

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: P601441

Luminaire Tested: 22CGSB-25-L850

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601441
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-L850
Description: 2x2 CGSB AT 2500lm 5000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

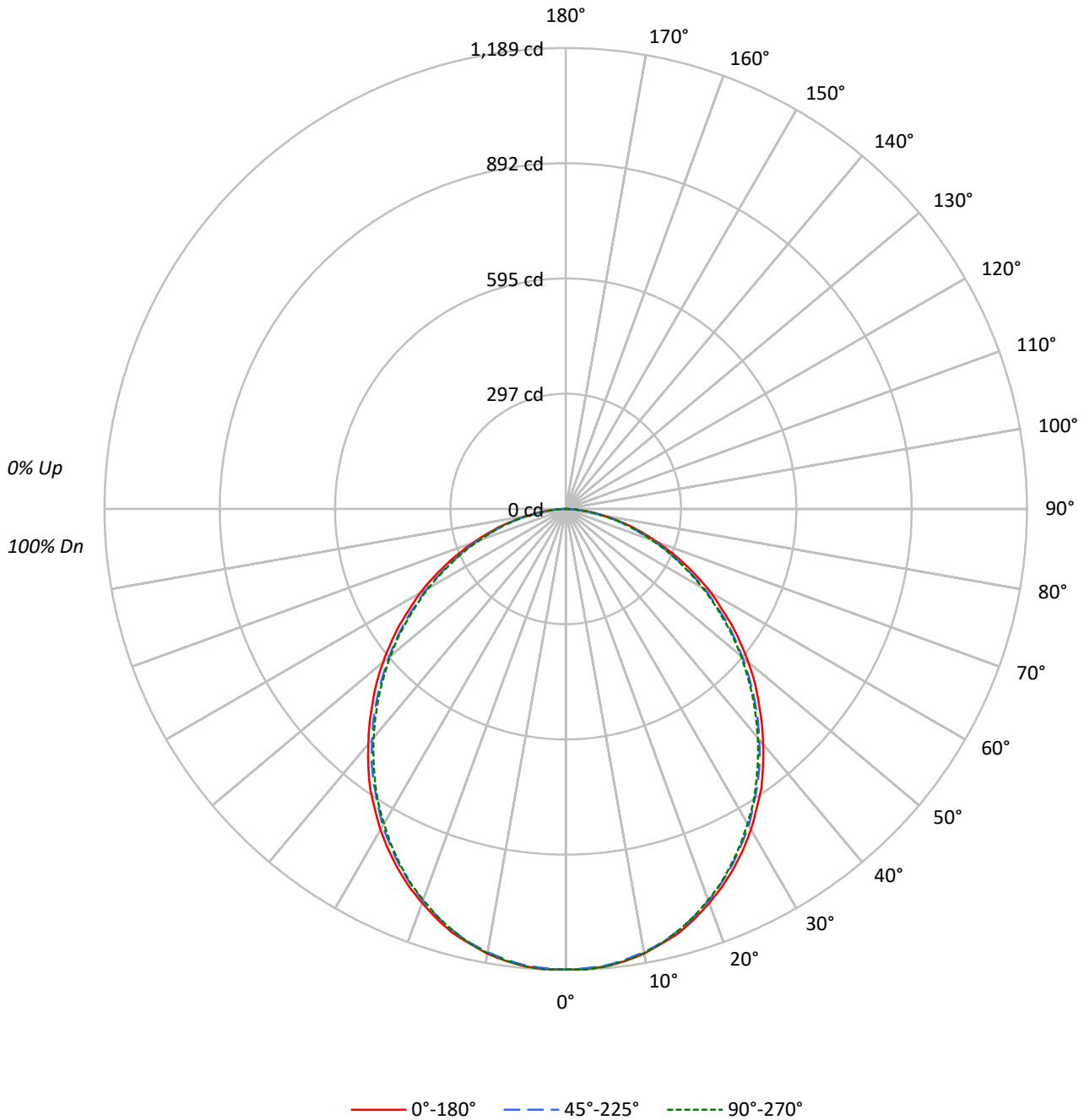
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2969.0 lumens
Efficiency: N/A
Efficacy: 145.5 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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CATALOG NUMBER: 22CGSB-25-L850

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°	3197	3197	3197
5°	3200	3193	3200
10°	3182	3172	3179
15°	3152	3135	3135
20°	3097	3080	3074
25°	3039	3011	3001
30°	2967	2931	2912
35°	2889	2834	2815
40°	2781	2727	2706
45°	2675	2612	2589
50°	2571	2487	2467
55°	2454	2365	2332
60°	2331	2229	2197
65°	2170	2064	2042
70°	1983	1909	1862
75°	1809	1698	1710
80°	1559	1468	1486
85°	1207	1170	1096

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2675 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	3.8
10°-20°	317.3	10.7
20°-30°	467.4	15.7
30°-40°	540.7	18.2
40°-50°	531.5	17.9
50°-60°	453.0	15.3
60°-70°	324.6	10.9
70°-80°	176.3	5.9
80°-90°	46.0	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°	896.9	30.2
0°-40°	1437.6	48.4
0°-60°	2422.2	81.6
0°-90°	2969.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2969.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1188	1188	1188	1188	1188	
5°	1185	1182	1182	1182	1185	112
15°	1131	1127	1125	1124	1125	318
25°	1024	1019	1014	1012	1011	471
35°	879	872	863	858	857	548
45°	703	698	686	680	680	543
55°	523	514	504	498	497	467
65°	341	334	324	321	321	338
75°	174	168	163	161	164	184
85°	39	39	38	37	36	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1188.1	1188.1	1188.1	1188.1	<i>1188.1</i>
2.5°	<i>1188.1</i>	<i>1186.9</i>	<i>1185.8</i>	<i>1186.9</i>	<i>1189.3</i>
5°	1184.6	1182.2	1182.2	1182.2	<i>1184.6</i>
7.5°	1176.3	1173.9	1172.7	1173.9	<i>1175.1</i>
10°	1164.5	1162.1	1160.9	1162.1	<i>1163.3</i>
12.5°	1147.9	1146.7	1145.5	1145.5	<i>1146.7</i>
15°	1131.3	1126.6	1125.4	1124.2	<i>1125.4</i>
17.5°	1107.6	1106.5	1101.7	1101.7	<i>1101.7</i>
20°	1081.6	1079.2	1075.7	1073.3	<i>1073.3</i>
22.5°	1054.4	1052.0	1046.1	1043.7	<i>1044.9</i>
25°	1023.6	1018.9	1014.2	1011.8	<i>1010.6</i>
27.5°	990.5	985.8	978.7	975.1	<i>975.1</i>
30°	955.0	951.4	943.2	938.4	<i>937.2</i>
32.5°	915.9	913.6	901.7	899.4	<i>899.4</i>
35°	879.3	872.2	862.7	858.0	<i>856.8</i>
37.5°	835.5	830.7	821.3	815.4	<i>814.2</i>
40°	791.7	785.8	776.3	771.6	<i>770.4</i>
42.5°	747.9	742.0	732.5	726.6	<i>725.4</i>
45°	702.9	698.2	686.4	680.4	<i>680.4</i>
47.5°	660.3	650.9	640.2	635.5	<i>634.3</i>
50°	614.2	605.9	594.1	589.3	<i>589.3</i>
52.5°	568.0	562.1	549.1	546.7	<i>544.4</i>
55°	523.1	513.6	504.1	498.2	<i>497.0</i>
57.5°	474.5	466.3	456.8	452.1	<i>452.1</i>
60°	433.1	422.5	414.2	408.3	<i>408.3</i>
62.5°	385.8	376.3	368.0	364.5	<i>363.3</i>
65°	340.8	333.7	324.2	320.7	<i>320.7</i>
67.5°	295.8	289.9	281.6	278.1	<i>279.3</i>
70°	252.1	248.5	242.6	237.9	<i>236.7</i>
72.5°	211.8	207.1	201.2	200.0	<i>200.0</i>
75°	174.0	168.0	163.3	160.9	<i>164.5</i>
77.5°	134.9	131.4	129.0	127.8	<i>129.0</i>
80°	100.6	95.9	94.7	95.9	<i>95.9</i>
82.5°	69.8	67.5	66.3	66.3	<i>66.3</i>
85°	39.1	39.1	37.9	36.7	<i>35.5</i>
87.5°	15.4	15.4	16.6	16.6	<i>17.8</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)