

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: P601280

Luminaire Tested: 14CGSB-25-L840

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601280
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-L840
Description: 1x4 CGSB AT 2500lm 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

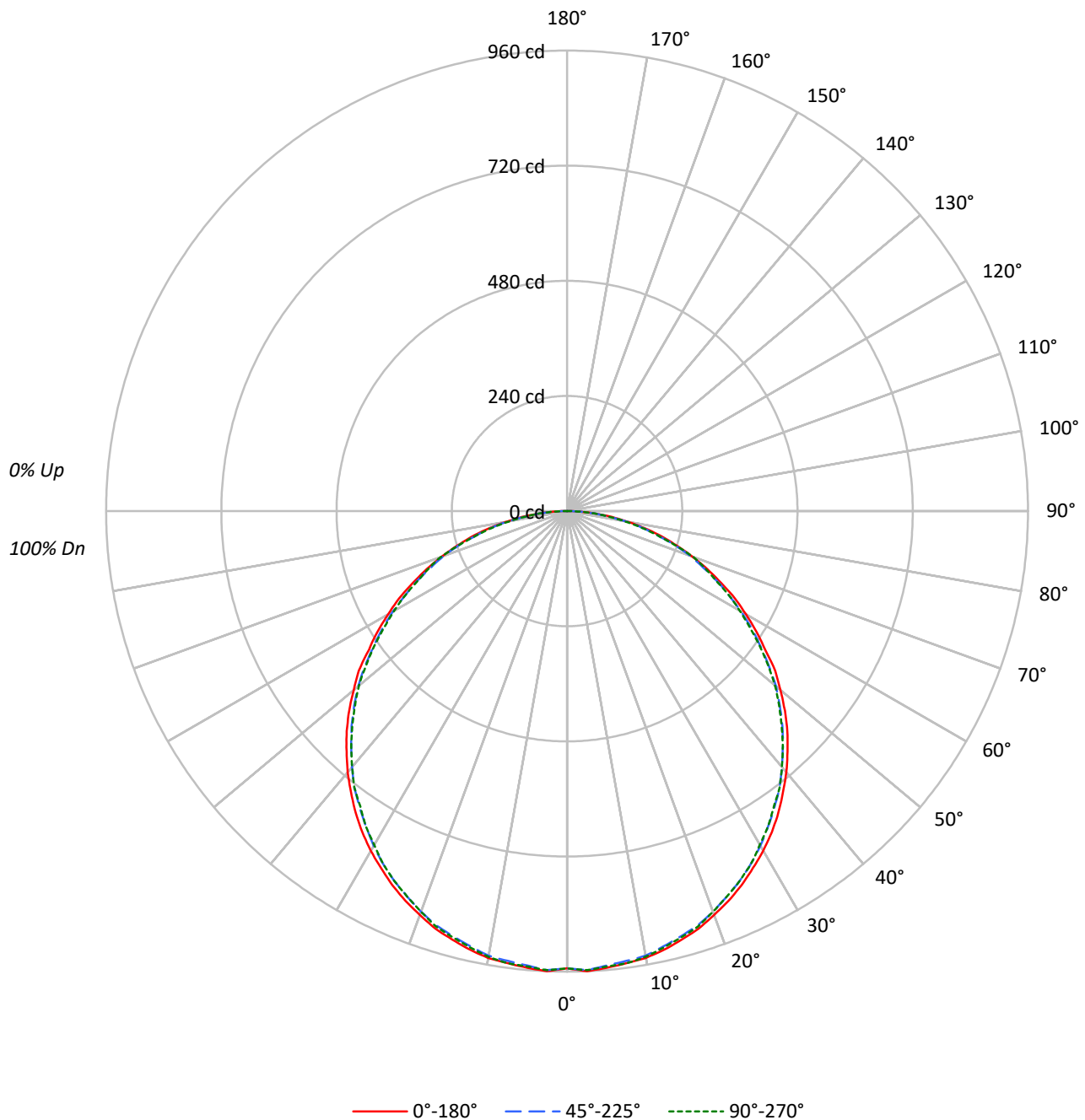
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2766.3 lumens
Efficiency: N/A
Efficacy: 96.7 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
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°	2564	2564	2564
5°	2580	2568	2574
10°	2584	2571	2578
15°	2575	2555	2562
20°	2565	2545	2545
25°	2554	2526	2526
30°	2540	2503	2495
35°	2521	2474	2467
40°	2496	2446	2446
45°	2469	2414	2406
50°	2427	2377	2367
55°	2363	2308	2297
60°	2315	2251	2238
65°	2254	2194	2179
70°	2187	2150	2206
75°	2124	2025	2025
80°	1988	1951	1878
85°	1834	1760	1760

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2469 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	3.3
10°-20°	259.7	9.4
20°-30°	393.0	14.2
30°-40°	473.5	17.1
40°-50°	491.7	17.8
50°-60°	442.8	16.0
60°-70°	342.1	12.4
70°-80°	208.5	7.5
80°-90°	64.4	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°	743.3	26.9
0°-40°	1216.8	44.0
0°-60°	2151.3	77.8
0°-90°	2766.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2766.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	953	953	953	953	953	
5°	955	953	950	950	953	91
15°	924	922	917	917	920	261
25°	860	858	851	848	851	396
35°	768	763	753	751	751	480
45°	649	644	634	632	632	500
55°	504	499	492	490	490	452
65°	354	347	344	340	342	351
75°	204	197	195	192	195	215
85°	59	59	57	55	57	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	952.8	952.8	952.8	952.8	952.8
2.5°	960.0	960.0	957.6	957.6	957.6
5°	955.2	952.8	950.5	950.5	952.8
7.5°	950.5	950.5	945.7	945.7	950.5
10°	945.7	943.3	941.0	941.0	943.3
12.5°	936.2	933.8	929.1	929.1	931.5
15°	924.3	921.9	917.2	917.2	919.6
17.5°	912.4	910.1	905.3	905.3	907.7
20°	895.8	893.4	888.7	886.3	888.7
22.5°	879.2	876.8	869.7	867.3	869.7
25°	860.2	857.8	850.7	848.3	850.7
27.5°	838.8	836.4	829.3	826.9	829.3
30°	817.4	812.6	805.5	800.8	803.1
32.5°	793.6	788.9	779.4	777.0	779.4
35°	767.5	762.7	753.2	750.9	750.9
37.5°	739.0	736.6	727.1	724.7	727.1
40°	710.5	705.7	696.2	693.8	696.2
42.5°	679.6	674.8	665.3	665.3	665.3
45°	648.7	643.9	634.4	632.1	632.1
47.5°	615.4	610.7	601.2	598.8	598.8
50°	579.8	575.0	567.9	565.5	565.5
52.5°	546.5	539.4	529.9	527.5	527.5
55°	503.7	499.0	491.9	489.5	489.5
57.5°	468.1	461.0	456.2	451.5	451.5
60°	430.1	423.0	418.2	415.8	415.8
62.5°	394.4	384.9	380.2	377.8	380.2
65°	354.0	346.9	344.5	339.8	342.2
67.5°	316.0	308.9	306.5	306.5	311.3
70°	278.0	270.9	273.3	266.1	280.4
72.5°	240.0	235.2	235.2	228.1	235.2
75°	204.3	197.2	194.8	192.5	194.8
77.5°	166.3	164.0	161.6	156.8	159.2
80°	128.3	133.1	125.9	118.8	121.2
82.5°	95.0	92.7	87.9	85.5	87.9
85°	59.4	59.4	57.0	54.7	57.0
87.5°	28.5	28.5	26.1	26.1	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)