

# itl boulder

THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.  
3386 LONGHORN ROAD, BOULDER, CO 80302 USA

PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL59900

DATE: 02/19/08

PREPARED FOR: GALLIUM LIGHTING LLC

CATALOG NUMBER: GS6H-UNV-350-16CXRE-50-1710, GS6T-16SS1

LUMINAIRE: FABRICATED METAL HOUSING, ONE TAN CIRCUIT BOARD WITH 16 LED'S, FABRICATED SEMI-SPECULAR METAL 16-CELL LOUVER, OPEN BOTTOM.

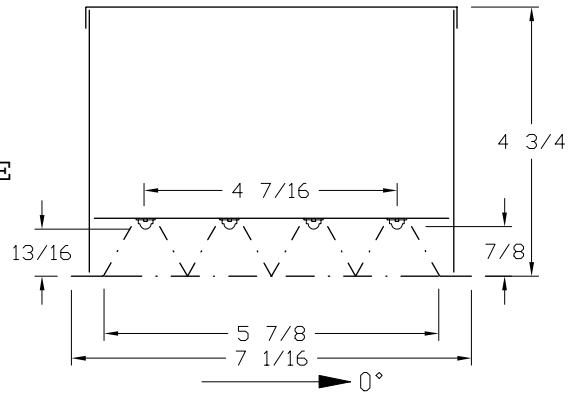
LAMP: SIXTEEN WHITE LIGHT EMITTING DIODES (LED'S) EACH WITH A CLEAR SEMI-HEMISPHERICAL PLASTIC INTEGRAL LENS, CREE XRE (P/N XREWHT-L1-0000-00D01), VERTICAL BASE-UP POSITION.

TOTAL INPUT WATTS= 20.8 AT 120.0 VOLTS

MOUNTING: RECESSED

LED DRIVER: HIGH PERFECTION TECH  
LP1025-36-C0700 (350 MILLIAMPS CONSTANT CURRENT DRIVER)

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC) TO THE LED DRIVER. LAMP INFORMATION PROVIDED BY CLIENT.



### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	FLUX
0	1279	1279	1279	1279	1279	121
5	1270	1270	1274	1271	1269	338
15	1180	1194	1217	1204	1188	449
25	926	987	1049	972	905	372
35	579	648	670	648	580	65
45	16	25	391	25	15	4
55	4	4	4	4	4	1
65	1	1	1	1	1	0
75	0	0	0	0	0	0
85	0	0	0	0	0	0
90	0	0	0	0	0	0

### ZONAL LUMEN SUMMARY

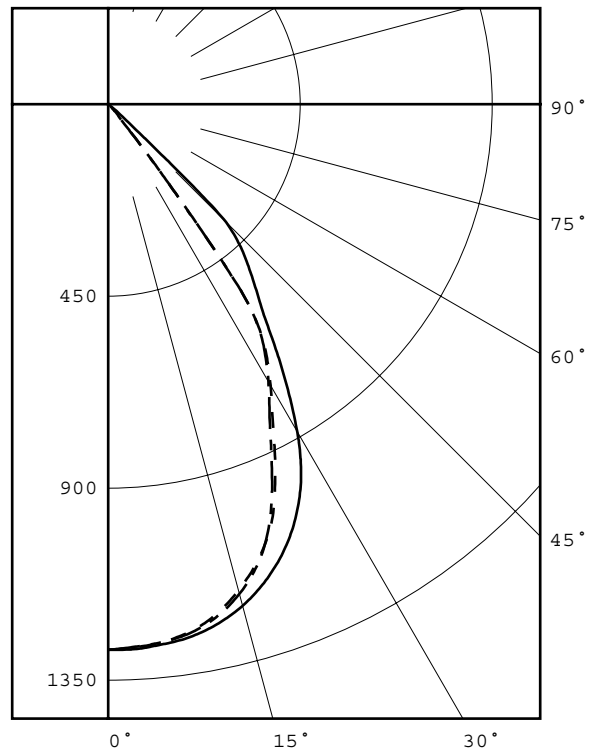
ZONE	LUMENS	%FIXT
0- 30	907	67.2
0- 40	1279	94.8
0- 60	1349	99.9
0- 90	1350	100.0
90-180	0	0.0
0-180	1350	100.0

### CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG  
SPACING CRITERIA : 1.0 1.0  
LUMINOUS LENGTH : 5.875 5.875

### LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	1016.	24832.	953.
55	313.	313.	313.
65	106.	106.	106.
75	0.	0.	0.
85	0.	0.	0.



LEGEND:  
0-deg: - - - - -  
45-deg: = = = = =  
90-deg: - . - . - .

Checked B.HYRE  
Approved R.BEATTIE



INDEPENDENT TESTING LABORATORIES, INC.  
 3386 LONGHORN ROAD, BOULDER, CO 80302 USA

PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL59900  
 PREPARED FOR: GALLIUM LIGHTING LLC

DATE: 02/19/08

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	1279	1279	1279	1279	1279
2.5	1275	1275	1279	1276	1274
5.0	1270	1270	1274	1271	1269
7.5	1259	1261	1268	1263	1261
10.0	1242	1247	1257	1251	1246
12.5	1215	1224	1240	1231	1222
15.0	1180	1194	1217	1204	1188
17.5	1138	1159	1187	1169	1144
20.0	1086	1116	1150	1121	1084
22.5	1016	1061	1105	1057	1002
25.0	926	987	1049	972	905
27.5	835	897	979	881	819
30.0	761	811	886	800	751
32.5	688	740	777	736	681
35.0	579	648	670	648	580
37.5	216	532	583	539	212
40.0	41	154	522	149	39
42.5	30	41	465	42	30
45.0	16	25	391	25	15
47.5	12	14	78	13	12
50.0	8	11	31	10	8
52.5	5	7	5	6	6
55.0	4	4	4	4	4
57.5	3	3	3	3	3
60.0	3	2	2	2	3
62.5	2	2	2	2	2
65.0	1	1	1	1	1
67.5	1	1	1	1	1
70.0	1	1	1	1	1
72.5	0	0	0	0	1
75.0	0	0	0	0	0
77.5	0	0	0	0	0
80.0	0	0	0	0	0
82.5	0	0	0	0	0
85.0	0	0	0	0	0
87.5	0	0	0	0	0
90.0	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	31.
5- 10	90.
10- 15	146.
15- 20	192.
20- 25	222.
25- 30	227.
30- 35	216.
35- 40	156.
40- 45	54.
45- 50	12.
50- 55	3.
55- 60	1.
60- 65	1.
65- 70	1.
70- 75	0.
75- 80	0.
80- 85	0.
85- 90	0.



INDEPENDENT TESTING LABORATORIES, INC.  
 3386 LONGHORN ROAD, BOULDER, CO 80302 USA

PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL59900

DATE: 02/19/08

PREPARED FOR: GALLIUM LIGHTING LLC

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	113	111	110	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87	
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80	
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75	
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69	
6	87	78	72	68	86	77	71	67	76	71	67	74	70	66	73	69	66	64	
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	62	60	
8	78	69	63	58	77	68	62	58	67	62	58	66	61	58	65	61	57	56	
9	74	65	59	54	73	64	58	54	63	58	54	62	57	54	61	57	54	52	
10	71	61	55	51	70	60	55	51	60	54	51	59	54	51	58	54	50	49	

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.