

Report of Test

LLIA000792-002

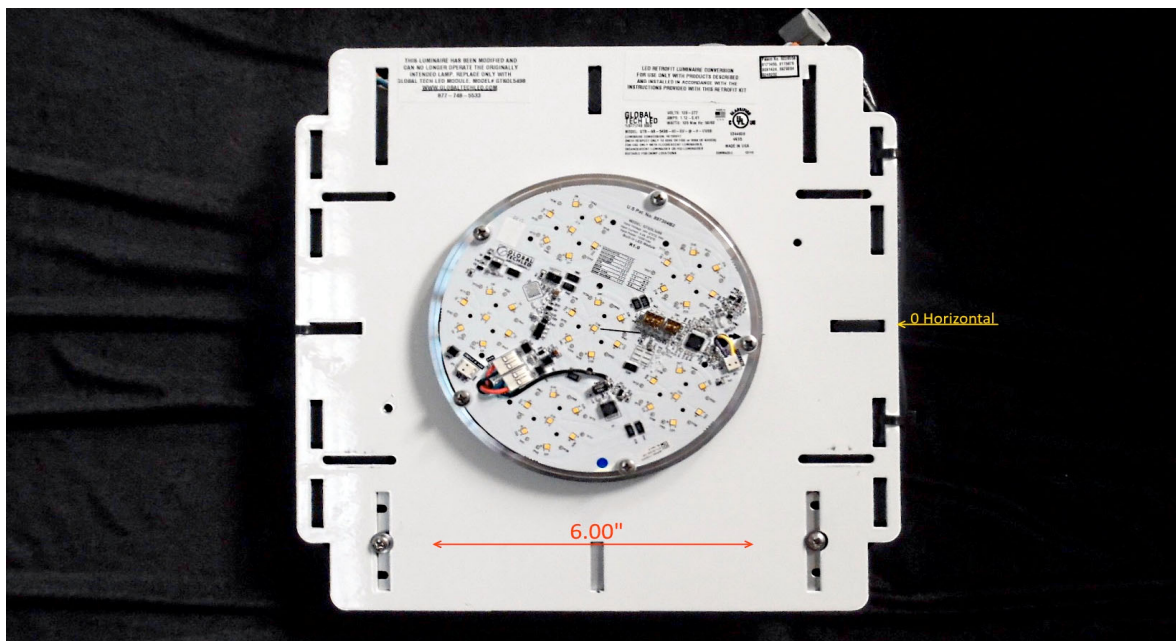
Catalog Number: GTSOL5498-G2-HI-BL-NL

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

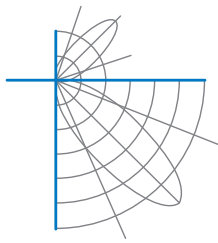
120.0Vac, 60.00Hz, 0.6615A, 78.64W, 0.990PF, 9.9%THD(i)



Performance Summary

Total Light Output	9457 lm
Luminaire Power	78.6 W
Luminous Efficacy	120.3 lm/W

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



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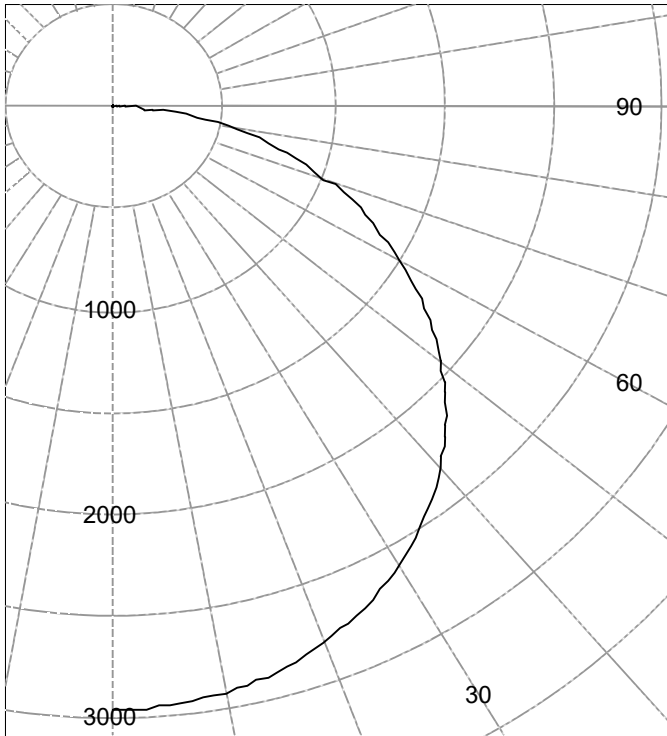
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Legend: All planes - Solid (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	166353
55.0	166290
65.0	165396
75.0	164012
85.0	174347

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	2960		90	52	
5	2950	281	95	1	5
10	2921		100	0	
15	2872	811	105	0	0
20	2801		110	0	
25	2710	1250	115	0	0
30	2597		120	0	
35	2463	1541	125	0	0
40	2309		130	0	
45	2134	1646	135	0	0
50	1942		140	0	
55	1731	1547	145	0	0
60	1505		150	0	
65	1268	1254	155	0	0
70	1021		160	0	
75	770	814	165	0	0
80	526		170	0	
85	276	307	175	0	0
90	52		180	0	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	2341	N / A	24.8
0-40	3883	N / A	41.1
0-60	7076	N / A	74.8
0-90	9452	N / A	99.9
40-90	5569	N / A	58.9
60-90	2376	N / A	25.1
90-180	5	N / A	0.1
0-180	9457	N / A	100.0

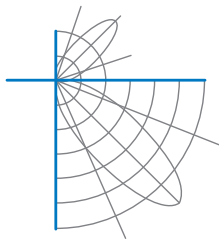
Total Light Output = 9,457 lm

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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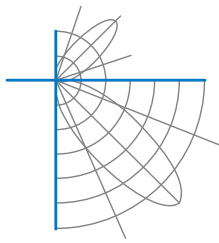
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Intensity (cd) and Flux (lm) data

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	2960		90.0	52	
2.5	2957		92.5	3	
5.0	2950	281	95.0	1	
7.5	2938		97.5	0	5
10.0	2921		100.0	0	
12.5	2899		102.5	0	
15.0	2872	811	105.0	0	
17.5	2839		107.5	0	0
20.0	2801		110.0	0	
22.5	2758		112.5	0	
25.0	2710	1250	115.0	0	
27.5	2656		117.5	0	0
30.0	2597		120.0	0	
32.5	2533		122.5	0	
35.0	2463	1541	125.0	0	
37.5	2388		127.5	0	0
40.0	2309		130.0	0	
42.5	2224		132.5	0	
45.0	2134	1646	135.0	0	
47.5	2040		137.5	0	0
50.0	1942		140.0	0	
52.5	1838		142.5	0	
55.0	1731	1547	145.0	0	
57.5	1620		147.5	0	0
60.0	1505		150.0	0	
62.5	1387		152.5	0	
65.0	1268	1254	155.0	0	
67.5	1147		157.5	0	0
70.0	1021		160.0	0	
72.5	895		162.5	0	
75.0	770	814	165.0	0	
77.5	648		167.5	0	0
80.0	526		170.0	0	
82.5	401		172.5	0	
85.0	276	307	175.0	0	
87.5	162		177.5	0	0
90.0	52		180.0	0	



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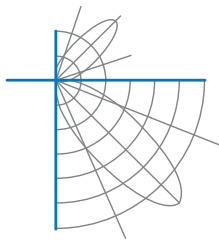
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Coefficients Of Utilization - Zonal Cavity Method																		
Effective Floor Cavity Reflectance 0.20																		
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	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.

Circle of Light Plot			
Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	82.2	7.82	7.82
8.0	46.2	10.43	10.43
10.0	29.6	13.03	13.03
12.0	20.6	15.64	15.64
14.0	15.1	18.25	18.25
16.0	11.6	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.

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