

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: P601497

Luminaire Tested: 22CGSB-60-L850

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601497
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-L850
Description: 2x2 CGSB AT 6000lm 5000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

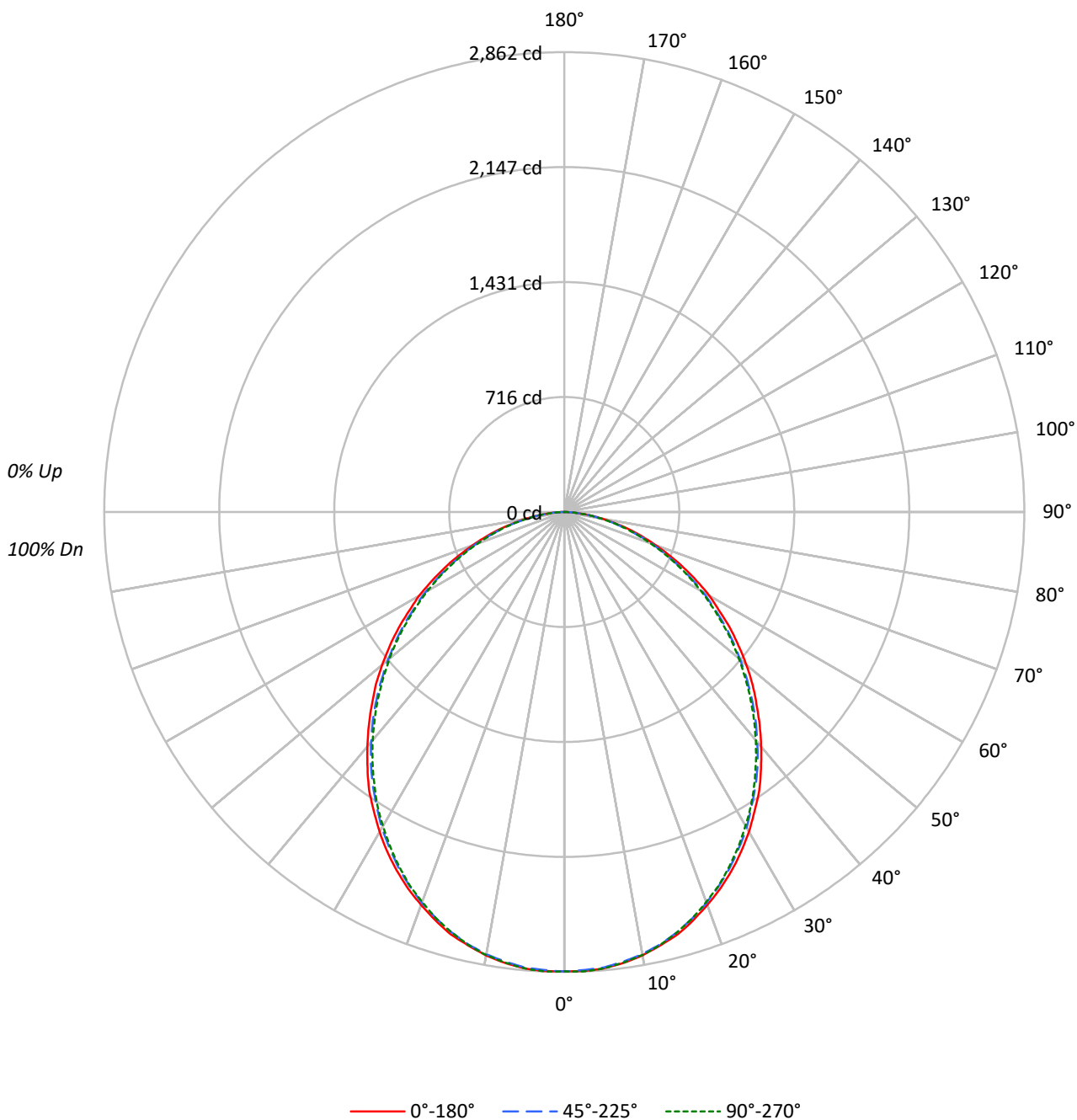
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7144.0 lumens
Efficiency: N/A
Efficacy: 133.3 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°	7693	7693	7693
5°	7699	7684	7699
10°	7656	7633	7649
15°	7584	7544	7544
20°	7453	7412	7396
25°	7313	7246	7220
30°	7140	7052	7008
35°	6950	6819	6773
40°	6692	6562	6512
45°	6437	6285	6231
50°	6187	5984	5936
55°	5905	5691	5611
60°	5609	5364	5287
65°	5222	4968	4914
70°	4772	4592	4481
75°	4352	4085	4115
80°	3750	3530	3574
85°	2902	2813	2637

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6437 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.0	3.8
10°-20°	763.6	10.7
20°-30°	1124.6	15.7
30°-40°	1301.0	18.2
40°-50°	1279.0	17.9
50°-60°	1090.0	15.3
60°-70°	781.0	10.9
70°-80°	424.2	5.9
80°-90°	110.7	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°	2158.2	30.2
0°-40°	3459.2	48.4
0°-60°	5828.2	81.6
0°-90°	7144.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7144.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2859	2859	2859	2859	2859	
5°	2850	2845	2845	2845	2850	270
15°	2722	2711	2708	2705	2708	766
25°	2463	2452	2440	2435	2432	1134
35°	2116	2099	2076	2064	2062	1319
45°	1691	1680	1652	1637	1637	1307
55°	1259	1236	1213	1199	1196	1124
65°	820	803	780	772	772	812
75°	419	404	393	387	396	442
85°	94	94	91	88	85	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2858.9	2858.9	2858.9	2858.9	2858.9
2.5°	2858.9	2856.0	2853.2	2856.0	2861.7
5°	2850.3	2844.6	2844.6	2844.6	2850.3
7.5°	2830.4	2824.7	2821.8	2824.7	2827.5
10°	2801.9	2796.2	2793.4	2796.2	2799.1
12.5°	2762.0	2759.2	2756.3	2756.3	2759.2
15°	2722.2	2710.8	2707.9	2705.1	2707.9
17.5°	2665.2	2662.4	2651.0	2651.0	2651.0
20°	2602.6	2596.9	2588.3	2582.6	2582.6
22.5°	2537.1	2531.4	2517.2	2511.5	2514.3
25°	2463.1	2451.7	2440.3	2434.6	2431.7
27.5°	2383.3	2371.9	2354.9	2346.3	2346.3
30°	2297.9	2289.4	2269.4	2258.0	2255.2
32.5°	2203.9	2198.2	2169.8	2164.1	2164.1
35°	2115.7	2098.6	2075.8	2064.4	2061.6
37.5°	2010.3	1998.9	1976.1	1961.9	1959.1
40°	1905.0	1890.7	1867.9	1856.5	1853.7
42.5°	1799.6	1785.4	1762.6	1748.3	1745.5
45°	1691.4	1680.0	1651.5	1637.3	1637.3
47.5°	1588.9	1566.1	1540.5	1529.1	1526.2
50°	1477.8	1457.9	1429.4	1418.0	1418.0
52.5°	1366.8	1352.5	1321.2	1315.5	1309.8
55°	1258.6	1235.8	1213.0	1198.8	1195.9
57.5°	1141.8	1121.9	1099.1	1087.7	1087.7
60°	1042.2	1016.5	996.6	982.4	982.4
62.5°	928.3	905.5	885.6	877.0	874.2
65°	820.1	803.0	780.2	771.7	771.7
67.5°	711.9	697.6	677.7	669.2	672.0
70°	606.5	598.0	583.7	572.3	569.5
72.5°	509.7	498.3	484.1	481.2	481.2
75°	418.6	404.3	392.9	387.3	395.8
77.5°	324.6	316.1	310.4	307.5	310.4
80°	242.0	230.6	227.8	230.6	230.6
82.5°	168.0	162.3	159.5	159.5	159.5
85°	94.0	94.0	91.1	88.3	85.4
87.5°	37.0	37.0	39.9	39.9	42.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)