

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: P601488

Luminaire Tested: 22CGSB-55-L840

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601488
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-L840
Description: 2x2 CGSB AT 5500lm 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

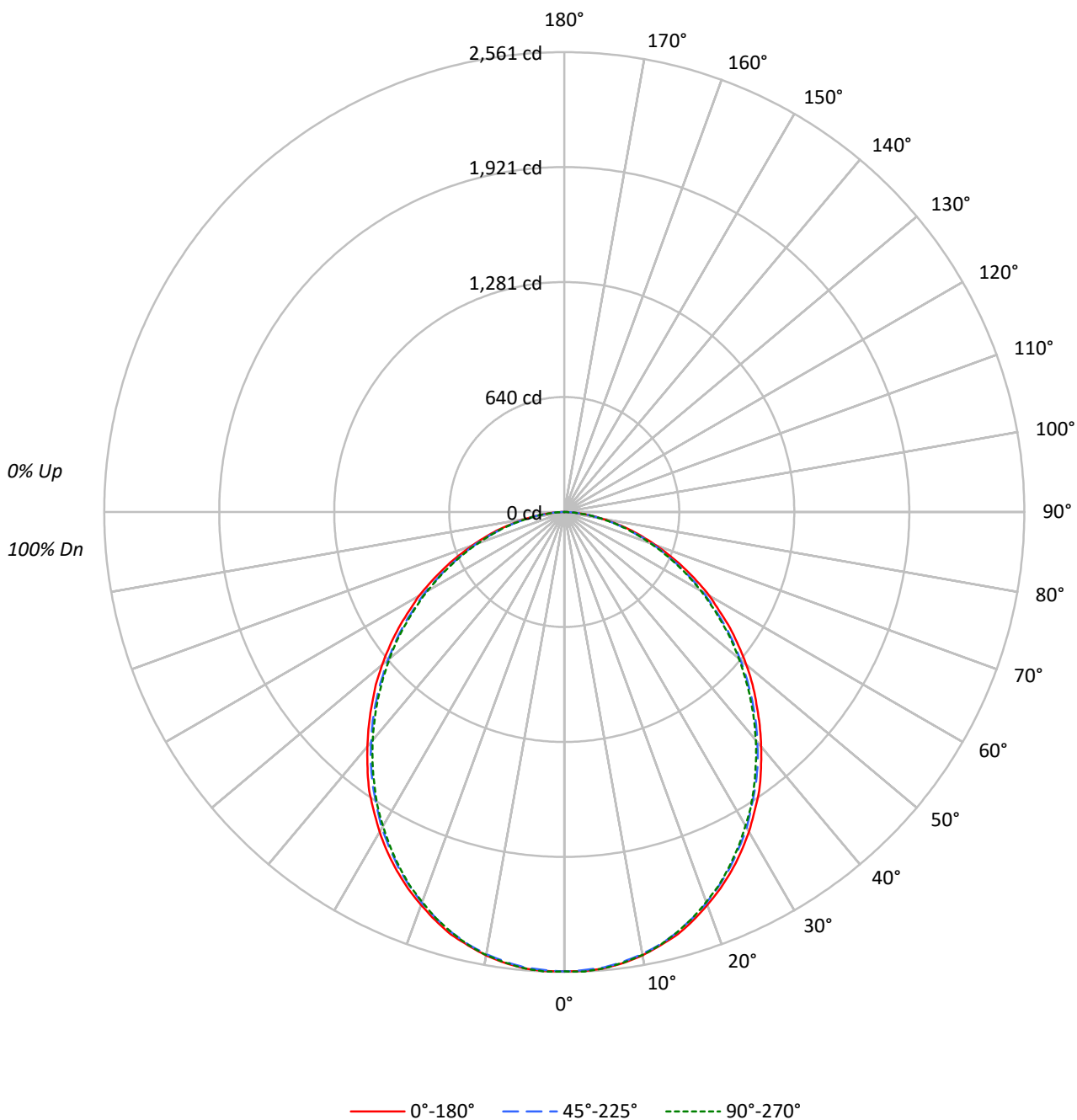
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6393.0 lumens
Efficiency: N/A
Efficacy: 138.4 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°	6884	6884	6884
5°	6890	6876	6890
10°	6851	6830	6844
15°	6786	6751	6751
20°	6670	6633	6619
25°	6544	6484	6461
30°	6389	6311	6271
35°	6220	6102	6060
40°	5988	5872	5827
45°	5760	5624	5576
50°	5537	5355	5313
55°	5284	5093	5021
60°	5019	4800	4731
65°	4673	4446	4397
70°	4271	4110	4009
75°	3895	3656	3683
80°	3357	3160	3199
85°	2597	2516	2359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5760 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.7	3.8
10°-20°	683.3	10.7
20°-30°	1006.4	15.7
30°-40°	1164.2	18.2
40°-50°	1144.5	17.9
50°-60°	975.4	15.3
60°-70°	698.9	10.9
70°-80°	379.6	5.9
80°-90°	99.0	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°	1931.4	30.2
0°-40°	3095.6	48.4
0°-60°	5215.5	81.6
0°-90°	6393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6393.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2558	2558	2558	2558	2558	
5°	2551	2546	2546	2546	2551	242
15°	2436	2426	2423	2421	2423	686
25°	2204	2194	2184	2179	2176	1015
35°	1893	1878	1858	1847	1845	1181
45°	1514	1503	1478	1465	1465	1169
55°	1126	1106	1086	1073	1070	1006
65°	734	719	698	690	690	727
75°	375	362	352	346	354	396
85°	84	84	82	79	76	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2558.3	2558.3	2558.3	2558.3	2558.3
2.5°	2558.3	2555.8	2553.2	2555.8	2560.9
5°	2550.7	2545.6	2545.6	2545.6	2550.7
7.5°	2532.8	2527.7	2525.2	2527.7	2530.3
10°	2507.4	2502.3	2499.7	2502.3	2504.8
12.5°	2471.7	2469.1	2466.6	2466.6	2469.1
15°	2436.0	2425.8	2423.3	2420.7	2423.3
17.5°	2385.0	2382.5	2372.3	2372.3	2372.3
20°	2329.0	2323.9	2316.2	2311.2	2311.2
22.5°	2270.4	2265.3	2252.5	2247.4	2250.0
25°	2204.1	2193.9	2183.7	2178.6	2176.1
27.5°	2132.8	2122.6	2107.3	2099.7	2099.7
30°	2056.3	2048.7	2030.9	2020.7	2018.1
32.5°	1972.3	1967.2	1941.7	1936.6	1936.6
35°	1893.3	1878.0	1857.6	1847.4	1844.8
37.5°	1799.0	1788.8	1768.4	1755.7	1753.1
40°	1704.7	1692.0	1671.6	1661.4	1658.8
42.5°	1610.4	1597.7	1577.3	1564.6	1562.0
45°	1513.6	1503.4	1477.9	1465.2	1465.2
47.5°	1421.9	1401.5	1378.5	1368.3	1365.8
50°	1322.5	1304.6	1279.2	1269.0	1269.0
52.5°	1223.1	1210.4	1182.3	1177.2	1172.1
55°	1126.3	1105.9	1085.5	1072.8	1070.2
57.5°	1021.8	1004.0	983.6	973.4	973.4
60°	932.6	909.7	891.8	879.1	879.1
62.5°	830.7	810.3	792.5	784.8	782.3
65°	733.9	718.6	698.2	690.5	690.5
67.5°	637.0	624.3	606.5	598.8	601.4
70°	542.8	535.1	522.4	512.2	509.6
72.5°	456.1	445.9	433.2	430.6	430.6
75°	374.6	361.8	351.6	346.5	354.2
77.5°	290.5	282.8	277.7	275.2	277.7
80°	216.6	206.4	203.9	206.4	206.4
82.5°	150.3	145.2	142.7	142.7	142.7
85°	84.1	84.1	81.5	79.0	76.4
87.5°	33.1	33.1	35.7	35.7	38.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)