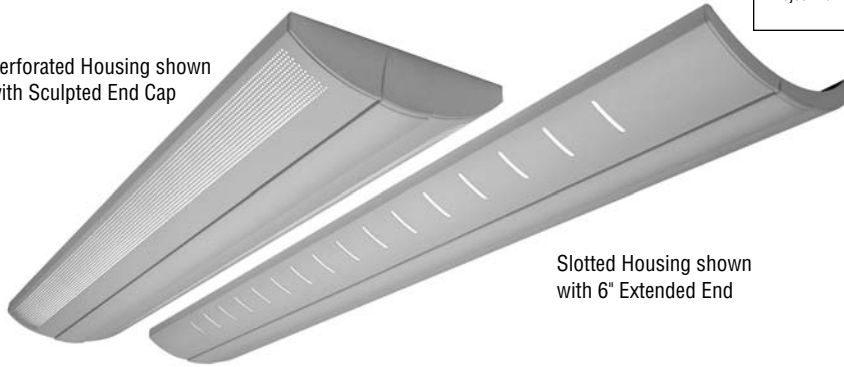


Luminata Series™

Perforated Housing shown
with Sculpted End Cap



Slotted Housing shown
with 6" Extended End

Catalog Number

Type

Project Name

LMS02

10" x 2 3/4" Indirect
(T8, T5 or T5HO Lamps)

S P E C I F I C A T I O N S

Housing

- (PH) Perforated Housing - Two-piece .070" thick extruded aluminum with perforated hole pattern on each side. Perforations to be .125" on .185" staggered centers and backed with a translucent white acrylic diffuser.
- (SL) Slotted Housing - Two-piece .070" thick extruded aluminum with slotted hole pattern on each side. Slots to be 1/4" wide by 1 7/8" long on 3" centers and backed with a translucent white acrylic diffuser.
- (SH) Solid Housing - Two-piece .070" thick extruded aluminum.

End Caps

- (SE) Sculpted End - .090" thick die-cast aluminum finished to match fixture housing and secured with no visible fasteners.
- (XE) Extended End - 6" extension of extruded aluminum housing with a .125" low profile die cast aluminum end cap finished to match fixture housing and secured with no visible fasteners.

Finish

Standard and premium finishes are baked powder coat electrostatically applied (2.0 mil minimum thickness) to assure aesthetics and durability. Standard finish for stems and canopies is white.

Reflectors

- (WR) Die-formed from .020" thick aluminum and finished with a high reflectance white enamel.
- (SR) Die-formed from .020" thick high reflectance specular aluminum.

Ballast

Standard ballasts for T5 and T5HO lamps are UL/CUL listed, Class P, HPF, electronic, universal 120/277volt, programmed rapid start with <10% THD.

Standard ballasts for T8 lamps are UL/CUL listed, Class P, HPF, electronic, universal 120/277volt, instant start with <10% THD.

Circuitry

All fixtures are factory pre-wired for a single circuit. Provision for multiple switching/circuiting is optional.

Wiring

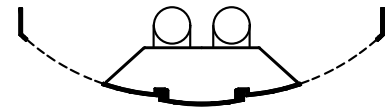
All fixtures intended for continuous rows are provided with factory installed quick-connect wiring.

Controls

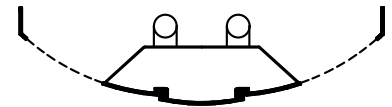
Contact factory for daylight and/or occupancy sensor controls.

Certification

All fixtures are UL/CUL listed for use in "Dry Applications". "Damp Location" is optional.



T8



T5 or T5HO

Standard Lengths:
4", 8" and 12"

For Continuous Rows
see Note below

Mounting

CT = Cable (15/16" Tbar) Fully Adjustable (36" Standard)
CN = Cable (Non-Tbar) Fully Adjustable (36" Standard)
P = Rigid Stem (Up to 48" Standard)
K = Swivel Stem (Up to 48" Standard)

Series
LMS02

LMS02-PH-XE-WR-12-CT-FO1M-V-T8-[]

Housing Style

PH
Perforated
SH
Solid
SL
Slotted

End Caps

SE
Sculpted End
XE
6" Extended End

Reflector

WR
White
SR
Specular

Standard Finishes

F01M Matte White
Premium Finishes
F01G Gloss White
F02 Ivory
F03 Stonewash
F04 Camel
F05 Gray Day
F06 Pebble Beach
F07 Steel
F08 Gray Seal
F09 Mocha
F10 Bronzed
F11 Black
F12 Ultrasonic Clear
F13 Merlot
F14 Red Skies
F15 Lemon
F16 Forest Hunter
F17 Olive
F18 Khaki
F19 Heather Green
F20 Blue Print
F21 Reflex Blue
F22 Navy
FCC Custom Color

Voltage

120
277
347

Lamp Type

T8
T5
T5HO

Options

SS-L/R (Left/Right)
Lamp Row Switching
(Common Neutral Utilized)
NLCKT
Separate Night Light Circuit
EMCKT
Separate Emergency Circuit
EBPL
Emergency Battery Pack
(635-700 Lumens)
EBPH
Emergency Battery Pack
(975-1325 Lumens)
Dim
Dimming
FS
Fused Ballasts
GTD
Generator Transfer Device
DC
Clear Extruded 100% DR
Acrylic Dust Cover
DL
Damp Location

Note: For continuous rows over
12' specify nominal row length
in 1' increments.



Precision Architectural Lighting 4830 Timber Creek Drive Houston, Texas 77017
Tel 713.946.4343 Fax 713.946.4441 www.pal-lighting.com

LMS02

10" x 2 11/16" Indirect/Perforated Side Panels

T8 Lamps

Catalog Number: LMS02-PH-SE-SR-4-X-F01-120-T8

Report Number: LTL#06452.ies

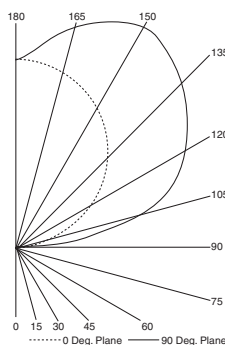
Luminaire Description: Extruded Aluminum Housing
with Cast Aluminum End Caps
Specular Aluminum Reflector
Open Top

Lamps: Two Philips F32T8/TL841
Rated at 2850 Lumens Each

Total Luminaire Efficiency = 83.2%

97% Up 3% Down

RP-1 Compliant



CANDELA DISTRIBUTION						LUMENS	
	0.0	22.5	45.0	67.5	90.0		
0	43	43	43	43	43		
5	45	45	44	44	43	4	
15	40	39	40	41	41	11	
25	37	38	40	40	40	19	
35	32	33	35	41	40	23	
45	26	25	34	34	36	24	
55	16	19	25	29	32	22	
65	9	15	17	24	24	18	
75	6	7	10	16	16	13	
85	0	3	8	9	9	6	
90	0	5	8	11	13		
95	40	154	183	189	191	177	
105	187	394	570	634	637	526	
115	352	596	760	870	908	709	
125	510	786	936	1024	1064	791	
135	653	909	1089	1165	1194	789	
145	769	981	1171	1260	1284	696	
155	864	1006	1158	1242	1274	517	
165	927	998	1089	1148	1169	304	
175	960	970	992	1003	1010	95	
180	963	963	963	963	963		

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	50	30	10	0
0	80	80	80	80	69	69	69	69	48	48	48	28	28	28	11	11	11	2			0
1	73	69	66	63	62	60	57	55	41	40	39	25	24	23	9	9	9	2			2
2	66	60	56	52	57	52	48	45	36	34	32	22	20	19	8	8	7	2			2
3	60	53	47	43	51	46	41	37	32	29	27	19	18	16	7	7	6	1			1
4	55	47	41	36	47	40	35	31	28	25	23	17	15	14	6	6	5	1			1
5	50	41	35	31	43	36	31	27	25	22	19	15	13	12	6	5	5	1			1
6	46	37	31	26	39	32	27	23	22	19	16	13	12	10	5	4	4	1			1
7	42	33	27	23	36	28	23	20	20	17	14	12	10	9	5	4	3	1			1
8	39	30	24	20	33	26	21	17	18	15	12	11	9	8	4	4	3	1			1
9	36	27	21	17	31	23	18	15	16	13	11	10	8	7	4	3	3	1			1
10	34	24	19	15	29	21	16	13	15	12	10	9	7	6	3	3	2	0			0

QUICK SELECTION TABLE

Number of 4' luminaires required for initial illumination of 50 footcandles

Luminaire suspension length = 18" Working Plane Height = 30" Floor Reflectance = .20

Room HT		8				9				10				12			
Ceil RF		80		70		80		70		80		70		80		70	
Wall RF		70	50	50	30	70	50	50	30	70	50	50	30	70	50	50	30
Width Length																	
10.	10.	2	2	3	3	2	3	3	3	2	3	3	4	3	3	4	5
10.	15.	3	3	4	4	3	3	4	4	3	4	4	5	4	4	5	6
15.	20.	5	5	6	6	5	5	6	7	5	6	7	7	6	7	8	9
15.	30.	6	7	8	9	7	7	9	9	7	8	9	10	8	9	10	12
20.	20.	6	6	7	8	6	7	8	8	6	7	8	9	7	8	9	10
20.	30.	8	9	10	11	9	9	11	12	9	10	11	12	10	11	13	14
20.	40.	11	11	13	14	11	12	14	15	11	12	14	16	12	14	16	18
20.	60.	15	16	19	20	16	17	20	21	16	18	21	22	17	20	23	25
30.	30.	12	12	14	15	12	13	15	16	12	14	16	17	13	15	17	19
30.	40.	15	16	19	19	16	17	19	20	16	17	20	21	17	19	22	23
30.	50.	19	20	23	24	19	20	24	25	20	21	24	26	21	23	26	28
30.	60.	22	23	27	28	23	24	28	29	23	25	29	30	24	27	31	33
60.	60.	43	44	51	52	43	45	52	54	44	46	54	56	45	48	56	59
60.	80.	56	58	67	69	57	59	68	70	58	60	70	72	59	63	73	76
60.	100.	70	71	83	85	71	73	85	87	72	74	86	89	73	77	90	94
100.	100.	115	117	136	138	116	118	137	140	117	120	139	143	119	123	143	148

T5H0 Lamps

Catalog Number: LMS02-PH-SE-SR-4-X-F01-120-T5H0

Report Number: LTL#06406.ies

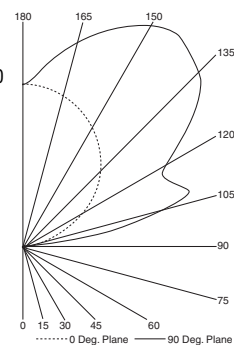
Luminaire Description: Extruded Aluminum Housing
with Cast Aluminum End Caps
Specular Aluminum Reflector
Open Top

Lamps: Two Sylvania FP54/830/HO
Rated at 4400 Lumens Each

Total Luminaire Efficiency = 85.5%

97% Up 3% Down

RP-1 Compliant



CANDELA DISTRIBUTION						LUMENS	
	0.0	22.5	45.0	67.5	90.0		
0	67	67	67	67	67		
5	68	68	68	67	67	6	
15	63	62	62	63	63	18	
25	55	55	56	60	64	27	
35	45	48	52	58	59	32	
45	34	36	45	51	52	34	
55	20	27	34	41	42	30	
65	12	18	24	32	36	25	
75	8	11	18	24	26	18	
85	3	5	10	13	18	10	
90	0	5	6	11	13		
95	49	292	274	238	223	268	
105	260	609	980	1245	1248	920	
115	496	1013	1147	1219	1321	1075	
125	715	1262	1617	1665	1660	1281	
135	916	1410	1849	2016	2070	1306	
145	1082	1465	1869	2106	2182	1109	
155	1212	1467	1767	1960	2021	788	
165	1302	1425	1596	1706	1745	444	
175	1350	1364	1403	1427	1436	135	
180	1348	1348	1348	1348	1348		

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	82	82	82	82	70	70	70	70	49	49	49	29	29	29	11	11	11	2
1	75	71	68	65	64	61	59	56	42	41	40	25	24	24	9	9	9	2
2	68	62	57	53	58	53	49	46	37	35	33	22	21	20	8	8	8	2
3	62	54	49	44	53	47	42	38	33	30	27	19	18	17	7	7	6	1
4	56	48	42	37	48	41	36	32	29	26	23	17	16	14	6	6	5	1
5	51	42	36	31	44	37	31	27	26	22	20	15	13	12	6	5	5	1
6	47	38	31	27	40	33	27	23	23	19	17	14	12	10	5	5	4	1
7	43	34	28	23	37	29	24	20	20	17	15	12	10	9	5	4	3	1
8	40	30	24	20	34	26	21	18	18	15	13	11	9	8	4	4	3	1
9	37	28	22	18	32	24	19	15	17	13	11	10	8	7	4	3	3	1
10	35	25	19	16	30	22	17	14	15	12	10	9	7	6	3	3	2	0

QUICK SELECTION TABLE

Number of 4' luminaires required for initial illumination of 50 footcandles

Luminaire suspension length = 18" Working Plane Height = 30" Floor Reflectance = .20

Room HT		8				9				10				12			
Ceil RF		80		70		80		70		80		70		80		70	
Wall RF		70	50	50	30	70	50	50	30	70	50	50	30	70	50	50	30
Width Length																	
10.	10.	2	2	2	2	2	2	2	2	2	2	2	3	2	2	3	3
10.	15.	2	2	2	3	2	2	3	3	2	3	3	3	2	3	3	4
15.	20.	3	3	4	4	3	4	4	4	3	4	4	5	4	4	5	6
15.	30.	4	5	5	6	4	5	6	6	5	5	6	7	5	6	7	8
20.	20.	4	4	5	5	4	4	5	5	4	5	5	6	5	5	6	7
20.	30.	5	6	7	7	6	6	7	7	6	6	7	8	6	7	8	9
20.	40.	7	7	8	9	7	8	9	9	7	8	9	10	8	9	10	11
20.	60.	10	11	12	13	10	11	13	13	11	12	13	14	11	12	14	16
30.	30.	8	8	9	10	8	8	10	10	8	9	10	11	9	9	11	12
30.	40.	10	10	12	12	10	11	12	13	10	11	13	14	11	12	14	15
30.	50.	12	13	15	15	12	13	15	16	13	13	16	17	13	14	17	18
30.	60.	14	15	17	18	15	15	18	19	15	16	18	19	16	17	20	21
60.	60.	27	28	32	33	27	29	33	34	28	29	34	35	29	31	35	37
60.	80.	36	37	42	43	36	37	43	45	37	38	44	46	38	40	46	48
60.	100.	44	45	53	54	45	46	54	55	45	47	55	56	47	49	57	59
100.	100.	72	74	86	87	73	75	87	89	74	76	88	90	75	78	91	94