



Report of Test

LLIA000794-003

Catalog Number: GTSOL112-G2-MH-BL-NL

White aluminum mounting plate, aluminum heatsink and cooling fan, no enclosure.

One GTSOL112 LED module with 112 white LEDs, 16 groups of 7 LEDs

Two Mean Well HLG-240H-C2100B LED drivers

120.0Vac, 60.00Hz, 2.108A, 250.4W, 0.990PF, 6.0%THD(i)



Performance Summary

Total Light Output	29166 lm
Luminaire Power	250.3 W
Luminous Efficacy	116.5 lm/W

PREPARED FOR : Global Tech LED, 8901 Quality Road, Bonita Springs, FL 34135, USA



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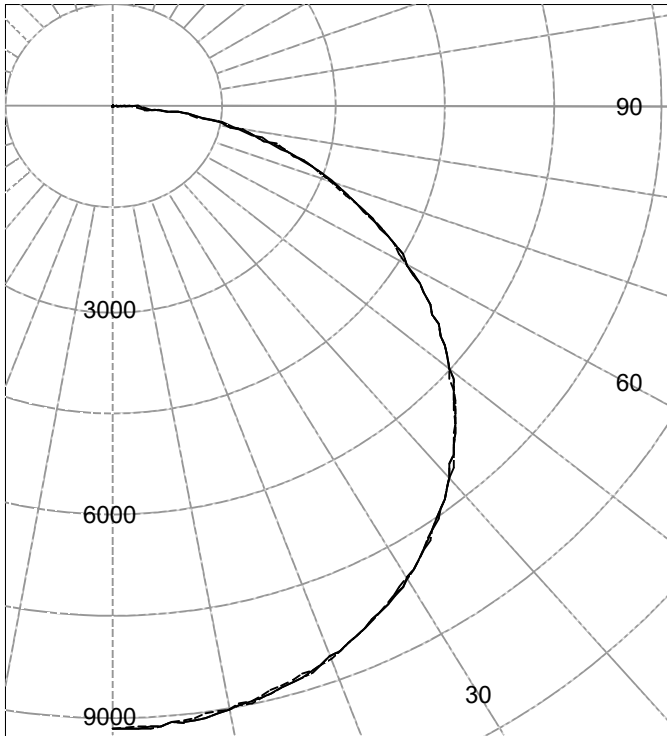
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Legend: C0-Solid, C45-Dashed, C90-Grey (cd)



INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	9132	9132	9132	9132	9132	
5.0	9106	9107	9092	9096	9113	866
10.0	9014	9017	9000	9004	9024	
15.0	8859	8865	8845	8851	8870	2502
20.0	8642	8642	8629	8636	8653	
25.0	8356	8357	8344	8349	8362	3852
30.0	8002	8007	7994	8000	8016	
35.0	7587	7594	7582	7587	7601	4749
40.0	7113	7113	7102	7109	7122	
45.0	6568	6577	6567	6572	6581	5070
50.0	5975	5983	5975	5980	5982	
55.0	5328	5337	5332	5333	5323	4764
60.0	4636	4643	4642	4632	4616	
65.0	3900	3918	3917	3903	3887	3866
70.0	3161	3173	3170	3154	3138	
75.0	2368	2381	2416	2404	2401	2527
80.0	1612	1648	1619	1618	1646	
85.0	867	855	863	884	879	959
90.0	134	135	145	140	100	

AVERAGE LUMINANCE (cd / m²)

Gamma	C0	C45	C90
45.0	165899	165875	166228
55.0	165896	166022	165749
65.0	164832	165527	164276
75.0	163430	166751	165655
85.0	177608	176880	180189

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	7220	N / A	24.8
0-40	11969	N / A	41.0
0-60	21803	N / A	74.8
0-90	29155	N / A	100.0
40-90	17186	N / A	58.9
60-90	7352	N / A	25.2
90-180	11	N / A	0.0
0-180	29166	N / A	100.0

Total Light Output = 29,166 lm

Signed:

Michael L. Grather
Authorized Signatory

Spacing Criterion: 0-180 1.3
Spacing Criterion: 90-270 1.3

Date of test 16-Jun-2017
Date of report 19-Jun-2017



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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	9132	9132	9132	9132	9132
2.5	9131	9130	9112	9117	9136
5.0	9106	9107	9092	9096	9113
7.5	9068	9066	9054	9060	9076
10.0	9014	9017	9000	9004	9024
12.5	8947	8948	8931	8938	8953
15.0	8859	8865	8845	8851	8870
17.5	8763	8762	8747	8755	8771
20.0	8642	8642	8629	8636	8653
22.5	8502	8511	8494	8502	8515
25.0	8356	8357	8344	8349	8362
27.5	8187	8189	8176	8184	8198
30.0	8002	8007	7994	8000	8016
32.5	7804	7807	7796	7800	7817
35.0	7587	7594	7582	7587	7601
37.5	7357	7363	7349	7355	7371
40.0	7113	7113	7102	7109	7122
42.5	6848	6852	6843	6847	6861
45.0	6568	6577	6567	6572	6581
47.5	6281	6287	6276	6282	6288
50.0	5975	5983	5975	5980	5982
52.5	5660	5667	5660	5664	5661
55.0	5328	5337	5332	5333	5323
57.5	4987	4994	4992	4987	4972
60.0	4636	4643	4642	4632	4616
62.5	4271	4282	4283	4267	4255
65.0	3900	3918	3917	3903	3887
67.5	3531	3547	3545	3531	3514
70.0	3161	3173	3170	3154	3138
72.5	2764	2783	2790	2773	2772
75.0	2368	2381	2416	2404	2401
77.5	1995	2008	2016	2007	2018
80.0	1612	1648	1619	1618	1646
82.5	1237	1247	1236	1252	1285
85.0	867	855	863	884	879
87.5	492	477	545	534	472
90.0	134	135	145	140	100



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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	134	135	145	140	100
92.5	3	3	4	5	6
95.0	2	2	2	2	3
97.5	0	0	0	0	0
100.0	0	0	0	0	0
102.5	0	0	0	0	0
105.0	0	0	0	0	0
107.5	0	0	0	0	0
110.0	0	0	0	0	0
112.5	0	0	0	0	0
115.0	0	0	0	0	0
117.5	0	0	0	0	0
120.0	0	0	0	0	0
122.5	0	0	0	0	0
125.0	0	0	0	0	0
127.5	0	0	0	0	0
130.0	0	0	0	0	0
132.5	0	0	0	0	0
135.0	0	0	0	0	0
137.5	0	0	0	0	0
140.0	0	0	0	0	0
142.5	0	0	0	0	0
145.0	0	0	0	0	0
147.5	0	0	0	0	0
150.0	0	0	0	0	0
152.5	0	0	0	0	0
155.0	0	0	0	0	0
157.5	0	0	0	0	0
160.0	0	0	0	0	0
162.5	0	0	0	0	0
165.0	0	0	0	0	0
167.5	0	0	0	0	0
170.0	0	0	0	0	0
172.5	0	0	0	0	0
175.0	0	0	0	0	0
177.5	0	0	0	0	0
180.0	0	0	0	0	0



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Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0		119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1		108	102	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2		97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3		88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4		81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47
5		74	61	51	44	72	60	51	44	57	50	44	55	48	43	53	47	43	40
6		68	54	45	39	66	53	45	38	52	44	38	50	43	38	48	42	37	35
7		63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8		59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9		55	41	33	27	53	41	32	27	39	32	27	38	31	27	37	31	26	25
10		51	38	30	24	50	37	30	24	36	29	24	35	29	24	34	28	24	22

For absolute test reports, CUs are expressed as a percentage of total lumen output. Calculations were based on published IES procedures, and are based on the zonal cavity method. Basic assumptions: 1) Room surfaces are lambertian reflectors. 2) Incident flux on each surface is uniformly distributed. 3) The room is spectrally neutral. When luminaires are not evenly distributed throughout the room, or do not exhibit lateral symmetry, CU values may differ from actual performance.

Circle of Light Plot

Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	253.7	7.81	7.82
8.0	142.7	10.41	10.43
10.0	91.3	13.02	13.04
12.0	63.4	15.62	15.64
14.0	46.6	18.23	18.25
16.0	35.7	20.83	20.86



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Test Distance 9.5 m
Test Temperature 25.6 °C

Notes

The laboratory has not participated in the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

Tested in accordance with the applicable sections of publications: IES LM-79-08 (Sec. 12), IES LM-16-93, IES LM-58-13, CIE 13.3:1995, CIE 15:2004, ANSI C78.377:2015, ANSI C82.77-10:2014.

The luminous intensity values, and other derived quantities, contained in this report are based on the absolute data, as measured.

Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections.

Photometric intensity values are reported using the CIE Gamma coordinate system as defined in CIE publication number 121.

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