

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: P601284

Luminaire Tested: 14CGSB-25-L940

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601284
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-L940
Description: 1x4 CGSB AT 2500lm 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

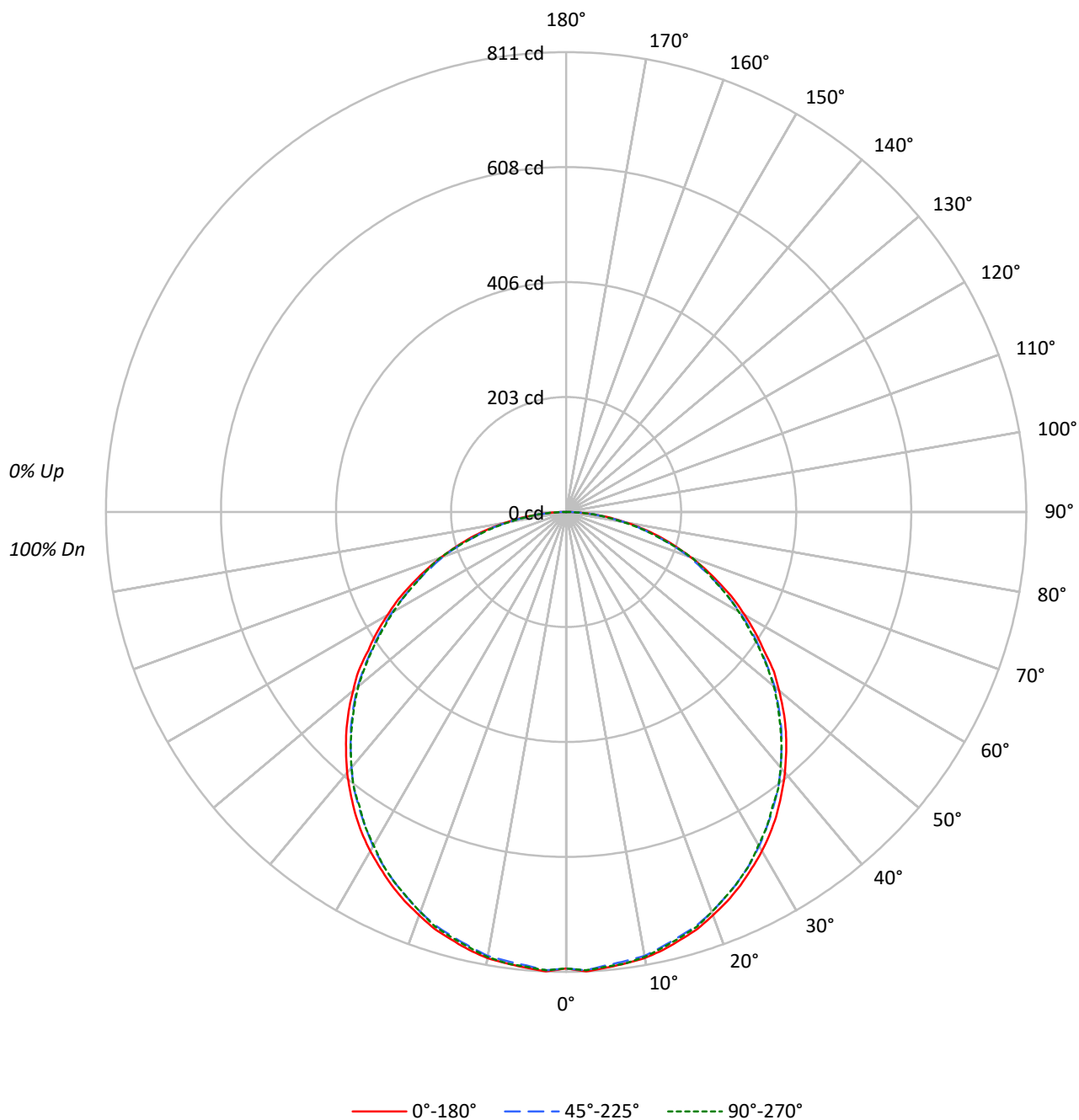
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2336.7 lumens
Efficiency: N/A
Efficacy: 81.7 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	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	100		100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83		83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69		69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58		58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49		49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43		43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37		37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33		33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29		29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2166	2166	2166
5°	2179	2169	2174
10°	2183	2172	2177
15°	2175	2158	2164
20°	2167	2149	2149
25°	2157	2133	2133
30°	2145	2114	2108
35°	2130	2090	2083
40°	2108	2066	2066
45°	2085	2039	2032
50°	2050	2008	2000
55°	1996	1949	1940
60°	1955	1901	1890
65°	1904	1853	1840
70°	1847	1816	1863
75°	1795	1711	1711
80°	1680	1649	1587
85°	1550	1488	1488

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2085 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	3.3
10°-20°	219.4	9.4
20°-30°	331.9	14.2
30°-40°	400.0	17.1
40°-50°	415.3	17.8
50°-60°	374.0	16.0
60°-70°	289.0	12.4
70°-80°	176.1	7.5
80°-90°	54.5	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°	627.8	26.9
0°-40°	1027.8	44.0
0°-60°	1817.1	77.8
0°-90°	2336.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2336.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	805	805	805	805	805	
5°	807	805	803	803	805	77
15°	781	779	775	775	777	221
25°	727	724	718	716	718	335
35°	648	644	636	634	634	405
45°	548	544	536	534	534	422
55°	426	422	416	414	414	382
65°	299	293	291	287	289	297
75°	173	167	165	163	165	181
85°	50	50	48	46	48	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	804.8	804.8	804.8	804.8	804.8
2.5°	810.8	810.8	808.8	808.8	808.8
5°	806.8	804.8	802.8	802.8	804.8
7.5°	802.8	802.8	798.8	798.8	802.8
10°	798.8	796.8	794.8	794.8	796.8
12.5°	790.8	788.8	784.8	784.8	786.8
15°	780.7	778.7	774.7	774.7	776.7
17.5°	770.7	768.7	764.7	764.7	766.7
20°	756.7	754.6	750.6	748.6	750.6
22.5°	742.6	740.6	734.6	732.6	734.6
25°	726.6	724.5	718.5	716.5	718.5
27.5°	708.5	706.5	700.5	698.5	700.5
30°	690.4	686.4	680.4	676.4	678.4
32.5°	670.4	666.3	658.3	656.3	658.3
35°	648.3	644.3	636.2	634.2	634.2
37.5°	624.2	622.2	614.2	612.1	614.2
40°	600.1	596.1	588.1	586.1	588.1
42.5°	574.0	570.0	562.0	562.0	562.0
45°	547.9	543.9	535.9	533.9	533.9
47.5°	519.8	515.8	507.8	505.8	505.8
50°	489.7	485.7	479.7	477.7	477.7
52.5°	461.6	455.6	447.6	445.6	445.6
55°	425.5	421.5	415.5	413.5	413.5
57.5°	395.4	389.4	385.4	381.3	381.3
60°	363.3	357.3	353.2	351.2	351.2
62.5°	333.2	325.1	321.1	319.1	321.1
65°	299.0	293.0	291.0	287.0	289.0
67.5°	266.9	260.9	258.9	258.9	262.9
70°	234.8	228.8	230.8	224.8	236.8
72.5°	202.7	198.7	198.7	192.7	198.7
75°	172.6	166.6	164.6	162.6	164.6
77.5°	140.5	138.5	136.5	132.5	134.5
80°	108.4	112.4	106.4	100.4	102.4
82.5°	80.3	78.3	74.3	72.3	74.3
85°	50.2	50.2	48.2	46.2	48.2
87.5°	24.1	24.1	22.1	22.1	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)