

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: P601324

Luminaire Tested: 14CGSB-50-L940

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601324
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-50-L940
Description: 1x4 CGSB AT 5000lm 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

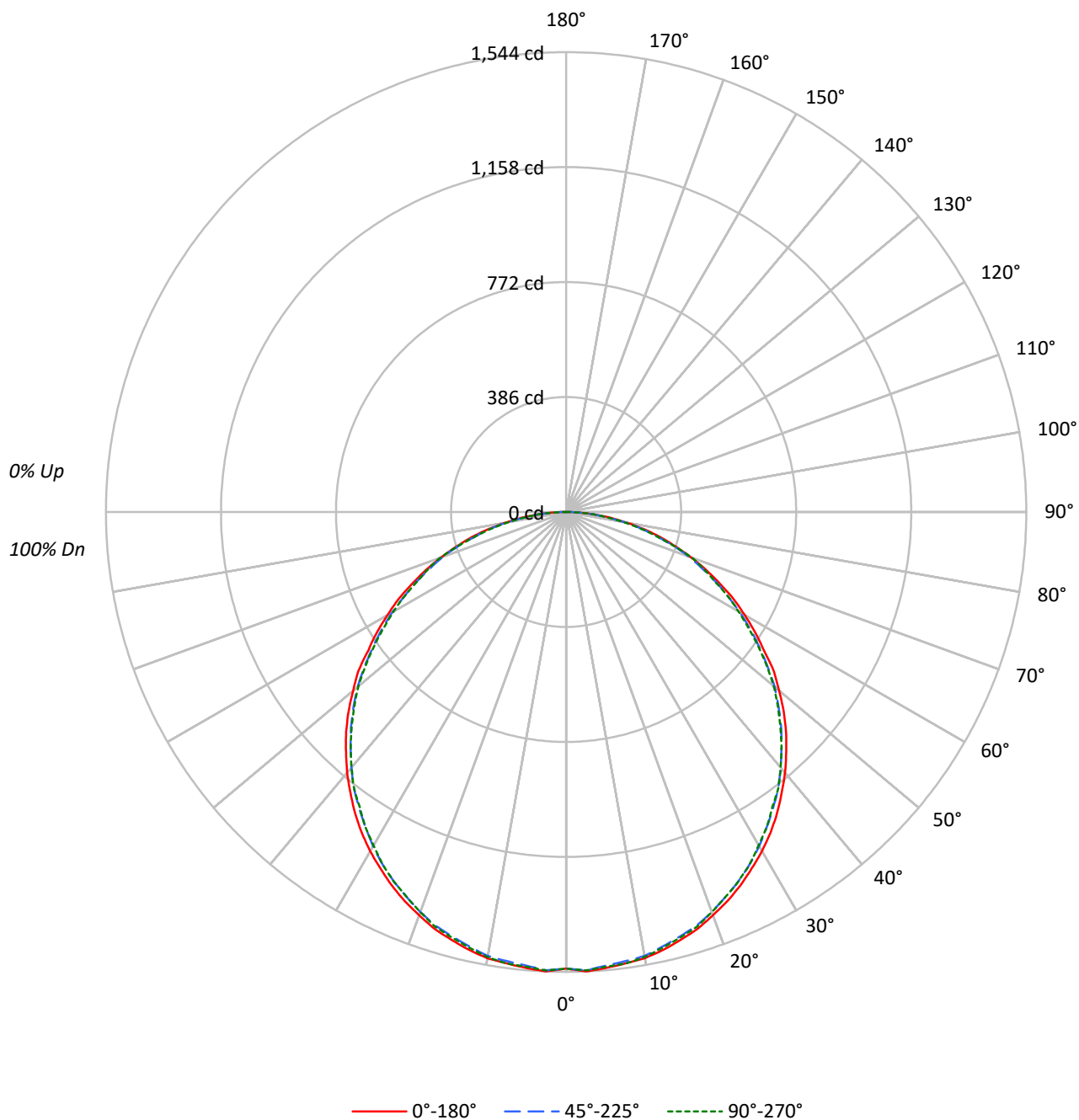
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4449.1 lumens
Efficiency: N/A
Efficacy: 76.4 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): 58.2
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
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°	4124	4124	4124
5°	4150	4129	4140
10°	4156	4135	4146
15°	4142	4109	4120
20°	4126	4093	4093
25°	4108	4062	4062
30°	4085	4025	4014
35°	4055	3980	3967
40°	4014	3933	3933
45°	3970	3883	3868
50°	3904	3824	3808
55°	3801	3712	3693
60°	3723	3620	3599
65°	3626	3528	3504
70°	3518	3458	3548
75°	3418	3258	3258
80°	3199	3138	3020
85°	2949	2831	2831

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3970 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.7	3.3
10°-20°	417.7	9.4
20°-30°	632.0	14.2
30°-40°	761.6	17.1
40°-50°	790.8	17.8
50°-60°	712.1	16.0
60°-70°	550.3	12.4
70°-80°	335.3	7.5
80°-90°	103.6	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°	1195.4	26.9
0°-40°	1957.0	44.0
0°-60°	3459.9	77.8
0°-90°	4449.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4449.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1532	1532	1532	1532	1532	
5°	1536	1532	1529	1529	1532	146
15°	1487	1483	1475	1475	1479	420
25°	1383	1380	1368	1364	1368	637
35°	1234	1227	1211	1208	1208	772
45°	1043	1036	1020	1016	1016	804
55°	810	802	791	787	787	728
65°	569	558	554	546	550	565
75°	329	317	313	310	313	345
85°	96	96	92	88	92	108
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1532.5	1532.5	1532.5	1532.5	1532.5
2.5°	1543.9	1543.9	1540.1	1540.1	1540.1
5°	1536.3	1532.5	1528.6	1528.6	1532.5
7.5°	1528.6	1528.6	1521.0	1521.0	1528.6
10°	1521.0	1517.2	1513.4	1513.4	1517.2
12.5°	1505.7	1501.9	1494.2	1494.2	1498.1
15°	1486.6	1482.8	1475.1	1475.1	1479.0
17.5°	1467.5	1463.7	1456.0	1456.0	1459.8
20°	1440.7	1436.9	1429.3	1425.5	1429.3
22.5°	1414.0	1410.2	1398.7	1394.9	1398.7
25°	1383.4	1379.6	1368.1	1364.3	1368.1
27.5°	1349.0	1345.2	1333.7	1329.9	1333.7
30°	1314.6	1307.0	1295.5	1287.9	1291.7
32.5°	1276.4	1268.8	1253.5	1249.7	1253.5
35°	1234.4	1226.7	1211.4	1207.6	1207.6
37.5°	1188.5	1184.7	1169.4	1165.6	1169.4
40°	1142.7	1135.0	1119.7	1115.9	1119.7
42.5°	1093.0	1085.3	1070.0	1070.0	1070.0
45°	1043.3	1035.7	1020.4	1016.5	1016.5
47.5°	989.8	982.2	966.9	963.0	963.0
50°	932.5	924.8	913.4	909.5	909.5
52.5°	879.0	867.5	852.2	848.4	848.4
55°	810.2	802.5	791.1	787.2	787.2
57.5°	752.9	741.4	733.7	726.1	726.1
60°	691.7	680.2	672.6	668.8	668.8
62.5°	634.4	619.1	611.5	607.6	611.5
65°	569.4	558.0	554.1	546.5	550.3
67.5°	508.3	496.8	493.0	493.0	500.6
70°	447.1	435.7	439.5	428.0	450.9
72.5°	386.0	378.3	378.3	366.9	378.3
75°	328.7	317.2	313.4	309.5	313.4
77.5°	267.5	263.7	259.9	252.2	256.0
80°	206.4	214.0	202.5	191.1	194.9
82.5°	152.9	149.0	141.4	137.6	141.4
85°	95.5	95.5	91.7	87.9	91.7
87.5°	45.9	45.9	42.0	42.0	45.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)