

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.

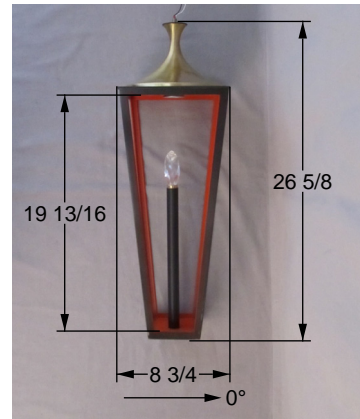
BALLAST: LIGHTTECH LET 75 TRANSFORMER

TOTAL INPUT WATTS = 49.2 AT 120.0 VOLTS

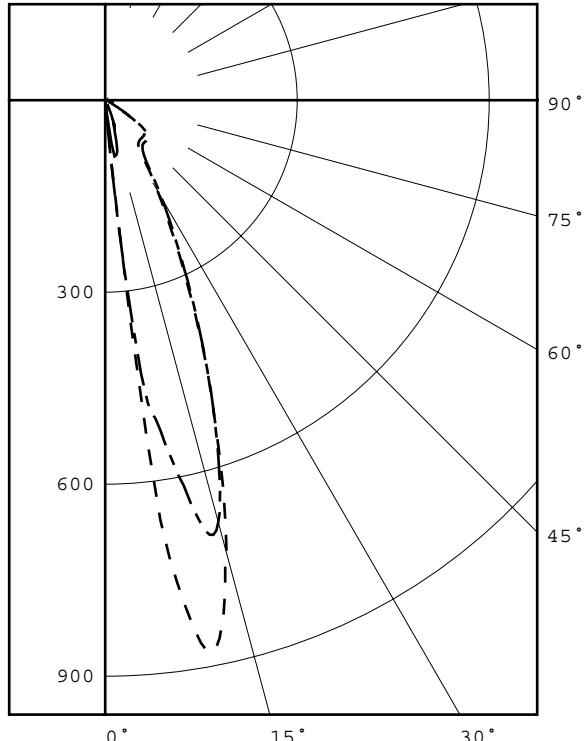
MOUNTING: PENDANT

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	

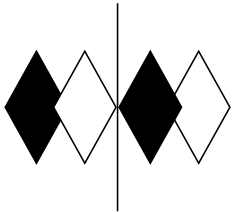


ZONAL LUMEN SUMMARY		
ZONE	LUMENS	% FIXT
0- 30	279	59.1
0- 40	333	70.4
0- 60	428	90.4
0- 90	451	95.3
90-120	15	3.1
90-130	17	3.6
90-150	21	4.4
90-180	22	4.7
0-180	473	100.0

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

EFFICACY = 9.6 lm/W  
CIE TYPE - DIRECT

Checked B. HYRE  
Approved R. BEATTIE  
Lighting Engineer



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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](mailto:itl@itlboulder.com) • WEBSITE: [www.itlboulder.com](http://www.itlboulder.com)

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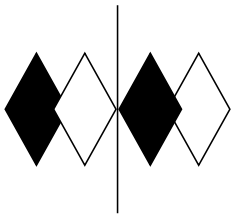
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PREPARED FOR: BOYD LIGHTING

## 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



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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



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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.



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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	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.

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ISSUE DATE: 07/15/12

PREPARED FOR: BOYD LIGHTING

CATALOG NUMBER: REGENT LANTERN (LED)

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

LAMP: ONE 13-WATT LED MODULE, TERRALUX TLM-R16B-A352741B-A000, VERTICAL BASE-UP POSITION.

TOTAL INPUT WATTS = 8.39 AT 120.0 VOLTS

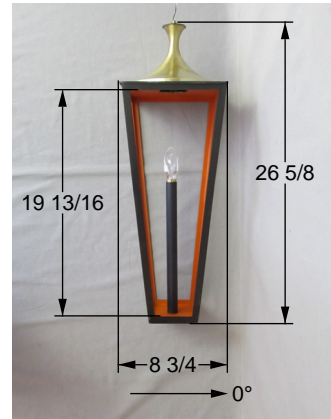
MOUNTING: PENDANT

LED DRIVER: LIGHTTECH LET 75 TRANSFORMER

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE LIGHTTECH LET 75 TRANSFORMER. LED MODULE SET TO THE HIGHEST OUTPUT SETTING POSSIBLE FOR THIS TEST.

TEST PROCEDURE: IESNA LM-79-08

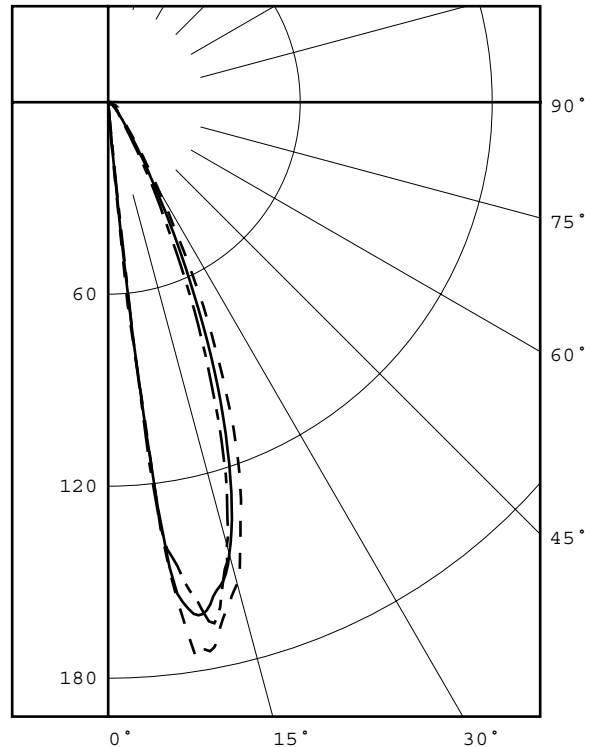
TEST DISTANCE = 25.25 FEET



CANDELA DISTRIBUTION

FLUX

	0.0	45.0	90.0	135.0	180.0	
0	0	0	0	0	0	
5	24	0	13	0	2	6.5
15	156	25	146	19	143	30.8
25	70	9	58	6	47	20.9
35	14	1	12	2	9	6.3
45	4	1	4	1	4	2.9
55	2	0	2	1	1	1.4
65	1	0	1	0	3	0.8
75	0	0	0	0	0	0.5
85	0	0	1	0	0	0.7
90	0	0	1	0	0	
95	0	0	0	0	0	0.6
105	0	0	1	0	0	0.8
115	0	0	0	0	0	0.4
125	1	0	1	0	1	0.4
135	1	0	1	0	1	0.4
145	1	0	1	0	1	0.3
155	0	1	1	1	1	0.2
165	0	0	0	1	0	0.1
175	0	0	0	0	0	0.0
180	0	0	0	0	0	



LEGEND:  
0-deg -----  
90-deg =====  
180-deg - - - - -

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXT
0- 30	58.2	78.7
0- 40	64.5	87.2
0- 60	68.8	93.0
0- 90	70.7	95.6
90-120	1.8	2.4
90-130	2.2	3.0
90-150	2.9	3.9
90-180	3.3	4.4
0-180	74.0	100.0

EFFICACY = 8.8 lm/W  
CIE TYPE - DIRECT

Checked ..... *S. BERGIN* .....  
Approved ..... *R. BEATTIE* .....  
Lighting Engineer



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PREPARED FOR: BOYD LIGHTING

CANDELA DISTRIBUTION

LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0.0	0	0	0	0	0	0	0	0	0
1.0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0
5.0	24	9	0	3	13	3	0	0	2
5.5	63	32	0	18	42	17	0	5	27
6.0	79	64	0	46	73	40	0	30	73
6.5	96	79	5	71	102	63	1	71	114
7.0	134	91	17	97	128	78	1	113	133
7.5	149	116	29	121	147	89	3	130	141
8.0	159	143	35	134	155	108	8	140	143
8.5	168	152	36	135	158	126	15	153	147
9.0	176	155	35	134	160	137	20	161	152
9.5	174	159	35	135	162	143	23	165	155
10.0	174	162	34	136	163	147	24	170	157
10.5	175	165	33	137	163	151	24	172	162
11.0	174	165	32	137	162	151	24	170	165
11.5	172	165	31	137	160	153	23	167	166
12.0	168	163	30	137	158	155	23	164	164
12.5	165	161	29	140	156	155	22	162	162
13.0	163	160	28	140	155	152	21	158	158
13.5	162	157	27	140	154	150	21	155	154
14.0	159	156	26	142	152	146	20	151	151
14.5	157	152	26	144	149	143	20	147	149
15.0	156	150	25	143	146	140	19	143	143
15.5	154	147	24	140	143	137	19	142	140
16.0	149	146	23	137	140	133	19	137	135
16.5	145	147	23	133	136	130	18	133	131
17.0	141	141	22	129	132	126	18	127	127
17.5	138	138	21	125	128	122	17	124	122
18.0	134	134	21	121	124	118	17	119	117
18.5	131	128	20	117	119	114	16	114	112
19.0	127	123	19	113	115	109	15	108	106
19.5	123	119	19	108	110	104	15	103	101
20.0	118	114	18	104	105	99	14	98	95
20.5	114	110	18	99	101	94	13	92	90
21.0	109	105	17	95	96	89	12	87	85
21.5	104	100	16	90	91	84	12	82	80
22.0	99	95	14	86	86	79	11	77	75
22.5	94	90	13	81	81	75	11	71	70
23.0	89	86	12	77	76	70	9	66	65
23.5	84	81	11	72	71	66	8	62	61
24.0	79	77	10	67	66	62	8	57	56
24.5	75	72	9	62	62	58	7	53	51
25.0	70	68	9	58	58	53	6	49	47
26.0	61	59	7	51	50	46	5	41	39
27.0	51	51	6	44	42	39	5	35	33
28.0	43	43	5	38	35	33	4	30	28
29.0	37	36	4	32	30	28	4	25	24
30.0	31	31	3	27	25	24	3	21	20
32.5	20	21	2	18	17	16	2	14	13
35.0	14	14	1	12	12	11	2	10	9
37.5	9	9	1	9	8	8	1	8	7
40.0	7	9	1	7	6	7	1	6	5
42.5	5	7	1	6	5	6	1	5	4
45.0	4	5	1	5	4	5	1	5	4
47.5	4	4	1	4	4	5	1	4	3
50.0	3	3	0	3	3	4	1	3	2
52.5	3	3	0	3	2	3	0	2	2
55.0	2	2	0	2	2	2	1	2	1
57.5	1	2	0	2	1	2	0	1	1
60.0	1	1	0	1	1	1	0	1	1
62.5	2	1	0	3	1	2	0	1	2
65.0	1	1	0	1	1	1	0	1	3



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 PREPARED FOR: BOYD LIGHTING

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CANDELA DISTRIBUTION  
 LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
67.5	1	1	0	1	1	1	0	1	1
70.0	0	1	0	1	0	1	0	1	1
72.5	0	1	0	1	0	1	0	1	0
75.0	0	1	0	1	0	1	0	1	0
77.5	0	1	0	1	0	1	0	1	0
80.0	0	1	0	1	0	1	0	1	0
82.5	1	1	0	1	1	1	0	0	1
85.0	0	0	0	1	1	2	0	0	0
87.5	0	1	0	1	1	2	0	1	0
90.0	0	1	0	2	1	3	0	0	0
92.5	0	1	0	1	0	1	0	0	0
95.0	0	1	0	1	0	1	0	1	0
97.5	0	1	0	1	1	1	0	1	0
100.0	0	1	0	1	1	1	0	1	0
102.5	0	1	0	2	1	2	0	1	0
105.0	0	1	0	4	1	2	0	1	0
107.5	0	1	0	1	1	1	0	1	0
110.0	0	1	0	1	1	1	0	1	0
115.0	0	1	0	1	0	1	0	1	0
120.0	0	1	0	1	0	1	0	1	0
125.0	1	1	0	1	1	1	0	1	1
130.0	1	1	0	1	1	1	0	1	1
135.0	1	1	0	1	1	1	0	1	1
140.0	1	1	0	1	1	1	0	1	1
145.0	1	1	0	1	1	1	0	1	1
150.0	1	1	0	1	1	1	0	0	1
155.0	0	0	1	1	1	0	1	1	1
160.0	1	0	1	0	1	0	1	1	1
165.0	0	0	0	0	0	0	1	0	0
170.0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0





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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	0.0
5- 10	6.5
10- 15	14.5
15- 20	16.3
20- 25	13.1
25- 30	7.8
30- 35	4.1
35- 40	2.3
40- 45	1.6
45- 50	1.2
50- 55	0.8
55- 60	0.5
60- 65	0.5
65- 70	0.3
70- 75	0.3
75- 80	0.2
80- 85	0.3
85- 90	0.4
90- 95	0.3
95-100	0.3
100-105	0.4
105-110	0.3
110-115	0.2
115-120	0.2
120-125	0.2
125-130	0.2
130-135	0.2
135-140	0.2
140-145	0.2
145-150	0.1
150-155	0.1
155-160	0.1
160-165	0.1
165-170	0.0
170-175	0.0
175-180	0.0

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	6.5
0- 20	37.3
0- 30	58.2
0- 40	64.5
0- 50	67.4
0- 60	68.8
0- 70	69.6
0- 80	70.1
0- 90	70.7
0-100	71.3
0-110	72.1
0-120	72.5
0-130	72.9
0-140	73.3
0-150	73.6
0-160	73.8
0-170	74.0
0-180	74.0



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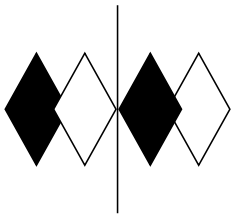
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0
	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	109	109	109	103	103	103	98	98	98	96
1	112	109	107	104	109	107	104	102	102	100	98	97	96	95	93	92	91	89
2	107	102	98	94	104	100	96	93	96	93	90	92	90	88	89	87	85	83
3	101	95	90	86	99	93	89	85	90	86	83	87	84	82	84	82	80	78
4	97	89	84	80	95	88	83	79	85	81	78	83	79	76	80	77	75	73
5	92	84	78	74	90	83	78	74	81	76	73	78	75	72	77	73	71	69
6	88	79	74	69	86	78	73	69	76	72	68	75	71	67	73	69	67	65
7	84	75	69	65	82	74	69	65	73	68	64	71	67	64	70	66	63	62
8	80	71	65	62	79	70	65	61	69	64	61	68	63	60	66	63	60	58
9	77	68	62	58	75	67	62	58	66	61	58	65	60	57	63	60	57	55
10	74	64	59	55	72	64	59	55	63	58	55	62	57	54	61	57	54	53

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.



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