

# 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: ITL65465

DATE: 08/12/10

PREPARED FOR: NUMBER EIGHT LIGHTING COMPANY

CATALOG NUMBER: 801/H-S-QT-120/WH WITH FS-P-WH TRIM

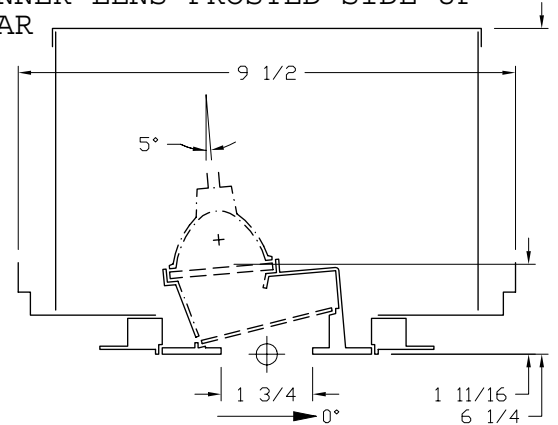
LUMINAIRE: FABRICATED METAL HOUSING WITH BLACK PAINTED GENERAL INTERIOR FINISH, CLEAR FLAT MICRO-PRISMATIC GLASS OUTER LENS IN CAST WHITE PAINTED METAL LENS FRAME WITH BLACK PAINTED INTERIOR, FROSTED LINEAR PRISMATIC GLASS INTERIOR LENS IN CAST BLACK PAINTED METAL LAMP AND LENS MOUNTING/VISOR ASSEMBLY, VISOR HAS TEXTURED DIFFUSE INTERIOR. LENS FRAME ATTACHED TO CAST WHITE PAINTED PERFORATED METAL OUTER TRIM RING WITH FOUR MAGNETS. OUTER LENS PRISMS UP. INNER LENS FROSTED SIDE UP WITH PRISMS DOWN AND PERPENDICULAR TO THE 0-DEGREE PLANE.

LAMP: ONE 50-WATT MR-16 HALOGEN INCANDESCENT, GE EXN Q50MR16/C/FL40, TILTED 5-DEGREES FROM VERTICAL BASE-UP POSITION.

MOUNTING: RECESSED

TEST DISTANCE = 25.25 FEET

REPORT IS BASED ON 800 LUMENS PER LAMP.



### CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0	FLUX
0	236	236	236	236	236	
5	298	278	232	189	174	22
15	361	303	178	90	64	54
25	310	238	101	29	14	61
35	207	135	44	7	2	46
45	109	63	15	1	0	27
55	41	26	5	0	0	12
65	16	11	2	0	0	5
75	7	4	1	0	0	2
85	1	1	0	0	0	0
90	0	0	0	0	0	

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	137	17.1	59.6
0- 40	183	22.9	79.6
0- 60	222	27.7	96.5
0- 90	230	28.7	100.0
90-180	0	0.0	0.0
0-180	230	28.7	100.0

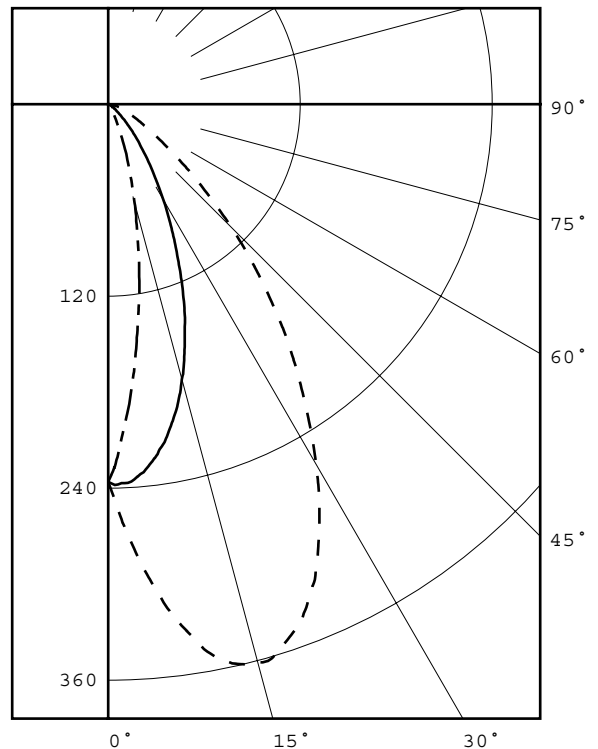
TOTAL LUMINAIRE EFFICIENCY = 28.7 %

### CIE TYPE - DIRECT

PLANE	0-DEG	90-DEG	180-DEG
SPACING CRITERIA	1.4	0.7	0.3
LUMINOUS LENGTH	1.750	1.750	

### LUMINANCE DATA IN CANDELA/SQ M

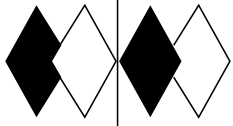
ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 90-DEG	AVERAGE 180-DEG
45	78020.	10737.	0.
55	36179.	4412.	0.
65	19162.	2395.	0.
75	13689.	1956.	0.
85	5807.	0.	0.



#### LEGEND:

0-deg: - - - - -  
90-deg: \_\_\_\_\_  
180-deg: - . - . - .

Checked N.WHITE  
Approved R.BEATTIE



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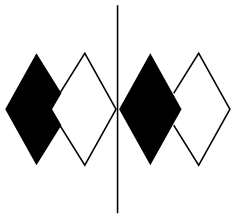
DATE: 08/12/10

PREPARED FOR: NUMBER EIGHT LIGHTING COMPANY

## CANDELA DISTRIBUTION

### LATERAL ANGLE

	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0	90.0	112.5	135.0	157.5
0.0	236	236	236	236	236	236	236	236	236	236	236	236	236	236
1.0	248	247	247	247	246	245	244	242	241	239	238	232	229	227
2.0	262	261	260	259	257	254	251	247	244	240	237	227	220	215
3.0	274	273	272	270	267	263	258	252	246	240	237	221	209	202
4.0	287	286	284	281	277	271	264	256	248	240	235	214	199	190
5.0	298	297	295	291	286	278	269	259	249	238	232	207	189	178
5.5	304	303	301	296	289	281	271	260	249	237	231	203	184	172
6.0	309	308	306	301	294	284	274	261	249	236	229	200	179	166
6.5	315	313	310	305	298	287	275	262	249	234	227	196	174	159
7.0	320	318	315	309	301	290	277	262	248	233	225	192	168	153
7.5	324	323	319	314	304	292	278	263	248	231	223	188	163	147
8.0	329	328	324	317	307	295	279	263	247	230	221	184	158	140
8.5	333	332	328	321	310	297	281	264	246	228	218	180	152	134
9.0	337	336	332	325	313	299	282	264	245	226	216	175	147	129
9.5	341	340	336	328	316	301	283	264	244	224	214	172	141	123
10.0	346	344	339	331	319	302	283	263	243	222	211	167	136	118
10.5	349	347	342	333	321	303	283	262	241	219	208	163	131	113
11.0	352	350	345	336	322	304	284	262	239	217	205	159	126	108
11.5	354	352	347	338	324	305	284	261	238	214	202	156	121	102
12.0	356	355	349	339	325	306	284	260	236	211	199	151	116	97
12.5	358	356	351	341	326	306	283	259	234	208	196	147	112	91
13.0	359	358	352	342	326	306	282	257	232	205	193	143	107	86
13.5	360	358	353	343	327	306	282	255	229	202	189	139	103	81
14.0	361	359	353	343	327	305	281	253	226	199	186	134	98	77
14.5	361	359	353	342	326	304	279	251	223	195	182	130	94	73
15.0	361	360	353	341	325	303	277	249	220	192	178	126	90	69
15.5	362	360	353	341	324	302	275	247	217	189	175	122	85	66
16.0	362	360	353	340	322	300	273	244	214	185	171	117	81	62
16.5	361	359	352	339	321	298	271	241	211	181	167	113	77	59
17.0	359	358	351	338	319	296	268	238	207	177	163	109	72	55
17.5	357	356	349	336	317	293	265	235	204	173	159	105	69	52
18.0	355	354	347	334	314	290	262	231	200	169	155	101	65	48
18.5	353	351	345	332	312	288	260	228	196	166	151	97	62	45
19.0	351	349	342	330	310	285	256	224	192	162	147	93	59	42
19.5	349	347	340	327	307	282	253	221	189	158	144	90	56	39
20.0	347	345	337	324	305	279	249	217	185	154	140	86	53	37
20.5	345	343	334	321	302	275	246	213	181	150	136	83	51	34
21.0	341	339	332	318	298	272	242	209	176	146	132	79	48	32
21.5	338	336	328	314	294	268	237	205	172	142	128	76	45	30
22.0	334	332	325	311	291	265	233	201	168	138	124	73	43	28
22.5	331	329	321	307	287	261	229	196	164	134	120	70	40	26
23.0	327	325	318	303	283	256	225	192	160	130	116	67	38	24
23.5	324	322	314	299	279	252	220	187	155	125	112	64	35	22
24.0	319	317	310	295	274	247	216	183	151	121	108	61	33	20
24.5	315	313	305	290	270	243	211	178	146	117	104	58	31	19
25.0	310	308	301	286	265	238	206	173	142	113	101	55	29	17
27.5	286	284	276	262	241	213	181	149	121	95	84	43	21	11
30.0	260	258	251	236	215	186	155	127	101	78	69	33	14	7
32.5	233	232	225	211	189	160	132	106	84	64	55	25	10	4
35.0	207	205	199	186	164	135	110	88	68	51	44	18	7	3
37.5	182	181	175	161	139	114	91	71	55	40	34	14	4	2
40.0	156	155	151	138	117	94	74	57	43	32	27	10	3	1
42.5	132	131	128	117	98	77	60	45	34	24	20	7	2	1
45.0	109	108	105	96	80	63	48	35	26	19	15	5	1	0
47.5	87	87	85	78	66	51	38	28	20	14	11	3	1	0
50.0	69	69	68	62	53	41	30	21	15	11	8	2	1	0
52.5	53	53	53	49	42	32	23	17	12	8	6	2	0	0
55.0	41	41	41	39	33	26	19	13	9	6	5	1	0	0
57.5	32	32	32	30	27	21	15	11	7	5	4	1	0	0
60.0	25	25	25	24	21	17	12	8	6	4	3	1	0	0
62.5	20	20	20	19	17	14	10	7	5	3	2	0	0	0
65.0	16	16	16	16	14	11	8	6	4	2	2	0	0	0
67.5	14	13	13	13	11	9	6	4	3	2	1	0	0	0
70.0	11	11	11	10	9	7	5	3	2	1	1	0	0	0
72.5	9	9	9	8	7	5	4	3	2	1	1	0	0	0



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REPORT NUMBER: ITL65465

DATE: 08/12/10

PREPARED FOR: NUMBER EIGHT LIGHTING COMPANY

### CANDELA DISTRIBUTION

#### LATERAL ANGLE

	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0	90.0	112.5	135.0	157.5
75.0	7	7	7	6	5	4	3	2	1	1	1	0	0	0
77.5	5	5	5	5	4	3	2	1	1	0	0	0	0	0
80.0	3	3	3	3	2	2	1	1	0	0	0	0	0	0
82.5	2	2	2	2	1	1	1	1	0	0	0	0	0	0
85.0	1	1	1	1	1	1	1	1	0	0	0	0	0	0
87.5	1	1	1	1	1	1	1	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



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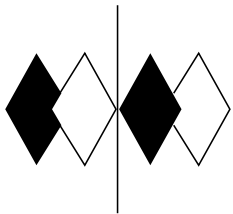
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PREPARED FOR: NUMBER EIGHT LIGHTING COMPANY  
CANDELA DISTRIBUTION  
LATERAL ANGLE

	180.0
0.0	236
1.0	227
2.0	213
3.0	200
4.0	188
5.0	174
5.5	168
6.0	161
6.5	154
7.0	147
7.5	141
8.0	135
8.5	129
9.0	124
9.5	118
10.0	112
10.5	106
11.0	101
11.5	95
12.0	90
12.5	84
13.0	80
13.5	75
14.0	72
14.5	68
15.0	64
15.5	60
16.0	56
16.5	52
17.0	49
17.5	45
18.0	42
18.5	40
19.0	37
19.5	35
20.0	33
20.5	30
21.0	28
21.5	25
22.0	23
22.5	21
23.0	20
23.5	18
24.0	17
24.5	16
25.0	14
27.5	9
30.0	5
32.5	3
35.0	2
37.5	1
40.0	1
42.5	0
45.0	0
47.5	0
50.0	0
52.5	0
55.0	0
57.5	0
60.0	0
62.5	0
65.0	0
67.5	0
70.0	0
72.5	0



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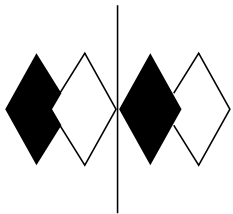
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PREPARED FOR: NUMBER EIGHT LIGHTING COMPANY  
CANDELA DISTRIBUTION  
LATERAL ANGLE

	180.0	
75.0		0
77.5		0
80.0		0
82.5		0
85.0		0
87.5		0
90.0		0



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PREPARED FOR: NUMBER EIGHT LIGHTING COMPANY

5-DEGREE

ZONAL LUMEN SUMMARY

0- 5	6.
5- 10	16.
10- 15	25.
15- 20	30.
20- 25	31.
25- 30	29.
30- 35	25.
35- 40	21.
40- 45	16.
45- 50	11.
50- 55	7.
55- 60	5.
60- 65	3.
65- 70	2.
70- 75	1.
75- 80	1.
80- 85	0.
85- 90	0.

10-DEGREE

ZONAL LUMEN SUMMARY

0- 10	22.
0- 20	76.
0- 30	137.
0- 40	183.
0- 50	210.
0- 60	222.
0- 70	227.
0- 80	229.
0- 90	230.
0-100	230.
0-110	230.
0-120	230.
0-130	230.
0-140	230.
0-150	230.
0-160	230.
0-170	230.
0-180	230.



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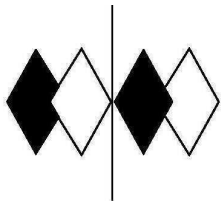
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	34	34	34	34	33	33	33	33	32	32	32	30	30	30	29	29	29	29
1	32	31	31	30	32	31	30	29	30	29	28	29	28	28	28	27	27	26
2	30	29	28	26	30	28	27	26	27	26	26	27	26	25	26	25	24	24
3	29	27	25	24	28	26	25	24	25	24	23	25	24	23	24	23	22	22
4	27	25	23	21	26	24	23	21	24	22	21	23	22	21	22	21	21	20
5	25	23	21	20	25	22	21	19	22	20	19	21	20	19	21	20	19	18
6	24	21	19	18	24	21	19	18	21	19	18	20	19	18	20	18	17	17
7	23	20	18	17	22	20	18	17	19	18	16	19	17	16	19	17	16	16
8	22	19	17	15	21	18	17	15	18	16	15	18	16	15	17	16	15	15
9	20	17	16	14	20	17	15	14	17	15	14	17	15	14	16	15	14	14
10	19	16	15	13	19	16	15	13	16	14	13	16	14	13	16	14	13	13

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.

NOTE: THE ZONAL CAVITY CALCULATION TECHNIQUE IS ACCURATE WHEN LUMINAIRES WITH SYMMETRIC CANDELA DISTRIBUTIONS ARE EMPLOYED AND WHEN THE LUMINAIRES ARE LOCATED SYMMETRICALLY THROUGHOUT THE ROOM. THIS UNIT HAS SPECIAL CHARACTERISTICS AND THEREFORE THESE COEFFICIENTS SHOULD BE USED WITH CAUTION.



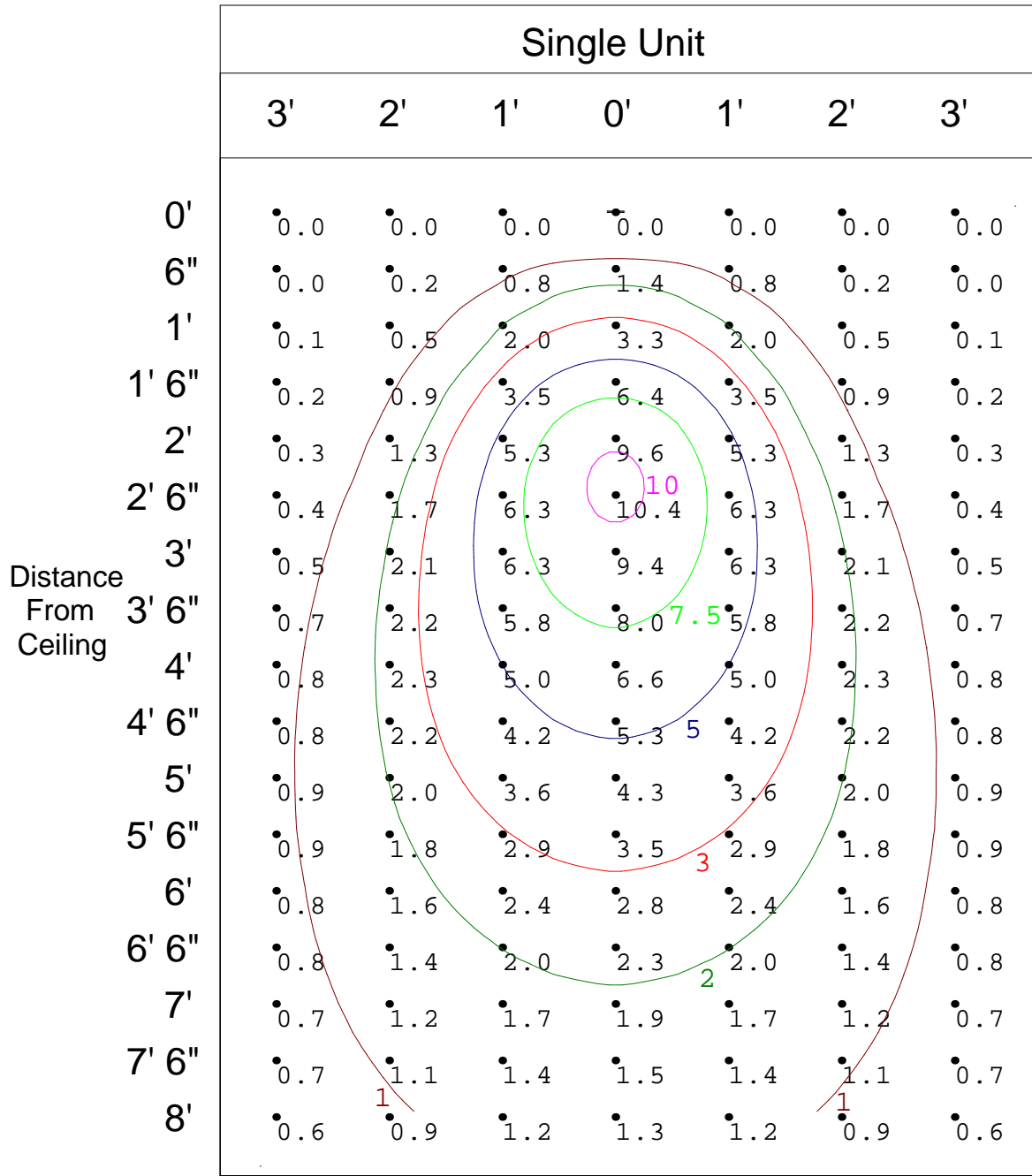
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 DATE: 09/20/10  
 PREPARED FOR: NUMBER EIGHT LIGHTING COMPANY  
 CATALOG NUMBER: 801/H-S-QT-120/WH WITH FS-P-WH TRIM  
 LAMP: ONE 50-WATT MR-16 HALOGEN INCANDESCENT, GE EXN Q50MR16/C/FL40,  
 TILTED 5-DEGREES FROM VERTICAL BASE-UP POSITION.  
 MOUNTING: RECESSED  
 REPORT IS BASED ON 800 LUMENS PER LAMP.

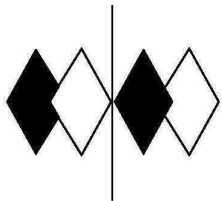
**INITIAL FOOTCANDLES ON THE WALL, 2' SETBACK, 5° TILT**



Data shown is based on initial lamp lumens, direct contribution only (no inter-reflected light).

This lighting pattern represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with Illuminating Engineering Society approved methods. Actual performance of the manufacturer's luminaire may vary due to conditions including, but not limited to variation in line voltage, tolerance in lamps, and other variable field conditions. ITL makes every effort to supply our customers with application work that is free from errors and without defects. However, since it is humanly impossible to be without error 100% of the time, the customer agrees to not hold ITL liable (for any error or defect) for more than the purchase price of these services.





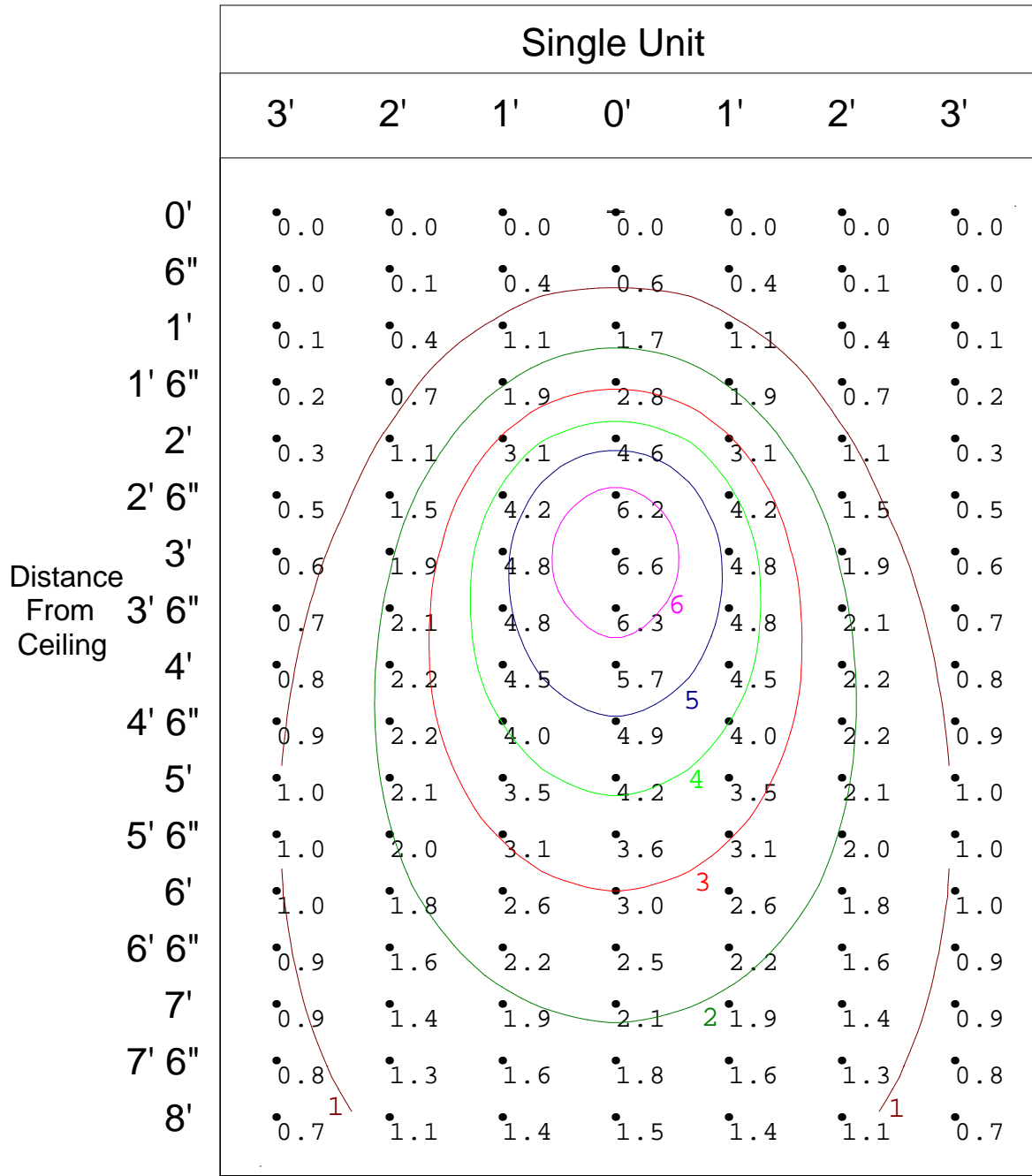
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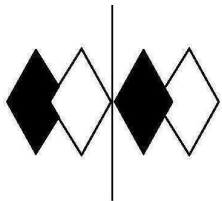
REPORT NUMBER: ITL65465A2  
 DATE: 09/20/10  
 PREPARED FOR: NUMBER EIGHT LIGHTING COMPANY  
 CATALOG NUMBER: 801/H-S-QT-120/WH WITH FS-P-WH TRIM  
 LAMP: ONE 50-WATT MR-16 HALOGEN INCANDESCENT, GE EXN Q50MR16/C/FL40,  
 TILTED 5-DEGREES FROM VERTICAL BASE-UP POSITION.  
 MOUNTING: RECESSED  
 REPORT IS BASED ON 800 LUMENS PER LAMP.

**INITIAL FOOTCANDLES ON THE WALL, 2'-6" SETBACK, 5° TILT**



Data shown is based on initial lamp lumens, direct contribution only (no inter-reflected light).

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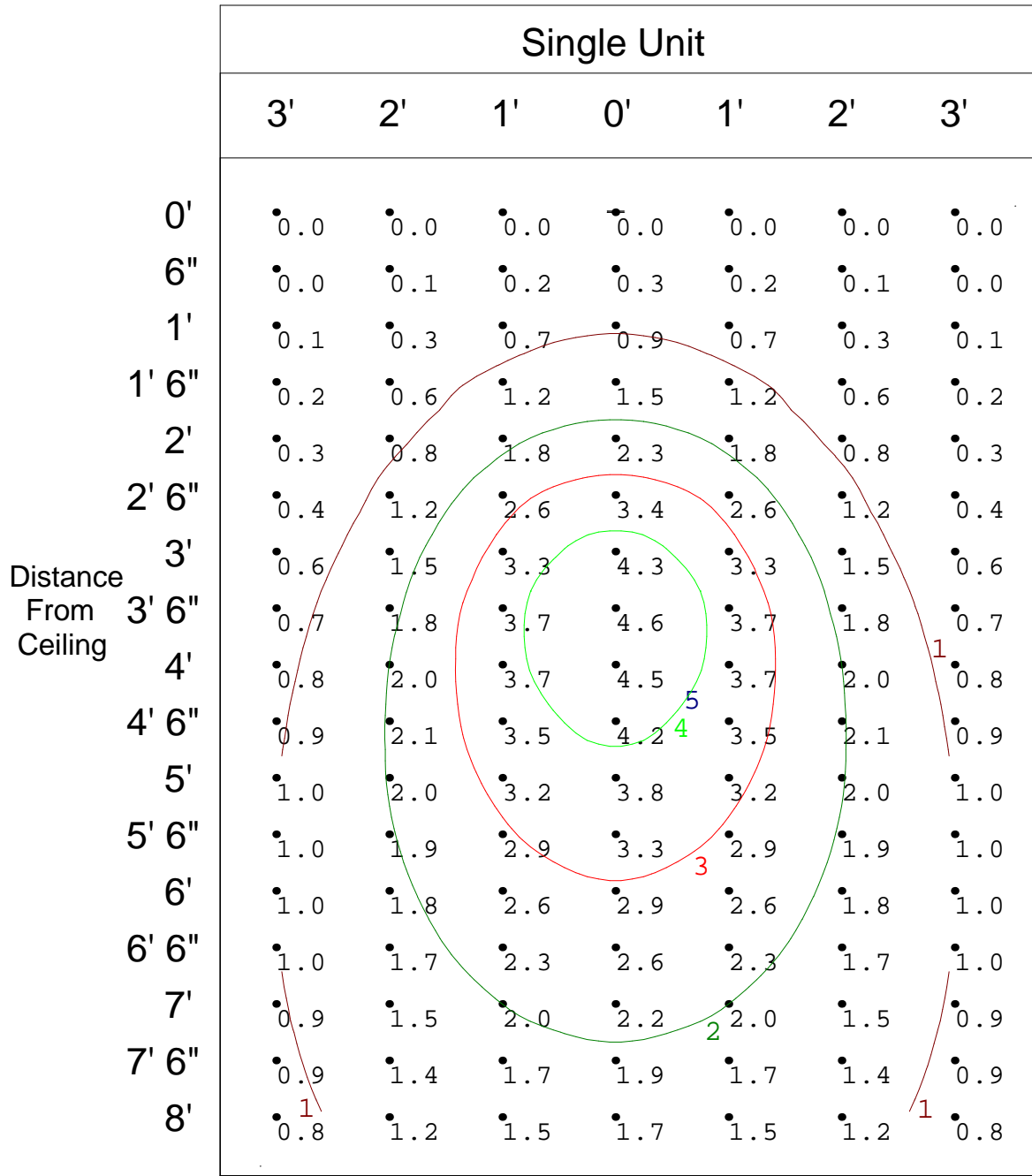
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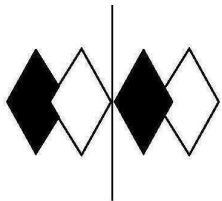
REPORT NUMBER: ITL65465A3  
 DATE: 09/20/10  
 PREPARED FOR: NUMBER EIGHT LIGHTING COMPANY  
 CATALOG NUMBER: 801/H-S-QT-120/WH WITH FS-P-WH TRIM  
 LAMP: ONE 50-WATT MR-16 HALOGEN INCANDESCENT, GE EXN Q50MR16/C/FL40,  
 TILTED 5-DEGREES FROM VERTICAL BASE-UP POSITION.  
 MOUNTING: RECESSED  
 REPORT IS BASED ON 800 LUMENS PER LAMP.

**INITIAL FOOTCANDLES ON THE WALL, 3' SETBACK, 5° TILT**



Data shown is based on initial lamp lumens, direct contribution only (no inter-reflected light).

This lighting pattern represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with Illuminating Engineering Society approved methods. Actual performance of the manufacturer's luminaire may vary due to conditions including, but not limited to variation in line voltage, tolerance in lamps, and other variable field conditions. ITL makes every effort to supply our customers with application work that is free from errors and without defects. However, since it is humanly impossible to be without error 100% of the time, the customer agrees to not hold ITL liable (for any error or defect) for more than the purchase price of these services.



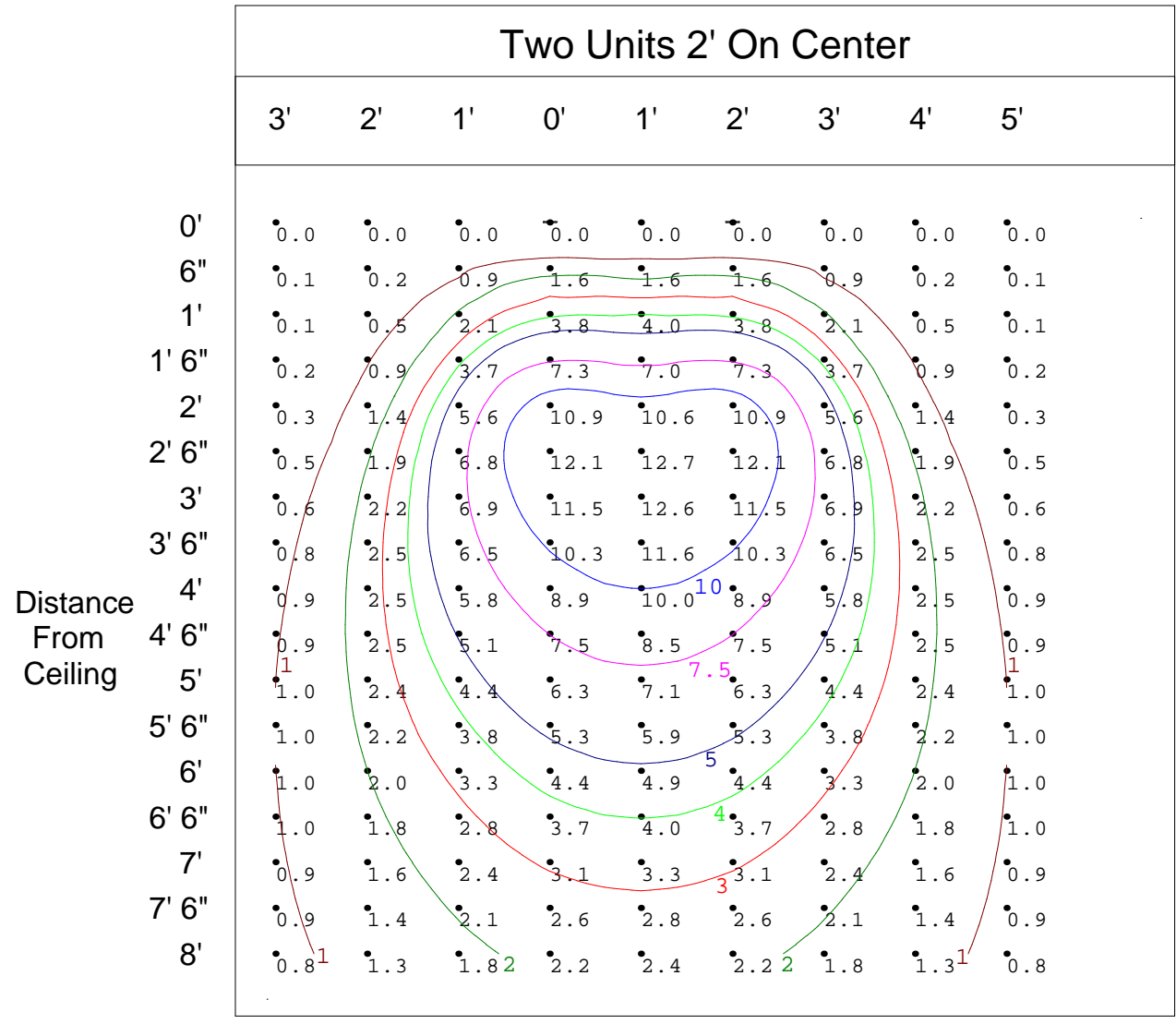
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 THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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

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

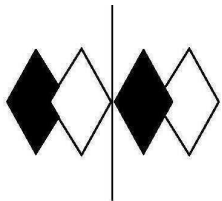
REPORT NUMBER: ITL65465A4  
 DATE: 09/20/10  
 PREPARED FOR: NUMBER EIGHT LIGHTING COMPANY  
 CATALOG NUMBER: 801/H-S-QT-120/WH WITH FS-P-WH TRIM  
 LAMP: ONE 50-WATT MR-16 HALOGEN INCANDESCENT, GE EXN Q50MR16/C/FL40,  
 TILTED 5-DEGREES FROM VERTICAL BASE-UP POSITION.  
 MOUNTING: RECESSED  
 REPORT IS BASED ON 800 LUMENS PER LAMP.

**INITIAL FOOTCANDLES ON THE WALL, 2' SETBACK, 5° TILT**



Data shown is based on initial lamp lumens, direct contribution only (no inter-reflected light).  
 Calculations based on two luminaires spaced 2' apart including 3' outside of the two luminaires.

This lighting pattern represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with Illuminating Engineering Society approved methods. Actual performance of the manufacturer's luminaire may vary due to conditions including, but not limited to variation in line voltage, tolerance in lamps, and other variable field conditions. ITL makes every effort to supply our customers with application work that is free from errors and without defects. However, since it is humanly impossible to be without error 100% of the time, the customer agrees to not hold ITL liable (for any error or defect) for more than the purchase price of these services.



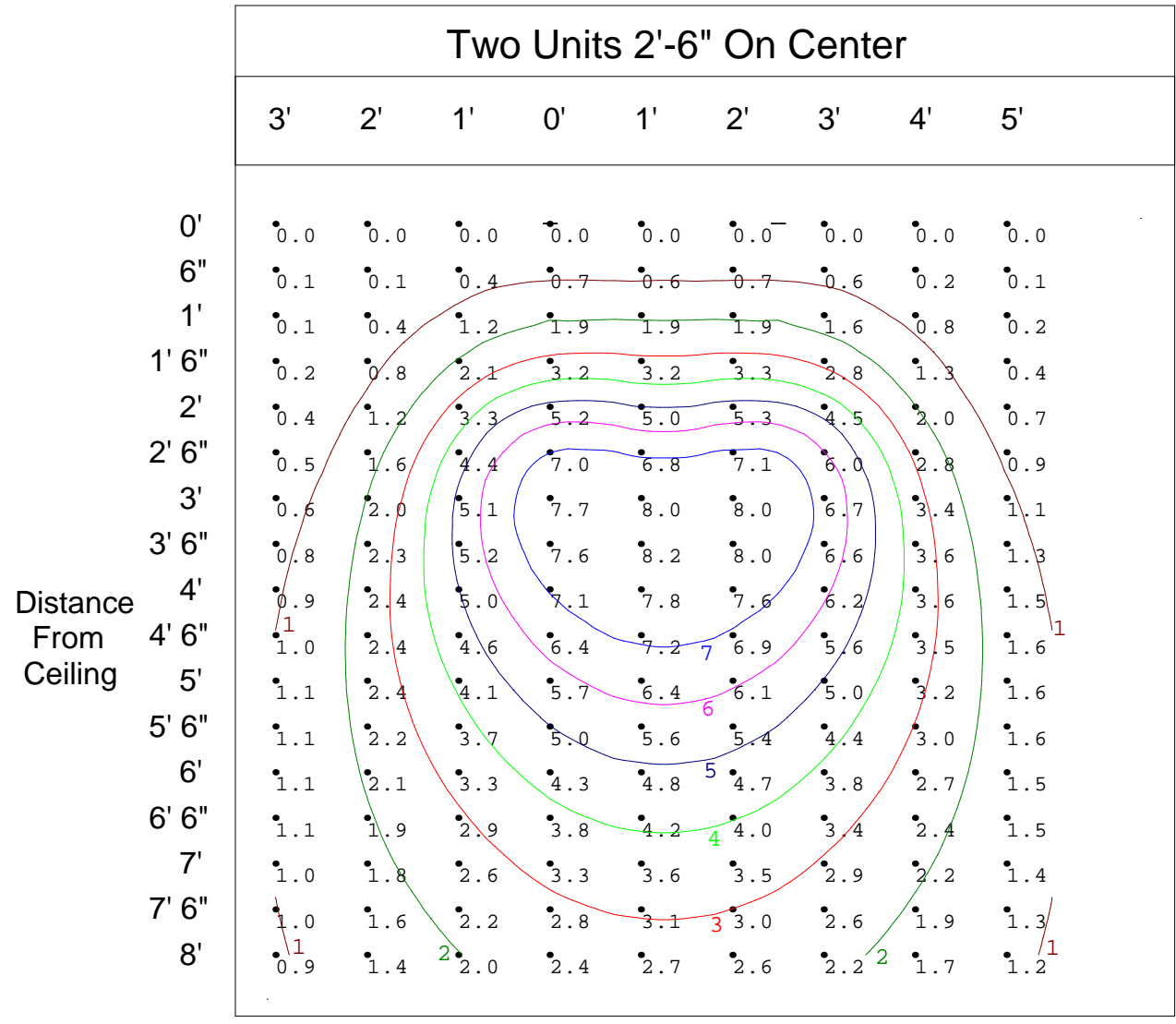
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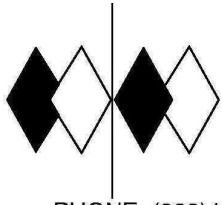
REPORT NUMBER: ITL65465A5  
 DATE: 09/20/10  
 PREPARED FOR: NUMBER EIGHT LIGHTING COMPANY  
 CATALOG NUMBER: 801/H-S-QT-120/WH WITH FS-P-WH TRIM  
 LAMP: ONE 50-WATT MR-16 HALOGEN INCANDESCENT, GE EXN Q50MR16/C/FL40,  
 TILTED 5-DEGREES FROM VERTICAL BASE-UP POSITION.  
 MOUNTING: RECESSED  
 REPORT IS BASED ON 800 LUMENS PER LAMP.

**INITIAL FOOTCANDLES ON THE WALL, 2'-6" SETBACK, 5° TILT**



Data shown is based on initial lamp lumens, direct contribution only (no inter-reflected light).  
 Calculations based on two luminaires spaced 2'-6" apart including 3' outside of the luminaires.

This lighting pattern represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with Illuminating Engineering Society approved methods. Actual performance of the manufacturer's luminaire may vary due to conditions including, but not limited to variation in line voltage, tolerance in lamps, and other variable field conditions. ITL makes every effort to supply our customers with application work that is free from errors and without defects. However, since it is humanly impossible to be without error 100% of the time, the customer agrees to not hold ITL liable (for any error or defect) for more than the purchase price of these services.



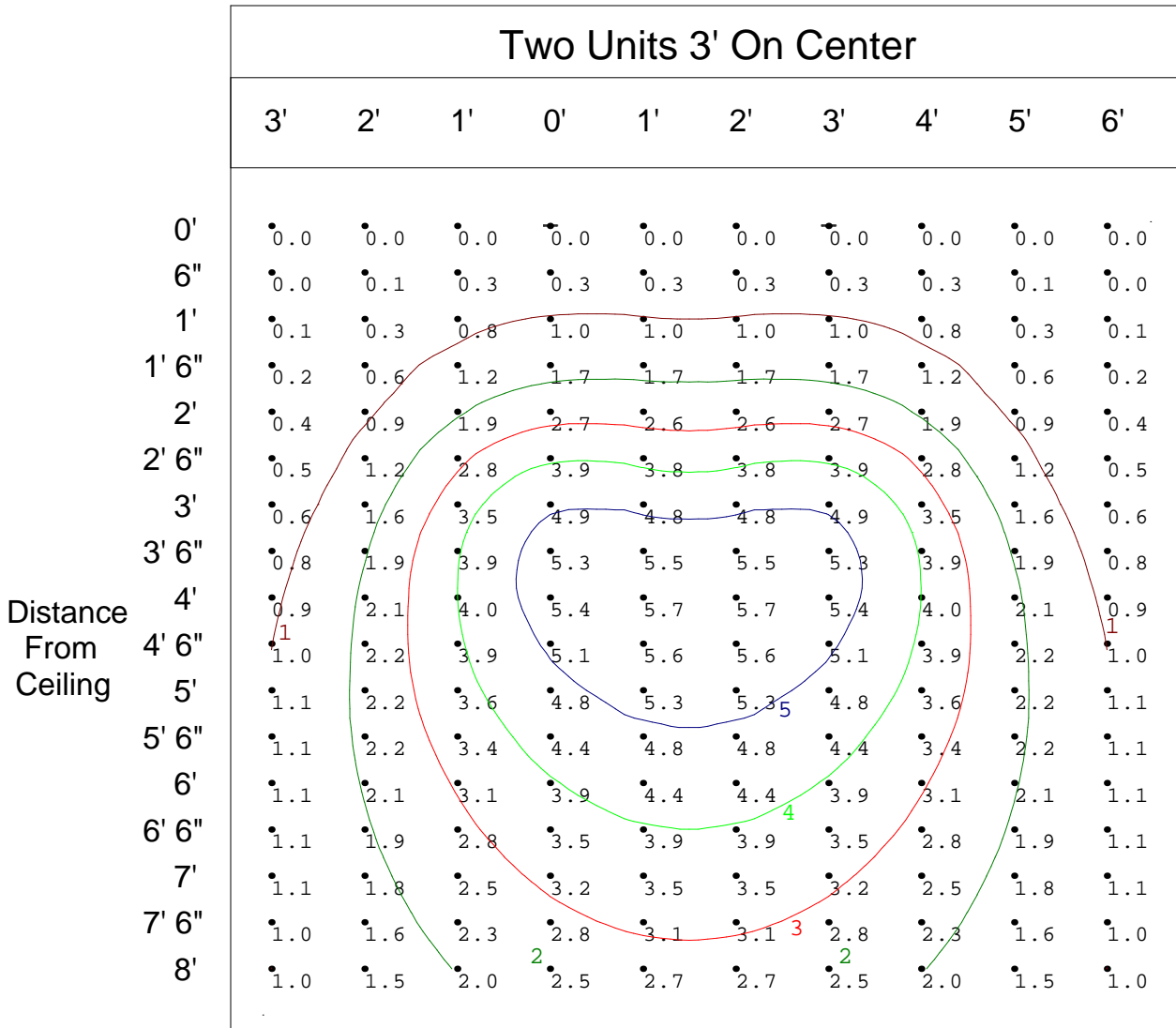
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REPORT NUMBER: ITL65465A6  
 DATE: 09/20/10  
 PREPARED FOR: NUMBER EIGHT LIGHTING COMPANY  
 CATALOG NUMBER: 801/H-S-QT-120/WH WITH FS-P-WH TRIM  
 LAMP: ONE 50-WATT MR-16 HALOGEN INCANDESCENT, GE EXN Q50MR16/C/FL40,  
 TILTED 5-DEGREES FROM VERTICAL BASE-UP POSITION.  
 MOUNTING: RECESSED  
 REPORT IS BASED ON 800 LUMENS PER LAMP.

**INITIAL FOOTCANDLES ON THE WALL, 3' SETBACK, 5° TILT**



Data shown is based on initial lamp lumens, direct contribution only (no inter-reflected light).  
 Calculations based on two luminaires spaced 3' apart including 3' outside of the two luminaires.

This lighting pattern represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with Illuminating Engineering Society approved methods. Actual performance of the manufacturer's luminaire may vary due to conditions including, but not limited to variation in line voltage, tolerance in lamps, and other variable field conditions. ITL makes every effort to supply our customers with application work that is free from errors and without defects. However, since it is humanly impossible to be without error 100% of the time, the customer agrees to not hold ITL liable (for any error or defect) for more than the purchase price of these services.