

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: P601287

Luminaire Tested: 14CGSB-30-L835

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601287
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-L835
Description: 1x4 CGSB AT 3000lm 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

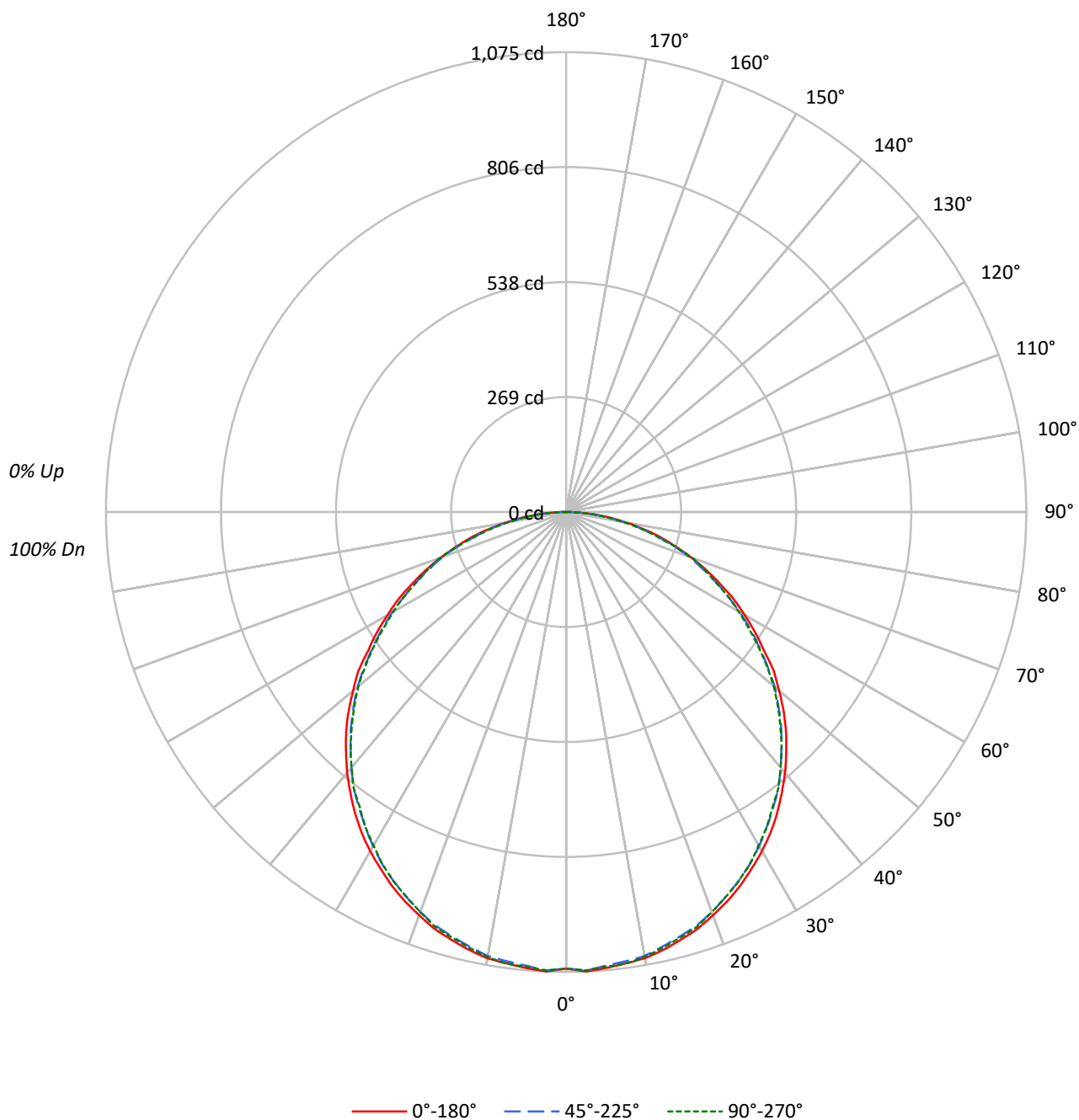
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3097.9 lumens
Efficiency: N/A
Efficacy: 94.7 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

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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°	2872	2872	2872
5°	2890	2875	2883
10°	2894	2879	2887
15°	2884	2861	2869
20°	2873	2850	2850
25°	2860	2828	2828
30°	2844	2803	2795
35°	2824	2771	2762
40°	2795	2739	2739
45°	2765	2704	2694
50°	2718	2663	2651
55°	2647	2584	2572
60°	2592	2520	2506
65°	2525	2457	2440
70°	2449	2408	2471
75°	2379	2269	2269
80°	2227	2185	2103
85°	2053	1973	1973

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2765 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	3.3
10°-20°	290.8	9.4
20°-30°	440.1	14.2
30°-40°	530.3	17.1
40°-50°	550.6	17.8
50°-60°	495.9	16.0
60°-70°	383.2	12.4
70°-80°	233.4	7.5
80°-90°	72.2	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°	832.4	26.9
0°-40°	1362.7	44.0
0°-60°	2409.1	77.8
0°-90°	3097.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3097.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1067	1067	1067	1067	1067	
5°	1070	1067	1064	1064	1067	102
15°	1035	1032	1027	1027	1030	292
25°	963	961	953	950	953	444
35°	860	854	844	841	841	537
45°	726	721	710	708	708	560
55°	564	559	551	548	548	507
65°	396	388	386	380	383	393
75°	229	221	218	216	218	240
85°	66	66	64	61	64	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1067.1	1067.1	1067.1	1067.1	1067.1
2.5°	1075.0	1075.0	1072.4	1072.4	1072.4
5°	1069.7	1067.1	1064.4	1064.4	1067.1
7.5°	1064.4	1064.4	1059.1	1059.1	1064.4
10°	1059.1	1056.4	1053.8	1053.8	1056.4
12.5°	1048.4	1045.8	1040.4	1040.4	1043.1
15°	1035.1	1032.5	1027.1	1027.1	1029.8
17.5°	1021.8	1019.2	1013.8	1013.8	1016.5
20°	1003.2	1000.5	995.2	992.6	995.2
22.5°	984.6	981.9	973.9	971.3	973.9
25°	963.3	960.6	952.6	950.0	952.6
27.5°	939.3	936.7	928.7	926.0	928.7
30°	915.4	910.1	902.1	896.8	899.4
32.5°	888.8	883.5	872.8	870.1	872.8
35°	859.5	854.2	843.5	840.9	840.9
37.5°	827.6	824.9	814.3	811.6	814.3
40°	795.6	790.3	779.7	777.0	779.7
42.5°	761.0	755.7	745.1	745.1	745.1
45°	726.5	721.1	710.5	707.8	707.8
47.5°	689.2	683.9	673.2	670.6	670.6
50°	649.3	644.0	636.0	633.3	633.3
52.5°	612.0	604.0	593.4	590.7	590.7
55°	564.1	558.8	550.8	548.2	548.2
57.5°	524.2	516.2	510.9	505.6	505.6
60°	481.6	473.7	468.3	465.7	465.7
62.5°	441.7	431.1	425.8	423.1	425.8
65°	396.5	388.5	385.8	380.5	383.2
67.5°	353.9	345.9	343.3	343.3	348.6
70°	311.3	303.4	306.0	298.0	314.0
72.5°	268.8	263.4	263.4	255.5	263.4
75°	228.8	220.9	218.2	215.5	218.2
77.5°	186.3	183.6	180.9	175.6	178.3
80°	143.7	149.0	141.0	133.0	135.7
82.5°	106.4	103.8	98.5	95.8	98.5
85°	66.5	66.5	63.9	61.2	63.9
87.5°	31.9	31.9	29.3	29.3	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)