



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: ITL57889

DATE: 09/20/06

PREPARED FOR: GALLIUM LIGHTING

CATALOG NUMBER: GS6H-120-16ND/GS6T-16-SS1

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

LAMP: SIXTEEN WHITE LIGHT EMITTING DIODE'S (LED'S), VERTICAL BASE-UP POSITION.

LED DRIVER: TWO ADVANCE LED120A0350C33F

MOUNTING: RECESSED

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC) TO THE LED POWER SUPPLIES.

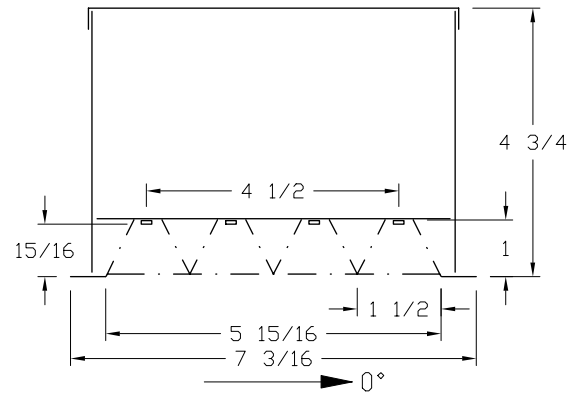
TOTAL INPUT WATTS= 25.5 AT 120.0 VOLTS

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	689	689	689	689	689
5	676	679	677	678	677
15	610	607	599	610	617
25	448	452	495	480	482
35	237	294	256	289	226
45	4	6	146	7	5
55	1	2	2	2	2
65	1	1	1	1	1
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

FLUX

64
171
215
159
30
2
1
0
0



ZONAL LUMEN SUMMARY

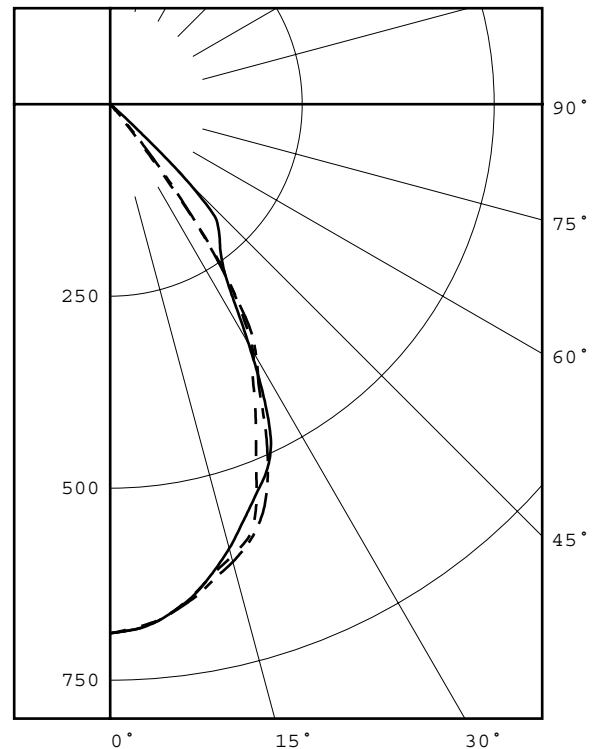
ZONE	LUMENS	%FIXT
0- 30	450	70.2
0- 40	610	95.0
0- 60	641	99.8
0- 90	642	100.0
90-180	0	0.0
0-180	642	100.0

CIE TYPE - DIRECT

PLANE	: 0-DEG	90-DEG
SPACING CRITERIA	: 0.9	1.0
PLANE	: 0-DEG	90-DEG
LUMINOUS LENGTH	: 5.937	5.937

LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	249.	9075.	311.
55	77.	153.	153.
65	104.	104.	104.
75	0.	0.	0.
85	0.	0.	0.

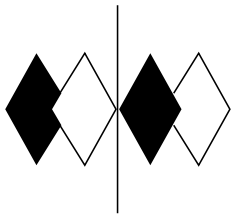


LEGEND:

0-deg:	-----
45-deg:	=====
90-deg:	-----

Checked B.HYRE

Approved R.BEATTIE



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	0.0	22.5	45.0	67.5	90.0
0.0	689	689	689	689	689
2.5	683	688	685	687	685
5.0	676	679	677	678	677
7.5	663	666	663	665	664
10.0	645	649	646	648	650
12.5	625	627	623	630	632
15.0	610	607	599	610	617
17.5	594	588	572	590	599
20.0	556	566	547	564	574
22.5	496	511	525	528	535
25.0	448	452	495	480	482
27.5	402	406	436	425	421
30.0	372	374	361	379	381
32.5	314	346	295	338	326
35.0	237	294	256	289	226
37.5	88	224	235	198	125
40.0	12	78	221	114	39
42.5	6	11	205	42	8
45.0	4	6	146	7	5
47.5	4	4	38	5	4
50.0	3	4	4	3	3
52.5	2	3	2	3	2
55.0	1	2	2	2	2
57.5	1	1	1	1	1
60.0	1	1	1	1	1
62.5	1	1	1	1	1
65.0	1	1	1	1	1
67.5	1	1	1	1	1
70.0	0	0	0	0	0
72.5	0	0	0	0	0
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

Zone	Lumen
0- 5	16.
5- 10	48.
10- 15	74.
15- 20	97.
20- 25	109.
25- 30	106.
30- 35	96.
35- 40	64.
40- 45	25.
45- 50	5.
50- 55	1.
55- 60	0.
60- 65	0.
65- 70	1.
70- 75	0.
75- 80	0.
80- 85	0.
85- 90	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	
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	102	102	102	100	
1	114	111	111	108	106	111	110	91	106	104	105	103	101	101	100	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	89	87	87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	83	81	81
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	77	75	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	72	70	70
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	67	66	66
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	63	61	61
8	79	70	64	60	78	69	63	59	68	63	59	67	62	59	66	62	59	59	57	57
9	75	66	60	56	74	65	60	56	64	59	55	63	59	55	63	58	55	55	54	54
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	52	51	51

ALL CANDELA, LUMENS, LUMINANCE, COEFFICIENT OF UTILIZATION AND VCP VALUES IN THIS REPORT ARE BASED ON RELATIVE PHOTOMETRY WHICH ASSUMES A BALLAST FACTOR OF 1.000. ANY CALCULATIONS PREPARED FROM THESE DATA SHOULD INCLUDE AN APPROPRIATE BALLAST FACTOR.