

Report of Test

LLIA000793-003

Catalog Number: GTSOL5498-G2-MH-BR-NL

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

One GTSOL5498 LED module with 42 white LEDs, 6 groups of 7 LEDs

One Mean Well HLG-100H-24B LED driver

120.0Vac, 60.00Hz, 0.6312A, 74.99W, 0.990PF, 10.2%THD(i)



Performance Summary

Total Light Output	9506 lm
Luminaire Power	75.0 W
Luminous Efficacy	126.7 lm/W

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



Test Report No. LLIA000793-003

Catalog Number: GTSOL5498-G2-MH-BR-NL

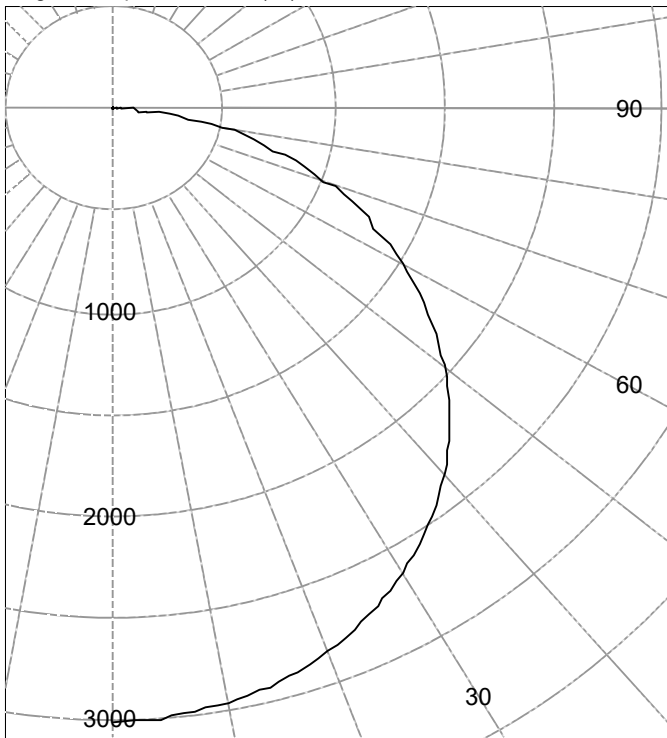
White aluminum mounting plate, aluminum heatsink and cooling fan, no enclosure.

One GTSOL5498 LED module with 42 white LEDs, 6 groups of 7 LEDs

One Mean Well HLG-100H-24B LED driver

120.0Vac, 60.00Hz, 0.6312A, 74.99W, 0.990PF, 10.2%THD(i)

Legend: All planes - Solid (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	168406
55.0	167976
65.0	166081
75.0	161050
85.0	156812

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	3003		90	42	
5	2993	285	95	1	4
10	2963		100	0	
15	2912	823	105	0	0
20	2840		110	0	
25	2746	1266	115	0	0
30	2631		120	0	
35	2495	1561	125	0	0
40	2338		130	0	
45	2161	1667	135	0	0
50	1964		140	0	
55	1748	1562	145	0	0
60	1517		150	0	
65	1274	1259	155	0	0
70	1018		160	0	
75	756	800	165	0	0
80	503		170	0	
85	248	279	175	0	0
90	42		180	0	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	2374	N / A	25.0
0-40	3935	N / A	41.4
0-60	7164	N / A	75.4
0-90	9502	N / A	100.0
40-90	5567	N / A	58.6
60-90	2338	N / A	24.6
90-180	4	N / A	0.0
0-180	9506	N / A	100.0

Total Light Output = 9,506 lm

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

Signed:

Michael L. Grather
Authorized Signatory

Date of test 7-Jun-2017
Date of report 8-Jun-2017



Test Report No. LLIA000793-003

Catalog Number: GTSOL5498-G2-MH-BR-NL

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

One GTSOL5498 LED module with 42 white LEDs, 6 groups of 7 LEDs

One Mean Well HLG-100H-24B LED driver

120.0Vac, 60.00Hz, 0.6312A, 74.99W, 0.990PF, 10.2%THD(i)

Intensity (cd) and Flux (lm) data

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	3003		90.0	42	
2.5	3001		92.5	2	
5.0	2993	285	95.0	1	
7.5	2981		97.5	0	4
10.0	2963		100.0	0	
12.5	2940		102.5	0	
15.0	2912	823	105.0	0	
17.5	2879		107.5	0	0
20.0	2840		110.0	0	
22.5	2795		112.5	0	
25.0	2746	1266	115.0	0	
27.5	2691		117.5	0	0
30.0	2631		120.0	0	
32.5	2566		122.5	0	
35.0	2495	1561	125.0	0	
37.5	2419		127.5	0	0
40.0	2338		130.0	0	
42.5	2252		132.5	0	
45.0	2161	1667	135.0	0	
47.5	2065		137.5	0	0
50.0	1964		140.0	0	
52.5	1858		142.5	0	
55.0	1748	1562	145.0	0	
57.5	1635		147.5	0	0
60.0	1517		150.0	0	
62.5	1396		152.5	0	
65.0	1274	1259	155.0	0	
67.5	1148		157.5	0	0
70.0	1018		160.0	0	
72.5	887		162.5	0	
75.0	756	800	165.0	0	
77.5	630		167.5	0	0
80.0	503		170.0	0	
82.5	375		172.5	0	
85.0	248	279	175.0	0	
87.5	134		177.5	0	0
90.0	42		180.0	0	



Test Number: LLIA000793-003

Catalog Number: GTSOL5498-G2-MH-BR-NL

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

One GTSOL5498 LED module with 42 white LEDs, 6 groups of 7 LEDs

One Mean Well HLG-100H-24B LED driver

120.0Vac, 60.00Hz, 0.6312A, 74.99W, 0.990PF, 10.2%THD(i)

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	76	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	67	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	83.4	7.81	7.81
8.0	46.9	10.41	10.41
10.0	30.0	13.02	13.02
12.0	20.9	15.62	15.62
14.0	15.3	18.22	18.22
16.0	11.7	20.83	20.83



Test Report No. LLIA000793-003

Catalog Number: GTSOL5498-G2-MH-BR-NL

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

One GTSOL5498 LED module with 42 white LEDs, 6 groups of 7 LEDs

One Mean Well HLG-100H-24B LED driver

120.0Vac, 60.00Hz, 0.6312A, 74.99W, 0.990PF, 10.2%THD(i)

Test Distance 9.5 m
Test Temperature 25.2 °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.

This report may contain data that are not covered by the NVLAP accreditation. Quantities marked with * are not covered.

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the Federal Government.