

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: P601504

Luminaire Tested: 22CGSB-70-L840

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601504
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-70-L840
Description: 2x2 CGSB AT 7000lm 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

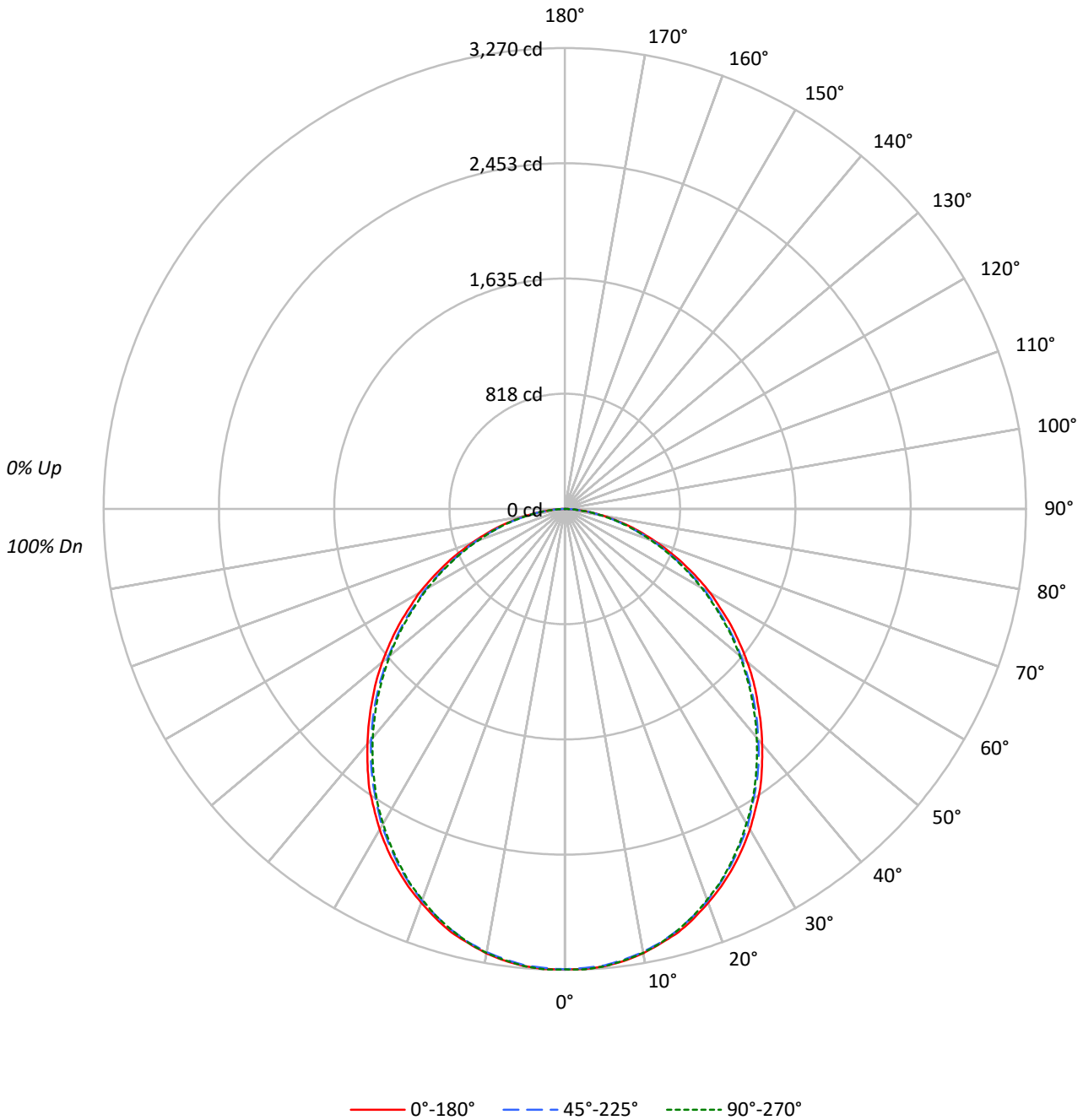
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8162.0 lumens
Efficiency: N/A
Efficacy: 129.6 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): 63
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°	8789	8789	8789
5°	8797	8779	8797
10°	8747	8720	8738
15°	8664	8619	8619
20°	8515	8468	8450
25°	8355	8278	8249
30°	8158	8057	8006
35°	7940	7791	7737
40°	7645	7497	7439
45°	7354	7181	7119
50°	7068	6837	6782
55°	6746	6502	6411
60°	6408	6128	6041
65°	5966	5676	5613
70°	5452	5247	5119
75°	4972	4667	4702
80°	4285	4034	4083
85°	3316	3214	3013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7354 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.5	3.8
10°-20°	872.4	10.7
20°-30°	1284.9	15.7
30°-40°	1486.3	18.2
40°-50°	1461.2	17.9
50°-60°	1245.3	15.3
60°-70°	892.3	10.9
70°-80°	484.6	5.9
80°-90°	126.4	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°	2465.8	30.2
0°-40°	3952.1	48.4
0°-60°	6658.7	81.6
0°-90°	8162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8162.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3266	3266	3266	3266	3266	
5°	3256	3250	3250	3250	3256	309
15°	3110	3097	3094	3091	3094	875
25°	2814	2801	2788	2782	2778	1295
35°	2417	2398	2372	2359	2355	1507
45°	1932	1919	1887	1871	1871	1493
55°	1438	1412	1386	1370	1366	1284
65°	937	917	891	882	882	928
75°	478	462	449	442	452	505
85°	107	107	104	101	98	131
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3266.2	3266.2	3266.2	3266.2	3266.2
2.5°	3266.2	3263.0	3259.7	3263.0	3269.5
5°	3256.5	3250.0	3250.0	3250.0	3256.5
7.5°	3233.7	3227.2	3223.9	3227.2	3230.4
10°	3201.2	3194.7	3191.4	3194.7	3197.9
12.5°	3155.6	3152.4	3149.1	3149.1	3152.4
15°	3110.1	3097.1	3093.8	3090.6	3093.8
17.5°	3045.0	3041.8	3028.7	3028.7	3028.7
20°	2973.4	2966.9	2957.2	2950.7	2950.7
22.5°	2898.6	2892.1	2875.8	2869.3	2872.6
25°	2814.0	2801.0	2788.0	2781.5	2778.2
27.5°	2722.9	2709.9	2690.4	2680.7	2680.7
30°	2625.3	2615.6	2592.8	2579.8	2576.5
32.5°	2518.0	2511.5	2479.0	2472.4	2472.4
35°	2417.1	2397.6	2371.6	2358.6	2355.3
37.5°	2296.8	2283.8	2257.7	2241.5	2238.2
40°	2176.4	2160.1	2134.1	2121.1	2117.8
42.5°	2056.0	2039.8	2013.7	1997.5	1994.2
45°	1932.4	1919.4	1886.9	1870.6	1870.6
47.5°	1815.3	1789.3	1760.0	1747.0	1743.7
50°	1688.4	1665.6	1633.1	1620.1	1620.1
52.5°	1561.5	1545.3	1509.5	1503.0	1496.5
55°	1437.9	1411.9	1385.9	1369.6	1366.4
57.5°	1304.5	1281.8	1255.7	1242.7	1242.7
60°	1190.7	1161.4	1138.6	1122.4	1122.4
62.5°	1060.5	1034.5	1011.8	1002.0	998.7
65°	936.9	917.4	891.4	881.6	881.6
67.5°	813.3	797.0	774.3	764.5	767.8
70°	692.9	683.2	666.9	653.9	650.6
72.5°	582.3	569.3	553.0	549.8	549.8
75°	478.2	462.0	448.9	442.4	452.2
77.5°	370.9	361.1	354.6	351.3	354.6
80°	276.5	263.5	260.3	263.5	263.5
82.5°	191.9	185.4	182.2	182.2	182.2
85°	107.4	107.4	104.1	100.8	97.6
87.5°	42.3	42.3	45.5	45.5	48.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)