

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: P601343

Luminaire Tested: 14CGSB-70-L835

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2311-233-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/24/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CGSB-70-L835
Description: 1x4 CGSB AT 7000lm 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

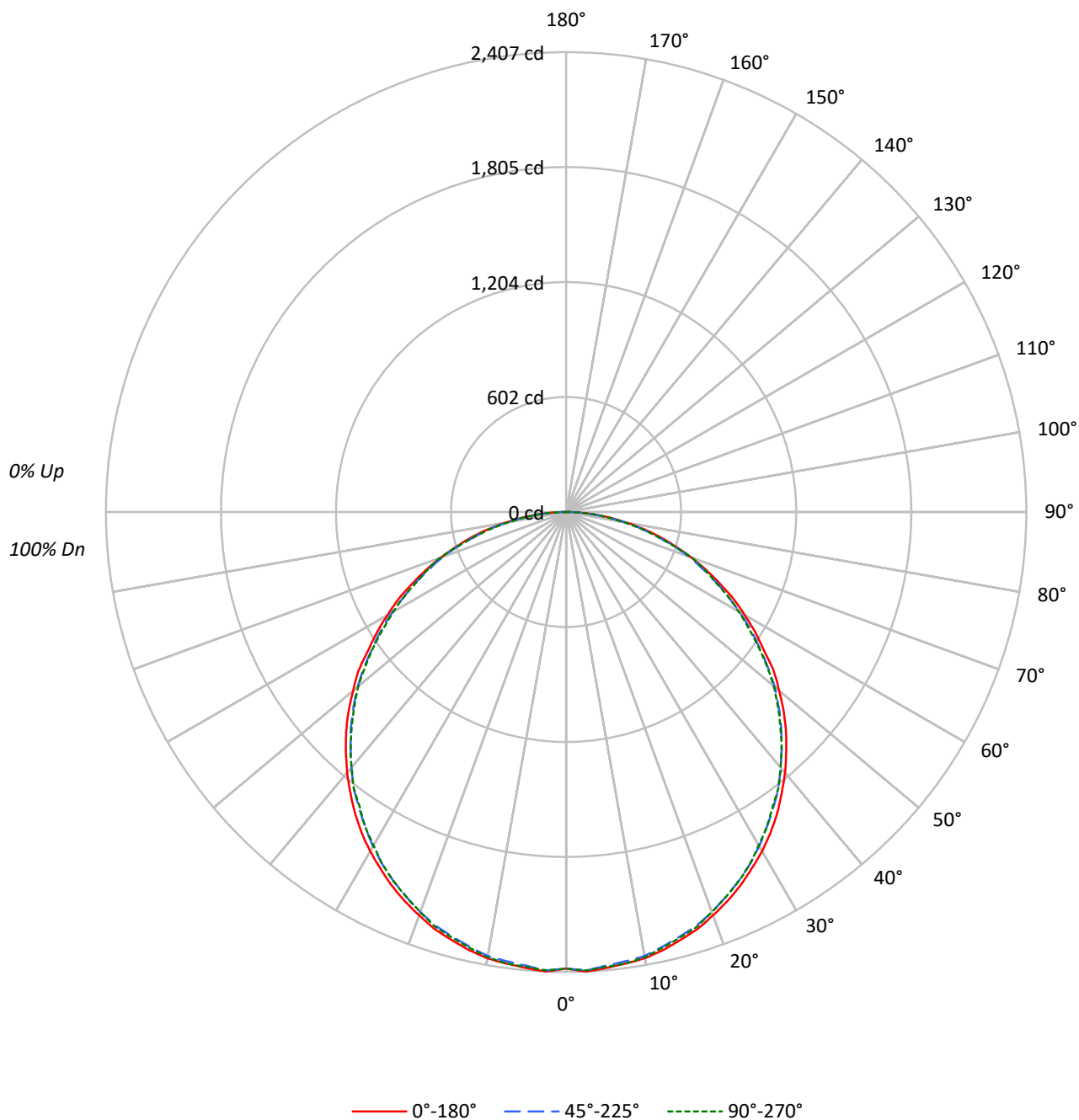
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6937.0 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 74.8
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				0
RW	70	50	30	10	70	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		100
1	108	103	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	33	28		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6430	6430	6430
5°	6471	6438	6454
10°	6480	6448	6464
15°	6457	6408	6424
20°	6433	6382	6382
25°	6404	6334	6334
30°	6369	6277	6258
35°	6322	6205	6185
40°	6258	6133	6133
45°	6191	6055	6032
50°	6087	5962	5937
55°	5926	5787	5759
60°	5804	5644	5612
65°	5653	5501	5463
70°	5485	5391	5532
75°	5327	5080	5080
80°	4987	4894	4709
85°	4600	4415	4415

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6191 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.2	3.3
10°-20°	651.3	9.4
20°-30°	985.4	14.2
30°-40°	1187.4	17.1
40°-50°	1233.0	17.8
50°-60°	1110.4	16.0
60°-70°	858.0	12.4
70°-80°	522.8	7.5
80°-90°	161.6	2.3
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°	1863.9	26.9
0°-40°	3051.3	44.0
0°-60°	5394.7	77.8
0°-90°	6937.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6937.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2389	2389	2389	2389	2389	
5°	2395	2389	2384	2384	2389	228
15°	2318	2312	2300	2300	2306	655
25°	2157	2151	2133	2127	2133	994
35°	1925	1913	1889	1883	1883	1203
45°	1627	1615	1591	1585	1585	1253
55°	1263	1251	1233	1228	1228	1135
65°	888	870	864	852	858	880
75°	512	495	489	483	489	538
85°	149	149	143	137	143	169
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2389.4	2389.4	2389.4	2389.4	2389.4
2.5°	2407.3	2407.3	2401.3	2401.3	2401.3
5°	2395.4	2389.4	2383.5	2383.5	2389.4
7.5°	2383.5	2383.5	2371.5	2371.5	2383.5
10°	2371.5	2365.6	2359.6	2359.6	2365.6
12.5°	2347.7	2341.7	2329.8	2329.8	2335.8
15°	2317.9	2312.0	2300.0	2300.0	2306.0
17.5°	2288.1	2282.2	2270.2	2270.2	2276.2
20°	2246.4	2240.5	2228.5	2222.6	2228.5
22.5°	2204.7	2198.7	2180.9	2174.9	2180.9
25°	2157.0	2151.1	2133.2	2127.2	2133.2
27.5°	2103.4	2097.4	2079.6	2073.6	2079.6
30°	2049.8	2037.9	2020.0	2008.1	2014.0
32.5°	1990.2	1978.3	1954.4	1948.5	1954.4
35°	1924.6	1912.7	1888.9	1882.9	1882.9
37.5°	1853.1	1847.2	1823.3	1817.4	1823.3
40°	1781.6	1769.7	1745.9	1739.9	1745.9
42.5°	1704.2	1692.3	1668.4	1668.4	1668.4
45°	1626.7	1614.8	1591.0	1585.0	1585.0
47.5°	1543.3	1531.4	1507.5	1501.6	1501.6
50°	1453.9	1442.0	1424.1	1418.2	1418.2
52.5°	1370.5	1352.6	1328.8	1322.8	1322.8
55°	1263.2	1251.3	1233.4	1227.5	1227.5
57.5°	1173.9	1156.0	1144.1	1132.1	1132.1
60°	1078.5	1060.6	1048.7	1042.8	1042.8
62.5°	989.1	965.3	953.4	947.4	953.4
65°	887.8	870.0	864.0	852.1	858.0
67.5°	792.5	774.6	768.7	768.7	780.6
70°	697.2	679.3	685.2	667.4	703.1
72.5°	601.8	589.9	589.9	572.0	589.9
75°	512.4	494.6	488.6	482.7	488.6
77.5°	417.1	411.1	405.2	393.3	399.2
80°	321.8	333.7	315.8	297.9	303.9
82.5°	238.3	232.4	220.5	214.5	220.5
85°	149.0	149.0	143.0	137.0	143.0
87.5°	71.5	71.5	65.5	65.5	71.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)