

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: P601289

Luminaire Tested: 14CGSB-30-L850

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601289
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-30-L850
Description: 1x4 CGSB AT 3000lm 5000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

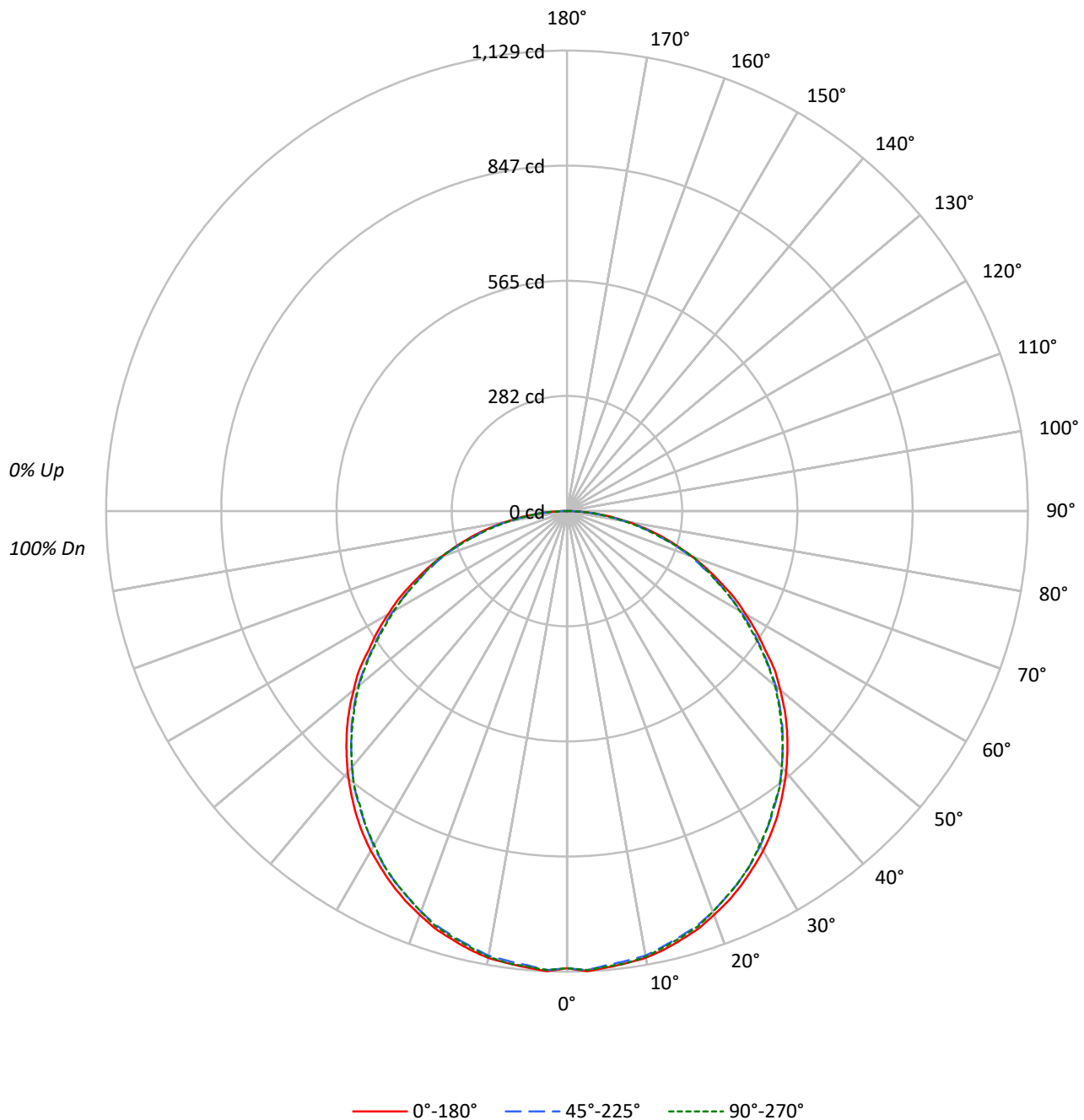
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3252.8 lumens
Efficiency: N/A
Efficacy: 99.5 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): 32.7
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

TEST NUMBER: P601289
CATALOG NUMBER: 14CGSB-30-L850

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°	3015	3015	3015
5°	3034	3019	3026
10°	3039	3023	3031
15°	3028	3005	3012
20°	3017	2993	2993
25°	3003	2970	2970
30°	2987	2943	2935
35°	2965	2910	2900
40°	2935	2876	2876
45°	2903	2839	2828
50°	2854	2796	2784
55°	2779	2714	2700
60°	2722	2647	2632
65°	2651	2579	2562
70°	2572	2528	2594
75°	2498	2382	2382
80°	2338	2295	2208
85°	2158	2072	2072

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2903 cd/sqm

TEST NUMBER: P601289
 CATALOG NUMBER: 14CGSB-30-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	3.3
10°-20°	305.4	9.4
20°-30°	462.1	14.2
30°-40°	556.8	17.1
40°-50°	578.2	17.8
50°-60°	520.7	16.0
60°-70°	402.3	12.4
70°-80°	245.1	7.5
80°-90°	75.8	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°	874.0	26.9
0°-40°	1430.8	44.0
0°-60°	2529.6	77.8
0°-90°	3252.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3252.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1120	1120	1120	1120	1120	
5°	1123	1120	1118	1118	1120	107
15°	1087	1084	1078	1078	1081	307
25°	1011	1009	1000	998	1000	466
35°	902	897	886	883	883	564
45°	763	757	746	743	743	588
55°	592	587	578	576	576	532
65°	416	408	405	400	402	413
75°	240	232	229	226	229	252
85°	70	70	67	64	67	79
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1120.4	1120.4	1120.4	1120.4	1120.4
2.5°	1128.8	1128.8	1126.0	1126.0	1126.0
5°	1123.2	1120.4	1117.6	1117.6	1120.4
7.5°	1117.6	1117.6	1112.0	1112.0	1117.6
10°	1112.0	1109.2	1106.4	1106.4	1109.2
12.5°	1100.9	1098.1	1092.5	1092.5	1095.3
15°	1086.9	1084.1	1078.5	1078.5	1081.3
17.5°	1072.9	1070.1	1064.5	1064.5	1067.3
20°	1053.4	1050.6	1045.0	1042.2	1045.0
22.5°	1033.8	1031.0	1022.6	1019.8	1022.6
25°	1011.4	1008.7	1000.3	997.5	1000.3
27.5°	986.3	983.5	975.1	972.3	975.1
30°	961.2	955.6	947.2	941.6	944.4
32.5°	933.2	927.6	916.4	913.7	916.4
35°	902.5	896.9	885.7	882.9	882.9
37.5°	868.9	866.2	855.0	852.2	855.0
40°	835.4	829.8	818.7	815.9	818.7
42.5°	799.1	793.5	782.3	782.3	782.3
45°	762.8	757.2	746.0	743.2	743.2
47.5°	723.7	718.1	706.9	704.1	704.1
50°	681.7	676.2	667.8	665.0	665.0
52.5°	642.6	634.2	623.1	620.3	620.3
55°	592.3	586.7	578.4	575.6	575.6
57.5°	550.4	542.0	536.5	530.9	530.9
60°	505.7	497.3	491.8	489.0	489.0
62.5°	463.8	452.6	447.0	444.3	447.0
65°	416.3	407.9	405.1	399.5	402.3
67.5°	371.6	363.2	360.4	360.4	366.0
70°	326.9	318.5	321.3	312.9	329.7
72.5°	282.2	276.6	276.6	268.2	276.6
75°	240.3	231.9	229.1	226.3	229.1
77.5°	195.6	192.8	190.0	184.4	187.2
80°	150.9	156.5	148.1	139.7	142.5
82.5°	111.8	109.0	103.4	100.6	103.4
85°	69.9	69.9	67.1	64.3	67.1
87.5°	33.5	33.5	30.7	30.7	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)