

# 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: ITL65466

DATE: 08/13/10

PREPARED FOR: NUMBER EIGHT LIGHTING COMPANY

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

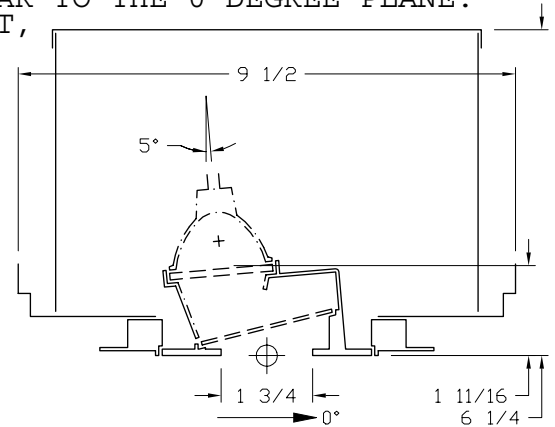
LUMINAIRE: FABRICATED METAL HOUSING WITH BLACK PAINTED GENERAL INTERIOR FINISH, CLEAR FLAT MICRO-PRISMATIC GLASS OUTER LENS IN CAST WHITE PAINTED METAL LENS FRAME WITH BLACK PAINTED INTERIOR, FROSTED LINEAR PRISMATIC GLASS INTERIOR LENS IN CAST BLACK PAINTED METAL LAMP AND LENS MOUNTING/VISOR ASSEMBLY, 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 37-WATT MR-16 HALOGEN INCANDESCENT, GE Q37MR16/HIR/CG40, TILTED 5-DEGREES FROM VERTICAL BASE-UP POSITION.

MOUNTING: RECESSED

NOTE: THE LUMEN RATING FOR THIS REPORT WAS DERIVED BY TAKING THE ACTUAL MEASURED ABSOLUTE LUMEN OUTPUT OF THE LAMP SAMPLE USED FOR THIS TEST AND APPLYING A FACTOR FROM THE RATIO OF THE MANUFACTURER'S RATED CBCP (CENTER BEAM CANDLEPOWER) TO THE ACTUAL MEASURED ABSOLUTE CBCP OF THIS LAMP.

TEST DISTANCE = 25.25 FEET  
REPORT IS BASED ON 830 LUMENS PER LAMP.



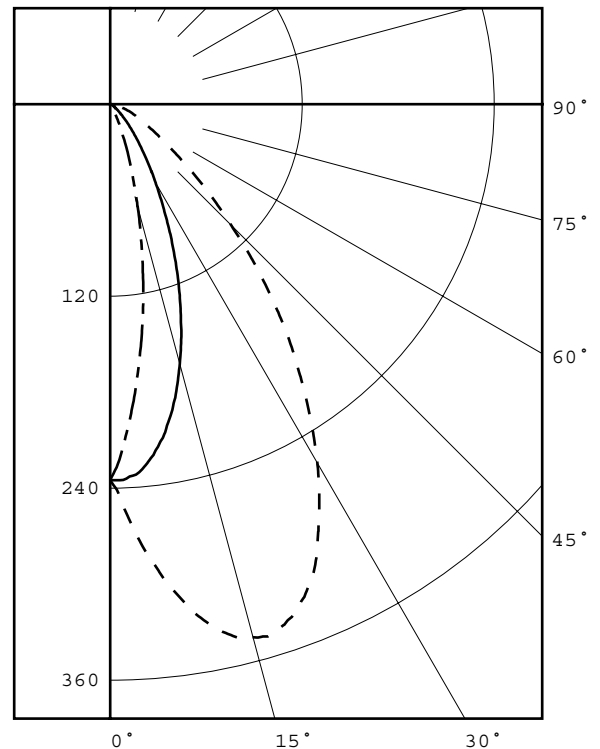
CANDELA DISTRIBUTION						FLUX
	0.0	45.0	90.0	135.0	180.0	
0	235	235	235	235	235	
5	285	271	229	193	180	22
15	345	284	168	94	66	52
25	306	219	88	29	12	57
35	207	124	35	6	2	43
45	107	58	12	1	0	25
55	42	25	4	0	0	12
65	18	12	2	0	0	6
75	7	4	1	0	0	2
85	1	1	0	0	0	0
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	131	15.8	59.6
0- 40	174	21.0	79.2
0- 60	211	25.4	96.1
0- 90	220	26.5	100.0
90-180	0	0.0	0.0
0-180	220	26.5	100.0

TOTAL LUMINAIRE EFFICIENCY = 26.5 %

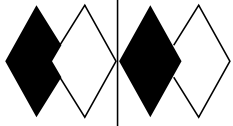
CIE TYPE - DIRECT  
PLANE : 0-DEG 90-DEG 180-DEG  
SPACING CRITERIA : 1.4 0.7 0.3  
LUMINOUS LENGTH : 1.750 1.750

LUMINANCE DATA IN CANDELA/SQ M			
ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 90-DEG	AVERAGE 180-DEG
45	76588.	8589.	0.
55	37061.	3530.	0.
65	21557.	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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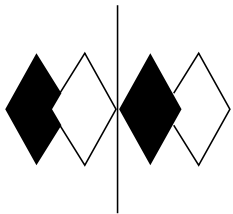
DATE: 08/13/10

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	235	235	235	235	235	235	235	235	235	235	235	235	235	235
1.0	241	245	244	244	243	242	241	240	237	236	235	231	228	227
2.0	253	256	256	255	253	251	248	244	239	237	235	226	220	216
3.0	264	268	267	264	261	258	254	248	241	236	233	221	211	205
4.0	275	278	277	274	270	265	258	251	242	235	232	215	202	194
5.0	285	288	287	283	277	271	262	253	243	233	229	208	193	183
5.5	289	293	291	287	281	273	264	253	242	232	227	205	188	177
6.0	294	297	295	290	284	276	266	254	242	231	225	201	183	170
6.5	299	302	299	294	287	278	267	254	241	229	223	197	178	165
7.0	303	306	303	297	289	279	268	254	240	227	221	193	173	159
7.5	307	310	307	301	292	281	268	254	239	225	218	189	167	153
8.0	311	315	311	304	295	282	269	254	238	223	216	185	162	147
8.5	315	318	315	308	297	284	269	254	236	221	213	181	157	141
9.0	319	322	318	311	300	285	270	253	235	218	211	177	152	136
9.5	323	326	322	314	302	287	270	252	233	216	208	173	147	130
10.0	326	330	325	316	304	288	270	251	231	213	204	169	141	125
10.5	329	332	328	318	305	288	269	250	229	210	201	165	136	119
11.0	332	336	330	320	307	289	269	248	227	207	198	161	132	114
11.5	335	338	333	322	308	289	268	247	225	205	195	157	127	108
12.0	337	340	335	324	308	289	267	245	222	201	191	152	122	102
12.5	339	342	337	325	309	289	266	243	219	198	188	148	117	97
13.0	341	344	339	326	309	288	265	240	216	194	184	143	112	92
13.5	343	346	340	327	309	288	263	238	213	191	180	139	108	87
14.0	344	347	341	328	309	287	261	235	210	187	176	135	103	82
14.5	344	348	341	328	309	285	259	232	206	183	172	130	99	78
15.0	345	348	341	328	308	284	257	229	203	179	168	126	94	73
15.5	346	349	342	327	307	282	254	226	199	175	164	122	89	69
16.0	346	350	342	327	306	280	252	223	195	171	160	117	85	65
16.5	347	350	342	326	305	278	249	220	191	167	156	113	81	61
17.0	346	350	341	325	303	276	246	216	187	163	152	109	77	56
17.5	345	349	340	324	301	273	243	213	183	159	148	105	73	53
18.0	344	347	339	323	299	270	240	209	179	154	143	101	69	49
18.5	343	346	337	321	297	268	236	205	175	151	139	97	66	46
19.0	341	344	336	319	295	265	233	201	171	147	135	93	62	42
19.5	340	343	334	317	292	262	229	198	167	142	131	90	59	39
20.0	338	341	332	315	290	259	226	193	163	138	127	86	56	37
20.5	336	339	329	312	287	256	222	189	159	134	123	82	52	34
21.0	333	336	327	309	284	252	218	185	154	130	119	79	49	32
21.5	331	333	324	306	281	249	214	181	150	126	115	75	47	29
22.0	328	331	321	303	277	245	210	176	146	121	111	72	44	27
22.5	325	328	318	300	274	241	205	172	142	117	107	69	41	25
23.0	322	325	315	297	270	237	201	168	138	113	103	66	38	23
23.5	319	321	312	293	266	233	197	163	133	109	99	63	36	21
24.0	315	317	308	289	262	229	192	159	129	105	95	59	33	19
24.5	311	313	304	285	258	224	187	154	125	102	92	57	31	17
25.0	306	309	300	281	253	219	183	150	121	98	88	54	29	16
27.5	283	286	277	258	230	195	160	128	101	80	71	41	20	10
30.0	259	261	252	233	206	171	137	107	83	65	57	31	14	6
32.5	233	235	226	208	180	147	115	89	68	52	45	23	9	4
35.0	207	209	201	183	155	124	96	73	54	41	35	17	6	2
37.5	182	183	176	158	132	104	79	59	43	32	27	12	4	1
40.0	156	157	152	136	111	86	64	47	34	24	21	9	3	1
42.5	131	132	128	114	92	71	52	38	27	19	16	6	2	1
45.0	107	108	105	93	76	58	42	30	21	14	12	4	1	0
47.5	87	87	85	76	62	47	34	24	16	11	9	3	1	0
50.0	69	70	68	60	50	38	27	19	13	9	7	2	1	0
52.5	54	55	53	48	40	31	22	15	11	7	5	1	0	0
55.0	42	43	42	38	33	25	18	13	9	5	4	1	0	0
57.5	34	34	34	31	27	21	15	11	7	4	3	1	0	0
60.0	27	28	27	25	22	17	13	9	6	4	3	1	0	0
62.5	22	22	22	21	18	14	10	7	5	3	2	0	0	0
65.0	18	18	18	17	15	12	9	6	4	2	2	0	0	0
67.5	15	15	15	14	12	9	7	5	3	2	1	0	0	0
70.0	12	12	12	11	10	7	5	4	3	1	1	0	0	0
72.5	9	10	10	9	7	6	4	3	2	1	1	0	0	0



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REPORT NUMBER: ITL65466

DATE: 08/13/10

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	7	6	4	3	2	1	1	1	0	0	0
77.5	5	5	5	5	4	3	2	1	1	1	0	0	0	0
80.0	3	3	3	3	2	2	1	1	1	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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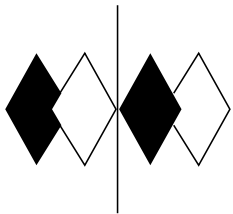
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DATE: 08/13/10

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CANDELA DISTRIBUTION  
LATERAL ANGLE

	180.0
0.0	235
1.0	227
2.0	216
3.0	204
4.0	192
5.0	180
5.5	173
6.0	167
6.5	161
7.0	155
7.5	149
8.0	143
8.5	137
9.0	131
9.5	125
10.0	119
10.5	113
11.0	107
11.5	102
12.0	96
12.5	91
13.0	85
13.5	81
14.0	76
14.5	71
15.0	66
15.5	62
16.0	58
16.5	53
17.0	49
17.5	46
18.0	43
18.5	40
19.0	37
19.5	34
20.0	31
20.5	29
21.0	26
21.5	24
22.0	21
22.5	20
23.0	18
23.5	16
24.0	15
24.5	14
25.0	12
27.5	7
30.0	4
32.5	3
35.0	2
37.5	1
40.0	1
42.5	1
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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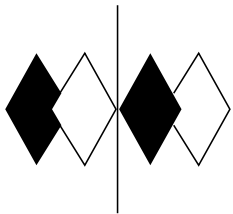
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DATE: 08/13/10

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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5-DEGREE

ZONAL LUMEN SUMMARY

0- 5	6.
5- 10	16.
10- 15	24.
15- 20	28.
20- 25	29.
25- 30	28.
30- 35	24.
35- 40	19.
40- 45	15.
45- 50	10.
50- 55	7.
55- 60	5.
60- 65	3.
65- 70	2.
70- 75	2.
75- 80	1.
80- 85	0.
85- 90	0.

10-DEGREE

ZONAL LUMEN SUMMARY

0- 10	22.
0- 20	74.
0- 30	131.
0- 40	174.
0- 50	199.
0- 60	211.
0- 70	217.
0- 80	219.
0- 90	220.
0-100	220.
0-110	220.
0-120	220.
0-130	220.
0-140	220.
0-150	220.
0-160	220.
0-170	220.
0-180	220.



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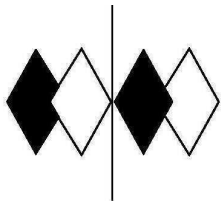
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	31	31	31	31	31	31	31	31	29	29	29	28	28	28	27	27	27	26
1	30	29	28	28	29	28	28	27	27	27	26	26	26	25	25	25	25	24
2	28	27	25	24	27	26	25	24	25	24	24	24	24	23	24	23	23	22
3	26	24	23	22	26	24	23	22	23	22	21	23	22	21	22	21	21	20
4	25	23	21	20	24	22	21	20	22	20	19	21	20	19	21	20	19	18
5	23	21	19	18	23	21	19	18	20	19	18	20	19	18	19	18	17	17
6	22	20	18	17	22	19	18	16	19	17	16	18	17	16	18	17	16	16
7	21	18	16	15	21	18	16	15	18	16	15	17	16	15	17	16	15	15
8	20	17	15	14	19	17	15	14	17	15	14	16	15	14	16	15	14	14
9	19	16	14	13	19	16	14	13	16	14	13	15	14	13	15	14	13	13
10	18	15	13	12	18	15	13	12	15	13	12	15	13	12	14	13	12	12

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.



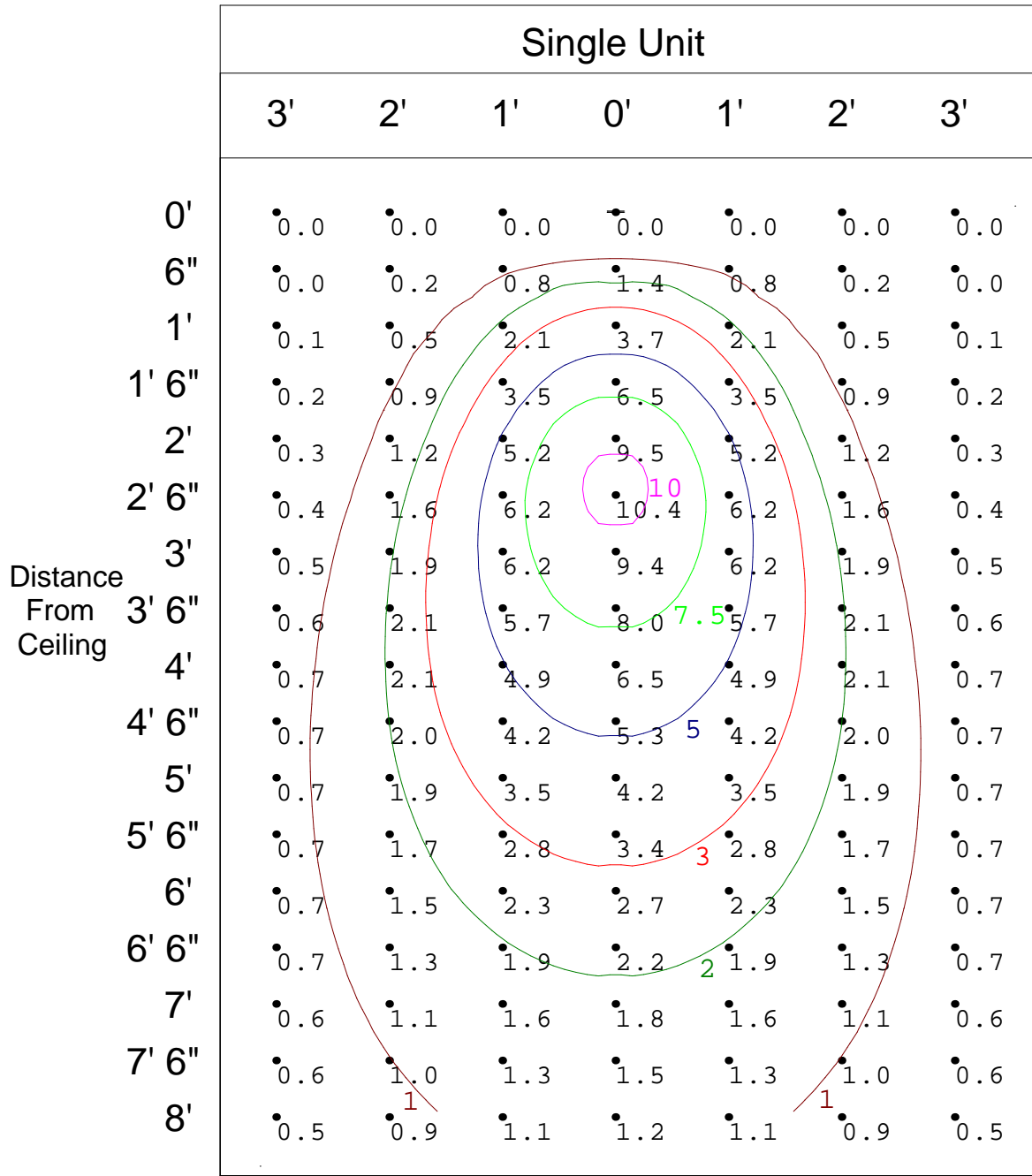
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REPORT NUMBER: ITL65466A1  
 DATE: 09/20/10  
 PREPARED FOR: NUMBER EIGHT LIGHTING COMPANY  
 CATALOG NUMBER: 801/H-S-QT-120/WH WITH FS-P-WH TRIM  
 LAMP: ONE 37-WATT MR-16 HALOGEN INCANDESCENT, GE Q37MR16/HIR/CG40,  
 TILTED 5-DEGREES FROM VERTICAL BASE-UP POSITION.  
 MOUNTING: RECESSED  
 REPORT IS BASED ON 830 LUMENS PER LAMP.

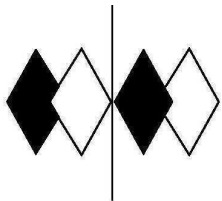
**INITIAL FOOTCANDLES ON THE WALL, 2' SETBACK, 5° TILT**



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.





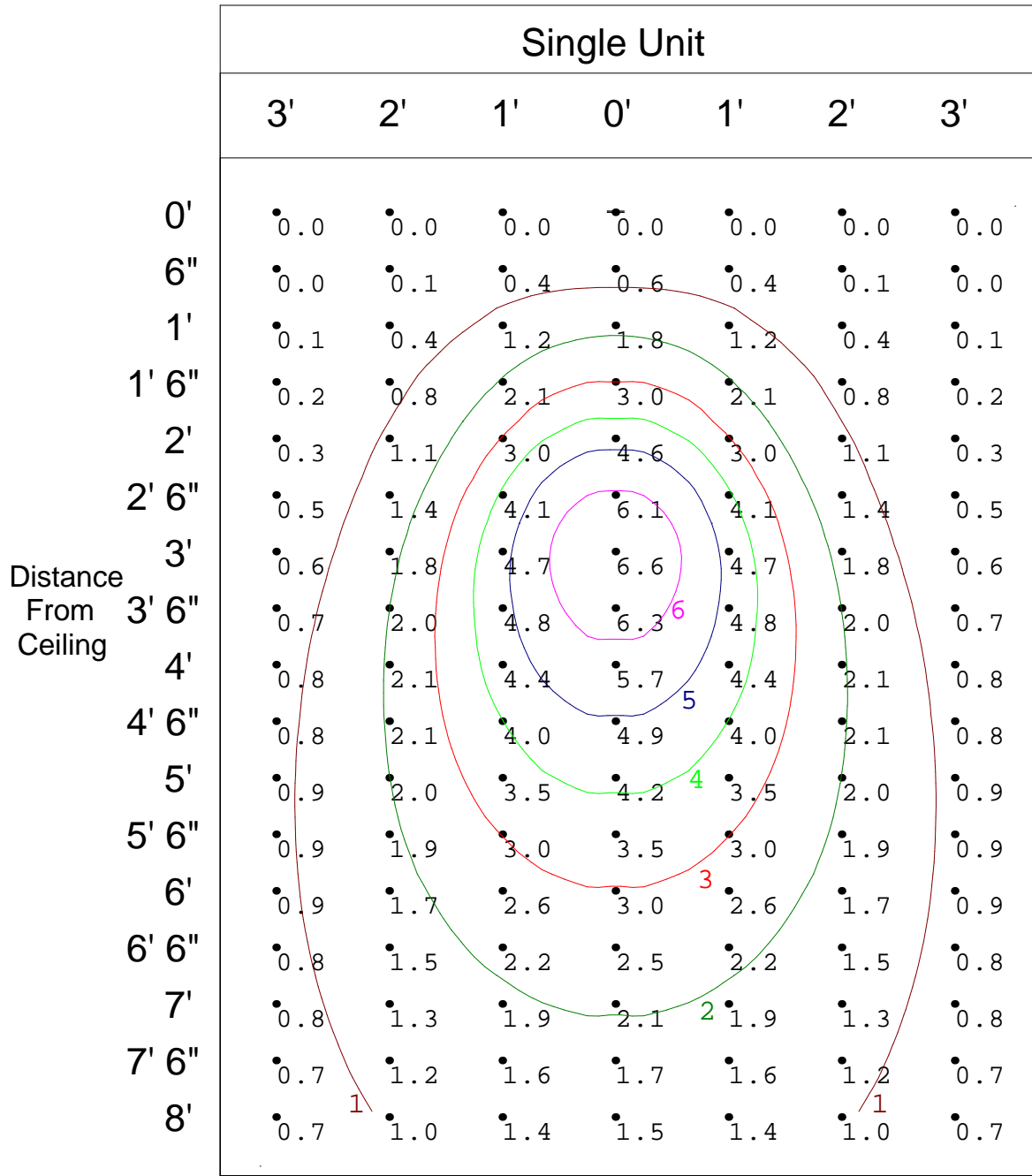
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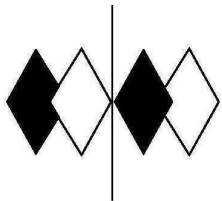
REPORT NUMBER: ITL65466A2  
 DATE: 09/20/10  
 PREPARED FOR: NUMBER EIGHT LIGHTING COMPANY  
 CATALOG NUMBER: 801/H-S-QT-120/WH WITH FS-P-WH TRIM  
 LAMP: ONE 37-WATT MR-16 HALOGEN INCANDESCENT, GE Q37MR16/HIR/CG40,  
 TILTED 5-DEGREES FROM VERTICAL BASE-UP POSITION.  
 MOUNTING: RECESSED  
 REPORT IS BASED ON 830 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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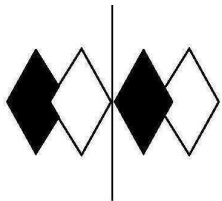
REPORT NUMBER: ITL65466A3  
 DATE: 09/20/10  
 PREPARED FOR: NUMBER EIGHT LIGHTING COMPANY  
 CATALOG NUMBER: 801/H-S-QT-120/WH WITH FS-P-WH TRIM  
 LAMP: ONE 37-WATT MR-16 HALOGEN INCANDESCENT, GE Q37MR16/HIR/CG40,  
 TILTED 5-DEGREES FROM VERTICAL BASE-UP POSITION.  
 MOUNTING: RECESSED  
 REPORT IS BASED ON 830 LUMENS PER LAMP.

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

		Single Unit						
		3'	2'	1'	0'	1'	2'	3'
Distance From Ceiling	0'	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	6"	0.0	0.1	0.2	0.3	0.2	0.1	0.0
	1'	0.1	0.4	0.8	1.0	0.8	0.4	0.1
	1' 6"	0.2	0.6	1.3	1.6	1.3	0.6	0.2
	2'	0.4	0.9	1.9	2.4	1.9	0.9	0.4
	2' 6"	0.4	1.2	2.6	3.4	2.6	1.2	0.4
	3'	0.5	1.5	3.2	4.2	3.2	1.5	0.5
	3' 6"	0.7	1.7	3.6	4.6	3.6	1.7	0.7
	4'	0.8	1.9	3.7	4.5	3.7	1.9	0.8
	4' 6"	0.8	2.0	3.5	4.2 <sup>4</sup>	3.5	2.0	0.8
	5'	0.9	1.9	3.2	3.8	3.2	1.9	0.9
	5' 6"	0.9	1.9	2.9	3.3	2.9	1.9	0.9
	6'	0.9	1.7	2.6	2.9	2.6	1.7	0.9
	6' 6"	0.9	1.6	2.3	2.5	2.3	1.6	0.9
7'	0.9	1.4	2.0	2.2	2.0	1.4	0.9	
7' 6"	0.8	1.3	1.7	1.9	1.7	1.3	0.8	
8'	0.8 <sup>1</sup>	1.2	1.5	1.6	1.5	1.2	0.8 <sup>1</sup>	

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.



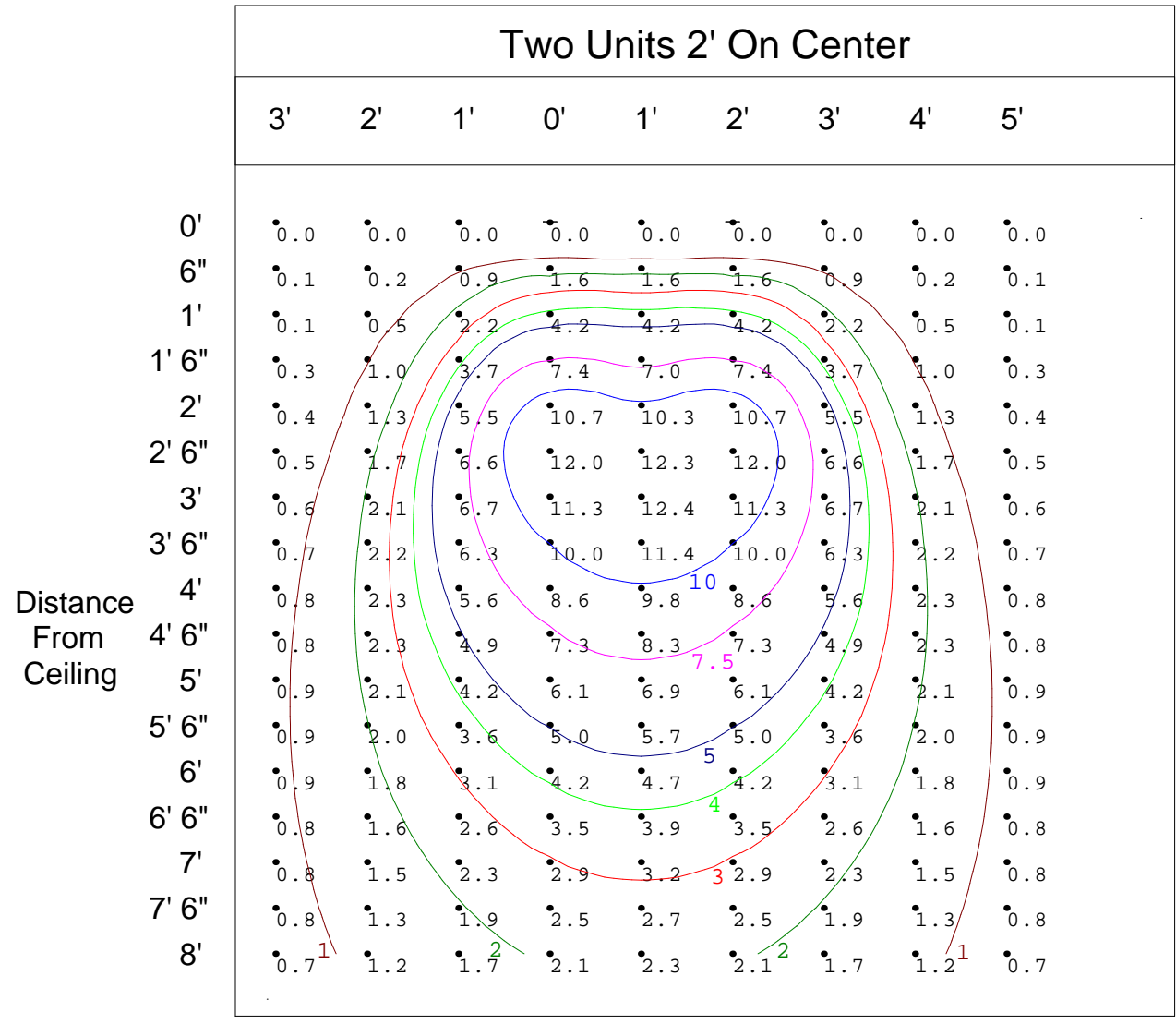
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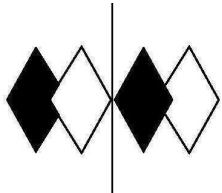
REPORT NUMBER: ITL65466A4  
 DATE: 09/20/10  
 PREPARED FOR: NUMBER EIGHT LIGHTING COMPANY  
 CATALOG NUMBER: 801/H-S-QT-120/WH WITH FS-P-WH TRIM  
 LAMP: ONE 37-WATT MR-16 HALOGEN INCANDESCENT, GE Q37MR16/HIR/CG40,  
 TILTED 5-DEGREES FROM VERTICAL BASE-UP POSITION.  
 MOUNTING: RECESSED  
 REPORT IS BASED ON 830 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.



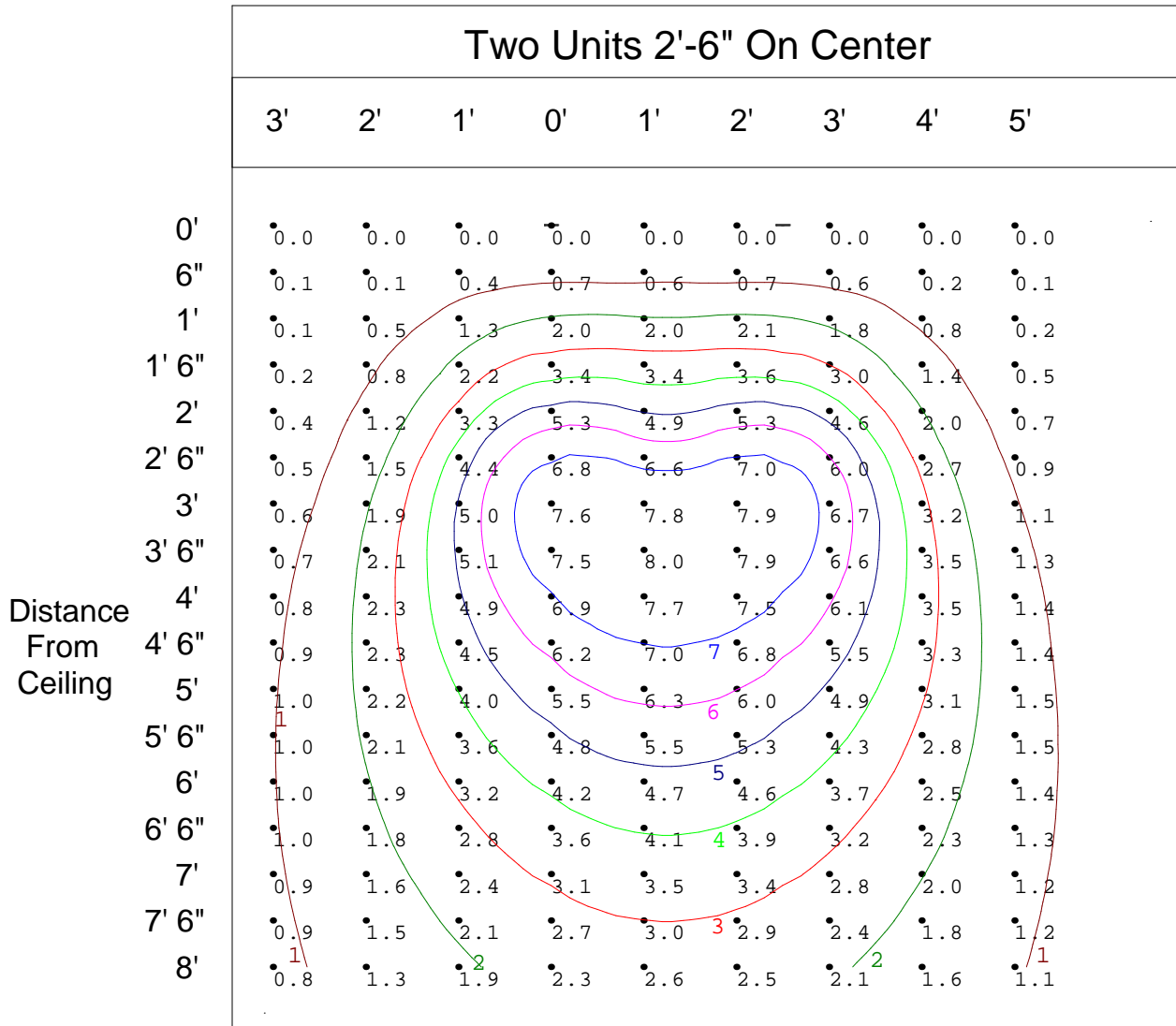
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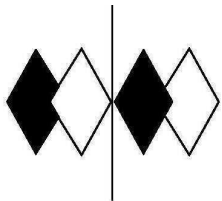
REPORT NUMBER: ITL65466A5  
 DATE: 09/20/10  
 PREPARED FOR: NUMBER EIGHT LIGHTING COMPANY  
 CATALOG NUMBER: 801/H-S-QT-120/WH WITH FS-P-WH TRIM  
 LAMP: ONE 37-WATT MR-16 HALOGEN INCANDESCENT, GE Q37MR16/HIR/CG40,  
 TILTED 5-DEGREES FROM VERTICAL BASE-UP POSITION.  
 MOUNTING: RECESSED  
 REPORT IS BASED ON 830 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.



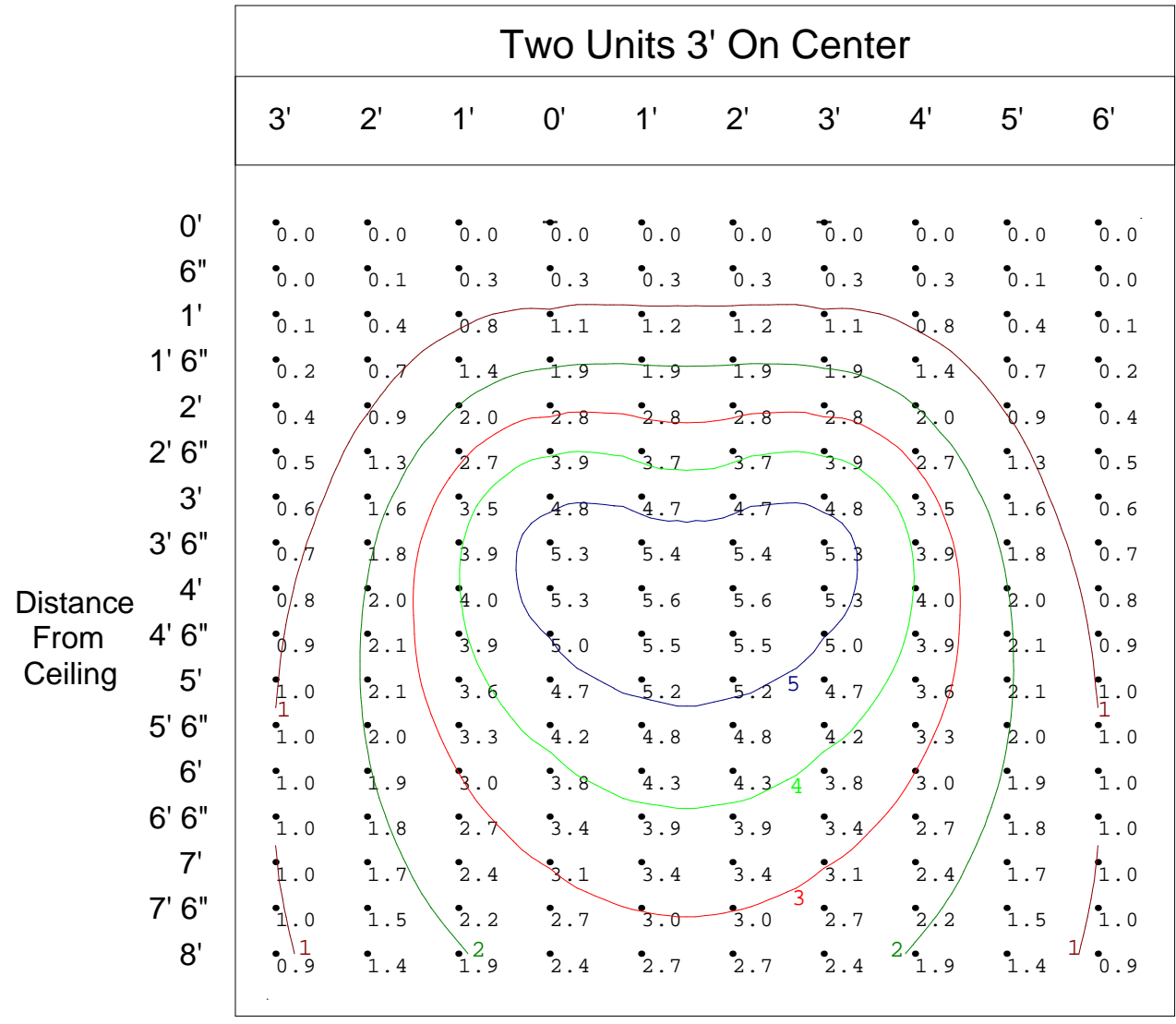
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REPORT NUMBER: ITL65466A6  
 DATE: 09/20/10  
 PREPARED FOR: NUMBER EIGHT LIGHTING COMPANY  
 CATALOG NUMBER: 801/H-S-QT-120/WH WITH FS-P-WH TRIM  
 LAMP: ONE 37-WATT MR-16 HALOGEN INCANDESCENT, GE Q37MR16/HIR/CG40,  
 TILTED 5-DEGREES FROM VERTICAL BASE-UP POSITION.  
 MOUNTING: RECESSED  
 REPORT IS BASED ON 830 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.

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