

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: P601494

Luminaire Tested: 22CGSB-60-L830

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601494
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-L830
Description: 2x2 CGSB AT 6000lm 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

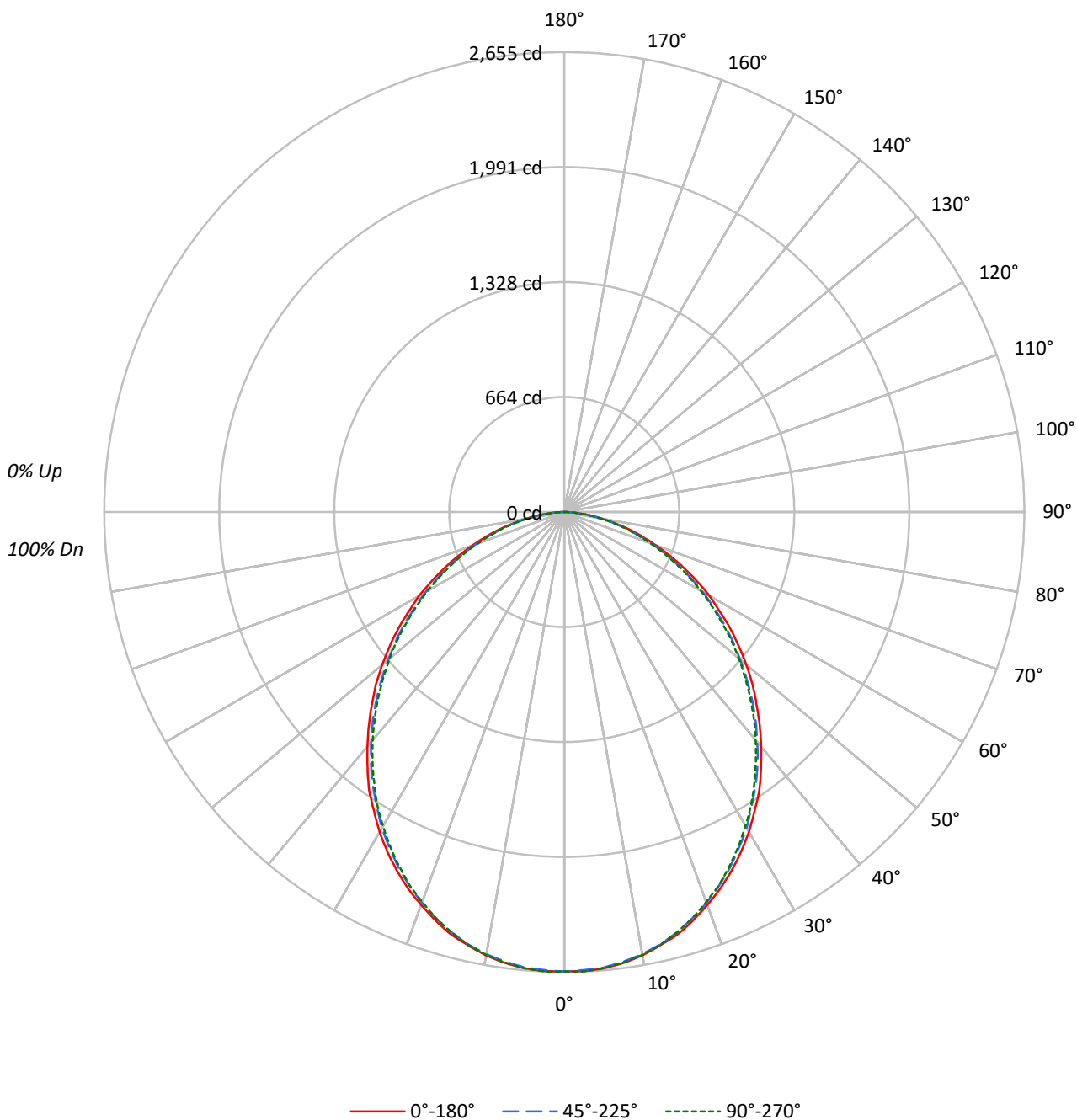
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6627.0 lumens
Efficiency: N/A
Efficacy: 123.6 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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CATALOG NUMBER: 22CGSB-60-L830

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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	7136	7136	7136
5°	7142	7128	7142
10°	7102	7080	7095
15°	7035	6998	6998
20°	6913	6876	6861
25°	6784	6721	6698
30°	6623	6541	6500
35°	6447	6326	6282
40°	6208	6087	6040
45°	5971	5830	5780
50°	5739	5551	5507
55°	5477	5279	5205
60°	5203	4976	4905
65°	4844	4608	4558
70°	4426	4260	4157
75°	4037	3790	3818
80°	3479	3274	3316
85°	2692	2609	2445

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5971 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.5	3.8
10°-20°	708.3	10.7
20°-30°	1043.2	15.7
30°-40°	1206.8	18.2
40°-50°	1186.4	17.9
50°-60°	1011.1	15.3
60°-70°	724.5	10.9
70°-80°	393.5	5.9
80°-90°	102.6	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°	2002.1	30.2
0°-40°	3208.9	48.4
0°-60°	5406.4	81.6
0°-90°	6627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6627.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2652	2652	2652	2652	2652	
5°	2644	2639	2639	2639	2644	251
15°	2525	2515	2512	2509	2512	711
25°	2285	2274	2264	2258	2256	1052
35°	1963	1947	1926	1915	1912	1224
45°	1569	1558	1532	1519	1519	1212
55°	1168	1146	1125	1112	1109	1042
65°	761	745	724	716	716	754
75°	388	375	364	359	367	410
85°	87	87	84	82	79	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2652.0	2652.0	2652.0	2652.0	2652.0
2.5°	2652.0	2649.3	2646.7	2649.3	2654.6
5°	2644.0	2638.8	2638.8	2638.8	2644.0
7.5°	2625.5	2620.3	2617.6	2620.3	2622.9
10°	2599.1	2593.8	2591.2	2593.8	2596.5
12.5°	2562.2	2559.5	2556.9	2556.9	2559.5
15°	2525.2	2514.6	2512.0	2509.3	2512.0
17.5°	2472.3	2469.7	2459.1	2459.1	2459.1
20°	2414.2	2409.0	2401.0	2395.7	2395.7
22.5°	2353.5	2348.2	2335.0	2329.7	2332.4
25°	2284.8	2274.2	2263.7	2258.4	2255.8
27.5°	2210.8	2200.3	2184.4	2176.5	2176.5
30°	2131.6	2123.7	2105.2	2094.6	2092.0
32.5°	2044.4	2039.2	2012.7	2007.5	2007.5
35°	1962.6	1946.7	1925.6	1915.0	1912.4
37.5°	1864.8	1854.3	1833.1	1819.9	1817.3
40°	1767.1	1753.9	1732.8	1722.2	1719.5
42.5°	1669.4	1656.2	1635.0	1621.8	1619.2
45°	1569.0	1558.4	1532.0	1518.8	1518.8
47.5°	1473.9	1452.8	1429.0	1418.4	1415.8
50°	1370.9	1352.4	1326.0	1315.4	1315.4
52.5°	1267.9	1254.7	1225.6	1220.3	1215.0
55°	1167.5	1146.4	1125.2	1112.0	1109.4
57.5°	1059.2	1040.7	1019.6	1009.0	1009.0
60°	966.8	943.0	924.5	911.3	911.3
62.5°	861.1	840.0	821.5	813.5	810.9
65°	760.7	744.9	723.7	715.8	715.8
67.5°	660.3	647.1	628.7	620.7	623.4
70°	562.6	554.7	541.5	530.9	528.3
72.5°	472.8	462.2	449.0	446.4	446.4
75°	388.3	375.1	364.5	359.2	367.2
77.5°	301.1	293.2	287.9	285.3	287.9
80°	224.5	214.0	211.3	214.0	214.0
82.5°	155.8	150.6	147.9	147.9	147.9
85°	87.2	87.2	84.5	81.9	79.2
87.5°	34.3	34.3	37.0	37.0	39.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)