

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: P601290

Luminaire Tested: 14CGSB-30-L930

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601290
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-L930
Description: 1x4 CGSB AT 3000lm 3000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

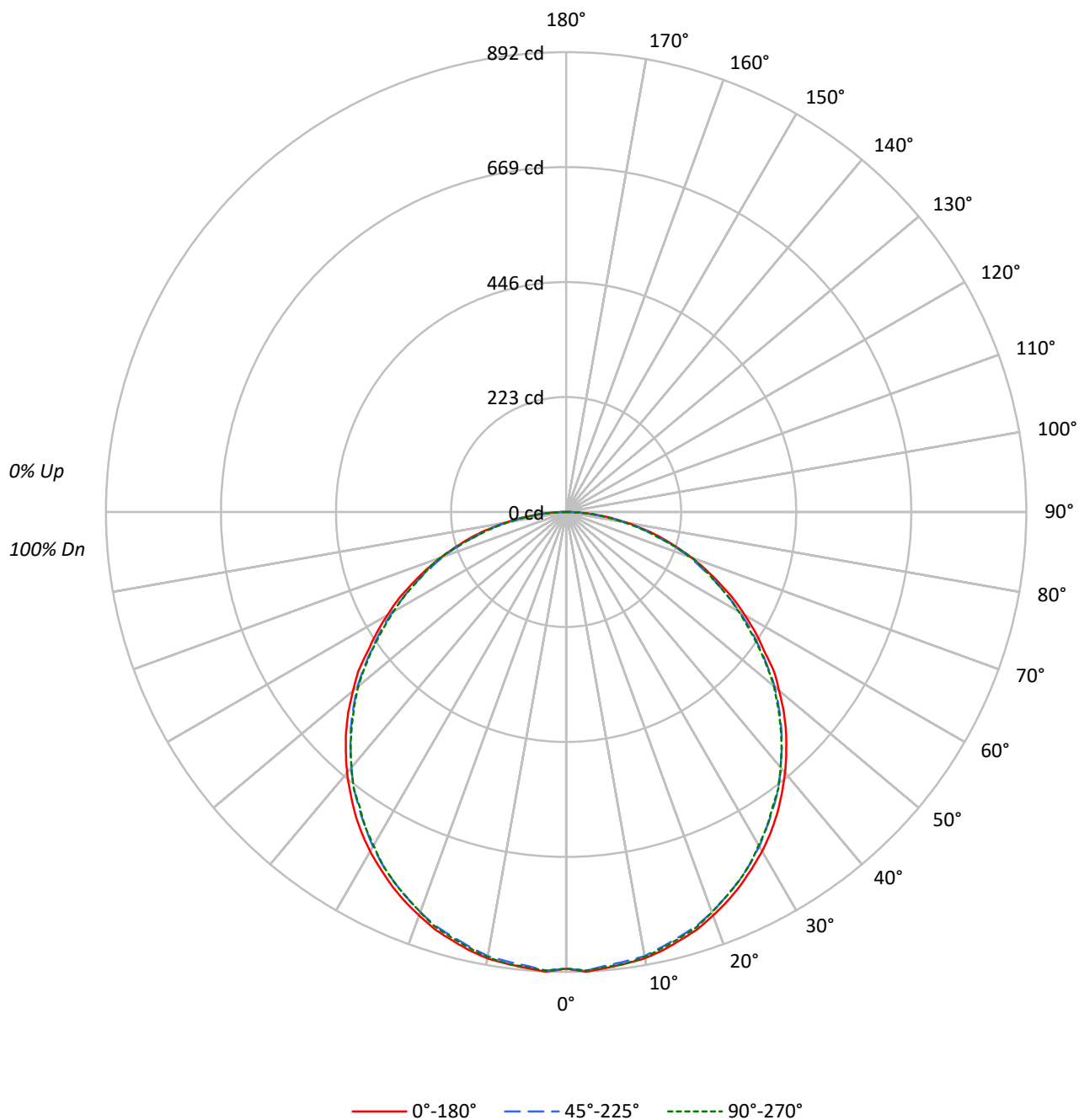
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2571.3 lumens
Efficiency: N/A
Efficacy: 78.6 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: P601290
CATALOG NUMBER: 14CGSB-30-L930

Luminous Intensity Polar Plot



TEST NUMBER: P601290

CATALOG NUMBER: 14CGSB-30-L930

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°	2383	2383	2383
5°	2398	2387	2393
10°	2402	2390	2396
15°	2394	2375	2381
20°	2385	2365	2365
25°	2374	2348	2348
30°	2361	2326	2320
35°	2344	2300	2293
40°	2320	2273	2273
45°	2295	2244	2236
50°	2256	2210	2201
55°	2197	2145	2135
60°	2152	2092	2080
65°	2096	2039	2025
70°	2033	1998	2050
75°	1974	1883	1883
80°	1849	1815	1745
85°	1704	1636	1636

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2295 cd/sqm

TEST NUMBER: P601290
 CATALOG NUMBER: 14CGSB-30-L930

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	3.3
10°-20°	241.4	9.4
20°-30°	365.3	14.2
30°-40°	440.1	17.1
40°-50°	457.0	17.8
50°-60°	411.6	16.0
60°-70°	318.0	12.4
70°-80°	193.8	7.5
80°-90°	59.9	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°	690.9	26.9
0°-40°	1131.0	44.0
0°-60°	1999.6	77.8
0°-90°	2571.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2571.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	886	886	886	886	886	
5°	888	886	884	884	886	84
15°	859	857	852	852	855	243
25°	800	797	791	788	791	368
35°	713	709	700	698	698	446
45°	603	598	590	588	588	465
55°	468	464	457	455	455	421
65°	329	322	320	316	318	326
75°	190	183	181	179	181	200
85°	55	55	53	51	53	62
90°	0	0	0	0	0	

TEST NUMBER: P601290

CATALOG NUMBER: 14CGSB-30-L930

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	885.7	885.7	885.7	885.7	885.7
2.5°	892.3	892.3	890.1	890.1	890.1
5°	887.9	885.7	883.5	883.5	885.7
7.5°	883.5	883.5	879.0	879.0	883.5
10°	879.0	876.8	874.6	874.6	876.8
12.5°	870.2	868.0	863.6	863.6	865.8
15°	859.2	856.9	852.5	852.5	854.7
17.5°	848.1	845.9	841.5	841.5	843.7
20°	832.7	830.4	826.0	823.8	826.0
22.5°	817.2	815.0	808.4	806.1	808.4
25°	799.5	797.3	790.7	788.5	790.7
27.5°	779.6	777.4	770.8	768.6	770.8
30°	759.8	755.4	748.7	744.3	746.5
32.5°	737.7	733.3	724.4	722.2	724.4
35°	713.4	709.0	700.1	697.9	697.9
37.5°	686.9	684.7	675.8	673.6	675.8
40°	660.4	656.0	647.1	644.9	647.1
42.5°	631.7	627.3	618.4	618.4	618.4
45°	603.0	598.5	589.7	587.5	587.5
47.5°	572.0	567.6	558.8	556.6	556.6
50°	538.9	534.5	527.9	525.7	525.7
52.5°	508.0	501.4	492.5	490.3	490.3
55°	468.2	463.8	457.2	455.0	455.0
57.5°	435.1	428.5	424.1	419.6	419.6
60°	399.8	393.1	388.7	386.5	386.5
62.5°	366.6	357.8	353.4	351.2	353.4
65°	329.1	322.5	320.3	315.8	318.0
67.5°	293.7	287.1	284.9	284.9	289.3
70°	258.4	251.8	254.0	247.4	260.6
72.5°	223.1	218.7	218.7	212.0	218.7
75°	189.9	183.3	181.1	178.9	181.1
77.5°	154.6	152.4	150.2	145.8	148.0
80°	119.3	123.7	117.1	110.4	112.6
82.5°	88.3	86.1	81.7	79.5	81.7
85°	55.2	55.2	53.0	50.8	53.0
87.5°	26.5	26.5	24.3	24.3	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)