

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: P601294

Luminaire Tested: 14CGSB-35-L830

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601294
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-35-L830
Description: 1x4 CGSB AT 3500lm 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

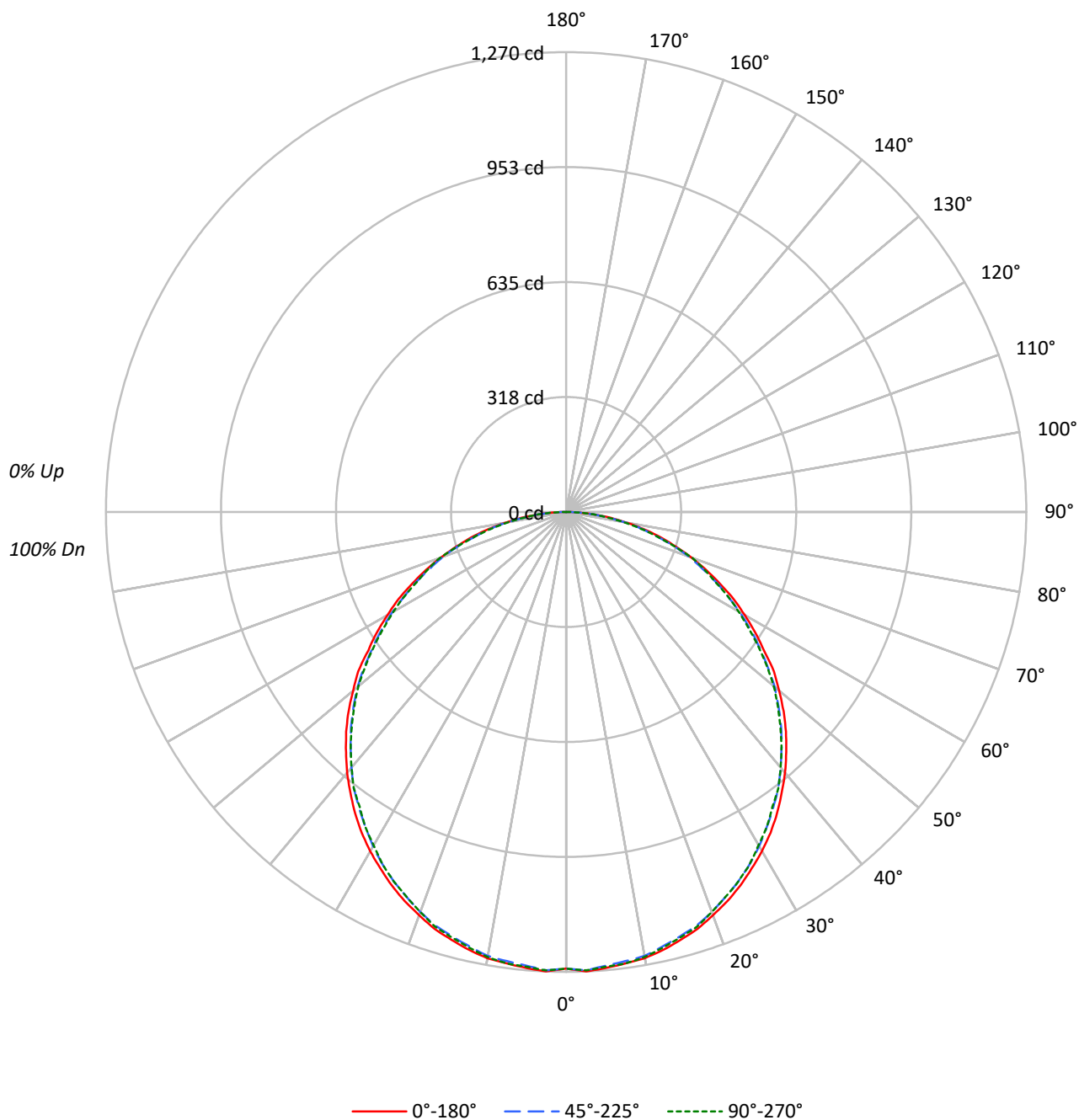
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3659.5 lumens
Efficiency: N/A
Efficacy: 93.8 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): 39
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°	3392	3392	3392
5°	3413	3396	3405
10°	3418	3401	3410
15°	3407	3380	3389
20°	3393	3367	3367
25°	3379	3341	3341
30°	3360	3311	3301
35°	3335	3273	3263
40°	3302	3235	3235
45°	3266	3194	3182
50°	3211	3145	3132
55°	3126	3053	3038
60°	3062	2977	2961
65°	2982	2902	2882
70°	2894	2844	2918
75°	2810	2680	2680
80°	2630	2582	2484
85°	2427	2328	2328

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3266 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	3.3
10°-20°	343.6	9.4
20°-30°	519.8	14.2
30°-40°	626.4	17.1
40°-50°	650.4	17.8
50°-60°	585.7	16.0
60°-70°	452.6	12.4
70°-80°	275.8	7.5
80°-90°	85.3	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°	983.3	26.9
0°-40°	1609.7	44.0
0°-60°	2845.8	77.8
0°-90°	3659.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3659.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1260	1260	1260	1260	1260	
5°	1264	1260	1257	1257	1260	120
15°	1223	1220	1213	1213	1216	345
25°	1138	1135	1125	1122	1125	524
35°	1015	1009	996	993	993	635
45°	858	852	839	836	836	661
55°	666	660	651	648	648	599
65°	468	459	456	450	453	464
75°	270	261	258	255	258	284
85°	79	79	75	72	75	89
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1260.5	1260.5	1260.5	1260.5	1260.5
2.5°	1269.9	1269.9	1266.8	1266.8	1266.8
5°	1263.6	1260.5	1257.3	1257.3	1260.5
7.5°	1257.3	1257.3	1251.0	1251.0	1257.3
10°	1251.0	1247.9	1244.8	1244.8	1247.9
12.5°	1238.5	1235.3	1229.0	1229.0	1232.2
15°	1222.8	1219.6	1213.3	1213.3	1216.5
17.5°	1207.0	1203.9	1197.6	1197.6	1200.8
20°	1185.0	1181.9	1175.6	1172.5	1175.6
22.5°	1163.0	1159.9	1150.5	1147.3	1150.5
25°	1137.9	1134.7	1125.3	1122.2	1125.3
27.5°	1109.6	1106.5	1097.0	1093.9	1097.0
30°	1081.3	1075.0	1065.6	1059.3	1062.4
32.5°	1049.9	1043.6	1031.0	1027.9	1031.0
35°	1015.3	1009.0	996.4	993.3	993.3
37.5°	977.6	974.4	961.9	958.7	961.9
40°	939.9	933.6	921.0	917.9	921.0
42.5°	899.0	892.7	880.1	880.1	880.1
45°	858.1	851.8	839.3	836.1	836.1
47.5°	814.1	807.8	795.3	792.1	792.1
50°	767.0	760.7	751.3	748.1	748.1
52.5°	723.0	713.5	701.0	697.8	697.8
55°	666.4	660.1	650.7	647.5	647.5
57.5°	619.2	609.8	603.5	597.2	597.2
60°	568.9	559.5	553.2	550.1	550.1
62.5°	521.8	509.2	502.9	499.8	502.9
65°	468.4	458.9	455.8	449.5	452.6
67.5°	418.1	408.6	405.5	405.5	411.8
70°	367.8	358.3	361.5	352.1	370.9
72.5°	317.5	311.2	311.2	301.8	311.2
75°	270.3	260.9	257.8	254.6	257.8
77.5°	220.0	216.9	213.7	207.5	210.6
80°	169.7	176.0	166.6	157.2	160.3
82.5°	125.7	122.6	116.3	113.2	116.3
85°	78.6	78.6	75.4	72.3	75.4
87.5°	37.7	37.7	34.6	34.6	37.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)