

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: P601487

Luminaire Tested: 22CGSB-55-L835

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601487
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-55-L835
Description: 2x2 CGSB AT 5500lm 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

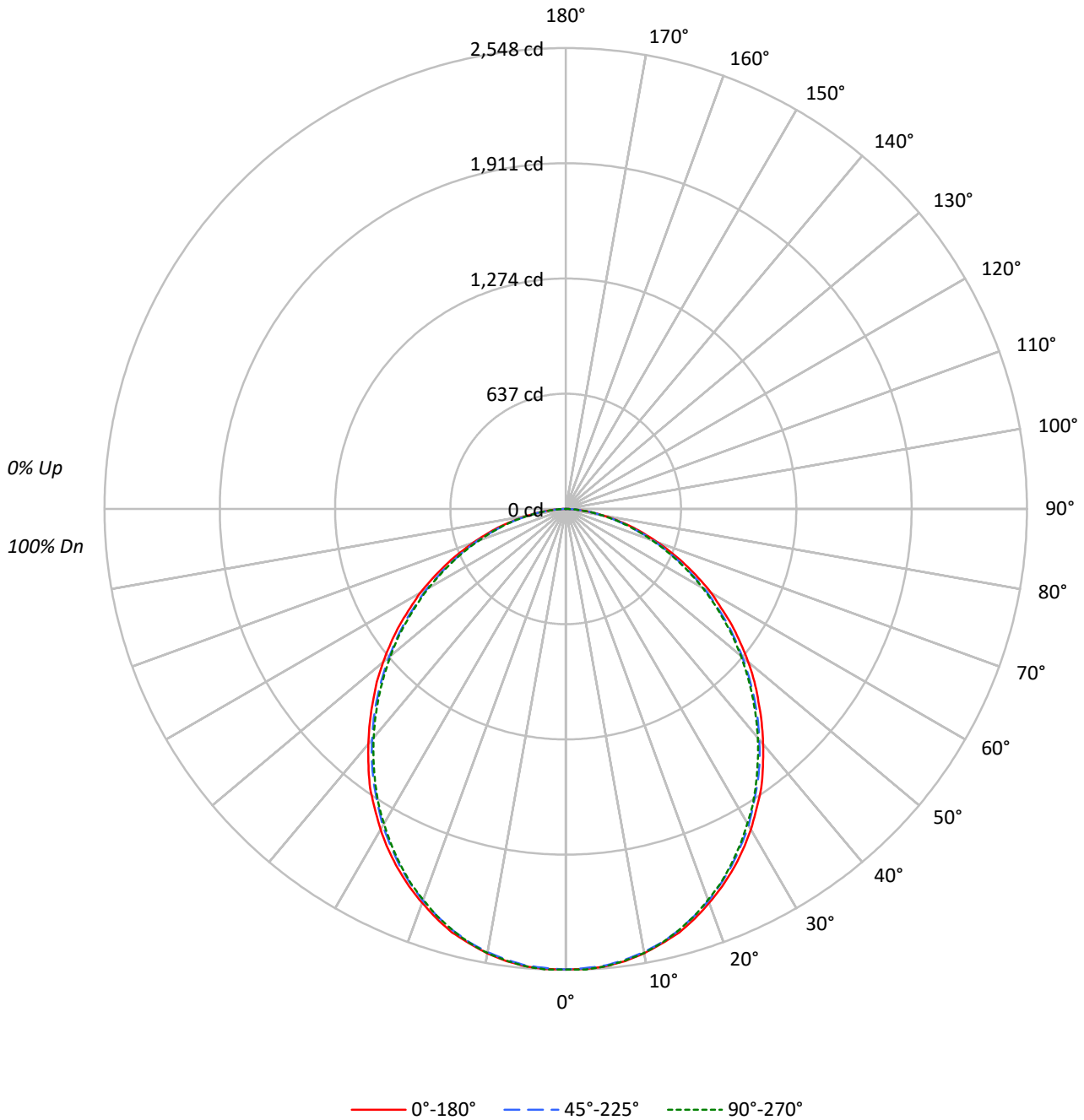
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6361.0 lumens
Efficiency: N/A
Efficacy: 137.7 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): 46.2
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°	6850	6850	6850
5°	6856	6842	6856
10°	6817	6796	6810
15°	6752	6717	6717
20°	6636	6600	6585
25°	6512	6451	6429
30°	6357	6279	6239
35°	6188	6072	6030
40°	5958	5843	5798
45°	5731	5596	5548
50°	5509	5328	5286
55°	5257	5067	4996
60°	4994	4776	4708
65°	4649	4423	4375
70°	4249	4090	3990
75°	3875	3638	3664
80°	3340	3143	3183
85°	2584	2504	2350

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5731 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.5	3.8
10°-20°	679.9	10.7
20°-30°	1001.4	15.7
30°-40°	1158.4	18.2
40°-50°	1138.8	17.9
50°-60°	970.5	15.3
60°-70°	695.4	10.9
70°-80°	377.7	5.9
80°-90°	98.5	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°	1921.7	30.2
0°-40°	3080.1	48.4
0°-60°	5189.4	81.6
0°-90°	6361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6361.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2546	2546	2546	2546	2546	
5°	2538	2533	2533	2533	2538	241
15°	2424	2414	2411	2409	2411	682
25°	2193	2183	2173	2168	2165	1010
35°	1884	1869	1848	1838	1836	1175
45°	1506	1496	1470	1458	1458	1163
55°	1121	1100	1080	1067	1065	1001
65°	730	715	695	687	687	723
75°	373	360	350	345	352	394
85°	84	84	81	79	76	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2545.5	2545.5	2545.5	2545.5	2545.5
2.5°	2545.5	2543.0	2540.4	2543.0	2548.0
5°	2537.9	2532.8	2532.8	2532.8	2537.9
7.5°	2520.2	2515.1	2512.6	2515.1	2517.6
10°	2494.8	2489.7	2487.2	2489.7	2492.3
12.5°	2459.3	2456.8	2454.2	2454.2	2456.8
15°	2423.8	2413.7	2411.1	2408.6	2411.1
17.5°	2373.1	2370.6	2360.4	2360.4	2360.4
20°	2317.3	2312.3	2304.7	2299.6	2299.6
22.5°	2259.0	2253.9	2241.3	2236.2	2238.7
25°	2193.1	2183.0	2172.8	2167.7	2165.2
27.5°	2122.1	2112.0	2096.8	2089.1	2089.1
30°	2046.0	2038.4	2020.7	2010.6	2008.0
32.5°	1962.4	1957.3	1932.0	1926.9	1926.9
35°	1883.8	1868.6	1848.3	1838.1	1835.6
37.5°	1790.0	1779.8	1759.5	1746.9	1744.3
40°	1696.2	1683.5	1663.2	1653.1	1650.5
42.5°	1602.4	1589.7	1569.4	1556.7	1554.2
45°	1506.0	1495.9	1470.5	1457.8	1457.8
47.5°	1414.7	1394.5	1371.6	1361.5	1359.0
50°	1315.9	1298.1	1272.8	1262.6	1262.6
52.5°	1217.0	1204.3	1176.4	1171.3	1166.3
55°	1120.6	1100.4	1080.1	1067.4	1064.9
57.5°	1016.7	998.9	978.7	968.5	968.5
60°	927.9	905.1	887.4	874.7	874.7
62.5°	826.5	806.2	788.5	780.9	778.4
65°	730.2	715.0	694.7	687.1	687.1
67.5°	633.8	621.2	603.4	595.8	598.3
70°	540.0	532.4	519.8	509.6	507.1
72.5°	453.8	443.7	431.0	428.5	428.5
75°	372.7	360.0	349.9	344.8	352.4
77.5°	289.0	281.4	276.4	273.8	276.4
80°	215.5	205.4	202.8	205.4	205.4
82.5°	149.6	144.5	142.0	142.0	142.0
85°	83.7	83.7	81.1	78.6	76.1
87.5°	33.0	33.0	35.5	35.5	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)