

# Photometrics Pro

## Luminaire Photometric Report

**Filename:** IliA000793-001(GTSOL5498-G2-HO-BR-NL)

**Manufacturer:** Global Tech LED, 8901 Quality Road, Bonita Springs, FL 34135, USA

**Luminaire:** Catalog Number: GTSOL5498-G2-HO-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, 0.7396A, 88.03W, 0.992PF, 9.1% THD(i)

**Luminaire Cat:** GTSOL5498-G2-HO-BR-NL

**Lamp Output:** Total luminaire Lumens: 10823.2

**Max Candela:** 3,419.0 at Horizontal: 0°, Vertical: 0°

**Input Wattage:** 88

**Luminous Opening:** Circular (Dia: 5.98")

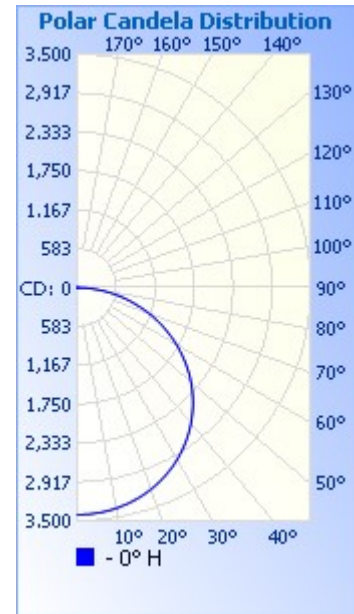
**Test:** LLIA000793-001A

**Test Date:** This file created: Thursday, June 8, 2017 2:29:15 PM

**Test Lab:** LightLab International Allentown, LLC

**Photometry :** Type C

**Nema Type:** 7 X 7



### Roadway Summary

Cutoff Classification:	CUTOFF	
Distribution:	TYPE V	
Max Cd, 90 Deg Vert:	47.7	
Max Cd, 80 to <90 Deg:	572.8	
	Lumens	% Lamp
Downward Street Side:	5,409.4	50%
Downward House Side:	5,409.4	50%
Downward Total:	10,818.7	100%
Upward Street Side:	2.3	0%
Upward House Side:	2.3	0%
Upward Total:	4.6	0%
Total Lumens:	10,823.3	100%

### Flood Summary

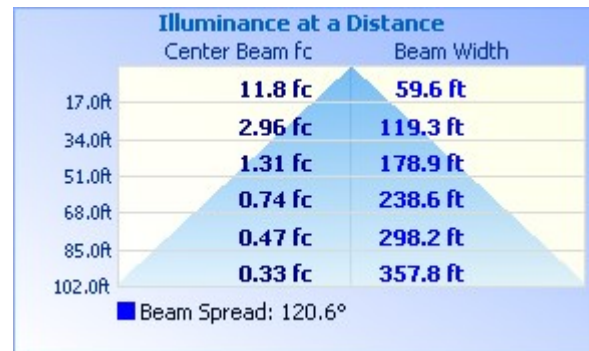
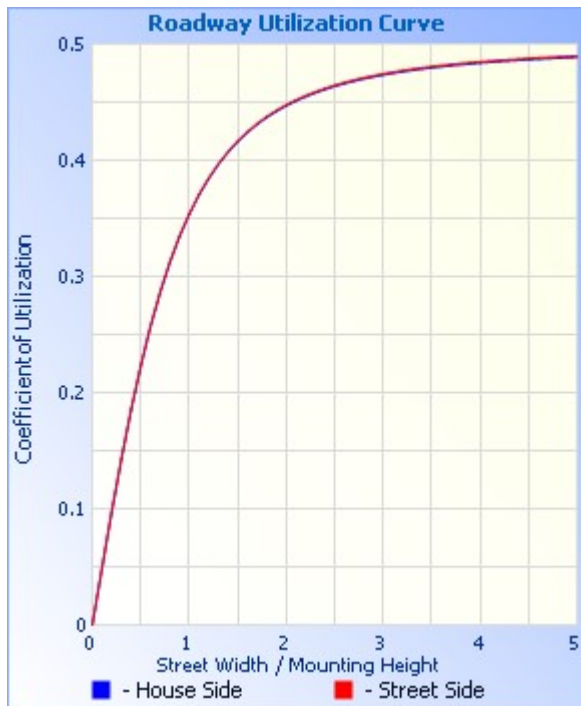
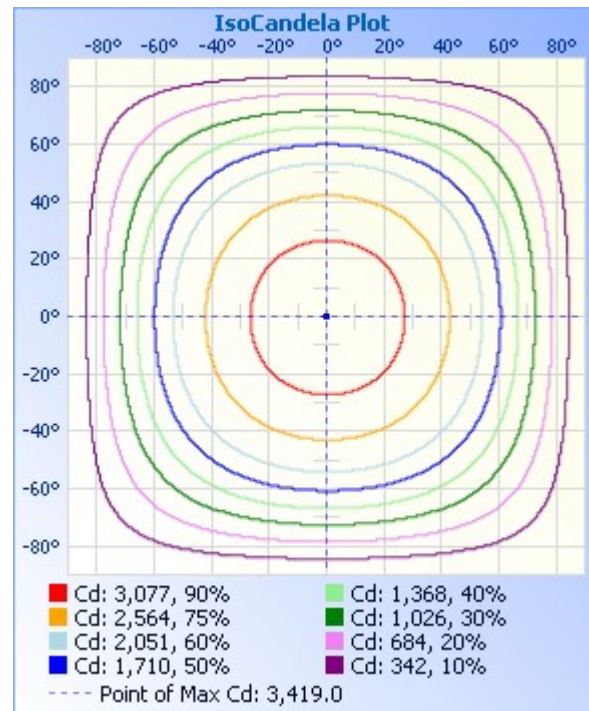
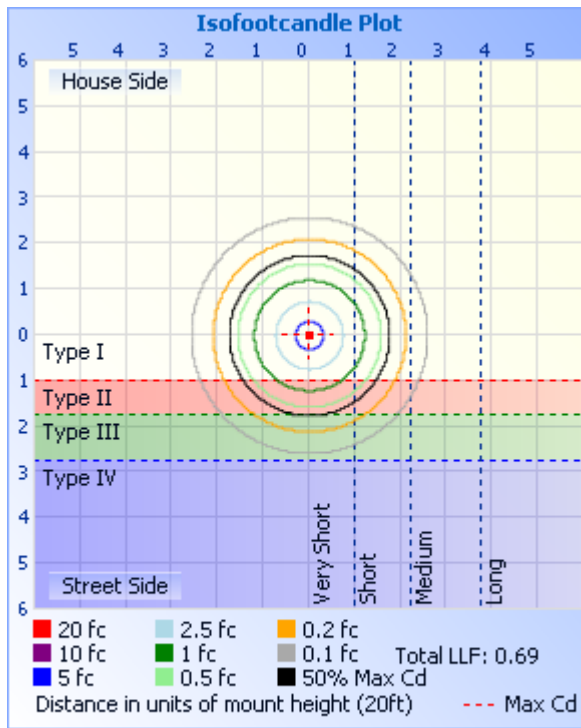
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.8%	10,691.9	167.9	167.9
Beam (50%):	75.9%	8,217.9	120.6	120.6
Total:	100%	10,818.8		

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	2,701.8	25%
0-40	4,479.5	41.4%
0-60	8,156.2	75.4%
60-90	2,662.2	24.6%
70-100	1,233.9	11.4%
90-120	4.9	0%
0-90	10,818.3	100%
90-180	4.9	0%
0-180	10,823.2	100%

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	324.2	3.0%	90-100	4.9	0%
10-20	936.3	8.7%	100-110	0	0%
20-30	1,441.4	13.3%	110-120	0	0%
30-40	1,777.7	16.4%	120-130	0	0%
40-50	1,897.8	17.5%	130-140	0	0%
50-60	1,778.8	16.4%	140-150	0	0%
60-70	1,433.1	13.2%	150-160	0	0%
70-80	911.0	8.4%	160-170	0	0%
80-90	318.1	2.9%	170-180	0	0%



**Coefficients Of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10			0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.08	1.03	.98	.94	1.05	1.00	.96	.83	.96	.93	.89	.92	.89	.87	.89	.86	.84	.82
2	.98	.89	.82	.76	.95	.87	.80	.69	.83	.78	.73	.80	.75	.71	.77	.73	.70	.67
3	.89	.78	.69	.62	.86	.76	.68	.58	.73	.66	.60	.70	.64	.59	.67	.63	.58	.56

4	.81	.68	.59	.52	.79	.67	.58	.49	.64	.57	.51	.62	.56	.50	.60	.54	.50	.47
5	.74	.61	.52	.45	.72	.60	.51	.43	.58	.50	.44	.56	.49	.43	.54	.48	.43	.41
6	.68	.55	.45	.39	.66	.54	.45	.37	.52	.44	.38	.50	.43	.38	.49	.42	.38	.35
7	.63	.49	.40	.34	.62	.49	.40	.33	.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	.24	.37	.29	.24	.36	.29	.24	.35	.29	.24	.22

**Candela Table - Type C**

0	
0	3419
0.5	3419
1	3418
1.5	3418
2	3417
2.5	3416
3	3415
3.5	3413
4	3412
4.5	3410
5	3407
5.5	3405
6	3402
6.5	3400
7	3396
7.5	3393
8	3389
8.5	3386
9	3382
9.5	3377
10	3373
10.5	3368
11	3363
11.5	3358
12	3353
12.5	3347
13	3341
13.5	3335
14	3328
14.5	3322
15	3315
15.5	3308
16	3300
16.5	3293
17	3285
17.5	3277
18	3269
18.5	3260
19	3251
19.5	3242
20	3233
20.5	3223
21	3213
21.5	3203
22	3193
22.5	3182
23	3172

23.5	3161
24	3149
24.5	3138
25	3126
25.5	3114
26	3102
26.5	3089
27	3076
27.5	3064
28	3050
28.5	3037
29	3023
29.5	3009
30	2995
30.5	2981
31	2966
31.5	2951
32	2936
32.5	2921
33	2905
33.5	2889
34	2873
34.5	2857
35	2840
35.5	2823
36	2806
36.5	2789
37	2772
37.5	2754
38	2736
38.5	2718
39	2699
39.5	2681
40	2662
40.5	2643
41	2623
41.5	2604
42	2584
42.5	2564
43	2543
43.5	2523
44	2502
44.5	2481
45	2460
45.5	2439
46	2417
46.5	2395
47	2373
47.5	2351

48	2328
48.5	2306
49	2282
49.5	2259
50	2236
50.5	2212
51	2188
51.5	2164
52	2140
52.5	2116
53	2091
53.5	2066
54	2041
54.5	2016
55	1991
55.5	1965
56	1940
56.5	1913
57	1887
57.5	1861
58	1834
58.5	1808
59	1781
59.5	1754
60	1727
60.5	1700
61	1672
61.5	1645
62	1617
62.5	1590
63	1562
63.5	1534
64	1506
64.5	1478
65	1450
65.5	1422
66	1394
66.5	1365
67	1336
67.5	1308
68	1279
68.5	1249
69	1220
69.5	1190
70	1160
70.5	1130
71	1100
71.5	1070
72	1040

72.5	1011
73	981
73.5	951
74	922
74.5	891
75	861
75.5	832
76	802
76.5	774
77	745
77.5	717
78	689
78.5	661
79	632
79.5	603
80	573
80.5	543
81	513
81.5	485
82	456
82.5	428
83	399
83.5	368
84	339
84.5	311
85	283
85.5	253
86	226
86.5	199
87	175
87.5	153
88	134
88.5	114
89	93
89.5	68
90	48
90.5	29
91	15
91.5	8
92	4
92.5	2
93	2
93.5	1
94	1
94.5	1
95	1
95.5	0
96	0
96.5	0

97	0
97.5	0
98	0
98.5	0
99	0
99.5	0
100	0
100.5	0
101	0
101.5	0
102	0
102.5	0
103	0
103.5	0
104	0
104.5	0
105	0
105.5	0
106	0
106.5	0
107	0
107.5	0
108	0
108.5	0
109	0
109.5	0
110	0
110.5	0
111	0
111.5	0
112	0
112.5	0
113	0
113.5	0
114	0
114.5	0
115	0
115.5	0
116	0
116.5	0
117	0
117.5	0
118	0
118.5	0
119	0
119.5	0
120	0
120.5	0
121	0



121.5	0
122	0
122.5	0
123	0
123.5	0
124	0
124.5	0
125	0
125.5	0
126	0
126.5	0
127	0
127.5	0
128	0
128.5	0
129	0
129.5	0
130	0
130.5	0
131	0
131.5	0
132	0
132.5	0
133	0
133.5	0
134	0
134.5	0
135	0
135.5	0
136	0
136.5	0
137	0
137.5	0
138	0
138.5	0
139	0
139.5	0
140	0
140.5	0
141	0
141.5	0
142	0
142.5	0
143	0
143.5	0
144	0
144.5	0
145	0
145.5	0

146	0
146.5	0
147	0
147.5	0
148	0
148.5	0
149	0
149.5	0
150	0
150.5	0
151	0
151.5	0
152	0
152.5	0
153	0
153.5	0
154	0
154.5	0
155	0
155.5	0
156	0
156.5	0
157	0
157.5	0
158	0
158.5	0
159	0
159.5	0
160	0
160.5	0
161	0
161.5	0
162	0
162.5	0
163	0
163.5	0
164	0
164.5	0
165	0
165.5	0
166	0
166.5	0
167	0
167.5	0
168	0
168.5	0
169	0
169.5	0
170	0

170.5	0
171	0
171.5	0
172	0
172.5	0
173	0
173.5	0
174	0
174.5	0
175	0
175.5	0
176	0
176.5	0
177	0
177.5	0
178	0
178.5	0
179	0
179.5	0
180	0

**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST] LLIA000793-001A  
[TESTLAB] LightLab International Allentown, LLC  
[MANUFAC] Global Tech LED, 8901 Quality Road, Bonita Springs, FL 34135, USA  
[LUMCAT] GTSOL5498-G2-HO-BR-NL  
[LUMINAIRE] Catalog Number: GTSOL5498-G2-HO-BR-NL  
[MORE] White aluminum mounting plate, aluminum heatsink and cooling fan, no enclosure.  
[MORE] One GTSOL5498 LED module with 42 white LEDs, 6 groups of 7 LEDs  
[MORE] One Mean Well HLG-100H-24B LED driver  
[MORE] 120.0Vac, 60.00Hz, 0.7396A, 88.03W, 0.992PF, 9.1%THD(i)  
[OTHER] Absolute test - lamp lumens value set to -1  
[MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.  
[MORE] The sample was tested at a distance of 9.5m.  
[MORE] This IES file created by LightLab/LSA Report program version 3.808a.  
[DATE] This file created: Thursday, June 8, 2017 2:29:15 PM  
[ISSUEDATE] Thursday, June 8, 2017 2:29:15 PM

FILE: CREATED USING ABSOLUTE PHOTOMETRY  
FILE: CANDELA MULTIPLIER: 1  
FILE: VERTICAL ANGLES: 361, HORIZONTAL ANGLES: 1  
FILE: COORDINATE SYSTEM: TYPE C  
FILE: UNIT OF MEASURE: METRIC  
FILE: BALLAST FACTOR: 1

Photometrics Pro 1.3.29 copyright 2003-2017 by jSolutions, Inc.  
Reported data calculated from manufacturer's data file, based on IES recommended methods.