



Report of Test

LLIA000792-003

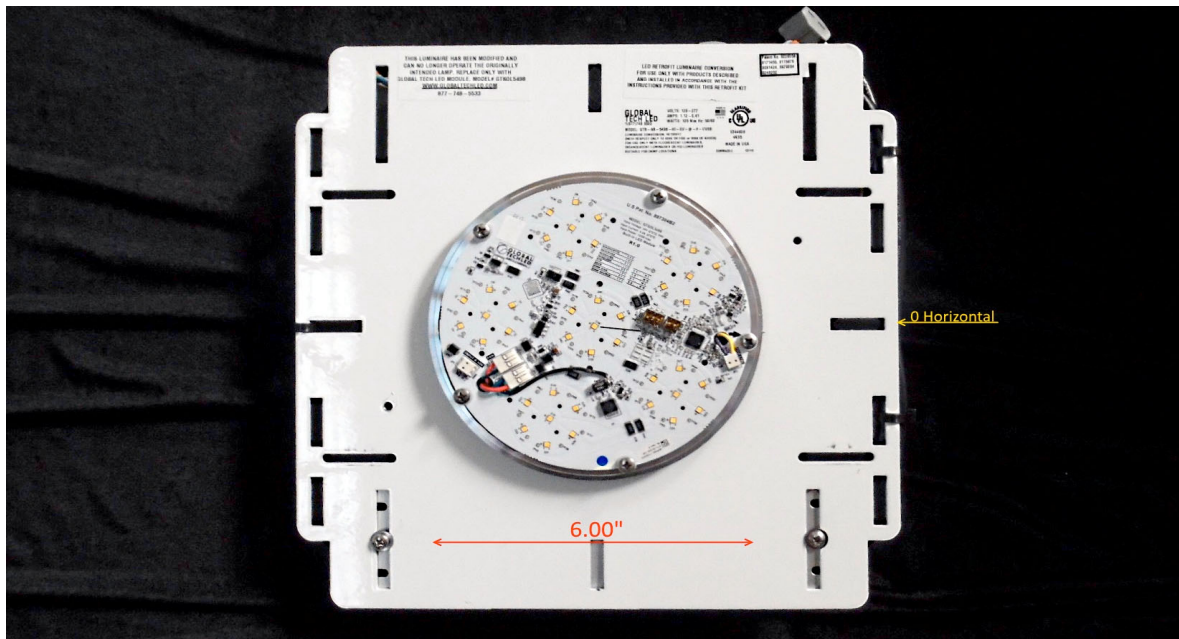
Catalog Number: GTSOL5498-G2-MH-BL-NL

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, 0.5931A, 70.34W, 0.989PF, 10.7%THD(i)



Performance Summary

Total Light Output	8616 lm
Luminaire Power	70.3 W
Luminous Efficacy	122.6 lm/W

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



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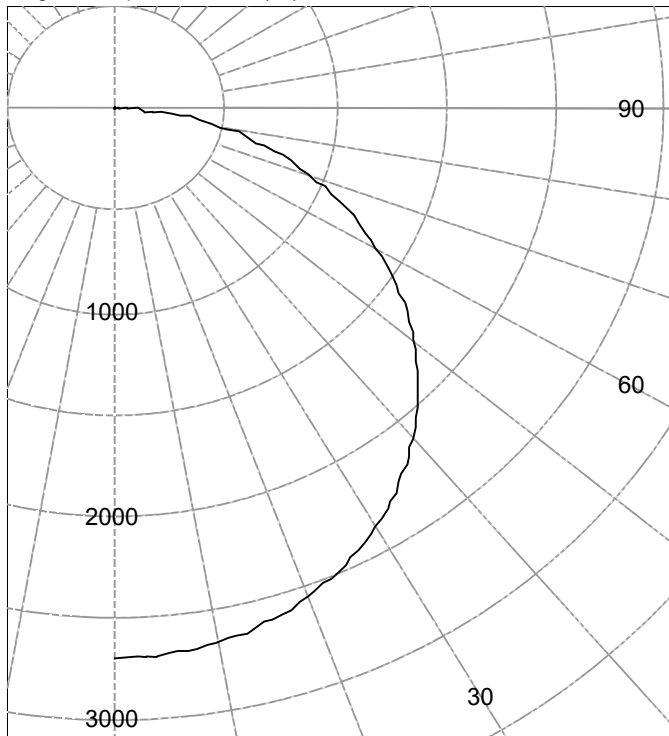
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Legend: All planes - Solid (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	151568
55.0	151515
65.0	150697
75.0	149414
85.0	158695

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	2697		90	47	
5	2688	256	95	1	5
10	2662		100	0	
15	2617	739	105	0	0
20	2552		110	0	
25	2469	1139	115	0	0
30	2366		120	0	
35	2244	1404	125	0	0
40	2103		130	0	
45	1945	1500	135	0	0
50	1769		140	0	
55	1577	1409	145	0	0
60	1371		150	0	
65	1156	1143	155	0	0
70	930		160	0	
75	702	742	165	0	0
80	479		170	0	
85	251	280	175	0	0
90	47		180	0	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	2133	N / A	24.8
0-40	3538	N / A	41.1
0-60	6447	N / A	74.8
0-90	8611	N / A	99.9
40-90	5074	N / A	58.9
60-90	2164	N / A	25.1
90-180	5	N / A	0.1
0-180	8616	N / A	100.0

Total Light Output = 8,616 lm

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

Signed:

Michael L. Grather
Authorized Signatory

Date of test 5-Jun-2017
Date of report 7-Jun-2017



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Intensity (cd) and Flux (lm) data

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	2697		90.0	47	
2.5	2695		92.5	3	
5.0	2688	256	95.0	1	
7.5	2677		97.5	0	5
10.0	2662		100.0	0	
12.5	2642		102.5	0	
15.0	2617	739	105.0	0	
17.5	2587		107.5	0	0
20.0	2552		110.0	0	
22.5	2513		112.5	0	
25.0	2469	1139	115.0	0	
27.5	2420		117.5	0	0
30.0	2366		120.0	0	
32.5	2307		122.5	0	
35.0	2244	1404	125.0	0	
37.5	2176		127.5	0	0
40.0	2103		130.0	0	
42.5	2027		132.5	0	
45.0	1945	1500	135.0	0	
47.5	1859		137.5	0	0
50.0	1769		140.0	0	
52.5	1675		142.5	0	
55.0	1577	1409	145.0	0	
57.5	1476		147.5	0	0
60.0	1371		150.0	0	
62.5	1264		152.5	0	
65.0	1156	1143	155.0	0	
67.5	1045		157.5	0	0
70.0	930		160.0	0	
72.5	815		162.5	0	
75.0	702	742	165.0	0	
77.5	591		167.5	0	0
80.0	479		170.0	0	
82.5	366		172.5	0	
85.0	251	280	175.0	0	
87.5	148		177.5	0	0
90.0	47		180.0	0	



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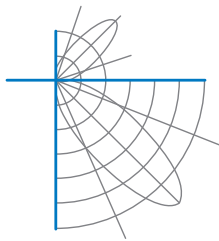
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Coefficients Of Utilization - Zonal Cavity Method																		
Effective Floor Cavity Reflectance 0.20																		
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	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	49	43	53	47	43	40
6	68	54	45	39	66	54	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.

Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	74.9	7.82	7.82
8.0	42.1	10.43	10.43
10.0	27.0	13.03	13.03
12.0	18.7	15.64	15.64
14.0	13.8	18.25	18.25
16.0	10.5	20.85	20.85



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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.

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