

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: P601440

Luminaire Tested: 22CGSB-25-L840

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601440
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-25-L840
Description: 2x2 CGSB AT 2500lm 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

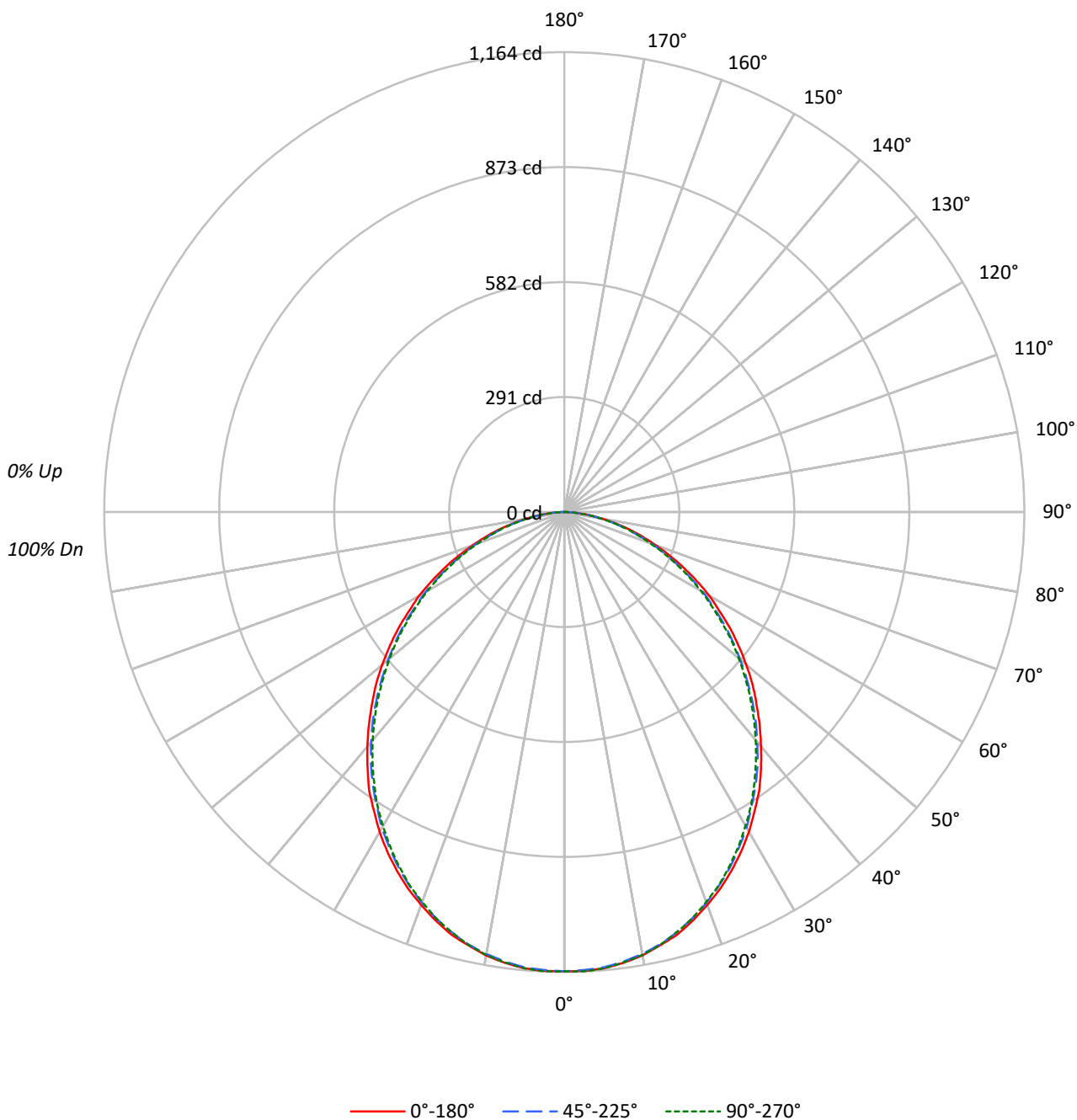
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2905.0 lumens
Efficiency: N/A
Efficacy: 142.4 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): 20.4
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°	3128	3128	3128
5°	3131	3125	3131
10°	3113	3104	3110
15°	3084	3068	3068
20°	3031	3014	3007
25°	2974	2946	2936
30°	2903	2867	2849
35°	2826	2773	2754
40°	2721	2668	2648
45°	2618	2556	2534
50°	2516	2434	2414
55°	2401	2314	2282
60°	2281	2181	2150
65°	2124	2020	1998
70°	1940	1868	1822
75°	1770	1661	1673
80°	1525	1435	1454
85°	1179	1145	1071

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2618 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	3.8
10°-20°	310.5	10.7
20°-30°	457.3	15.7
30°-40°	529.0	18.2
40°-50°	520.1	17.9
50°-60°	443.2	15.3
60°-70°	317.6	10.9
70°-80°	172.5	5.9
80°-90°	45.0	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°	877.6	30.2
0°-40°	1406.6	48.4
0°-60°	2369.9	81.6
0°-90°	2905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2905.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1162	1162	1162	1162	1162	
5°	1159	1157	1157	1157	1159	110
15°	1107	1102	1101	1100	1101	312
25°	1002	997	992	990	989	461
35°	860	853	844	840	838	537
45°	688	683	672	666	666	531
55°	512	502	493	488	486	457
65°	334	326	317	314	314	330
75°	170	164	160	158	161	180
85°	38	38	37	36	35	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1162.5	1162.5	1162.5	1162.5	<i>1162.5</i>
2.5°	<i>1162.5</i>	<i>1161.4</i>	<i>1160.2</i>	<i>1161.4</i>	<i>1163.7</i>
5°	1159.0	1156.7	1156.7	1156.7	<i>1159.0</i>
7.5°	1150.9	1148.6	1147.5	1148.6	<i>1149.8</i>
10°	1139.4	1137.0	1135.9	1137.0	<i>1138.2</i>
12.5°	1123.1	1122.0	1120.8	1120.8	<i>1122.0</i>
15°	1106.9	1102.3	1101.1	1100.0	<i>1101.1</i>
17.5°	1083.8	1082.6	1078.0	1078.0	<i>1078.0</i>
20°	1058.3	1056.0	1052.5	1050.2	<i>1050.2</i>
22.5°	1031.7	1029.4	1023.6	1021.2	<i>1022.4</i>
25°	1001.6	996.9	992.3	990.0	<i>988.8</i>
27.5°	969.1	964.5	957.6	954.1	<i>954.1</i>
30°	934.4	930.9	922.8	918.2	<i>917.0</i>
32.5°	896.2	893.9	882.3	880.0	<i>880.0</i>
35°	860.3	853.4	844.1	839.5	<i>838.3</i>
37.5°	817.5	812.8	803.6	797.8	<i>796.6</i>
40°	774.6	768.8	759.6	754.9	<i>753.8</i>
42.5°	731.8	726.0	716.7	710.9	<i>709.8</i>
45°	687.8	683.1	671.6	665.8	<i>665.8</i>
47.5°	646.1	636.8	626.4	621.8	<i>620.6</i>
50°	600.9	592.8	581.3	576.6	<i>576.6</i>
52.5°	555.8	550.0	537.3	534.9	<i>532.6</i>
55°	511.8	502.5	493.3	487.5	<i>486.3</i>
57.5°	464.3	456.2	446.9	442.3	<i>442.3</i>
60°	423.8	413.4	405.3	399.5	<i>399.5</i>
62.5°	377.5	368.2	360.1	356.6	<i>355.5</i>
65°	333.5	326.5	317.3	313.8	<i>313.8</i>
67.5°	289.5	283.7	275.6	272.1	<i>273.3</i>
70°	246.6	243.2	237.4	232.7	<i>231.6</i>
72.5°	207.3	202.6	196.8	195.7	<i>195.7</i>
75°	170.2	164.4	159.8	157.5	<i>160.9</i>
77.5°	132.0	128.5	126.2	125.1	<i>126.2</i>
80°	98.4	93.8	92.6	93.8	<i>93.8</i>
82.5°	68.3	66.0	64.8	64.8	<i>64.8</i>
85°	38.2	38.2	37.1	35.9	<i>34.7</i>
87.5°	15.1	15.1	16.2	16.2	<i>17.4</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)