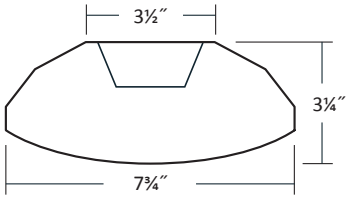
M7 | Linear

PRUDENTIAL LTG.
PRULITE.COM 213.746.0360

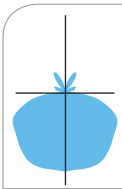
Type:

Job:



A compact linear direct lighting system.

Aluminum radial blade louver is ¾″ high, 1″ on center providing 36° cutoff in the along the long axis. Optional slotted top housing offers a semi-direct distribution for illuminating ceilings. Side perforations are standard on either version. When row-mounting is specified, quick-connect circuit assemblies are supplied.



M7-2T5HO-04-RBL-OL-TMW-D9
4500 Lamp Lumens
120 Input Watts

87%
EFFICIENCY

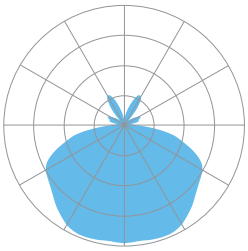
SERIES	LAMP ROWS	NOMINAL LENGTH	SHIELDING	COLOR/ FINISH	DISTRI-BUTION	CIRCUIT-ING	VOLTAGE	MOUNT-ING	CEILING SYSTEMS	OPTIONS
M7										
	2T8 1T5/HO 2T5/HO 3T5/HO	4′ 8′ 12′ R__ (Row length) **Note:** Individual fixtures are not intended for row mounting	RBL Radial Blade Louver (Standard) RBL-OL Radial Blade Louver with Acrylic Overlay (NA T5HO lamp rows or DLH)	TMW Textured Matte White (Standard) YGW Gloss White Y__ Premium Color CC Custom Color GLV Galvanized	D1 Direct D9 Semi-Direct (80/20)	SC Single Circuit DC Dual Circuit (in-line) (2- or 3-Lamp only)	120 277 347 UNV (120-277)	CA48″, 96″ or 144″ Aircraft Cable (Adjustable) SSC_ Top-Swivel Stem Mount (Specify length in inches, for hard ceilings only) SUR Surface Mount	X1 Exposed T-Bar (Standard, NA - SUR or SCC) X3 Hard Ceiling X6 Slot Grid	EML Emergency Battery, Low (600-700 delivered lumens) EMH Emergency Battery, High (1100-1400 delivered lumens) DM Dimming (Specify manufacturer, voltage and other requirements) RSE* Rapid-Start Electronic 10THD* Ballast with <10% Total Harmonic Distortion B__ Specific Ballast (Specify manufacturer and catalog number) FH Fixture Fusing (Slow blow) BSH Longitudinal Body Sway Hanger (Stem-mounting only) WBC White Ballast Cover (For increased luminaire efficiency) IBC Insulated Braided Cord __DLH RightLight™ Daylight Harvesting System (Specify number of sensors per row, RBL only, 2-Lamp only) *T8 only

USA
Prudential Ltg. reserves the right to change design specifications or materials without notice. Please visit www.prulite.com for most current data.
© 2015 All rights reserved – All products manufactured at: Prudential Ltg. 1774 E. 21st Street, Los Angeles, CA 90058

PRUDENTIAL LTG.
PRULITE.COM 213.746.0360

PHOTOMETRICS

M7-2T5HO-04-RBL-OL-TMW-D9
Report #LSI15514
D=80.2% I=19.8%
4500 Lamp Lumens
120 Input Watts



2217

Zonal Lumen Summary:

0-90	69.33	80.16
90-180	17.16	19.84

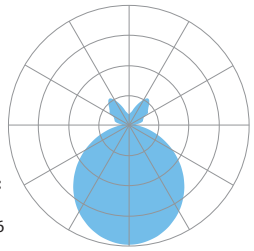
Efficiency = 86.5%

Candlepower Summary

Vertical Angle	0°	22.5°	45°	67.5°	90°
0	2217	2217	2217	2217	2217
5	2181	2188	2190	2205	2204
15	1986	2002	2067	2168	2217
25	1700	1741	1904	2103	2215
35	1364	1436	1660	1913	2081
45	992	1079	1309	1642	1894
55	632	681	936	1383	1759
65	398	420	590	1128	1582
75	207	227	315	719	1093
85	49	90	184	346	347
90	0	60	154	233	145
95	12	54	165	256	205
105	60	94	216	276	289
115	101	234	185	292	342
125	132	379	248	161	170
135	134	348	490	342	269
145	126	234	540	597	579
155	111	126	348	505	553
165	95	93	120	200	233
175	78	76	75	74	72
180	72	72	72	72	72

PHOTOMETRICS

M7-3T5HO-04-RBL-OL-GLV-D9-WBC
Report #LSI16537
D=74.4% I=25.6%
4500 Lamp Lumens
178 Input Watts



2291

Zonal Lumen Summary:

0-90	38.41	74.4
90-180	13.19	25.56

Efficiency = 51.6%

Candlepower Summary

Vertical Angle	0°	22.5°	45°	67.5°	90°
0	2291	2291	2291	2291	2291
5	2246	2243	2264	2286	2283
15	2003	2015	2085	2165	2204
25	1695	1713	1812	1956	2044
35	1364	1384	1499	1680	1823
45	991	1024	1147	1350	1535
55	623	648	782	996	1201
65	329	365	453	640	843
75	116	148	223	350	503
85	19	41	98	176	242
90	0	24	87	141	169
95	6	34	113	170	175
105	44	175	195	268	303
115	75	289	337	332	337
125	112	324	450	457	472
135	141	275	530	586	581
145	160	226	422	563	620
155	179	215	292	398	433
165	191	200	229	253	259
175	1293	194	201	202	206
180	195	195	195	195	195

APPLICATIONS Classrooms, libraries, retail.

CONSTRUCTION The housing, available in 4-, 8- or 12 foot standard lengths, and finish plates are made of 20-gauge steel.

FINISH The standard exterior body color is textured matte white (TMW) or optional gloss white (YGW) using polyester powder paint. Blade louvers, ballast cover, canopies and stems match body finish unless otherwise specified. Galvanized fixtures have pewter canopies and stems when stems are specified, unless otherwise specified.

ELECTRICAL T8 fixtures have instant-start electronic ballasts with less than 20% THD. T5/T5HO fixtures have programmed-start electronic ballasts with less than 10% THD. Fixtures are U.L. Damp labeled (non-emergency) and I.B.E.W. manufactured. Maximum ballast size available: 1.7″ width x 1.18″ height.

MOUNTING Fixture is surface-mounted or suspended with aircraft cables or stems.

USA Prudential Ltg. reserves the right to change design specifications or materials without notice. Please visit www.prulite.com for most current data.
© 2015 All rights reserved – All products manufactured at: Prudential Ltg. 1774 E. 21st Street, Los Angeles, CA 90058

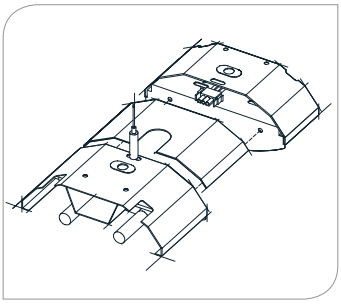
PRUDENTIAL LTG.
PRULITE.COM 213.746.0360

YSL – Silver
YPE – Pewter
YRG – Rain Grey
YST – Storm Grey
YSK – Sky
YDU – Dusk
YSA – Sapphire
YBB – Black
YDA – Daffodil
YSR – Sunset Red
YFG – Forest Green
YSN – Sand
YUM – Umber
YBR – Matte Bronze
YSW - Satin Seashell White
YIB – Matte Interstate Blue
YMB – Satin Military Blue
YBY – Matte Boysenberry
YIG – Satin Ivy Green
YCH – Metallic Champagne 303
YBK – Matte Interior Black Flat

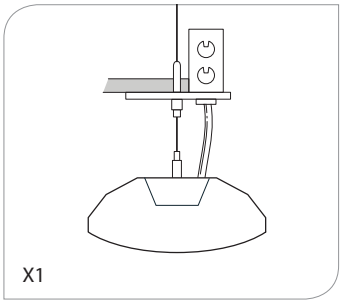
Choose from one of our Premium Colors with no set-up fee.

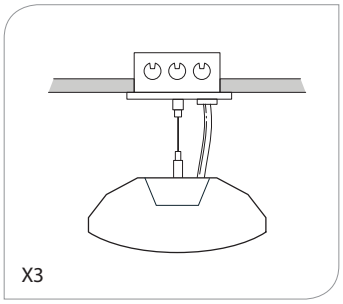
For paint chip samples, please e-mail: **info@prulite.com**

ADJOINING DETAIL



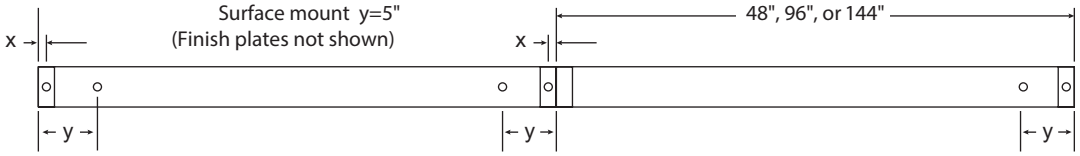
CEILING SYSTEMS





MOUNTING LOCATIONS

Cable mount x=¼"
Power feed mount x=¼"
Stem mount x=1¼"
Surface mount y=5"
(Finish plates not shown)



NOTE: When connecting two or more fixtures in a row, mounting assemblies are required on both ends of the first fixture, with only one mounting assembly required on each fixture.

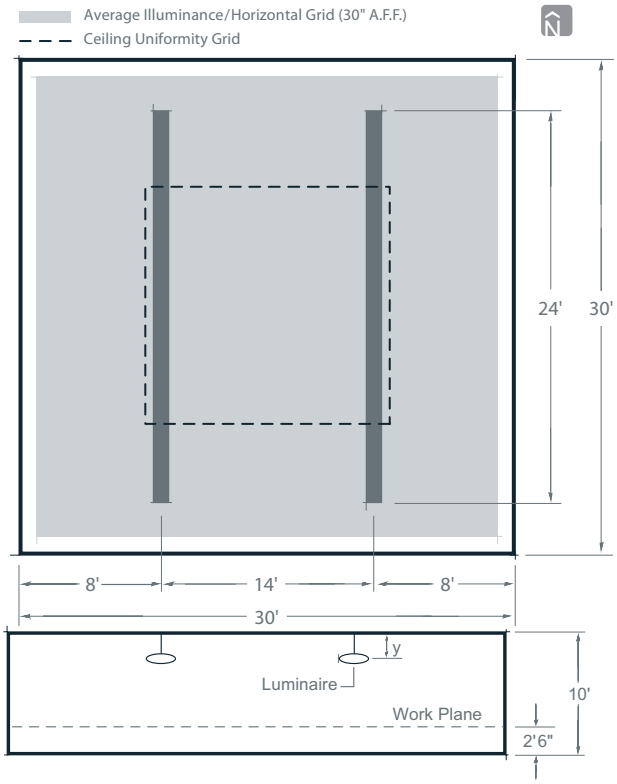
Prudential Ltg. reserves the right to change design specifications or materials without notice. Please visit www.prulite.com for most current data.
© 2015 All rights reserved – All products manufactured at: Prudential Ltg. 1774 E. 21st Street, Los Angeles, CA 90058

PRUDENTIAL LTG.
PRULITE.COM 213.746.0360

CLASSROOM APPLICATION

30′ x 30′ x 10′ Classroom Layout

Reflectances used: 80/50/20
Average Illuminance/Horizontal Grid (30" A.F.F.)
Ceiling Uniformity Grid



2 Rows on 14′ Centers – M7-2T5-RBL-OL-TMW-D9

Overall Suspension Ceiling to center of lamp	Average Illuminance Maintained (LLF = .85)	North Wall Average Maintained (LLF = .85)	Ceiling Uniformity Between fixtures	Watts/ Square Foot
12″	47.9 FC	24.7 FC	N/A	.84
18″	49.5 FC	24.6 FC	N/A	.84
24″	51.2 FC	24.3 FC	N/A	.84

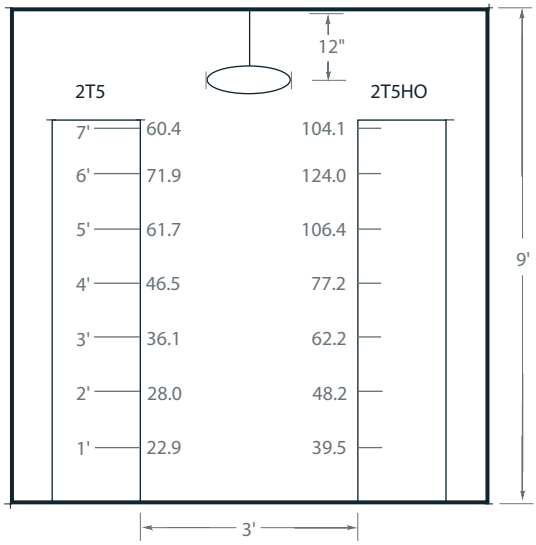
2 Rows on 14′ Centers – M7-2T5HO-RBL-OL-TMW-D9

Overall Suspension Ceiling to center of lamp	Average Illuminance Maintained (LLF = .85)	North Wall Average Maintained (LLF = .85)	Ceiling Uniformity Between fixtures	Watts/ Square Foot
12″	88.6 FC	33.1 FC	N/A	1.57
18″	89.1 FC	31.5 FC	N/A	1.57
24″	89.5 FC	30.3 FC	N/A	1.57

STACK LIGHTING APPLICATION

10′ x 20′ x 9′ Room Dimensions

Reflectances used: 80/50/20
16' x 7' Stack Dimensions
Reflectance used: 20%
Average Illuminance/Vertical Grid



16′ Single Fixture – M7-2T5-RBL-OL-TMW-D9 — Vertical Footcandles

Overall Suspension Ceiling to center of lamp	Average Illuminance Maintained (LLF = .85)	Max FC	FC's 1′ A.F.F.
12″	42.3 FC	71.9	22.9

16′ Single Fixture – M7-2T5HO-RBL-OL-TMW-D9 — Vertical Footcandles

Overall Suspension Ceiling to center of lamp	Average Illuminance Maintained (LLF = .85)	Max FC	FC's 1′ A.F.F.
12″	72.9 FC	124	39.5

Prudential Ltg. reserves the right to change design specifications or materials without notice. Please visit www.prulite.com for most current data.
© 2015 All rights reserved – All products manufactured at: Prudential Ltg. 1774 E. 21st Street, Los Angeles, CA 90058