

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: P601303

Luminaire Tested: 14CGSB-40-L835

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601303
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-40-L835
Description: 1x4 CGSB AT 4000lm 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

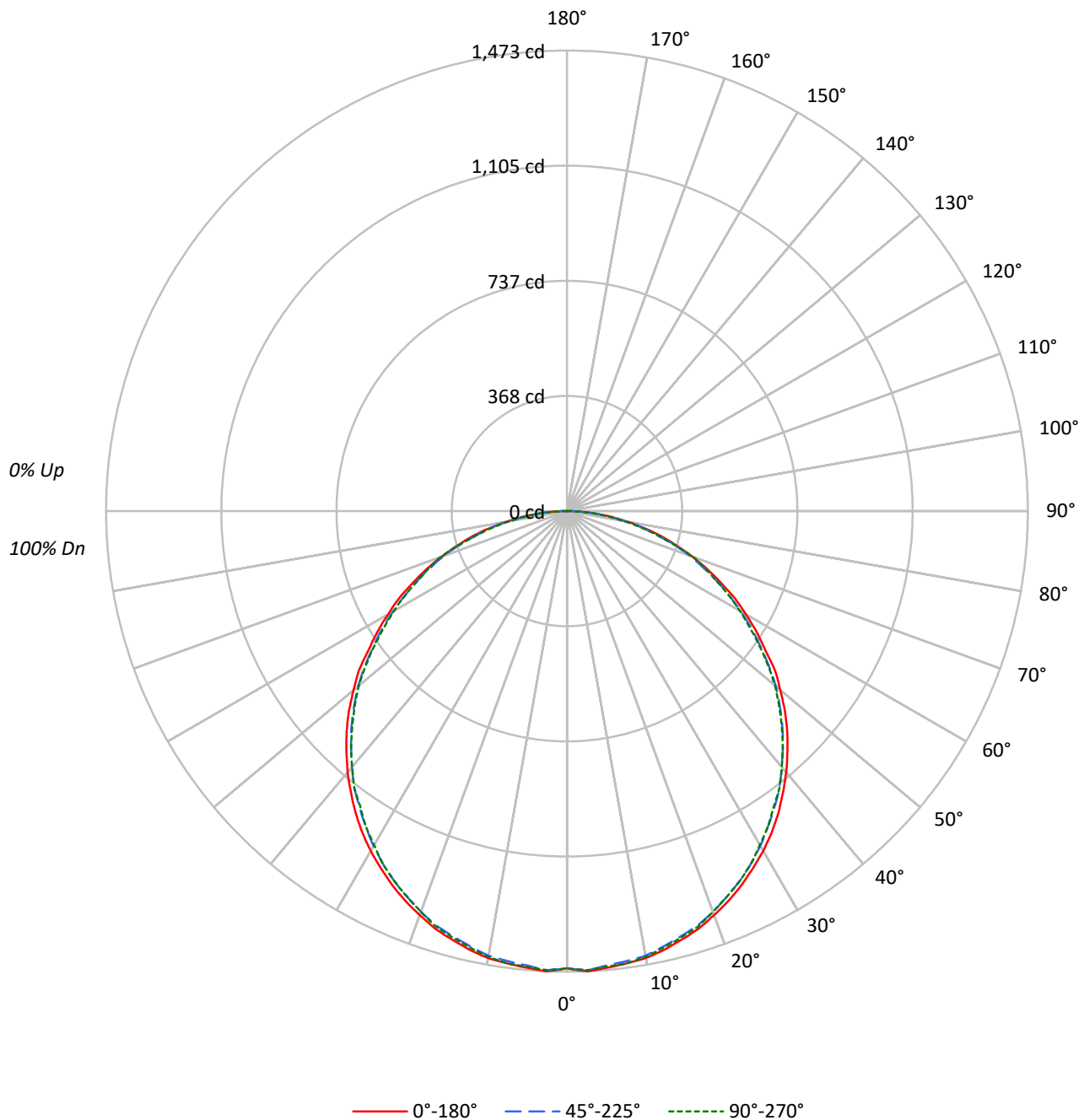
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4245.7 lumens
Efficiency: N/A
Efficacy: 96.1 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): 44.2
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°	3935	3935	3935
5°	3960	3941	3950
10°	3966	3946	3956
15°	3952	3922	3932
20°	3937	3906	3906
25°	3920	3877	3877
30°	3898	3842	3830
35°	3870	3798	3786
40°	3830	3753	3753
45°	3789	3706	3692
50°	3725	3649	3634
55°	3627	3542	3525
60°	3553	3455	3435
65°	3460	3367	3344
70°	3357	3300	3386
75°	3261	3109	3109
80°	3051	2996	2882
85°	2816	2702	2702

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3789 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	3.3
10°-20°	398.6	9.4
20°-30°	603.1	14.2
30°-40°	726.7	17.1
40°-50°	754.6	17.8
50°-60°	679.6	16.0
60°-70°	525.1	12.4
70°-80°	319.9	7.5
80°-90°	98.9	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°	1140.8	26.9
0°-40°	1867.5	44.0
0°-60°	3301.8	77.8
0°-90°	4245.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4245.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1462	1462	1462	1462	1462	
5°	1466	1462	1459	1459	1462	139
15°	1419	1415	1408	1408	1411	401
25°	1320	1316	1306	1302	1306	608
35°	1178	1171	1156	1152	1152	737
45°	996	988	974	970	970	767
55°	773	766	755	751	751	694
65°	543	532	529	522	525	539
75°	314	303	299	295	299	329
85°	91	91	88	84	88	103
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1462.4	1462.4	1462.4	1462.4	1462.4
2.5°	1473.4	1473.4	1469.7	1469.7	1469.7
5°	1466.1	1462.4	1458.8	1458.8	1462.4
7.5°	1458.8	1458.8	1451.5	1451.5	1458.8
10°	1451.5	1447.8	1444.2	1444.2	1447.8
12.5°	1436.9	1433.2	1425.9	1425.9	1429.6
15°	1418.7	1415.0	1407.7	1407.7	1411.4
17.5°	1400.4	1396.8	1389.5	1389.5	1393.1
20°	1374.9	1371.2	1363.9	1360.3	1363.9
22.5°	1349.4	1345.7	1334.8	1331.1	1334.8
25°	1320.2	1316.5	1305.6	1302.0	1305.6
27.5°	1287.4	1283.7	1272.8	1269.1	1272.8
30°	1254.5	1247.2	1236.3	1229.0	1232.7
32.5°	1218.1	1210.8	1196.2	1192.5	1196.2
35°	1178.0	1170.7	1156.1	1152.4	1152.4
37.5°	1134.2	1130.5	1116.0	1112.3	1116.0
40°	1090.4	1083.1	1068.5	1064.9	1068.5
42.5°	1043.0	1035.7	1021.1	1021.1	1021.1
45°	995.6	988.3	973.7	970.1	970.1
47.5°	944.6	937.3	922.7	919.0	919.0
50°	889.8	882.6	871.6	868.0	868.0
52.5°	838.8	827.9	813.3	809.6	809.6
55°	773.1	765.9	754.9	751.3	751.3
57.5°	718.4	707.5	700.2	692.9	692.9
60°	660.1	649.2	641.9	638.2	638.2
62.5°	605.4	590.8	583.5	579.9	583.5
65°	543.4	532.5	528.8	521.5	525.2
67.5°	485.0	474.1	470.5	470.5	477.7
70°	426.7	415.7	419.4	408.5	430.3
72.5°	368.3	361.0	361.0	350.1	361.0
75°	313.6	302.7	299.0	295.4	299.0
77.5°	255.3	251.6	248.0	240.7	244.3
80°	196.9	204.2	193.3	182.3	186.0
82.5°	145.9	142.2	134.9	131.3	134.9
85°	91.2	91.2	87.5	83.9	87.5
87.5°	43.8	43.8	40.1	40.1	43.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)