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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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

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REPORT NUMBER: ITL59190
 PREPARED FOR: GALLIUM LIGHTING LLC
 CATALOG NUMBER: GS6H-120-350-16LR-50-1600, GS6T-16SS1
 LUMINAIRE: FABRICATED METAL HOUSING, ONE TAN CIRCUIT BOARD WITH 16 LED'S, FABRICATED SEMI-SPECULAR METAL 16-CELL LOUVER, OPEN BOTTOM.

DATE: 08/24/07

REVISED: 09/04/07

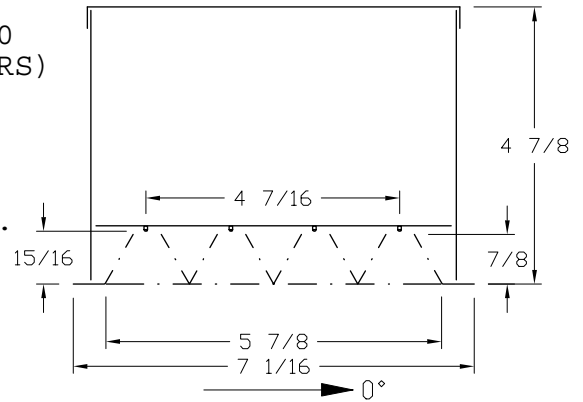
LAMP: SIXTEEN WHITE LIGHT EMITTING DIODES (LED'S) EACH WITH A CLEAR SEMI-HEMISPHERICAL PLASTIC INTEGRAL LENS, LUMILEDS LUXEON REBEL (P/N LXML-PWC1-0100), VERTICAL BASE-UP POSITION.

TOTAL INPUT WATTS= 20.9 AT 120.0 VOLTS

MOUNTING: RECESSED

LED DRIVER: TWO ADVANCE LED120A0350C33F (350 MILLIAMPER CONSTANT CURRENT DRIVERS)

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



CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	FLUX
0	1053	1053	1053	1053	1053	98
5	1039	1039	1042	1039	1039	266
15	952	951	944	936	943	347
25	757	757	765	759	751	278
35	413	487	452	483	410	48
45	11	12	300	12	11	3
55	3	3	2	3	3	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

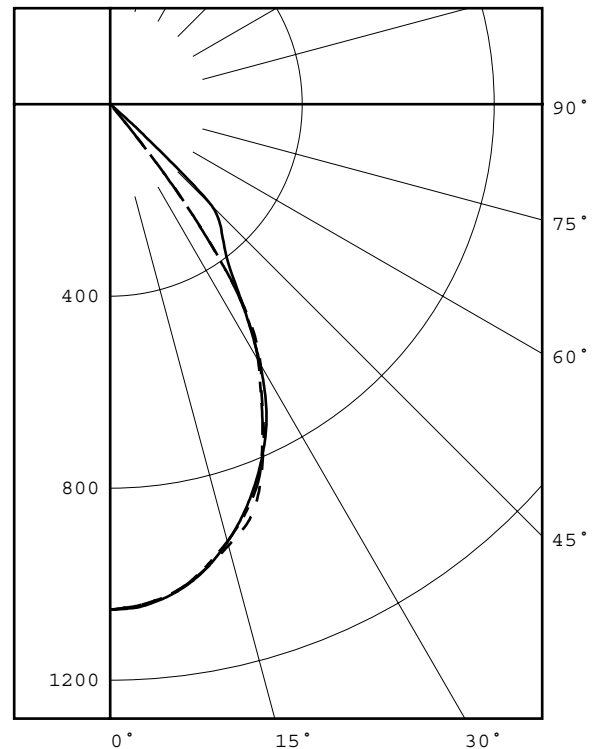
ZONE	LUMENS	%FIXT
0- 30	711	68.4
0- 40	989	95.1
0- 60	1039	99.9
0- 90	1040	100.0
90-180	0	0.0
0-180	1040	100.0

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	698.	19046.	698.
55	235.	157.	235.
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



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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	1053	1053	1053	1053	1053
2.5	1048	1048	1051	1048	1048
5.0	1039	1039	1042	1039	1039
7.5	1025	1024	1027	1026	1026
10.0	1004	1004	1006	1003	1003
12.5	979	979	978	974	974
15.0	952	951	944	936	943
17.5	926	921	906	904	909
20.0	887	884	863	863	870
22.5	826	829	816	817	820
25.0	757	757	765	759	751
27.5	683	685	703	688	680
30.0	627	616	624	621	617
32.5	550	566	534	564	537
35.0	413	487	452	483	410
37.5	229	384	397	375	220
40.0	18	169	365	178	20
42.5	14	15	339	17	14
45.0	11	12	300	12	11
47.5	8	9	94	9	8
50.0	5	7	5	7	6
52.5	4	4	3	4	4
55.0	3	3	2	3	3
57.5	2	2	2	2	2
60.0	1	1	1	2	2
62.5	1	1	1	1	1
65.0	1	1	1	1	1
67.5	1	0	1	0	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

0- 5	25.
5- 10	73.
10- 15	116.
15- 20	150.
20- 25	172.
25- 30	174.
30- 35	163.
35- 40	115.
40- 45	36.
45- 50	12.
50- 55	2.
55- 60	1.
60- 65	0.
65- 70	0.
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	106	106	106	102	102	102	100
1	114	111	108	106	111	109	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	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	88	83	79	86	82	78	84	81	77	82	79	77	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	69	66	65
7	83	74	67	63	82	73	67	63	72	66	63	70	66	62	69	65	62	61
8	79	69	63	59	78	69	63	59	67	62	59	66	62	58	65	61	58	57
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50

ALL CANDELA, LUMENS, LUMINANCE, COEFFICIENT OF UTILIZATION AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY.