

Report of Test

LLIA000793-004

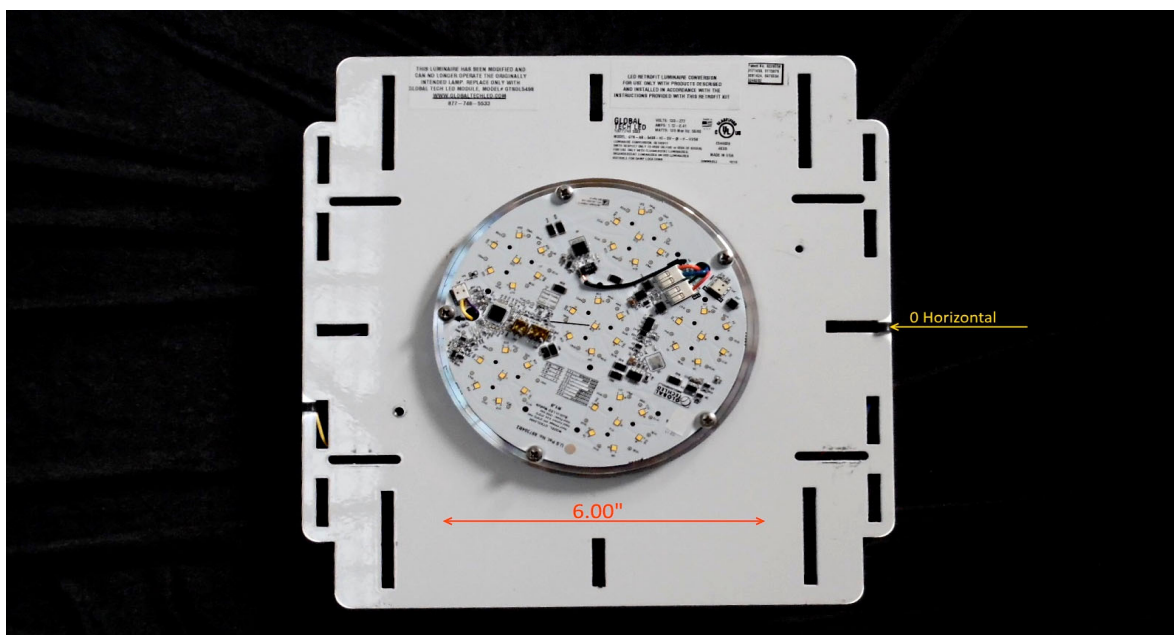
Catalog Number: GTSOL5498-G2-ML-BR-NL

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, 0.5512A, 65.29W, 0.987PF, 11.2%THD(i)



Performance Summary

Total Light Output	8453 lm
Luminaire Power	65.3 W
Luminous Efficacy	129.4 lm/W

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



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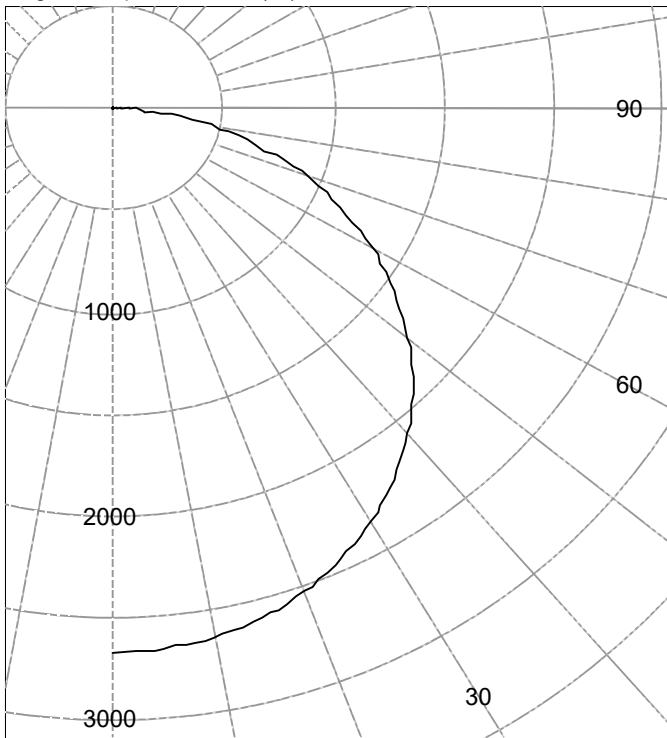
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Legend: All planes - Solid (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	149751
55.0	149365
65.0	147666
75.0	143177
85.0	139379

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	2671		90	37	
5	2662	253	95	1	4
10	2635		100	0	
15	2589	731	105	0	0
20	2525		110	0	
25	2442	1126	115	0	0
30	2339		120	0	
35	2219	1388	125	0	0
40	2079		130	0	
45	1921	1482	135	0	0
50	1746		140	0	
55	1555	1389	145	0	0
60	1349		150	0	
65	1132	1119	155	0	0
70	905		160	0	
75	672	711	165	0	0
80	447		170	0	
85	220	248	175	0	0
90	37		180	0	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	2111	N / A	25.0
0-40	3499	N / A	41.4
0-60	6370	N / A	75.4
0-90	8449	N / A	100.0
40-90	4950	N / A	58.6
60-90	2079	N / A	24.6
90-180	4	N / A	0.0
0-180	8453	N / A	100.0

Total Light Output = 8,453 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



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Intensity (cd) and Flux (lm) data

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	2671		90.0	37	
2.5	2668		92.5	2	
5.0	2662	253	95.0	1	
7.5	2650		97.5	0	4
10.0	2635		100.0	0	
12.5	2614		102.5	0	
15.0	2589	731	105.0	0	
17.5	2560		107.5	0	0
20.0	2525		110.0	0	
22.5	2486		112.5	0	
25.0	2442	1126	115.0	0	
27.5	2393		117.5	0	0
30.0	2339		120.0	0	
32.5	2281		122.5	0	
35.0	2219	1388	125.0	0	
37.5	2151		127.5	0	0
40.0	2079		130.0	0	
42.5	2003		132.5	0	
45.0	1921	1482	135.0	0	
47.5	1836		137.5	0	0
50.0	1746		140.0	0	
52.5	1652		142.5	0	
55.0	1555	1389	145.0	0	
57.5	1453		147.5	0	0
60.0	1349		150.0	0	
62.5	1241		152.5	0	
65.0	1132	1119	155.0	0	
67.5	1021		157.5	0	0
70.0	905		160.0	0	
72.5	789		162.5	0	
75.0	672	711	165.0	0	
77.5	560		167.5	0	0
80.0	447		170.0	0	
82.5	334		172.5	0	
85.0	220	248	175.0	0	
87.5	119		177.5	0	0
90.0	37		180.0	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	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	74.2	7.81	7.81
8.0	41.7	10.41	10.41
10.0	26.7	13.02	13.02
12.0	18.5	15.62	15.62
14.0	13.6	18.22	18.22
16.0	10.4	20.83	20.83



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Test Distance 9.5 m
Test Temperature 25.3 °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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