

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: P601276

Luminaire Tested: 14CGSB-20-L940

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601276
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-L940
Description: 1x4 CGSB AT 2000lm 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

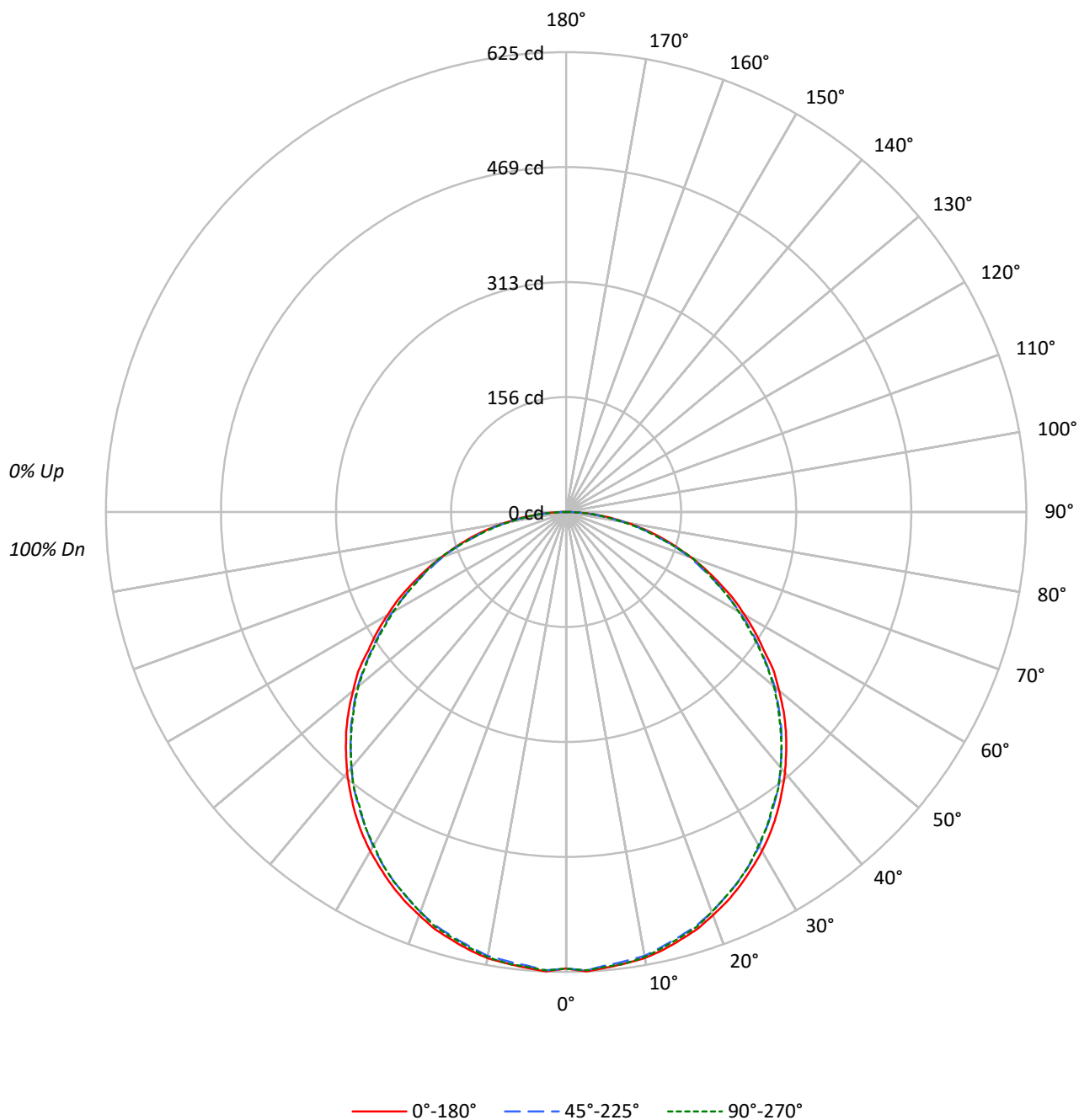
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1800.8 lumens
Efficiency: N/A
Efficacy: 80.0 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°	1669	1669	1669
5°	1680	1671	1676
10°	1682	1674	1678
15°	1676	1663	1668
20°	1670	1657	1657
25°	1662	1644	1644
30°	1653	1629	1624
35°	1641	1611	1606
40°	1625	1592	1592
45°	1607	1572	1566
50°	1580	1548	1541
55°	1538	1502	1495
60°	1507	1465	1457
65°	1468	1428	1418
70°	1424	1400	1436
75°	1383	1318	1318
80°	1294	1271	1223
85°	1195	1145	1145

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1607 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	3.3
10°-20°	169.1	9.4
20°-30°	255.8	14.2
30°-40°	308.2	17.1
40°-50°	320.1	17.8
50°-60°	288.2	16.0
60°-70°	222.7	12.4
70°-80°	135.7	7.5
80°-90°	42.0	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°	483.9	26.9
0°-40°	792.1	44.0
0°-60°	1400.4	77.8
0°-90°	1800.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1800.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	620	620	620	620	620	
5°	622	620	619	619	620	59
15°	602	600	597	597	599	170
25°	560	558	554	552	554	258
35°	500	496	490	489	489	312
45°	422	419	413	412	412	325
55°	328	325	320	319	319	295
65°	230	226	224	221	223	229
75°	133	128	127	125	127	140
85°	39	39	37	36	37	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	620.3	620.3	620.3	620.3	620.3
2.5°	624.9	624.9	623.4	623.4	623.4
5°	621.8	620.3	618.7	618.7	620.3
7.5°	618.7	618.7	615.6	615.6	618.7
10°	615.6	614.1	612.5	612.5	614.1
12.5°	609.4	607.9	604.8	604.8	606.4
15°	601.7	600.2	597.1	597.1	598.6
17.5°	594.0	592.4	589.3	589.3	590.9
20°	583.1	581.6	578.5	577.0	578.5
22.5°	572.3	570.8	566.1	564.6	566.1
25°	559.9	558.4	553.8	552.2	553.8
27.5°	546.0	544.5	539.8	538.3	539.8
30°	532.1	529.0	524.4	521.3	522.8
32.5°	516.6	513.5	507.4	505.8	507.4
35°	499.6	496.5	490.3	488.8	488.8
37.5°	481.1	479.5	473.3	471.8	473.3
40°	462.5	459.4	453.2	451.7	453.2
42.5°	442.4	439.3	433.1	433.1	433.1
45°	422.3	419.2	413.0	411.5	411.5
47.5°	400.6	397.5	391.3	389.8	389.8
50°	377.4	374.3	369.7	368.1	368.1
52.5°	355.8	351.1	344.9	343.4	343.4
55°	327.9	324.8	320.2	318.6	318.6
57.5°	304.7	300.1	297.0	293.9	293.9
60°	280.0	275.3	272.2	270.7	270.7
62.5°	256.8	250.6	247.5	245.9	247.5
65°	230.5	225.8	224.3	221.2	222.7
67.5°	205.7	201.1	199.5	199.5	202.6
70°	181.0	176.3	177.9	173.2	182.5
72.5°	156.2	153.1	153.1	148.5	153.1
75°	133.0	128.4	126.8	125.3	126.8
77.5°	108.3	106.7	105.2	102.1	103.6
80°	83.5	86.6	82.0	77.3	78.9
82.5°	61.9	60.3	57.2	55.7	57.2
85°	38.7	38.7	37.1	35.6	37.1
87.5°	18.6	18.6	17.0	17.0	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)