

Report of Test

LLIA000785-003

Catalog Number: GTSOL5498-G2-HO-SV-BR-50D

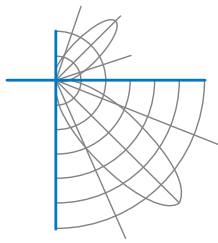
White aluminum mounting plate, aluminum heatsink and cooling fan, clear plastic outer enclosure.
One GTSOL5498 LED module with 42 white LEDs, 6 groups of 7 LEDs with clear glass optics below each.
One Mean Well HLG-150H-24B LED driver.
120.0Vac, 60.00Hz, 0.9421A, 112.1W, 0.992PF, 8.3%THD(i)



Performance Summary

Total Light Output	11408 lm
Luminaire Power	112.1 W
Luminous Efficacy	101.8 lm/W

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



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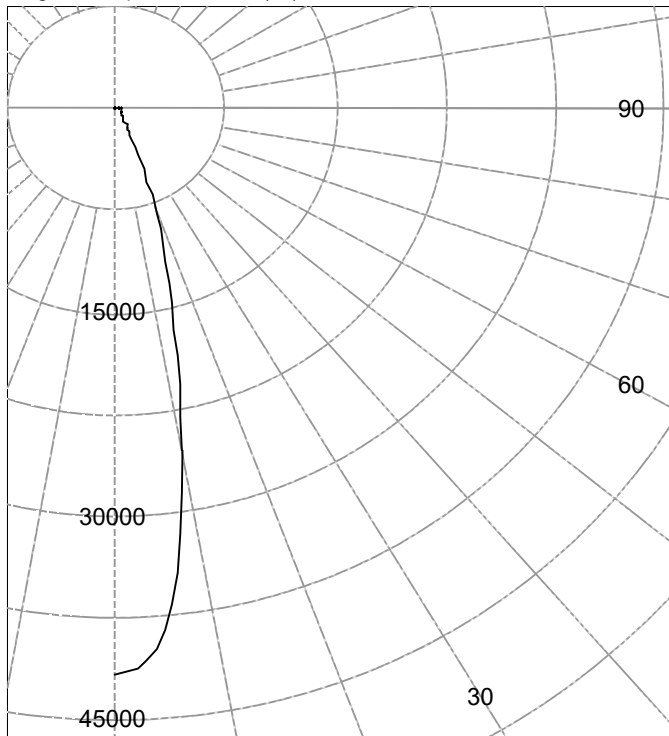
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Legend: All planes - Solid (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	42310
55.0	43073
65.0	40036
75.0	67524
85.0	128141

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	41707		90	134	
5	38626	3253	95	88	98
10	25696		100	49	
15	14857	4142	105	12	18
20	8002		110	1	
25	3130	1619	115	0	1
30	1433		120	0	
35	866	570	125	0	0
40	644		130	0	
45	543	429	135	0	0
50	501		140	0	
55	448	398	145	0	0
60	370		150	0	
65	307	317	155	0	0
70	310		160	0	
75	317	332	165	0	0
80	300		170	0	
85	203	233	175	0	0
90	134		180	0	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	9013	N / A	79.0
0-40	9584	N / A	84.0
0-60	10410	N / A	91.3
0-90	11292	N / A	99.0
40-90	1708	N / A	15.0
60-90	881	N / A	7.7
90-180	116	N / A	1.0
0-180	11408	N / A	100.0

Total Light Output = 11,408 lm

Spacing Criterion: 0-180 0.4
Spacing Criterion: 90-270 0.4

Signed:

Michael L. Grather
Authorized Signatory

Date of test 31-May-2017
Date of report 2-Jun-2017



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Intensity (cd) and Flux (lm) data

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	41707		90.0	134	
2.5	41113		92.5	106	
5.0	38626	3253	95.0	88	
7.5	33062		97.5	72	98
10.0	25696		100.0	49	
12.5	19658		102.5	27	
15.0	14857	4142	105.0	12	
17.5	11157		107.5	4	18
20.0	8002		110.0	1	
22.5	5146		112.5	1	
25.0	3130	1619	115.0	0	
27.5	2017		117.5	0	1
30.0	1433		120.0	0	
32.5	1095		122.5	0	
35.0	866	570	125.0	0	
37.5	725		127.5	0	0
40.0	644		130.0	0	
42.5	601		132.5	0	
45.0	543	429	135.0	0	
47.5	511		137.5	0	0
50.0	501		140.0	0	
52.5	485		142.5	0	
55.0	448	398	145.0	0	
57.5	407		147.5	0	0
60.0	370		150.0	0	
62.5	334		152.5	0	
65.0	307	317	155.0	0	
67.5	302		157.5	0	0
70.0	310		160.0	0	
72.5	317		162.5	0	
75.0	317	332	165.0	0	
77.5	314		167.5	0	0
80.0	300		170.0	0	
82.5	266		172.5	0	
85.0	203	233	175.0	0	
87.5	167		177.5	0	0
90.0	134		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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	113	109	107	104	110	107	105	102	103	101	99	99	97	96	95	94	93	91
2	107	102	98	94	105	100	97	93	97	94	91	94	91	89	91	89	87	85
3	102	96	91	87	100	95	90	87	92	88	85	89	86	84	87	84	82	81
4	98	91	86	82	96	90	85	81	88	84	80	86	82	79	84	81	78	77
5	94	87	81	77	93	86	81	77	84	80	76	82	78	76	81	77	75	73
6	91	83	78	74	90	82	77	74	81	76	73	79	75	72	78	74	72	70
7	88	80	74	71	87	79	74	70	78	73	70	76	73	70	75	72	69	68
8	85	77	71	68	84	76	71	68	75	71	67	74	70	67	73	69	67	66
9	82	74	69	66	81	73	69	65	73	68	65	72	68	65	71	67	65	63
10	80	72	67	63	79	71	66	63	70	66	63	70	66	63	69	65	63	62

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	1158.5	2.42	2.42
8.0	651.7	3.22	3.22
10.0	417.1	4.03	4.03
12.0	289.6	4.84	4.84
14.0	212.8	5.64	5.64
16.0	162.9	6.45	6.45



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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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