

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: P601273

Luminaire Tested: 14CGSB-20-L850

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601273
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-20-L850
Description: 1x4 CGSB AT 2000lm 5000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

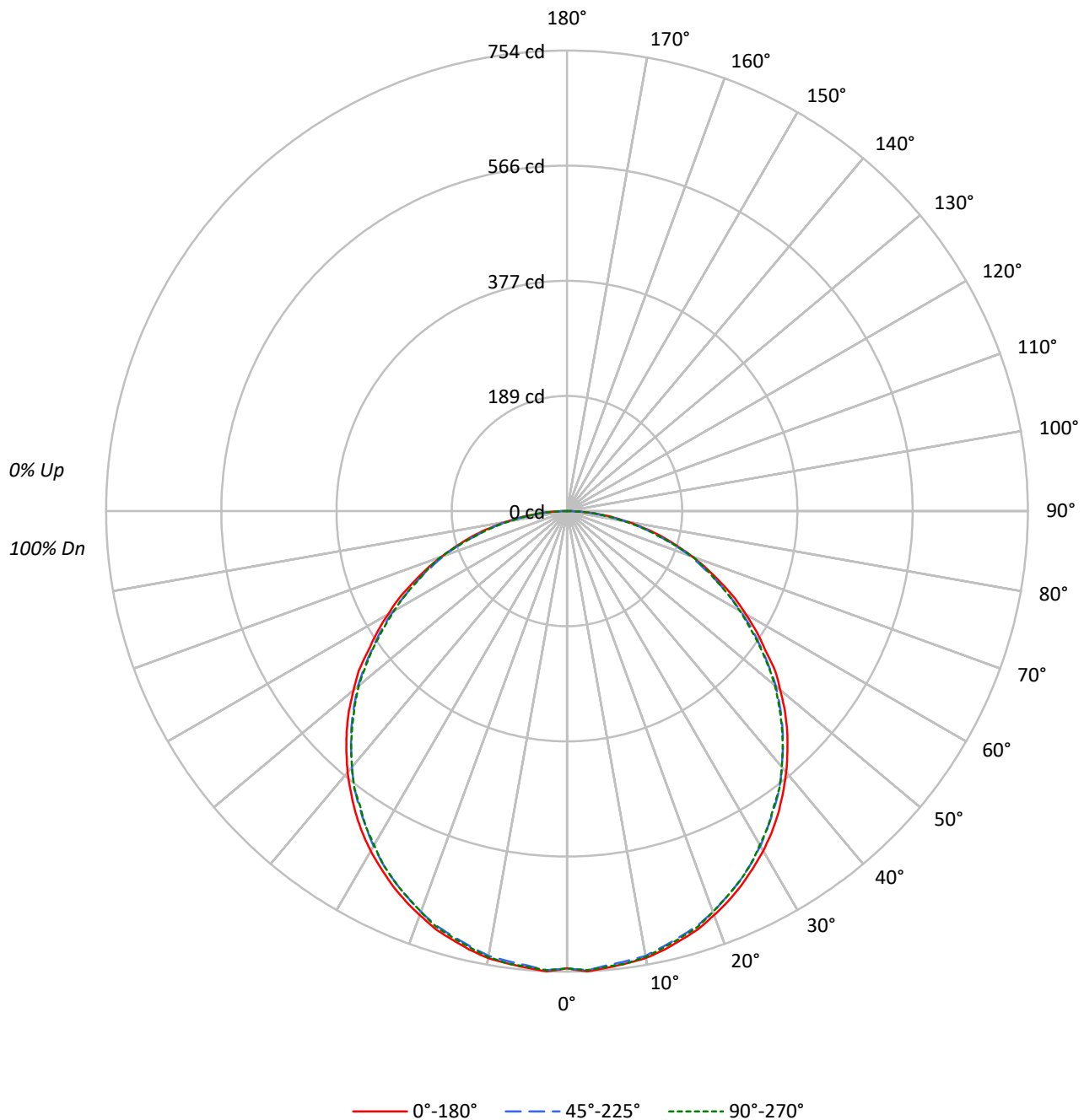
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2173.4 lumens
Efficiency: N/A
Efficacy: 96.6 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): 22.5
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°	2014	2014	2014
5°	2027	2017	2022
10°	2030	2020	2025
15°	2023	2008	2013
20°	2015	1999	1999
25°	2007	1984	1984
30°	1995	1967	1961
35°	1981	1944	1938
40°	1961	1922	1922
45°	1939	1897	1890
50°	1907	1868	1860
55°	1857	1813	1804
60°	1819	1769	1758
65°	1771	1724	1712
70°	1718	1689	1733
75°	1669	1592	1592
80°	1562	1533	1475
85°	1442	1383	1383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1939 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	3.3
10°-20°	204.0	9.4
20°-30°	308.7	14.2
30°-40°	372.0	17.1
40°-50°	386.3	17.8
50°-60°	347.9	16.0
60°-70°	268.8	12.4
70°-80°	163.8	7.5
80°-90°	50.6	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°	584.0	26.9
0°-40°	956.0	44.0
0°-60°	1690.2	77.8
0°-90°	2173.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2173.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	750	749	747	747	749	71
15°	726	724	721	721	722	205
25°	676	674	668	666	668	311
35°	603	599	592	590	590	377
45°	510	506	498	497	497	393
55°	396	392	386	385	385	356
65°	278	273	271	267	269	276
75°	160	155	153	151	153	169
85°	47	47	45	43	45	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	748.6	748.6	748.6	748.6	748.6
2.5°	754.2	754.2	752.3	752.3	752.3
5°	750.5	748.6	746.7	746.7	748.6
7.5°	746.7	746.7	743.0	743.0	746.7
10°	743.0	741.1	739.3	739.3	741.1
12.5°	735.5	733.7	729.9	729.9	731.8
15°	726.2	724.3	720.6	720.6	722.5
17.5°	716.9	715.0	711.3	711.3	713.1
20°	703.8	701.9	698.2	696.3	698.2
22.5°	690.7	688.9	683.3	681.4	683.3
25°	675.8	673.9	668.3	666.5	668.3
27.5°	659.0	657.1	651.5	649.7	651.5
30°	642.2	638.5	632.9	629.1	631.0
32.5°	623.5	619.8	612.3	610.5	612.3
35°	603.0	599.3	591.8	589.9	589.9
37.5°	580.6	578.7	571.3	569.4	571.3
40°	558.2	554.5	547.0	545.1	547.0
42.5°	533.9	530.2	522.7	522.7	522.7
45°	509.6	505.9	498.4	496.6	496.6
47.5°	483.5	479.8	472.3	470.4	470.4
50°	455.5	451.8	446.2	444.3	444.3
52.5°	429.4	423.8	416.3	414.4	414.4
55°	395.8	392.0	386.4	384.6	384.6
57.5°	367.8	362.2	358.4	354.7	354.7
60°	337.9	332.3	328.6	326.7	326.7
62.5°	309.9	302.4	298.7	296.8	298.7
65°	278.2	272.6	270.7	267.0	268.8
67.5°	248.3	242.7	240.8	240.8	244.6
70°	218.4	212.8	214.7	209.1	220.3
72.5°	188.6	184.8	184.8	179.2	184.8
75°	160.5	154.9	153.1	151.2	153.1
77.5°	130.7	128.8	126.9	123.2	125.1
80°	100.8	104.5	98.9	93.3	95.2
82.5°	74.7	72.8	69.1	67.2	69.1
85°	46.7	46.7	44.8	42.9	44.8
87.5°	22.4	22.4	20.5	20.5	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)