

Report of Test

LLIA000795-002

Catalog Number: GTSOL112-G2-HI-BR-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

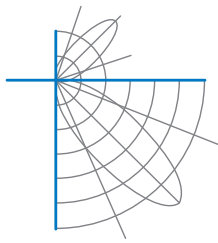
120.0Vac, 60.00Hz, 2.490A, 296.2W, 0.992PF, 6.1%THD(i)



Performance Summary

Total Light Output	35087 lm
Luminaire Power	296.1 W
Luminous Efficacy	118.5 lm/W

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



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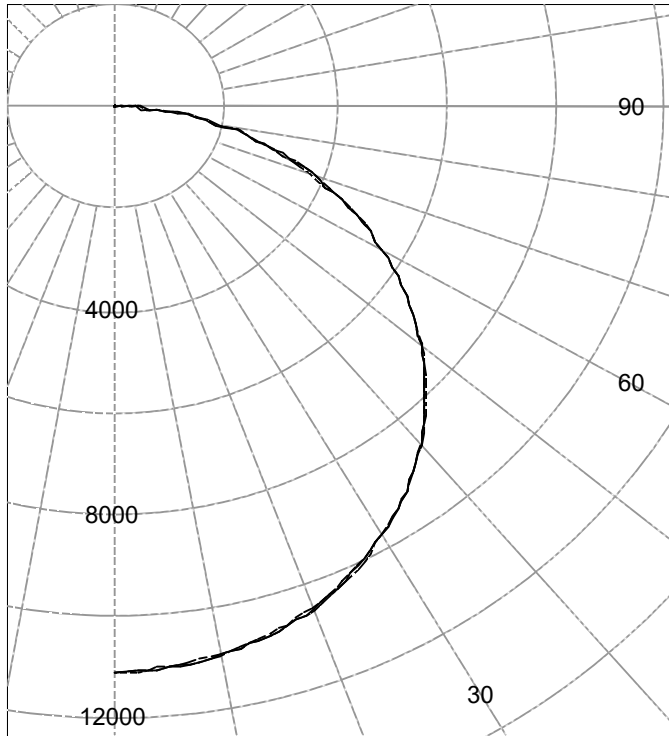
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Legend: C0-Solid, C45-Dashed, C90-Grey (cd)



(Two plane symmetry) C0-C90

AVERAGE LUMINANCE (cd / m²)

Gamma	C0	C45	C90
45.0	201016	200903	201521
55.0	200542	200510	200860
65.0	198088	198655	197980
75.0	192720	195915	195159
85.0	189495	188457	193579

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	11091	11091	11091	11091	11091	
5.0	11055	11064	11036	11050	11068	1051
10.0	10943	10952	10922	10935	10959	
15.0	10756	10760	10733	10746	10769	3036
20.0	10490	10493	10462	10481	10499	
25.0	10134	10145	10115	10131	10151	4673
30.0	9710	9715	9693	9707	9722	
35.0	9203	9209	9190	9204	9221	5759
40.0	8621	8631	8609	8624	8639	
45.0	7958	7971	7954	7968	7978	6145
50.0	7232	7246	7230	7242	7254	
55.0	6440	6452	6439	6447	6451	5760
60.0	5595	5601	5592	5593	5581	
65.0	4687	4709	4701	4692	4685	4644
70.0	3769	3780	3773	3764	3754	
75.0	2793	2799	2839	2822	2828	2973
80.0	1855	1886	1869	1860	1883	
85.0	925	909	920	936	945	1038
90.0	107	114	127	122	72	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	8761	N / A	25.0
0-40	14520	N / A	41.4
0-60	26425	N / A	75.3
0-90	35080	N / A	100.0
40-90	20560	N / A	58.6
60-90	8655	N / A	24.7
90-180	7	N / A	0.0
0-180	35087	N / A	100.0

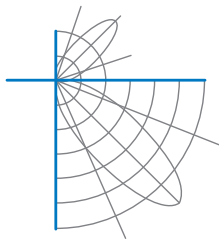
Total Light Output = 35,087 lm

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

Signed:

Tracy A Silvert
Authorized Signatory

Date of test 19-Jun-2017
Date of report 20-Jun-2017



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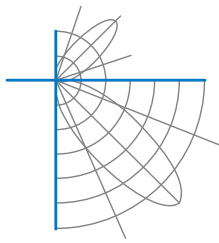
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Two Mean Well HLG-240H-C2100B LED drivers

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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	11091	11091	11091	11091	11091
2.5	11083	11095	11062	11078	11094
5.0	11055	11064	11036	11050	11068
7.5	11010	11014	10989	11002	11017
10.0	10943	10952	10922	10935	10959
12.5	10858	10865	10837	10853	10872
15.0	10756	10760	10733	10746	10769
17.5	10633	10636	10608	10622	10644
20.0	10490	10493	10462	10481	10499
22.5	10320	10327	10299	10314	10333
25.0	10134	10145	10115	10131	10151
27.5	9931	9936	9914	9927	9947
30.0	9710	9715	9693	9707	9722
32.5	9464	9469	9449	9464	9483
35.0	9203	9209	9190	9204	9221
37.5	8919	8929	8910	8924	8939
40.0	8621	8631	8609	8624	8639
42.5	8301	8311	8293	8307	8319
45.0	7958	7971	7954	7968	7978
47.5	7607	7617	7600	7613	7625
50.0	7232	7246	7230	7242	7254
52.5	6848	6858	6842	6854	6864
55.0	6440	6452	6439	6447	6451
57.5	6024	6034	6022	6029	6020
60.0	5595	5601	5592	5593	5581
62.5	5145	5158	5151	5144	5135
65.0	4687	4709	4701	4692	4685
67.5	4228	4249	4238	4233	4220
70.0	3769	3780	3773	3764	3754
72.5	3270	3295	3309	3293	3293
75.0	2793	2799	2839	2822	2828
77.5	2333	2343	2343	2336	2357
80.0	1855	1886	1869	1860	1883
82.5	1386	1395	1371	1381	1438
85.0	925	909	920	936	945
87.5	494	468	520	507	463
90.0	107	114	127	122	72



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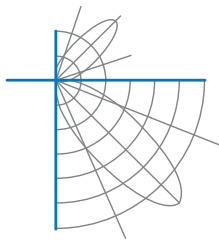
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Two Mean Well HLG-240H-C2100B LED drivers

120.0Vac, 60.00Hz, 2.490A, 296.2W, 0.992PF, 6.1%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	107	114	127	122	72
92.5	3	3	4	4	5
95.0	2	2	2	2	2
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

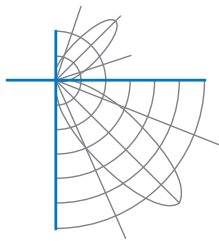
Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	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	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82
2	98	89	82	75	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	49	42	38	35
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	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	308.1	7.80	7.81
8.0	173.3	10.40	10.42
10.0	110.9	13.01	13.02
12.0	77.0	15.61	15.63
14.0	56.6	18.21	18.23
16.0	43.3	20.81	20.84



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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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