

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: P601499

Luminaire Tested: 22CGSB-60-L935

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601499
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-60-L935
Description: 2x2 CGSB AT 6000lm 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

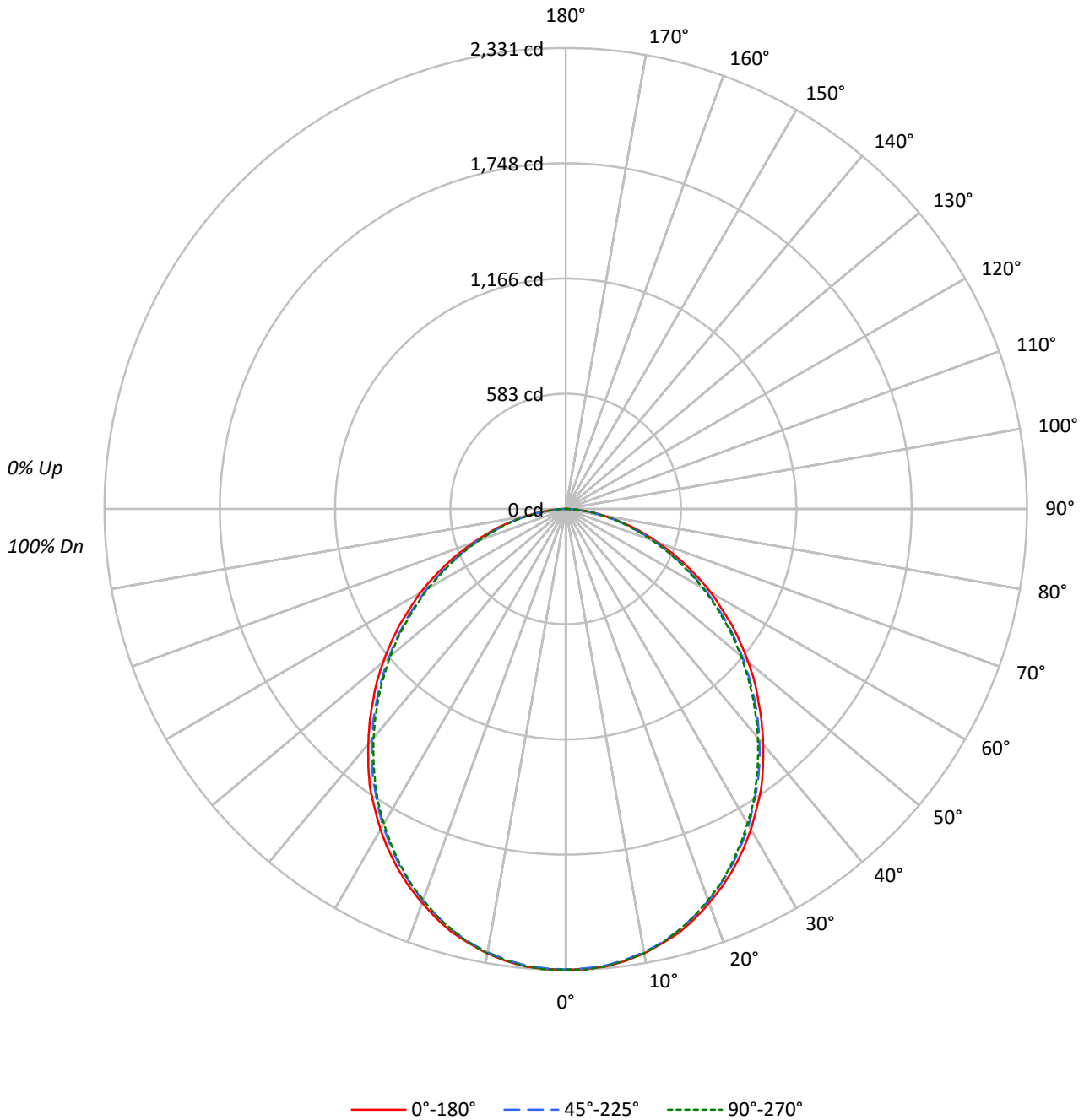
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5820.0 lumens
Efficiency: N/A
Efficacy: 108.6 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): 53.6
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°	6267	6267	6267
5°	6273	6260	6273
10°	6237	6218	6231
15°	6178	6146	6146
20°	6072	6038	6025
25°	5958	5903	5882
30°	5817	5745	5709
35°	5662	5555	5517
40°	5452	5345	5305
45°	5244	5120	5076
50°	5040	4875	4836
55°	4810	4636	4571
60°	4569	4370	4307
65°	4254	4047	4003
70°	3888	3741	3650
75°	3545	3328	3352
80°	3056	2876	2912
85°	2365	2291	2149

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5244 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.0	3.8
10°-20°	622.1	10.7
20°-30°	916.2	15.7
30°-40°	1059.8	18.2
40°-50°	1042.0	17.9
50°-60°	888.0	15.3
60°-70°	636.2	10.9
70°-80°	345.6	5.9
80°-90°	90.2	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°	1758.3	30.2
0°-40°	2818.1	48.4
0°-60°	4748.0	81.6
0°-90°	5820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5820.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2329	2329	2329	2329	2329	
5°	2322	2317	2317	2317	2322	220
15°	2218	2208	2206	2204	2206	624
25°	2007	1997	1988	1983	1981	924
35°	1724	1710	1691	1682	1680	1075
45°	1378	1369	1345	1334	1334	1064
55°	1025	1007	988	977	974	915
65°	668	654	636	629	629	662
75°	341	329	320	316	322	360
85°	77	77	74	72	70	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2329.0	2329.0	2329.0	2329.0	2329.0
2.5°	2329.0	2326.7	2324.4	2326.7	2331.3
5°	2322.1	2317.4	2317.4	2317.4	2322.1
7.5°	2305.8	2301.2	2298.9	2301.2	2303.5
10°	2282.6	2278.0	2275.7	2278.0	2280.3
12.5°	2250.1	2247.8	2245.5	2245.5	2247.8
15°	2217.7	2208.4	2206.1	2203.8	2206.1
17.5°	2171.3	2169.0	2159.7	2159.7	2159.7
20°	2120.2	2115.6	2108.6	2104.0	2104.0
22.5°	2066.9	2062.2	2050.7	2046.0	2048.3
25°	2006.6	1997.3	1988.0	1983.4	1981.1
27.5°	1941.6	1932.3	1918.4	1911.5	1911.5
30°	1872.0	1865.1	1848.8	1839.6	1837.2
32.5°	1795.5	1790.8	1767.6	1763.0	1763.0
35°	1723.6	1709.6	1691.1	1681.8	1679.5
37.5°	1637.7	1628.5	1609.9	1598.3	1596.0
40°	1551.9	1540.3	1521.7	1512.5	1510.2
42.5°	1466.1	1454.5	1435.9	1424.3	1422.0
45°	1377.9	1368.6	1345.4	1333.9	1333.9
47.5°	1294.4	1275.9	1255.0	1245.7	1243.4
50°	1203.9	1187.7	1164.5	1155.2	1155.2
52.5°	1113.5	1101.9	1076.4	1071.7	1067.1
55°	1025.3	1006.8	988.2	976.6	974.3
57.5°	930.2	914.0	895.4	886.1	886.1
60°	849.0	828.1	811.9	800.3	800.3
62.5°	756.2	737.7	721.4	714.5	712.2
65°	668.1	654.2	635.6	628.6	628.6
67.5°	579.9	568.3	552.1	545.1	547.5
70°	494.1	487.1	475.5	466.3	463.9
72.5°	415.2	406.0	394.4	392.0	392.0
75°	341.0	329.4	320.1	315.5	322.4
77.5°	264.5	257.5	252.9	250.5	252.9
80°	197.2	187.9	185.6	187.9	187.9
82.5°	136.9	132.2	129.9	129.9	129.9
85°	76.6	76.6	74.2	71.9	69.6
87.5°	30.2	30.2	32.5	32.5	34.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)