

## Mod<sup>2</sup>

### W-ID-4600

Wall-Mounted Indirect/Direct  
**Available with integrated occupancy sensor.**

### Product Description

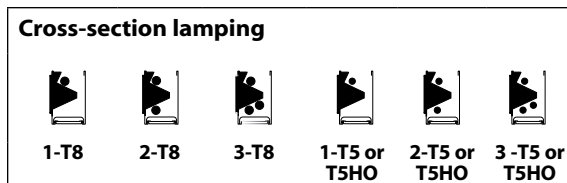
Rectilinear wall-mounted fixture with an indirect/direct distribution, styled to match other Mod fixtures. This fixture is Cradle to Cradle Certified<sup>CM</sup> Silver by MBDC. Available with an integrated ultrasonic occupancy sensor. UL listed.

**CS**<sup>TM</sup> Control Solutions available

### Ordering Guide

Product, lamping, & length						Options							
W -	ID -	46	4	8	T5HO -	SGL -	CWM -	LP/ELB -	TW -	2CWQ -	F -	120	
Mounting	Distribution	Series	Lamp Count	Nominal Length (ft)	Lamp Type	Baffle or Diffuser	Finish	Ballasts	Tandem Wiring	Pre-Wiring	Other Options	Volts	
W Wall Mounted	ID Indirect/Direct	46	1,2,3 →	2 →	T8	BA BW SGL	CWM (matte white) is standard	ELB10 is std for T8	-	1CWQ	CS/us F ILO/FP ILO/PAT 19 ILO/XA LP/EF	120	
			1,2,3 →	3 →									
			1,2,3 →	4 →									
			2,4,6 →	6 →									
			2,4,6 →	8 →									
			1,2 →	3 →									T5HO T5
			1,2,3 →	4 →									
			2,4 →	6 →									
			2,4,6 →	8 →									
<p><b>notes:</b> Lamp count = total number of lamps in the fixture Tandem wiring not available for one-lamp cross-section fixtures *Dimming ballasts not available for all lamp types and combination <b>For ordering guide information in shaded areas, choose selection by reading ACROSS the shaded areas for correct specifications.</b></p>													

**W-ID-4648T5HO-SGL-CWM-LP/ELB-TW-2CWQ-F-120** is a typical catalog number for a 4-lamp (2 lamps in cross-section), 8-foot long, T5HO fixture with extruded frosted acrylic lens, matte white finish, low-profile electronic ballast, tandem-wired, pre-wired with two-circuit branch wiring and quick-connects, fuse, 120 volts.



### Baffle and Diffusers Options

- BA** Blade Baffle, Metallic Gray. 3/8" high and 1/2" OC, steel, flush to bottom of fixture housing.
- BW** Blade Baffle, White. 3/8" high and 1/2" OC, steel, flush to bottom of fixture housing.
- SGL** Soft Glow Lens. Extruded, frosted acrylic, flush to bottom of fixture housing.

### Finishes

- CWM** Matte White, painted finish. See LiteColors<sup>TM</sup> in Product Guide or online for other finishes.

### Ballast Options

- Specify in place of **ELB10**, contact factory for availability/compatibility with lamping:
- LP/ELB** Low-profile electronic ballast
  - LLS2** Light level switching ballast. The LLS2 ballast provides two light levels – a 100% power full output level and a step-dim level at 50% power. Step-dim strategies for use with CS/us control solution option.
  - DA/MK7** Advance Mark VII dimming ballast
  - DL/ECO** Lutron ECO-10 dimming ballast
  - DO/HEL** Osram Sylvania dimming ballast

### Tandem Wiring & Circuiting Options

- 1CWQ** Fixture is wired with a single-circuit so that all lamps are switched together.
- TW-2CWQ** Fixtures wired with two circuits. 2-lamp in cross section fixtures, the fixture is wired such that the inline lamps are switched separately. 3-lamp in cross section fixtures, the fixture is wired such that the inline center lamps are switched separately from the inline outer lamps.

### Other Options



- CS/us** Ultrasonic occupancy sensor control solution. Available in 4, and 8-foot lengths. See next page for details.
- F** Fuse. Slow or fast blow, determined by Litecontrol.
- ILO/FP** Indirect Lens options. White acrylic, .100" thick.
- ILO/PAT 19** Indirect Lens options. 3/16" square prisms, .156" thick extruded acrylic.
- ILO/XA** Indirect Lens option. Diagonal 3/16" conical prisms, .100" thick extruded acrylic.
- LP/EF** Low-profile emergency fluorescent ballast. Battery-powered ballast from a UL Listed manufacturer will operate one lamp for 1 1/2 hours.

### Questions to Ask

1. Row information, including desired fixture lengths? 2. Lamp type?
3. White, Litecolor, or special color? 4. Ballast options?
5. Tandem wiring? 7. Other options? 8. 120 or 277 volt?



## CS<sup>us</sup> Option

Add CS/us to the ordering code to have a fixture-integrated ultrasonic occupancy sensor by Watt Stopper installed at the factory. Available in 4- and 8-foot length fixtures. The sensor is installed in the center of the fixture, and provides automatic on-off or step-dim control of the fixture based on motion detection. Specify the light level switching ballast option (LLS2) for step-dim control. One sensor can control all the fixtures in a continuous row, specify accordingly. See the separate CS/us Technical Sheet for details. Contact factory for technical assistance.

### Example of Control Solutions catalog number

**W-ID-4648T5HO-SGL-CWM-LLS2-TW-2CWQ-CS/us-120** is a typical catalog number for a 4-lamp (2 lamps in cross-section), 8-foot long, T5HO fixture with extruded frosted acrylic lens, matte white finish, step dimming electronic ballast, tandem-wired, pre-wired with two-circuit branch wiring and quick-connects, optional ultrasonic occupancy sensor, 120 volts.

## Specifications

**HOUSING.** Die-formed and welded steel, with 3/8" return at housing bottom for rigidity and appearance, furnished with 6" long, steel splines for insertion at each side of housing at junction of fixtures in rows for precise alignment. End headers have clearance holes for easy row installation and are notched under lamps for more even diffuser luminance and continuous baffle appearance.

**END CAPS.** Steel, 14-gauge, with no holes or knockouts, finished to match housing. Two fasteners on each end cap allow tight attachment to ends of individual fixtures and ends of rows.

**REFLECTORS.** Die-formed steel with high-reflectance white finish.


**LAMPING.** Available in one-, two-, and three-lamp T5, T5HO, or T8 in cross-section. (Note: 3-lamp T5 or T5HO not available in 3' or 6' length fixtures).

**BALLAST.** Electronic Ballast (**ELB** - for T8 lamping) or Low-profile Electronic Ballast (**LP/ELB** - for T5 or T5HO lamping), high power factor, thermally protected Class P, Sound Rated A, less than 10% THD, manufactured by a UL Listed manufacturer, as available, determined by Litecontrol. Ballasts with a voltage range of 120 to 277 will be used when fixture configuration and ballast availability allow. The minimum number of ballasts will be used.

**TANDEM WIRING.** When selected in Ordering guide below, fixtures wired to switch in-line lamps separately, providing two (two-lamp fixtures) or three (three-lamps fixtures only) levels of light.

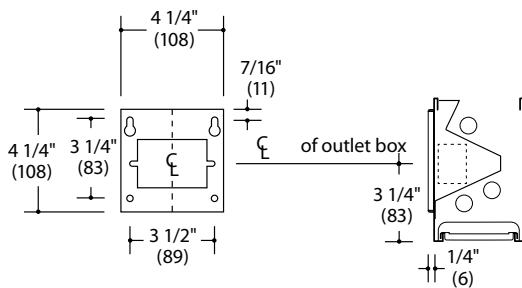
**PRE-WIRING.** Fixtures are supplied with #12 AWG type THHN wire for branch circuits. One end will have factory-installed push-in quick-connects. The other end will be stripped back 1/2" for quick connection in field. For fixtures with special circuits such as night light and emergency, in-field wiring may be required. See Pre-wiring information in the Litecontrol Product Guide for details.

**MOUNTING.** Provided with two wall-mounting brackets measuring 4 1/4" square and 1/4" deep. Finish is CWM (Matte White).

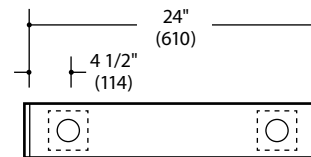
**CERTIFICATION.** Fixture and electrical components shall be UL and/or CUL Listed and shall bear the I.B.E.W., A.F. of L. label.  This fixture is Cradle to Cradle Certified<sup>CM</sup> Silver by MBDC. Note: Litecontrol reserves the right to change specifications without notice for product development and improvement.

## Planning for installation

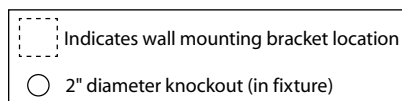
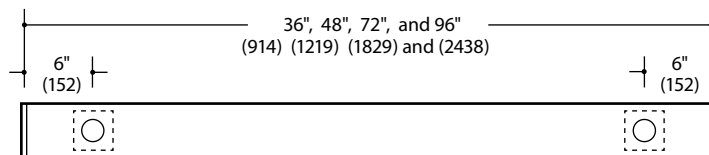
Wall Bracket



Individual Fixture - 2'



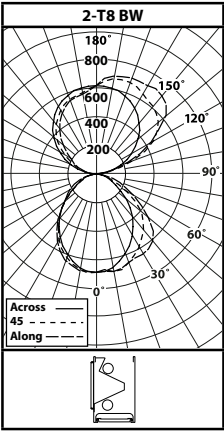
Individual Fixture - 3', 4', 6' and 8'



LITECONTROL

100 Hawks Avenue Hanson, MA 02341  
781 294 0100 f: 781 293 2849 litecontrol.com





**CANDLEPOWER SUMMARY**

ANGLE	0	45	90	135	180
180	622	622	622	622	622
175	591	602	622	656	678
165	559	567	609	689	711
155	518	537	568	678	721
145	447	472	510	634	735
135	350	396	435	602	700
125	244	298	340	526	537
115	171	190	243	382	344
105	92	114	135	179	149
95	38	46	30	16	6
90	6	6	4	6	6
85	3	8	11	16	24
75	81	60	66	79	125
65	171	114	123	176	233
55	244	212	216	339	393
45	339	342	342	469	572
35	483	464	455	559	645
25	602	580	559	634	654
15	667	656	638	700	691
5	689	700	691	689	678
0	695	695	695	695	695

**W-ID-4624T8-BW 63.7% Efficiency**  
Litecontrol Certified Test Report #W-ID-4624T8-BW.IES

RCC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0			
RCR																		
0	67	67	67	67	62	62	62	62	51	51	51	42	42	42	33	33	33	28
1	62	59	57	55	57	54	52	50	45	44	43	37	36	35	29	29	28	24
2	56	52	48	45	52	48	44	42	40	38	36	33	31	30	26	25	24	21
3	52	46	41	38	47	42	38	35	35	32	30	29	27	25	23	22	21	18
4	47	41	36	32	43	37	33	30	31	28	26	26	24	22	21	19	18	15
5	43	36	31	27	40	33	29	26	28	25	22	23	21	19	19	17	16	14
6	40	33	27	24	37	30	26	22	25	22	19	21	19	17	17	15	14	12
7	37	29	24	21	34	27	23	20	23	20	17	19	17	15	16	14	12	11
8	34	27	22	19	31	25	20	17	21	18	15	18	15	13	14	13	11	10
9	32	24	20	17	29	23	18	16	19	16	14	16	14	12	13	11	10	9
10	30	22	18	15	27	21	17	14	18	15	12	15	12	11	12	10	9	8

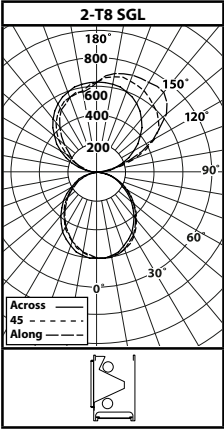
Floor Cavity Reflectance .20

**ZONAL LUMEN SUMMARY**

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	2043	35	55
90-0°	1653	29	45
180-0°	3696	64	100

**LUMINANCE SUMMARY (fL)**

ANGLE	0°	45°	90°
45°	5156	5201	5201
55°	4575	3975	4050
65°	4351	2901	3130
75°	3366	2493	2742
85°	370	987	1357



**CANDLEPOWER SUMMARY**

ANGLE	0	45	90	135	180
180	631	631	631	631	631
175	591	613	629	664	678
165	578	567	617	689	713
155	526	548	580	667	724
145	461	485	521	634	732
135	355	404	441	591	689
125	244	298	347	526	526
115	176	192	243	377	342
105	89	114	135	179	146
95	38	49	31	16	5
90	3	3	4	3	6
85	3	6	26	27	24
75	73	73	94	103	103
65	146	146	170	192	190
55	222	233	260	287	277
45	309	323	352	382	374
35	396	404	441	472	461
25	472	483	517	548	534
15	539	548	576	588	588
5	580	591	603	602	602
0	600	600	600	600	600

**W-ID-4624T8-SGL 61.5% Efficiency**  
Litecontrol Certified Test Report #W-ID-4624T8-SGL.IES

RCC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0			
RCR																		
0	65	65	65	65	59	59	59	59	49	49	49	39	39	39	30	30	30	26
1	59	57	54	52	54	52	50	48	43	41	40	34	33	33	27	26	26	22
2	54	49	46	43	49	45	42	39	37	35	33	30	29	27	24	23	22	19
3	49	43	39	35	45	40	36	33	33	30	28	27	25	23	21	20	18	16
4	45	38	34	30	41	35	31	28	29	26	24	24	22	20	19	17	16	14
5	41	34	29	26	38	31	27	24	26	23	21	21	19	17	17	15	14	12
6	38	31	26	22	35	28	24	21	24	20	18	19	17	15	15	14	12	10
7	35	28	23	19	32	26	21	18	21	18	16	18	15	13	14	12	11	9
8	33	25	20	17	30	23	19	16	20	16	14	16	14	12	13	11	10	8
9	30	23	18	15	28	21	17	14	18	15	12	15	12	11	12	10	9	7
10	28	21	17	14	26	19	16	13	16	13	11	14	11	10	11	9	8	7

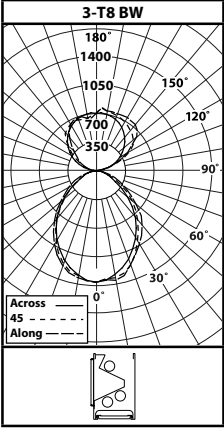
Floor Cavity Reflectance .20

**ZONAL LUMEN SUMMARY**

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	2046	35	57
90-0°	1520	26	43
180-0°	3566	62	100

**LUMINANCE SUMMARY (fL)**

ANGLE	0°	45°	90°
45°	4699	4912	5353
55°	4162	4368	4875
65°	3715	3715	4326
75°	3033	3033	3906
85°	370	740	3208



**CANDLEPOWER SUMMARY**

ANGLE	0	45	90	135	180
180	691	691	691	691	691
175	638	662	698	767	756
165	673	638	679	720	735
155	662	662	640	697	735
145	571	612	574	662	732
135	416	506	489	615	697
125	275	354	385	545	521
115	193	217	275	369	334
105	97	123	152	170	146
95	38	53	28	18	3
90	6	18	7	6	3
85	9	6	18	29	26
75	123	91	101	120	158
65	287	193	198	252	313
55	439	378	375	463	509
45	673	600	615	673	767
35	896	849	842	884	955
25	1118	1083	1042	1107	1116
15	1271	1247	1211	1280	1306
5	1327	1332	1324	1309	1318
0	1342	1342	1342	1342	1342

**W-ID-4634T8-BW 58% Efficiency**  
Litecontrol Certified Test Report #W-ID-4634T8-BW.IES

RCC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0			
RCR																		
0	63	63	63	63	58	58	58	58	50	50	50	42	42	42	35	35	35	32
1	58	55	53	51	54	52	50	48	45	43	42	38	37	36	32	31	31	28
2	53	49	45	43	49	46	43	40	39	37	35	34	32	31	29	27	26	24
3	49	43	39	36	45	40	37	34	35	32	30	30	28	26	26	24	23	21
4	45	39	34	31	41	36	32	29	31	28	26	27	25	23	23	21	20	18
5	41	35	30	27	38	32	28	25	28	25	23	25	22	20	21	19	18	16
6	38	31	27	23	35	29	25	22	26	22	20	22	20	18	19	17	16	14
7	35	28	24	21	33	27	22	20	23	20	18	20	18	16	18	16	14	13
8	33	26	21	18	30	24	20	17	21	18	16	19	16	14	16	14	13	11
9	31	24	19	16	28	22	18	16	20	17	14	17	15	13	15	13	12	10
10	29	22	18	15	27	20	17	14	18	15	13	16	14	12	14	12	11	9

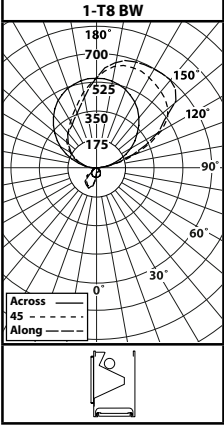
Floor Cavity Reflectance .20

**ZONAL LUMEN SUMMARY**

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	2248	26	45
90-0°	2800	32	56
180-0°	5049	58	100

**LUMINANCE SUMMARY (fL)**

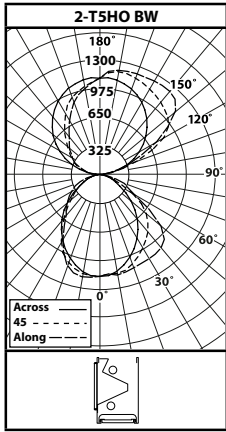
ANGLE	0°	45°	90°
45°	10235	9125	9353
55°	8231	7087	7031
65°	7303	4911	5038
75°	5111	3781	4197
85°	1110	740	2221



**CANDLEPOWER SUMMARY**

ANGLE	0	45	90	135	180
180	549	549	549	549	549
175	491	507	548	594	614
165	385	416	530	649	681
155	323	349	493	653	697
145	286	290	441	629	705
135	243	255	370	598	685
125	194	203	290	534	511
115	144	156	201	370	338
105	81	93	111	176	147
95	34	37	22	12	18
90	2	2	2	3	2
85	2	2	2	6	2
75	6	10	10	10	11
65	11	21	18	22	17
55	19	44	28	26	19
45	57	74	37	30	22
35	112	101	46	34	27
25	124	120	53	34	26
15	116	109	55	30	26
5	81	73	57	29	25
0	53	53	53	53	53

**W-ID-4614T8-B**



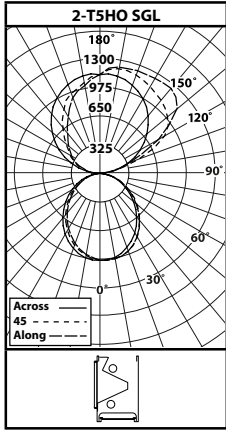
CANDLEPOWER SUMMARY					
ANGLE	0	45	90	135	180
180	1093	1093	1093	1093	1093
175	1044	1051	1103	1161	1177
165	938	970	1068	1186	1211
155	772	867	999	1150	1219
145	605	695	895	1103	1236
135	487	537	761	1044	1211
125	387	412	607	953	947
115	306	314	433	664	526
105	177	206	238	272	218
95	87	96	46	19	13
90	5	7	3	3	3
85	22	19	22	27	34
75	153	98	102	120	195
65	303	202	202	278	353
55	421	338	363	581	686
45	540	507	569	775	1041
35	698	748	760	912	1103
25	971	981	927	1029	1114
15	1154	1104	1063	1127	1146
5	1170	1151	1153	1132	1133
0	1155	1155	1155	1155	1155

W-ID-4624T5HO-BW 68.4% Efficiency																		
Litecontrol Certified Test Report #W-ID-4624T5HO-BWJIES																		
RCC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	72	72	72	72	66	66	66	66	55	55	55	44	44	44	35	35	35	30
1	66	63	61	59	61	58	56	54	48	47	46	39	38	37	31	31	30	26
2	61	56	52	48	55	51	48	45	43	40	38	35	33	32	28	27	26	22
3	55	49	44	40	50	45	41	38	38	35	32	31	29	27	25	23	22	19
4	51	44	38	34	46	40	36	32	34	30	28	28	25	23	22	20	19	16
5	47	39	33	29	43	36	31	28	30	27	24	25	22	20	20	18	17	14
6	43	35	29	26	39	32	27	24	27	24	21	23	20	18	18	16	15	13
7	40	31	26	22	36	29	24	21	25	21	18	21	18	16	17	15	13	11
8	37	29	23	20	34	27	22	19	23	19	16	19	16	14	15	13	12	10
9	34	26	21	18	31	24	20	17	21	17	15	17	15	13	14	12	11	9
10	32	24	19	16	29	22	18	15	19	16	13	16	13	11	13	11	10	8

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	3417	38	56
90-0°	2737	30	45
180-0°	6154	68	100

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	8212	7711	8653
55°	7893	6337	6806
65°	7710	5140	5140
75°	6357	4072	4238
85°	2715	2344	2715



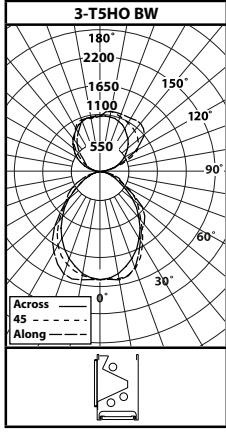
CANDLEPOWER SUMMARY					
ANGLE	0	45	90	135	180
180	1132	1132	1132	1132	1132
175	1084	1111	1144	1194	1211
165	978	1003	1112	1219	1242
155	820	919	1036	1177	1252
145	647	745	932	1119	1267
135	512	572	786	1059	1236
125	404	429	623	959	970
115	312	320	445	687	535
105	179	204	250	279	227
95	87	96	54	27	13
90	5	7	4	2	2
85	21	24	42	47	40
75	124	130	157	176	167
65	240	251	289	319	311
55	368	392	434	481	469
45	508	535	585	640	631
35	650	677	730	785	783
25	781	808	855	906	904
15	894	910	947	977	979
5	965	975	994	998	993
0	993	993	993	993	993

W-ID-4624T5HO-SGL 67.4% Efficiency																		
Litecontrol Certified Test Report #W-ID-4624T5HO-SGLJIES																		
RCC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	71	71	71	71	65	65	65	65	53	53	53	42	42	42	33	33	33	28
1	65	62	59	57	59	56	54	52	47	45	44	37	36	35	29	28	28	24
2	59	54	50	46	54	49	46	43	41	38	36	33	31	30	25	24	23	20
3	54	47	43	39	49	43	39	36	36	33	30	29	27	25	23	21	20	17
4	49	42	37	33	45	38	34	30	32	29	26	26	23	21	20	19	17	15
5	45	37	32	28	41	34	30	26	29	25	22	23	21	19	18	16	15	13
6	42	33	28	24	38	31	26	23	26	22	19	21	18	16	17	15	13	11
7	38	30	25	21	35	28	23	20	23	20	17	19	16	14	15	13	12	10
8	36	27	22	19	32	25	21	18	21	18	15	17	15	13	14	12	10	9
9	33	25	20	17	30	23	19	16	19	16	14	16	13	11	13	11	9	8
10	31	23	18	15	28	21	17	14	18	15	12	15	12	10	12	10	9	7

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	3528	39	58
90-0°	2535	28	42
180-0°	6063	67	100

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	7726	8136	8897
55°	6900	7350	8137
65°	6107	6387	7354
75°	5152	5401	6523
85°	2591	2961	5182



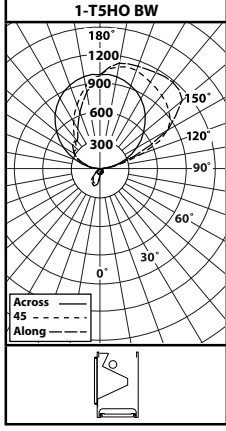
CANDLEPOWER SUMMARY					
ANGLE	0	45	90	135	180
180	1073	1073	1073	1073	1073
175	1056	1082	1085	1160	1160
165	1075	1056	1069	1160	1186
155	952	1056	1004	1114	1186
145	795	874	883	1062	1212
135	606	717	756	1004	1180
125	404	508	600	900	926
115	300	326	430	665	535
105	169	196	235	274	222
95	65	85	36	13	13
90	13	13	10	13	7
85	7	13	26	45	65
75	222	143	156	196	267
65	502	326	326	410	436
55	769	606	603	769	769
45	1082	1036	991	1056	1212
35	1629	1466	1339	1421	1388
25	1975	1805	1658	1838	1760
15	2151	1988	1903	2079	2092
5	2099	2072	2072	2092	2099
0	2093	2093	2093	2093	2093

W-ID-4634T5HO-BW 60% Efficiency																		
Litecontrol Certified Test Report #W-ID-4634T5HO-BWJIES																		
RCC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	65	65	65	65	61	61	61	61	52	52	52	44	44	44	37	37	37	34
1	60	57	55	53	56	54	52	50	46	45	44	40	39	38	33	33	32	29
2	55	51	47	44	51	47	44	42	41	39	37	35	34	32	30	29	28	25
3	50	45	41	37	47	42	38	35	37	34	31	31	29	28	27	25	24	22
4	46	40	35	32	43	37	33	30	33	30	27	28	26	24	24	22	21	19
5	43	36	31	28	40	34	29	26	29	26	24	26	23	21	22	20	18	17
6	39	32	28	24	37	30	26	23	27	23	21	23	21	19	20	18	16	15
7	36	29	25	21	34	28	23	20	24	21	18	21	19	17	18	16	15	13
8	34	27	22	19	32	25	21	18	22	19	16	20	17	15	17	15	13	12
9	32	24	20	17	29	23	19	16	20	17	15	18	15	13	16	14	12	11
10	30	22	18	15	28	21	17	15	19	16	13	17	14	12	15	13	11	10

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	3541	26	44
90-0°	4562	34	56
180-0°	8103	60	100

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	16455	15756	15071
55°	14418	11362	11305
65°	12774	8295	8295
75°	9224	5942	6482
85°	864	1604	3208



CANDLEPOWER SUMMARY					
ANGLE	0	45	90	135	180
180	971	971	971	971	971
175	895	926	977	1036	1051
165	707	786	947	1090	1121
155	535	629	883	1059	1137
145	404	479	785	1012	1161
135	389	356	656	965	1153
125	340	324	515	885	952
115	262	270	361	676	567
105	145	168	194	279	230
95	59	72	36		