

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: P601279

Luminaire Tested: 14CGSB-25-L835

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601279
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-L835
Description: 1x4 CGSB AT 2500lm 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

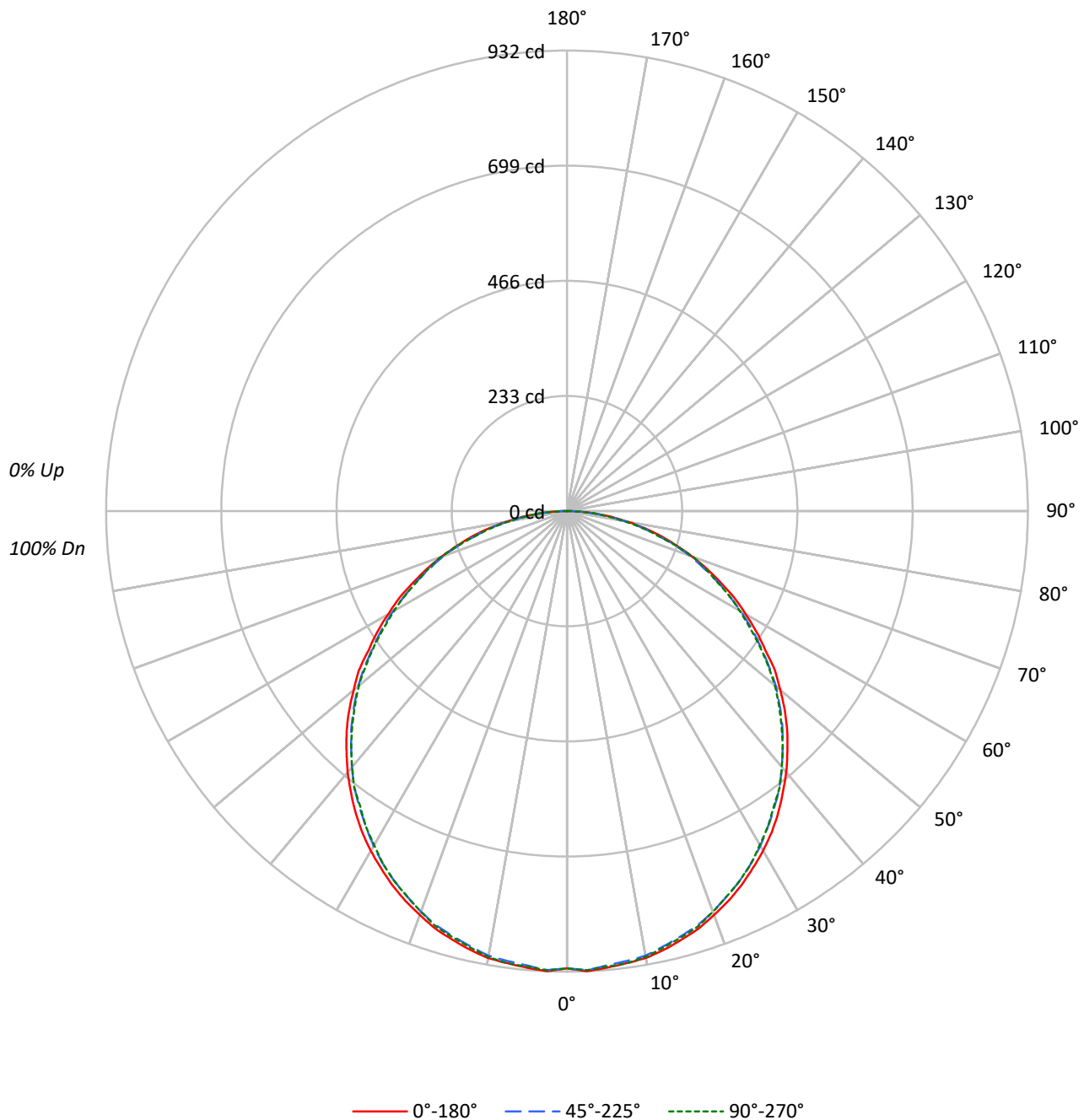
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2685.8 lumens
Efficiency: N/A
Efficacy: 93.9 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°	2489	2489	2489
5°	2505	2493	2499
10°	2509	2496	2503
15°	2500	2481	2487
20°	2491	2471	2471
25°	2480	2452	2452
30°	2466	2430	2423
35°	2448	2402	2395
40°	2423	2374	2374
45°	2397	2344	2335
50°	2357	2308	2299
55°	2295	2240	2229
60°	2248	2185	2173
65°	2188	2130	2115
70°	2124	2087	2142
75°	2063	1967	1967
80°	1931	1895	1824
85°	1782	1711	1711

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2397 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	3.3
10°-20°	252.1	9.4
20°-30°	381.5	14.2
30°-40°	459.7	17.1
40°-50°	477.4	17.8
50°-60°	429.9	16.0
60°-70°	332.2	12.4
70°-80°	202.4	7.5
80°-90°	62.6	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°	721.6	26.9
0°-40°	1181.4	44.0
0°-60°	2088.6	77.8
0°-90°	2685.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2685.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	925	925	925	925	925	
5°	927	925	923	923	925	88
15°	897	895	890	890	893	253
25°	835	833	826	824	826	385
35°	745	740	731	729	729	466
45°	630	625	616	614	614	485
55°	489	484	478	475	475	439
65°	344	337	334	330	332	341
75°	198	192	189	187	189	208
85°	58	58	55	53	55	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	925.1	925.1	925.1	925.1	925.1
2.5°	932.0	932.0	929.7	929.7	929.7
5°	927.4	925.1	922.8	922.8	925.1
7.5°	922.8	922.8	918.2	918.2	922.8
10°	918.2	915.9	913.6	913.6	915.9
12.5°	908.9	906.6	902.0	902.0	904.3
15°	897.4	895.1	890.5	890.5	892.8
17.5°	885.9	883.6	878.9	878.9	881.3
20°	869.7	867.4	862.8	860.5	862.8
22.5°	853.6	851.3	844.3	842.0	844.3
25°	835.1	832.8	825.9	823.6	825.9
27.5°	814.4	812.0	805.1	802.8	805.1
30°	793.6	789.0	782.1	777.4	779.7
32.5°	770.5	765.9	756.7	754.4	756.7
35°	745.1	740.5	731.3	729.0	729.0
37.5°	717.5	715.2	705.9	703.6	705.9
40°	689.8	685.2	675.9	673.6	675.9
42.5°	659.8	655.2	645.9	645.9	645.9
45°	629.8	625.2	616.0	613.6	613.6
47.5°	597.5	592.9	583.7	581.4	581.4
50°	562.9	558.3	551.4	549.1	549.1
52.5°	530.6	523.7	514.4	512.1	512.1
55°	489.1	484.5	477.5	475.2	475.2
57.5°	454.5	447.5	442.9	438.3	438.3
60°	417.6	410.6	406.0	403.7	403.7
62.5°	383.0	373.7	369.1	366.8	369.1
65°	343.7	336.8	334.5	329.9	332.2
67.5°	306.8	299.9	297.6	297.6	302.2
70°	269.9	263.0	265.3	258.4	272.2
72.5°	233.0	228.4	228.4	221.5	228.4
75°	198.4	191.5	189.2	186.9	189.2
77.5°	161.5	159.2	156.9	152.3	154.6
80°	124.6	129.2	122.3	115.3	117.7
82.5°	92.3	90.0	85.4	83.1	85.4
85°	57.7	57.7	55.4	53.1	55.4
87.5°	27.7	27.7	25.4	25.4	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)