

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: P601342

Luminaire Tested: 14CGSB-70-L830

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601342
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-L830
Description: 1x4 CGSB AT 7000lm 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

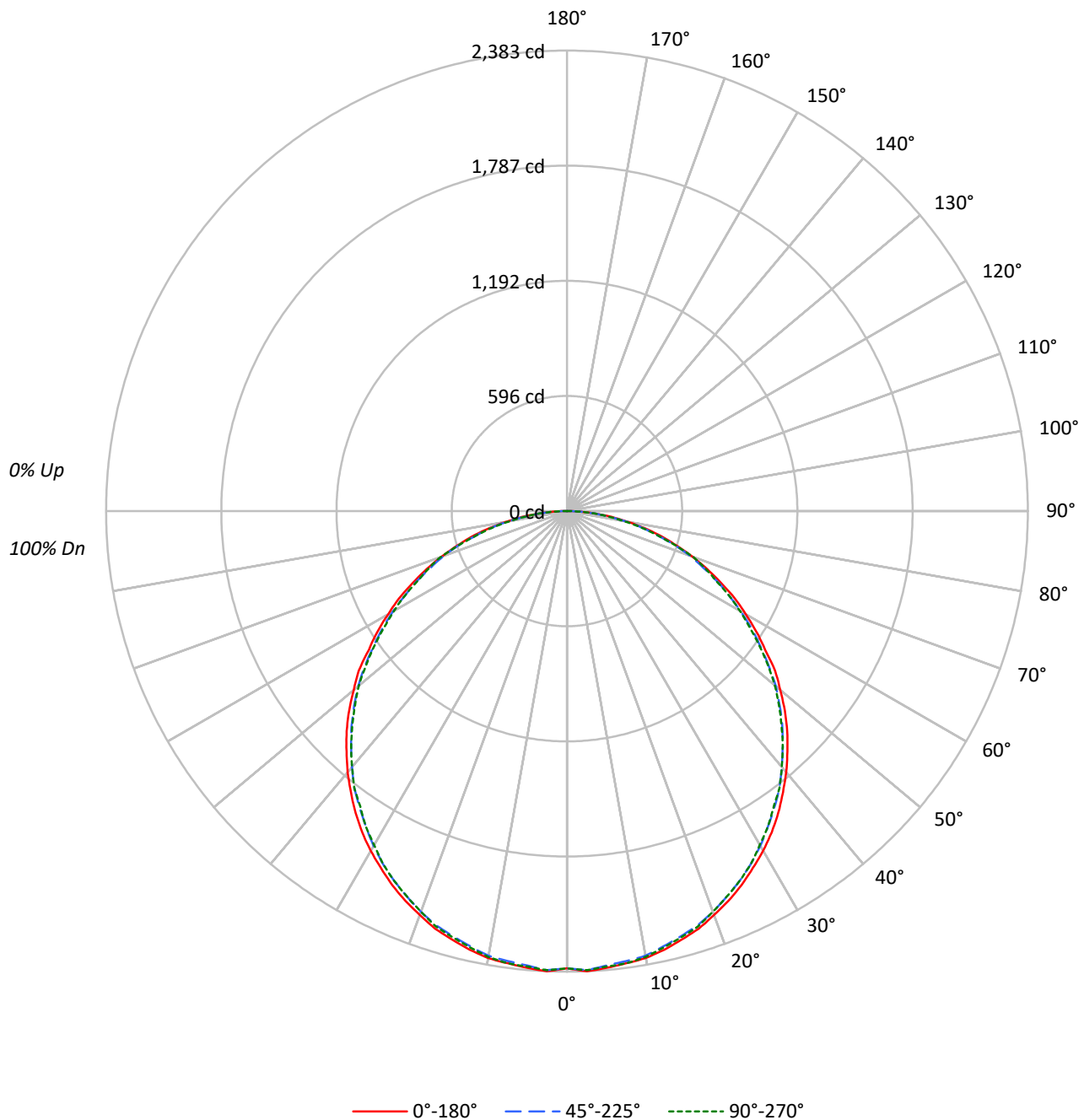
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6867.7 lumens
Efficiency: N/A
Efficacy: 91.8 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	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	85	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	71	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	60	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	51	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	45	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6366	6366	6366
5°	6406	6374	6390
10°	6415	6383	6399
15°	6393	6344	6360
20°	6369	6318	6318
25°	6341	6271	6271
30°	6306	6214	6196
35°	6259	6143	6124
40°	6196	6072	6072
45°	6129	5994	5971
50°	6026	5902	5878
55°	5867	5729	5701
60°	5746	5588	5556
65°	5597	5447	5409
70°	5430	5338	5477
75°	5274	5029	5029
80°	4936	4846	4663
85°	4554	4372	4372

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6129 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.0	3.3
10°-20°	644.7	9.4
20°-30°	975.6	14.2
30°-40°	1175.5	17.1
40°-50°	1220.7	17.8
50°-60°	1099.3	16.0
60°-70°	849.4	12.4
70°-80°	517.5	7.5
80°-90°	160.0	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°	1845.3	26.9
0°-40°	3020.8	44.0
0°-60°	5340.7	77.8
0°-90°	6867.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6867.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2366	2366	2366	2366	2366	
5°	2371	2366	2360	2360	2366	226
15°	2295	2289	2277	2277	2283	648
25°	2136	2130	2112	2106	2112	984
35°	1905	1894	1870	1864	1864	1191
45°	1610	1599	1575	1569	1569	1241
55°	1251	1239	1221	1215	1215	1123
65°	879	861	855	844	850	872
75°	507	490	484	478	484	533
85°	148	148	142	136	142	167
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2365.5	2365.5	2365.5	2365.5	2365.5
2.5°	2383.2	2383.2	2377.3	2377.3	2377.3
5°	2371.4	2365.5	2359.6	2359.6	2365.5
7.5°	2359.6	2359.6	2347.8	2347.8	2359.6
10°	2347.8	2341.9	2336.0	2336.0	2341.9
12.5°	2324.2	2318.3	2306.5	2306.5	2312.4
15°	2294.7	2288.8	2277.0	2277.0	2282.9
17.5°	2265.2	2259.3	2247.5	2247.5	2253.4
20°	2223.9	2218.0	2206.2	2200.3	2206.2
22.5°	2182.7	2176.8	2159.1	2153.2	2159.1
25°	2135.5	2129.6	2111.9	2106.0	2111.9
27.5°	2082.4	2076.5	2058.8	2052.9	2058.8
30°	2029.3	2017.5	1999.8	1988.0	1993.9
32.5°	1970.3	1958.5	1934.9	1929.0	1934.9
35°	1905.4	1893.6	1870.0	1864.1	1864.1
37.5°	1834.6	1828.7	1805.1	1799.2	1805.1
40°	1763.8	1752.0	1728.4	1722.5	1728.4
42.5°	1687.1	1675.3	1651.7	1651.7	1651.7
45°	1610.4	1598.6	1575.0	1569.1	1569.1
47.5°	1527.9	1516.1	1492.5	1486.6	1486.6
50°	1439.4	1427.6	1409.9	1404.0	1404.0
52.5°	1356.8	1339.1	1315.5	1309.6	1309.6
55°	1250.6	1238.8	1221.1	1215.2	1215.2
57.5°	1162.1	1144.4	1132.6	1120.8	1120.8
60°	1067.7	1050.0	1038.2	1032.3	1032.3
62.5°	979.2	955.6	943.8	938.0	943.8
65°	879.0	861.3	855.4	843.6	849.5
67.5°	784.6	766.9	761.0	761.0	772.8
70°	690.2	672.5	678.4	660.7	696.1
72.5°	595.8	584.0	584.0	566.3	584.0
75°	507.3	489.6	483.7	477.8	483.7
77.5°	412.9	407.0	401.1	389.3	395.2
80°	318.5	330.3	312.7	295.0	300.9
82.5°	236.0	230.1	218.3	212.4	218.3
85°	147.5	147.5	141.6	135.7	141.6
87.5°	70.8	70.8	64.9	64.9	70.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)