

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: P601304

Luminaire Tested: 14CGSB-40-L840

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601304
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-L840
Description: 1x4 CGSB AT 4000lm 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

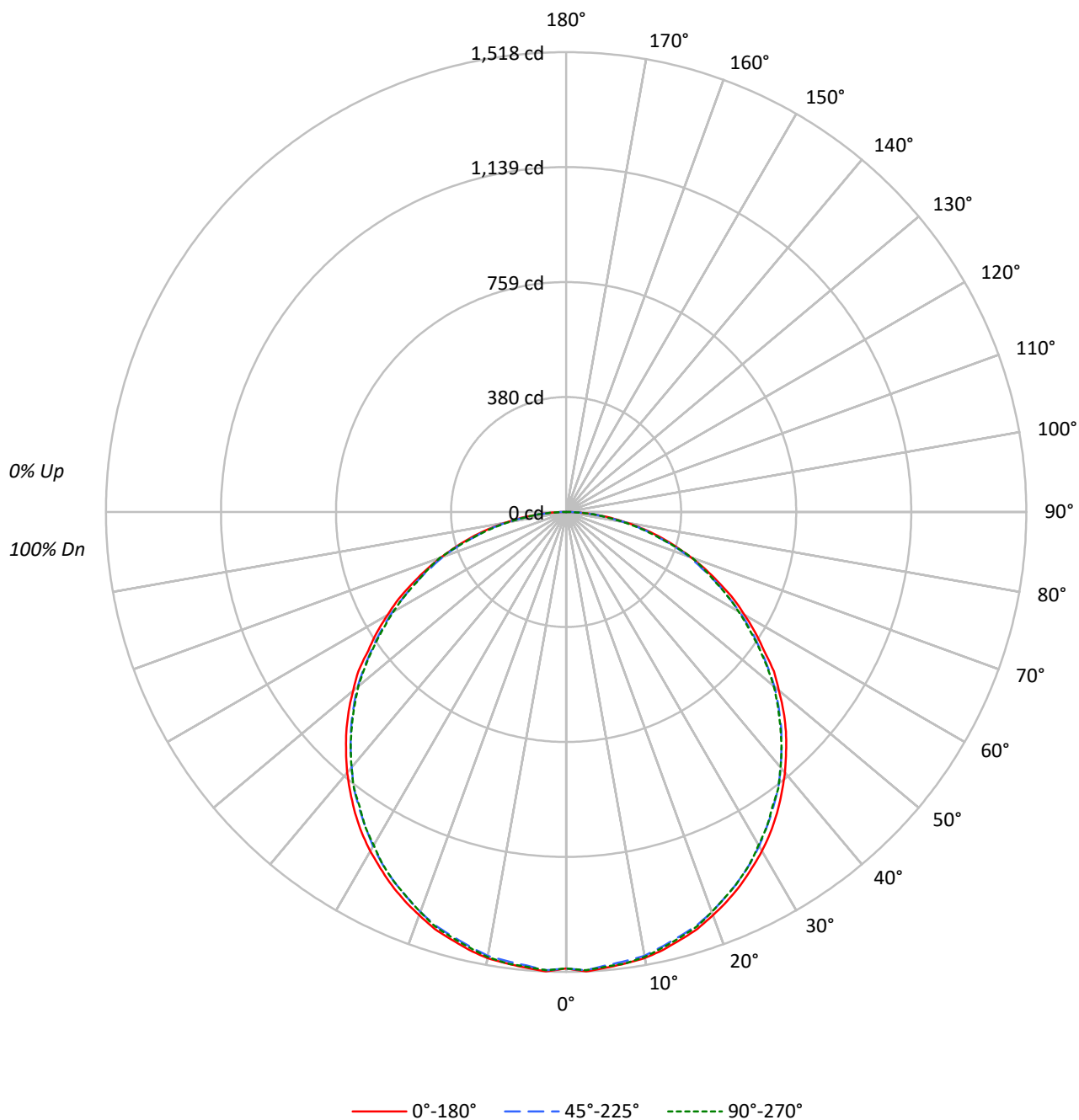
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4373.1 lumens
Efficiency: N/A
Efficacy: 98.9 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): 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	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	102	102	100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	85	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	71	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	60	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	51	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	45	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4053	4053	4053
5°	4079	4059	4069
10°	4085	4065	4075
15°	4071	4039	4050
20°	4055	4023	4023
25°	4037	3993	3993
30°	4015	3957	3945
35°	3986	3912	3899
40°	3945	3866	3866
45°	3903	3817	3803
50°	3837	3759	3743
55°	3736	3648	3630
60°	3659	3558	3538
65°	3564	3468	3444
70°	3458	3399	3487
75°	3358	3202	3202
80°	3143	3085	2969
85°	2899	2785	2785

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3903 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	3.3
10°-20°	410.6	9.4
20°-30°	621.2	14.2
30°-40°	748.6	17.1
40°-50°	777.3	17.8
50°-60°	700.0	16.0
60°-70°	540.9	12.4
70°-80°	329.6	7.5
80°-90°	101.9	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°	1175.0	26.9
0°-40°	1923.6	44.0
0°-60°	3400.8	77.8
0°-90°	4373.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4373.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1506	1506	1506	1506	1506	
5°	1510	1506	1502	1502	1506	144
15°	1461	1458	1450	1450	1454	413
25°	1360	1356	1345	1341	1345	627
35°	1213	1206	1191	1187	1187	759
45°	1026	1018	1003	999	999	790
55°	796	789	778	774	774	715
65°	560	548	545	537	541	555
75°	323	312	308	304	308	339
85°	94	94	90	86	90	106
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1506.3	1506.3	1506.3	1506.3	1506.3
2.5°	1517.6	1517.6	1513.8	1513.8	1513.8
5°	1510.0	1506.3	1502.5	1502.5	1506.3
7.5°	1502.5	1502.5	1495.0	1495.0	1502.5
10°	1495.0	1491.3	1487.5	1487.5	1491.3
12.5°	1480.0	1476.2	1468.7	1468.7	1472.5
15°	1461.2	1457.5	1449.9	1449.9	1453.7
17.5°	1442.4	1438.7	1431.2	1431.2	1434.9
20°	1416.1	1412.4	1404.9	1401.1	1404.9
22.5°	1389.8	1386.1	1374.8	1371.1	1374.8
25°	1359.8	1356.0	1344.8	1341.0	1344.8
27.5°	1326.0	1322.2	1311.0	1307.2	1311.0
30°	1292.2	1284.7	1273.4	1265.9	1269.6
32.5°	1254.6	1247.1	1232.1	1228.3	1232.1
35°	1213.3	1205.8	1190.8	1187.0	1187.0
37.5°	1168.2	1164.5	1149.4	1145.7	1149.4
40°	1123.1	1115.6	1100.6	1096.8	1100.6
42.5°	1074.3	1066.8	1051.8	1051.8	1051.8
45°	1025.5	1018.0	1002.9	999.2	999.2
47.5°	972.9	965.4	950.4	946.6	946.6
50°	916.5	909.0	897.8	894.0	894.0
52.5°	864.0	852.7	837.7	833.9	833.9
55°	796.3	788.8	777.6	773.8	773.8
57.5°	740.0	728.7	721.2	713.7	713.7
60°	679.9	668.6	661.1	657.4	657.4
62.5°	623.6	608.5	601.0	597.3	601.0
65°	559.7	548.4	544.7	537.2	540.9
67.5°	499.6	488.3	484.6	484.6	492.1
70°	439.5	428.2	432.0	420.7	443.2
72.5°	379.4	371.9	371.9	360.6	371.9
75°	323.0	311.8	308.0	304.3	308.0
77.5°	262.9	259.2	255.4	247.9	251.7
80°	202.8	210.4	199.1	187.8	191.6
82.5°	150.3	146.5	139.0	135.2	139.0
85°	93.9	93.9	90.2	86.4	90.2
87.5°	45.1	45.1	41.3	41.3	45.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)