

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: P601326

Luminaire Tested: 14CGSB-55-L830

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601326
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-55-L830
Description: 1x4 CGSB AT 5500lm 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

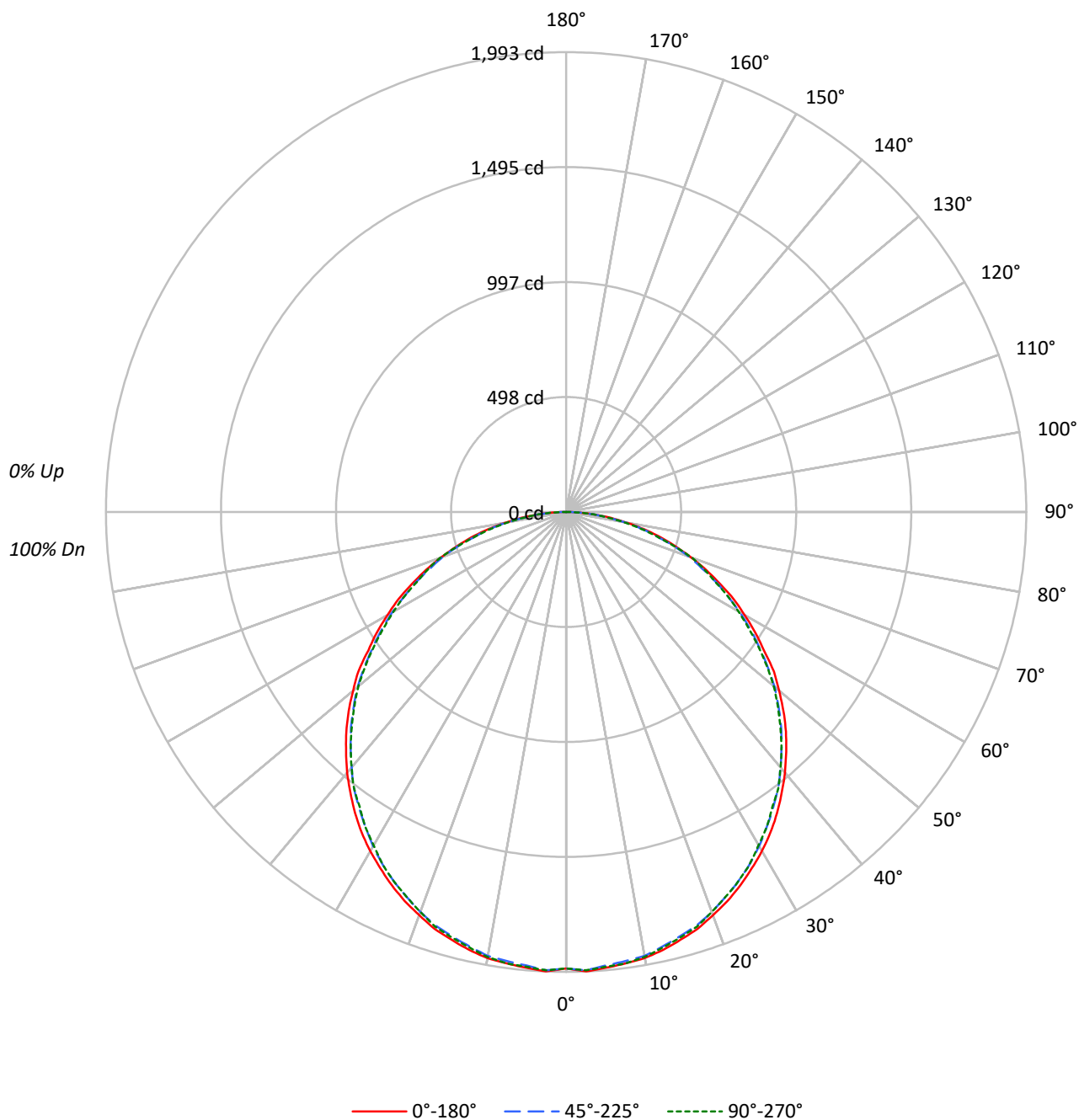
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5742.0 lumens
Efficiency: N/A
Efficacy: 86.2 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): 66.6
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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	71	64	87	77	70	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	64	51	42	36	63	50	42	36		48	41	35		47	40	35		46	39	35
8	60	46	38	32	58	46	37	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	33	28		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5322	5322	5322
5°	5356	5329	5343
10°	5364	5337	5350
15°	5345	5304	5317
20°	5325	5282	5282
25°	5301	5243	5243
30°	5272	5195	5180
35°	5233	5136	5120
40°	5180	5076	5076
45°	5124	5012	4993
50°	5038	4935	4914
55°	4906	4790	4767
60°	4804	4672	4645
65°	4679	4554	4522
70°	4541	4463	4579
75°	4410	4205	4205
80°	4127	4051	3897
85°	3807	3656	3656

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5124 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.1	3.3
10°-20°	539.1	9.4
20°-30°	815.7	14.2
30°-40°	982.9	17.1
40°-50°	1020.6	17.8
50°-60°	919.1	16.0
60°-70°	710.2	12.4
70°-80°	432.7	7.5
80°-90°	133.8	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°	1542.8	26.9
0°-40°	2525.7	44.0
0°-60°	4465.4	77.8
0°-90°	5742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5742.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1978	1978	1978	1978	1978	
5°	1983	1978	1973	1973	1978	189
15°	1919	1914	1904	1904	1909	542
25°	1785	1780	1766	1761	1766	823
35°	1593	1583	1564	1559	1559	996
45°	1346	1337	1317	1312	1312	1038
55°	1046	1036	1021	1016	1016	939
65°	735	720	715	705	710	729
75°	424	409	404	400	404	446
85°	123	123	118	113	118	140
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1977.8	1977.8	1977.8	1977.8	1977.8
2.5°	1992.6	1992.6	1987.7	1987.7	1987.7
5°	1982.7	1977.8	1972.9	1972.9	1977.8
7.5°	1972.9	1972.9	1963.0	1963.0	1972.9
10°	1963.0	1958.1	1953.1	1953.1	1958.1
12.5°	1943.3	1938.3	1928.5	1928.5	1933.4
15°	1918.6	1913.7	1903.8	1903.8	1908.7
17.5°	1893.9	1889.0	1879.1	1879.1	1884.1
20°	1859.4	1854.5	1844.6	1839.7	1844.6
22.5°	1824.9	1820.0	1805.2	1800.2	1805.2
25°	1785.4	1780.5	1765.7	1760.8	1765.7
27.5°	1741.0	1736.1	1721.3	1716.4	1721.3
30°	1696.7	1686.8	1672.0	1662.1	1667.1
32.5°	1647.3	1637.5	1617.7	1612.8	1617.7
35°	1593.1	1583.2	1563.5	1558.6	1558.6
37.5°	1533.9	1529.0	1509.2	1504.3	1509.2
40°	1474.7	1464.8	1445.1	1440.2	1445.1
42.5°	1410.6	1400.7	1381.0	1381.0	1381.0
45°	1346.5	1336.6	1316.9	1312.0	1312.0
47.5°	1277.4	1267.6	1247.8	1242.9	1242.9
50°	1203.4	1193.6	1178.8	1173.9	1173.9
52.5°	1134.4	1119.6	1099.9	1094.9	1094.9
55°	1045.6	1035.8	1021.0	1016.0	1016.0
57.5°	971.6	956.8	947.0	937.1	937.1
60°	892.7	877.9	868.1	863.1	863.1
62.5°	818.7	799.0	789.1	784.2	789.1
65°	734.9	720.1	715.2	705.3	710.2
67.5°	656.0	641.2	636.2	636.2	646.1
70°	577.1	562.3	567.2	552.4	582.0
72.5°	498.1	488.3	488.3	473.5	488.3
75°	424.2	409.4	404.4	399.5	404.4
77.5°	345.3	340.3	335.4	325.5	330.5
80°	266.3	276.2	261.4	246.6	251.5
82.5°	197.3	192.4	182.5	177.6	182.5
85°	123.3	123.3	118.4	113.4	118.4
87.5°	59.2	59.2	54.3	54.3	59.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)