



Report of Test

LLIA000785-005

Catalog Number: GTSOL5498-G2-HO-SV-BR-360S

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

One GTSOL5498 LED module with 42 white LEDs, 6 groups of 7 LEDs with clear glass optics below each.

One Mean Well HLG-150H-24B LED driver.

120.0Vac, 60.00Hz, 1.043A, 124.2W, 0.993PF, 7.8%THD(i)



Performance Summary

Total Light Output	13289 lm
Luminaire Power	124.2 W
Luminous Efficacy	107.0 lm/W

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



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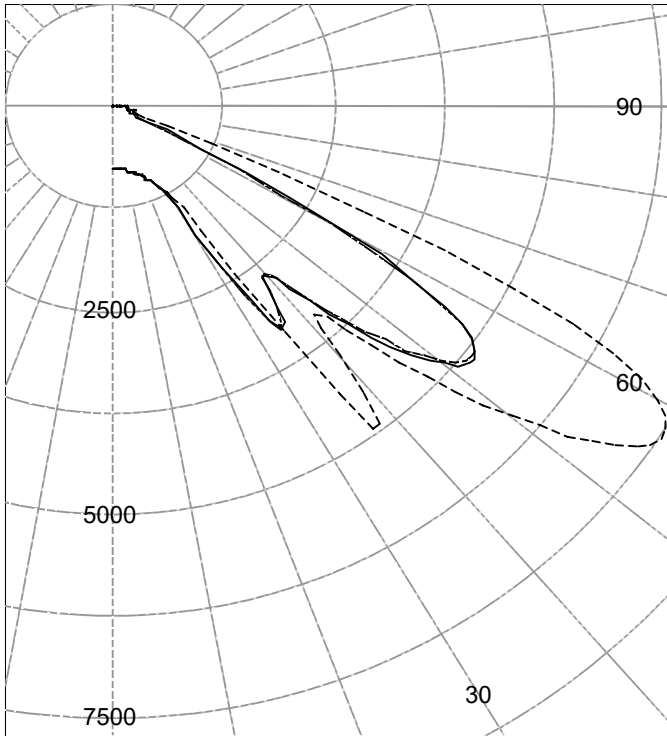
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Legend: C0-Solid, C45-Dashed, C90-Grey (cd)



(Two plane symmetry) C0-C90

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	765	765	765	765	765	
5.0	763	764	767	765	765	74
10.0	784	783	787	786	785	
15.0	825	820	822	825	831	236
20.0	896	886	887	889	902	
25.0	1004	994	1004	1001	1012	478
30.0	1426	1265	1211	1275	1434	
35.0	3340	3532	3392	3463	3303	1870
40.0	2679	3033	3998	3108	2651	
45.0	3798	3813	4149	3803	3702	3106
50.0	4922	5224	5908	5216	4848	
55.0	4969	5811	7253	5868	4957	5078
60.0	2940	4465	7170	4629	2803	
65.0	412	1067	4148	1236	414	1979
70.0	227	259	367	253	201	
75.0	219	220	222	205	192	233
80.0	215	220	220	219	190	
85.0	163	170	217	177	147	185
90.0	71	109	81	72	106	

AVERAGE LUMINANCE (cd / m²)

Gamma	C0	C45	C90
45.0	295995	323392	288511
55.0	477414	696883	476220
65.0	53720	540950	54049
75.0	46648	47281	40785
85.0	102990	137408	92721

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	788	N / A	5.9
0-40	2657	N / A	20.0
0-60	10841	N / A	81.6
0-90	13238	N / A	99.6
40-90	10581	N / A	79.6
60-90	2397	N / A	18.0
90-180	51	N / A	0.4
0-180	13289	N / A	100.0

Total Light Output = 13,289 lm

Spacing Criterion: 0-180 3.5
Spacing Criterion: 90-270 3.4

Signed:

Michael L. Grather
Authorized Signatory

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



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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	765	765	765	765	765
2.5	762	764	766	764	764
5.0	763	764	767	765	765
7.5	769	771	774	772	770
10.0	784	783	787	786	785
12.5	802	800	803	805	807
15.0	825	820	822	825	831
17.5	854	847	848	850	860
20.0	896	886	887	889	902
22.5	945	936	939	940	954
25.0	1004	994	1004	1001	1012
27.5	1086	1067	1085	1079	1094
30.0	1426	1265	1211	1275	1434
32.5	2593	2176	1606	2155	2537
35.0	3340	3532	3392	3463	3303
37.5	2948	3641	4986	3673	2979
40.0	2679	3033	3998	3108	2651
42.5	3123	3148	3442	3164	3051
45.0	3798	3813	4149	3803	3702
47.5	4436	4565	5056	4541	4339
50.0	4922	5224	5908	5216	4848
52.5	5135	5691	6685	5708	5091
55.0	4969	5811	7253	5868	4957
57.5	4283	5475	7460	5554	4254
60.0	2940	4465	7170	4629	2803
62.5	1386	2704	6163	3012	1359
65.0	412	1067	4148	1236	414
67.5	252	362	1580	383	233
70.0	227	259	367	253	201
72.5	221	227	244	219	186
75.0	219	220	222	205	192
77.5	212	224	210	209	201
80.0	215	220	220	219	190
82.5	201	197	243	221	160
85.0	163	170	217	177	147
87.5	115	136	144	122	156
90.0	71	109	81	72	106



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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	71	109	81	72	106
92.5	49	77	56	52	74
95.0	31	51	40	35	48
97.5	20	31	27	22	31
100.0	12	15	3	9	18
102.5	5	3	2	2	4
105.0	2	3	3	2	2
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	99	95	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	97	88	80	74	94	86	79	73	82	76	71	79	74	70	76	72	68	66
3	86	75	65	58	84	73	64	58	70	62	56	67	61	55	64	59	54	52
4	77	64	54	46	75	62	53	46	59	51	45	57	50	44	55	48	43	41
5	69	55	44	37	67	53	44	36	51	42	36	49	41	35	47	40	35	32
6	62	47	37	30	60	46	36	29	44	36	29	42	35	29	41	34	28	26
7	57	41	31	24	55	40	31	24	39	30	24	37	29	24	36	29	23	21
8	52	36	27	20	50	36	26	20	34	26	20	33	25	19	31	24	19	17
9	48	32	23	17	46	32	23	17	30	22	17	29	22	16	28	21	16	14
10	44	29	20	14	43	28	20	14	27	19	14	26	19	14	25	19	14	12

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	21.3	20.67	20.55
8.0	12.0	27.56	27.40
10.0	7.7	34.46	34.25
12.0	5.3	41.35	41.10
14.0	3.9	48.24	47.95
16.0	3.0	55.13	54.80



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Test Distance 9.5 m
Test Temperature 24.8 °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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