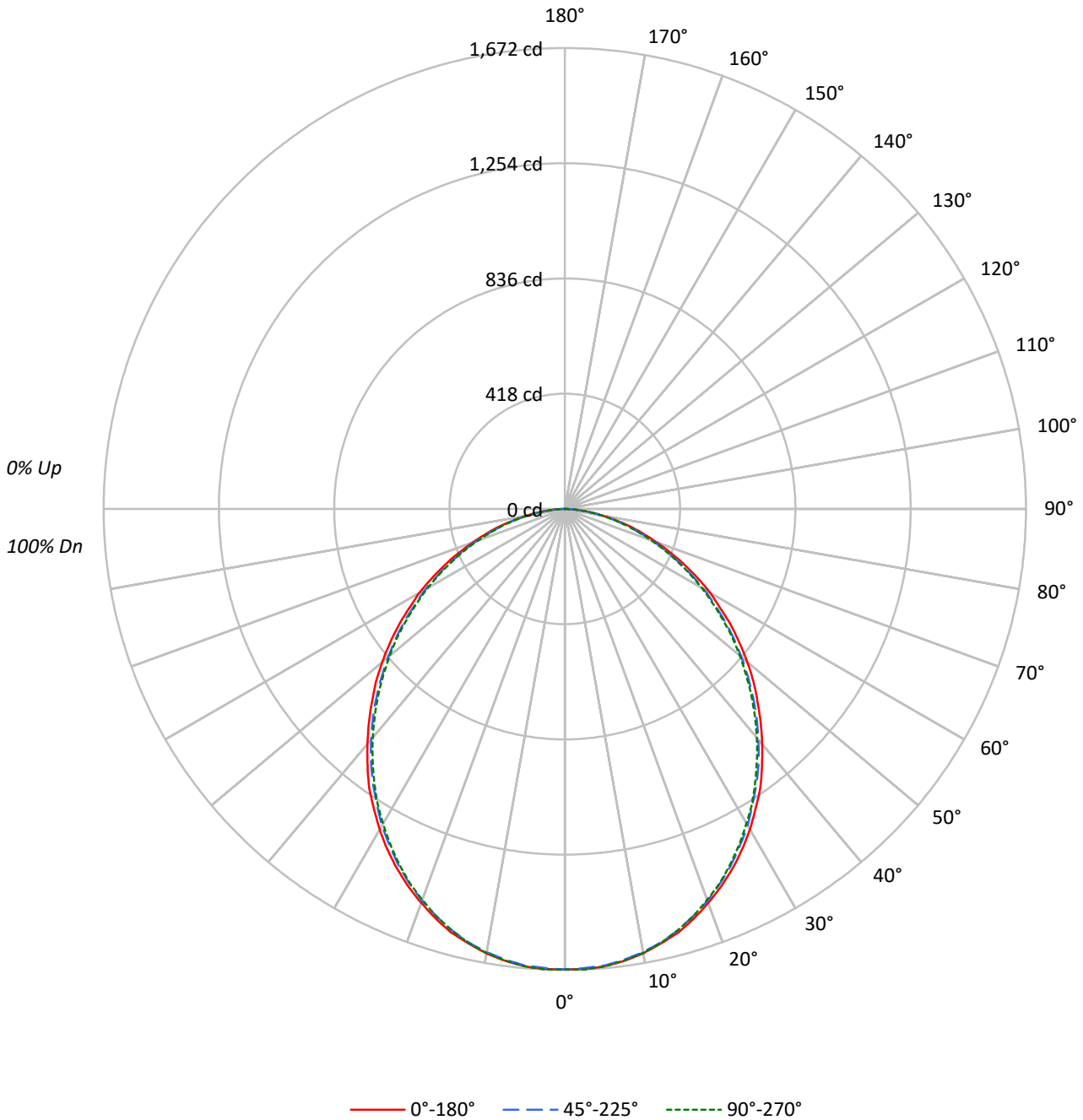
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4174.0 lumens
Efficiency: N/A
Efficacy: 142.9 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 (A_{in}): 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°	4495	4495	4495
5°	4498	4489	4498
10°	4473	4460	4469
15°	4431	4408	4408
20°	4355	4331	4321
25°	4273	4233	4219
30°	4172	4120	4094
35°	4061	3984	3957
40°	3910	3834	3805
45°	3761	3672	3640
50°	3615	3496	3468
55°	3450	3325	3278
60°	3277	3134	3089
65°	3051	2902	2871
70°	2788	2684	2618
75°	2543	2387	2405
80°	2191	2063	2089
85°	1695	1643	1541

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3761 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.8	3.8
10°-20°	446.1	10.7
20°-30°	657.1	15.7
30°-40°	760.1	18.2
40°-50°	747.3	17.9
50°-60°	636.8	15.3
60°-70°	456.3	10.9
70°-80°	247.8	5.9
80°-90°	64.7	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°	1261.0	30.2
0°-40°	2021.1	48.4
0°-60°	3405.2	81.6
0°-90°	4174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4174.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1670	1670	1670	1670	1670	
5°	1665	1662	1662	1662	1665	158
15°	1590	1584	1582	1580	1582	448
25°	1439	1432	1426	1422	1421	662
35°	1236	1226	1213	1206	1204	771
45°	988	982	965	957	957	763
55°	735	722	709	700	699	657
65°	479	469	456	451	451	475
75°	245	236	230	226	231	258
85°	55	55	53	52	50	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1670.3	1670.3	1670.3	1670.3	1670.3
2.5°	1670.3	1668.7	1667.0	1668.7	1672.0
5°	1665.3	1662.0	1662.0	1662.0	1665.3
7.5°	1653.7	1650.4	1648.7	1650.4	1652.0
10°	1637.1	1633.7	1632.1	1633.7	1635.4
12.5°	1613.8	1612.1	1610.4	1610.4	1612.1
15°	1590.5	1583.8	1582.2	1580.5	1582.2
17.5°	1557.2	1555.5	1548.9	1548.9	1548.9
20°	1520.6	1517.3	1512.3	1509.0	1509.0
22.5°	1482.3	1479.0	1470.7	1467.4	1469.0
25°	1439.1	1432.4	1425.8	1422.4	1420.8
27.5°	1392.5	1385.8	1375.9	1370.9	1370.9
30°	1342.6	1337.6	1325.9	1319.3	1317.6
32.5°	1287.7	1284.4	1267.7	1264.4	1264.4
35°	1236.1	1226.1	1212.8	1206.2	1204.5
37.5°	1174.6	1167.9	1154.6	1146.3	1144.6
40°	1113.0	1104.7	1091.4	1084.7	1083.1
42.5°	1051.4	1043.1	1029.8	1021.5	1019.8
45°	988.2	981.6	964.9	956.6	956.6
47.5°	928.3	915.0	900.0	893.4	891.7
50°	863.4	851.8	835.2	828.5	828.5
52.5°	798.6	790.2	771.9	768.6	765.3
55°	735.3	722.0	708.7	700.4	698.7
57.5°	667.1	655.5	642.2	635.5	635.5
60°	608.9	593.9	582.3	574.0	574.0
62.5°	542.4	529.0	517.4	512.4	510.7
65°	479.1	469.2	455.8	450.9	450.9
67.5°	415.9	407.6	396.0	391.0	392.6
70°	354.4	349.4	341.1	334.4	332.7
72.5°	297.8	291.1	282.8	281.2	281.2
75°	244.6	236.2	229.6	226.3	231.3
77.5°	189.7	184.7	181.3	179.7	181.3
80°	141.4	134.8	133.1	134.8	134.8
82.5°	98.2	94.8	93.2	93.2	93.2
85°	54.9	54.9	53.2	51.6	49.9
87.5°	21.6	21.6	23.3	23.3	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)