

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: P601283

Luminaire Tested: 14CGSB-25-L935

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601283
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-25-L935
Description: 1x4 CGSB AT 2500lm 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

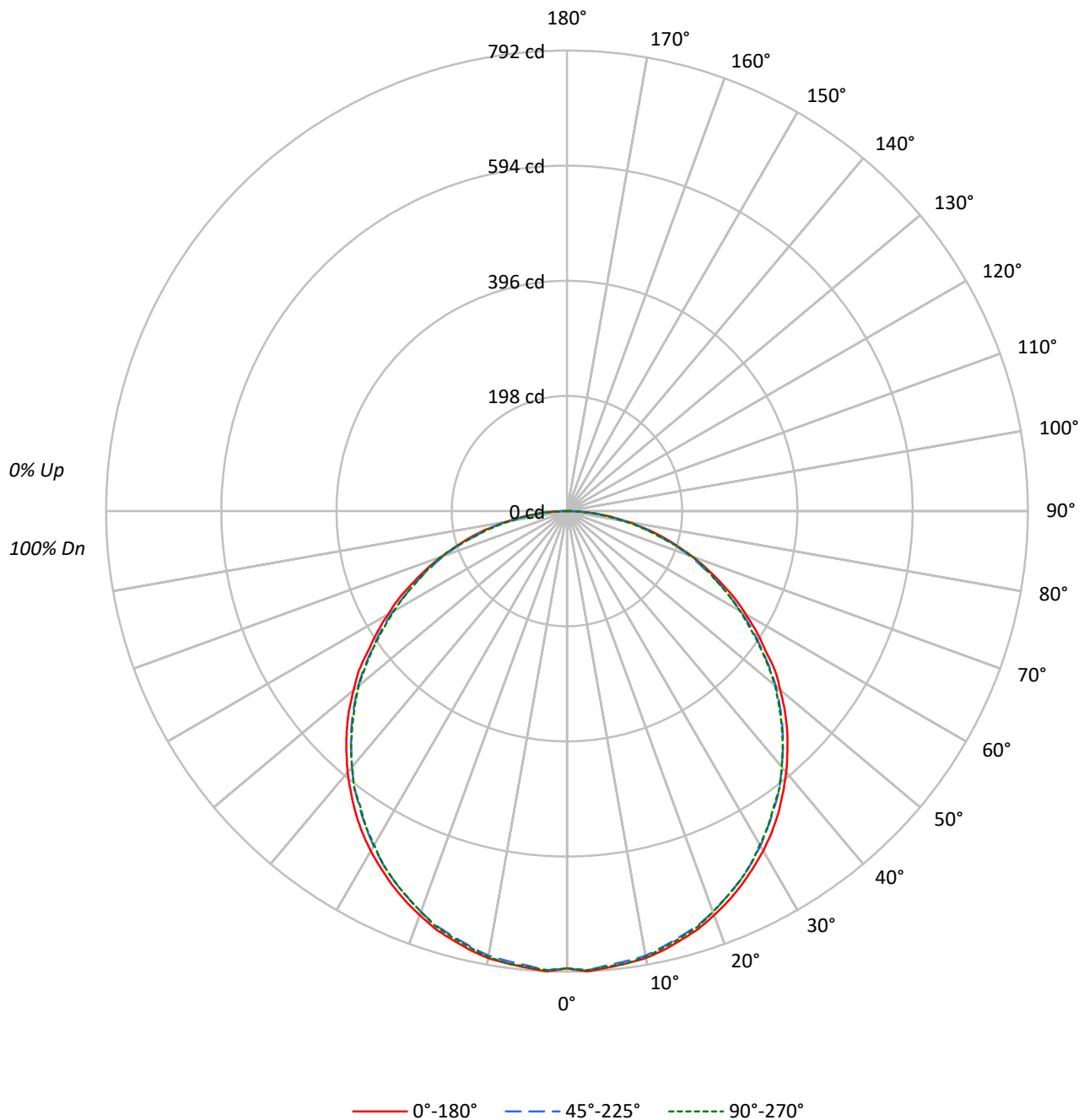
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2282.9 lumens
Efficiency: N/A
Efficacy: 79.8 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): 28.6
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		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°	2116	2116	2116
5°	2129	2119	2124
10°	2132	2122	2127
15°	2125	2109	2114
20°	2117	2100	2100
25°	2108	2084	2084
30°	2096	2065	2060
35°	2081	2042	2035
40°	2060	2018	2018
45°	2037	1993	1985
50°	2003	1962	1954
55°	1950	1904	1895
60°	1910	1857	1847
65°	1861	1810	1798
70°	1805	1774	1821
75°	1753	1672	1672
80°	1641	1610	1550
85°	1513	1454	1454

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2037 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	3.3
10°-20°	214.3	9.4
20°-30°	324.3	14.2
30°-40°	390.8	17.1
40°-50°	405.8	17.8
50°-60°	365.4	16.0
60°-70°	282.3	12.4
70°-80°	172.0	7.5
80°-90°	53.2	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°	613.4	26.9
0°-40°	1004.1	44.0
0°-60°	1775.3	77.8
0°-90°	2282.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2282.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	786	786	786	786	786	
5°	788	786	784	784	786	75
15°	763	761	757	757	759	215
25°	710	708	702	700	702	327
35°	633	630	622	620	620	396
45°	535	531	524	522	522	413
55°	416	412	406	404	404	373
65°	292	286	284	280	282	290
75°	169	163	161	159	161	177
85°	49	49	47	45	47	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	786.3	786.3	786.3	786.3	786.3
2.5°	792.2	792.2	790.2	790.2	790.2
5°	788.3	786.3	784.4	784.4	786.3
7.5°	784.4	784.4	780.4	780.4	784.4
10°	780.4	778.5	776.5	776.5	778.5
12.5°	772.6	770.6	766.7	766.7	768.7
15°	762.8	760.8	756.9	756.9	758.9
17.5°	753.0	751.0	747.1	747.1	749.1
20°	739.3	737.3	733.4	731.4	733.4
22.5°	725.5	723.6	717.7	715.7	717.7
25°	709.8	707.9	702.0	700.0	702.0
27.5°	692.2	690.2	684.4	682.4	684.4
30°	674.6	670.6	664.7	660.8	662.8
32.5°	654.9	651.0	643.2	641.2	643.2
35°	633.4	629.5	621.6	619.6	619.6
37.5°	609.8	607.9	600.0	598.1	600.0
40°	586.3	582.4	574.5	572.6	574.5
42.5°	560.8	556.9	549.1	549.1	549.1
45°	535.3	531.4	523.6	521.6	521.6
47.5°	507.9	504.0	496.1	494.1	494.1
50°	478.5	474.5	468.7	466.7	466.7
52.5°	451.0	445.1	437.3	435.3	435.3
55°	415.7	411.8	405.9	403.9	403.9
57.5°	386.3	380.4	376.5	372.6	372.6
60°	354.9	349.0	345.1	343.2	343.2
62.5°	325.5	317.7	313.7	311.8	313.7
65°	292.2	286.3	284.3	280.4	282.4
67.5°	260.8	254.9	253.0	253.0	256.9
70°	229.4	223.5	225.5	219.6	231.4
72.5°	198.1	194.1	194.1	188.2	194.1
75°	168.6	162.8	160.8	158.8	160.8
77.5°	137.3	135.3	133.3	129.4	131.4
80°	105.9	109.8	103.9	98.0	100.0
82.5°	78.4	76.5	72.6	70.6	72.6
85°	49.0	49.0	47.1	45.1	47.1
87.5°	23.5	23.5	21.6	21.6	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)