

REPORT NUMBER: ITL73356

PAGE: 1 OF 5

ISSUE DATE: 07/03/12

PREPARED FOR: BOYD LIGHTING

CATALOG NUMBER: REGENT LANTERN (MR-16)

LUMINAIRE: FABRICATED METAL HOUSING WITH BLACK PAINTED EXTERIOR AND ORANGE PAINTED INTERIOR, FABRICATED BLACK PAINTED CENTER COLUMN WITH CLEAR MULTI-FACETED CRYSTAL TOP PIECE WITH COPPER COLORED BASE BELOW LAMP.

LAMP: ONE 50-WATT MR-16 HALOGEN INCANDESCENT, USHIO EXZ/S/FG, VERTICAL BASE-UP POSITION.

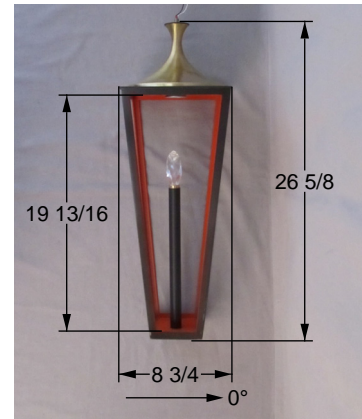
BALLAST: LIGHTTECH LET 75 TRANSFORMER

TOTAL INPUT WATTS = 49.2 AT 120.0 VOLTS

MOUNTING: PENDANT

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE LIGHTTECH LET 75 TRANSFORMER.

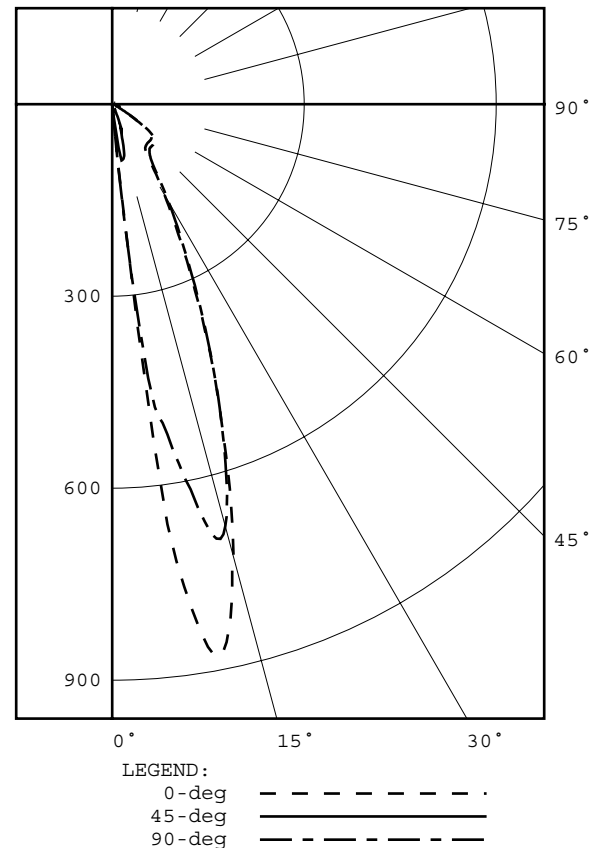
TEST DISTANCE = 25.25 FEET



CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	0	0	0	0	0	
5	28	1	0	7	42	26
15	732	755	67	721	683	149
25	286	294	12	300	295	105
35	94	100	6	102	106	54
45	82	92	4	109	90	55
55	59	60	2	65	63	40
65	21	13	1	14	11	11
75	6	9	1	7	5	6
85	2	3	0	14	7	6
90	1	3	0	23	6	
95	1	4	0	10	4	5
105	2	3	0	23	5	6
115	2	3	0	5	4	3
125	2	4	0	5	2	2
135	4	5	1	4	3	2
145	3	3	1	4	3	2
155	1	1	2	2	2	1
165	1	1	2	2	2	0
175	0	0	0	1	0	0
180	0	0	0	0	0	

ZONAL LUMEN SUMMARY	
ZONE	LUMENS
0- 30	279
0- 40	333
0- 60	428
0- 90	451
90-120	15
90-130	17
90-150	21
90-180	22
0-180	473
%FIXT	
0- 30	59.1
0- 40	70.4
0- 60	90.4
0- 90	95.3
90-120	3.1
90-130	3.6
90-150	4.4
90-180	4.7
0-180	100.0

EFFICACY = 9.6 lm/W
CIE TYPE - DIRECT



Checked B. HYRE
Approved R. BEATTIE
Lighting Engineer



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

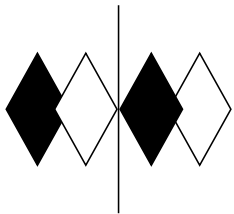
PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL73356
ISSUE DATE: 07/03/12
PREPARED FOR: BOYD LIGHTING

PAGE: 2 OF 5

CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	0	0	0	0	0
1.0	0	0	0	0	0
2.0	0	0	0	0	0
3.0	0	0	0	0	0
4.0	0	0	0	0	0
5.0	28	1	0	7	42
5.5	79	34	0	48	96
6.0	159	77	0	94	180
6.5	349	147	4	191	273
7.0	532	319	21	291	352
7.5	662	475	37	343	432
8.0	721	620	53	435	478
8.5	762	738	69	518	494
9.0	800	809	82	585	504
9.5	834	850	89	639	523
10.0	861	878	89	684	550
10.5	876	887	88	719	570
11.0	877	891	88	748	596
11.5	872	887	87	769	614
12.0	859	878	86	779	645
12.5	841	866	84	780	668
13.0	823	854	83	775	689
13.5	800	835	80	766	698
14.0	775	817	75	753	700
14.5	749	791	71	739	694
15.0	732	755	67	721	683
15.5	706	723	62	701	669
16.0	680	706	59	680	650
16.5	655	683	55	656	633
17.0	628	670	52	632	610
17.5	601	638	49	607	589
18.0	574	609	46	583	567
18.5	549	585	43	559	545
19.0	525	558	44	536	523
19.5	503	524	43	513	503
20.0	480	497	40	490	482
20.5	459	473	40	470	461
21.0	437	449	36	449	439
21.5	417	427	33	428	419
22.0	394	406	29	408	399
22.5	375	386	26	389	381
23.0	357	366	21	369	363
23.5	338	347	17	352	345
24.0	318	327	15	334	327
24.5	302	309	14	317	311
25.0	286	294	12	300	295
26.0	256	265	11	269	266
27.0	228	234	9	241	240
28.0	204	207	8	216	217
29.0	183	184	7	194	196
30.0	163	164	7	173	176
32.5	122	126	6	131	133
35.0	94	100	6	102	106
37.5	85	94	5	95	96
40.0	83	95	5	95	91
42.5	82	95	4	101	90
45.0	82	92	4	109	90
47.5	82	86	3	108	90
50.0	80	83	2	98	87
52.5	77	78	2	83	80
55.0	59	60	2	65	63
57.5	37	38	2	42	41
60.0	21	21	1	23	22
62.5	18	15	1	19	13
65.0	21	13	1	14	11



itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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

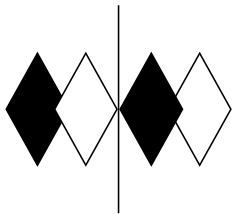
PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL73356
ISSUE DATE: 07/03/12
PREPARED FOR: BOYD LIGHTING

PAGE: 3 OF 5

CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
67.5	17	12	1	14	9
70.0	9	13	1	9	7
72.5	7	10	1	8	6
75.0	6	9	1	7	5
77.5	4	9	1	6	5
80.0	3	5	1	6	3
82.5	3	4	1	8	4
85.0	2	3	0	14	7
87.5	2	3	0	20	9
90.0	1	3	0	23	6
92.5	1	4	0	15	6
95.0	1	4	0	10	4
97.5	1	4	0	9	6
100.0	1	4	0	13	6
102.5	1	3	0	21	7
105.0	2	3	0	23	5
107.5	2	3	0	11	6
110.0	2	3	0	6	9
115.0	2	3	0	5	4
120.0	2	3	0	4	3
125.0	2	4	0	5	2
130.0	3	4	0	4	2
135.0	4	5	1	4	3
140.0	3	3	1	4	3
145.0	3	3	1	4	3
150.0	2	2	1	3	3
155.0	1	1	2	2	2
160.0	2	2	2	2	2
165.0	1	1	2	2	2
170.0	1	1	1	1	1
175.0	0	0	0	1	0
180.0	0	0	0	0	0



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: ITL73356
ISSUE DATE: 07/03/12
PREPARED FOR: BOYD LIGHTING

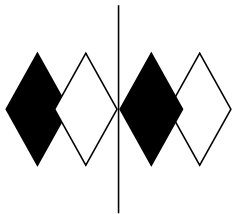
PAGE: 4 OF 5

5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	0.
5- 10	26.
10- 15	72.
15- 20	77.
20- 25	62.
25- 30	43.
30- 35	29.
35- 40	24.
40- 45	27.
45- 50	28.
50- 55	25.
55- 60	14.
60- 65	6.
65- 70	5.
70- 75	3.
75- 80	3.
80- 85	2.
85- 90	4.
90- 95	3.
95-100	2.
100-105	4.
105-110	3.
110-115	2.
115-120	1.
120-125	1.
125-130	1.
130-135	1.
135-140	1.
140-145	1.
145-150	1.
150-155	0.
155-160	0.
160-165	0.
165-170	0.
170-175	0.
175-180	0.

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	26.
0- 20	175.
0- 30	279.
0- 40	333.
0- 50	388.
0- 60	428.
0- 70	439.
0- 80	445.
0- 90	451.
0-100	456.
0-110	463.
0-120	465.
0-130	468.
0-140	470.
0-150	472.
0-160	473.
0-170	473.
0-180	473.



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: ITL73356

PAGE: 5 OF 5

ISSUE DATE: 07/03/12

PREPARED FOR: BOYD LIGHTING

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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95
1	111	107	104	102	108	105	102	99	100	98	96	95	93	92	91	90	88	86
2	104	98	93	89	101	96	91	88	92	88	85	88	85	83	85	82	80	78
3	98	90	84	79	95	88	83	78	85	80	77	82	78	75	79	76	73	71
4	92	83	76	71	89	81	75	71	79	73	69	76	72	68	73	70	67	65
5	86	77	70	65	84	75	69	64	73	68	63	71	66	62	69	65	61	60
6	81	71	64	60	80	70	64	59	68	63	58	66	61	58	64	60	57	55
7	77	66	60	55	75	66	59	55	64	58	54	62	57	53	61	56	53	51
8	73	62	56	51	71	61	55	51	60	54	50	58	53	50	57	53	49	48
9	69	58	52	47	68	58	51	47	56	51	47	55	50	46	54	49	46	44
10	66	55	49	44	64	54	48	44	53	48	44	52	47	44	51	46	43	42

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 TEST SAMPLE.