

# Paladia Suspended Series™

Catalog Number	Type
Project Name	



## PLDS01

**7" x 2 1/2" Indirect/Direct (T5 or T5HO Lamps) Stepped, Rounded or Classical Profile**

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

#### Housing

Two-piece .060" thick extruded aluminum. Die-cast aluminum end plates are secured with no visible fasteners. Standard lengths are 4' and 8'. Provisions may be made for patterns and continuous rows of any length.

#### Finish

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

#### Indirect Optical Control

- (OP) Open
- (DC) Clear extruded 100% DR acrylic dust cover

#### Direct Optical Control

- (PB) 1 3/8" deep specular parabolic baffle with blades on 2 1/2" centers
- (PBW) 1 3/8" deep white aluminum parabolic baffle with blades on 2 1/2" centers

#### Reflectors

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.

#### Circuitry

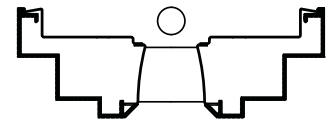
All fixtures are factory pre-wired for a single circuit. Provision for multiple switching/circuiting is optional.

#### Controls

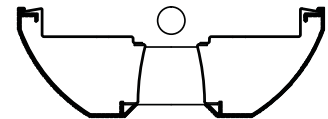
Contact factory for control by Occupancy Sensors, Photo Controls and Daylight Harvesting.

#### Certification

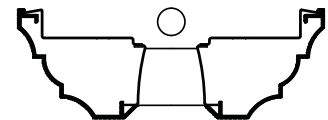
All fixtures are UL/CUL listed for use in 'Dry Applications'. 'Damp Location' is optional.



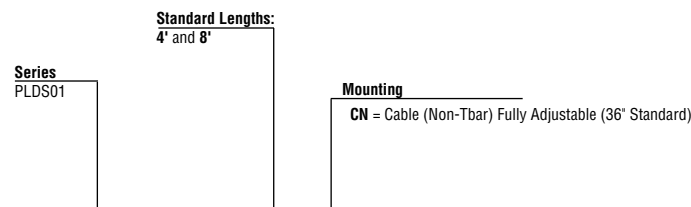
PLDS01-ST



PLDS01-RD



PLDS01-CL



**Note:** For companion Wall Mounts see Paladia Perimeter Section.

## PLDS01-RD-8-CN-OP/PB-F01M-V-T5HO-[ ]

Style	Indirect Optical Control	Direct Optical Control	Standard Finishes	Voltage	Lamp Type	Options
CL Classical	OP Open	PB Specular Parabolic Baffle	F01M Matte White F01G Gloss White	120	T5	NLCKT Separate Night Light Circuit
RD Rounded	DC Clear Dust Cover (N/A for T5HO)	PBW White Parabolic Baffle	<b>Premium Finishes</b> 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	277 347	T5HO	EMCKT Separate Emergency Circuit EBPL Emergency Battery Pack (635-700 Lumens) EBPH Emergency Battery Pack (975-1325 Lumens)
ST Stepped			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			Dim Dimming FS Fused Ballasts GTD Generator Transfer Device AO White Acrylic Baffle Overlay (For Lowest Brightness and Highest Efficiency)

To view Wood Grain, Marble and Granite Finishes on our Website see "Products"-"Specialty Finishes".



# PLDS01

## 7" x 2 1/2" Indirect/Direct (T5HO Lamp)

### Specular Aluminum Baffle with Acrylic Overlay

Catalog Number: PLDS01-CL-4-PB-F01-120-T5HO-A0

Report Number: LTL#05645.ies

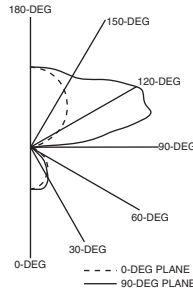
Luminaire Description: Extruded Aluminum Housing, Formed Semi-Specular Reflector, 18 Cell, 1.25" Deep Specular Aluminum Baffle with Translucent White Acrylic Overlay. Open Top.

Lamps: One Sylvania FP54/841/HO rated at 4400 lumens.

Total Luminaire Efficiency = 93.2%

84% Up 16% Down

RP-1 Compliant



### Specular Aluminum Baffle without Acrylic Overlay

Catalog Number: PLDS01-CL-4-PB-F01-120-T5HO

Report Number: LTL#05756.ies

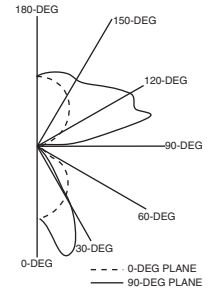
Luminaire Description: Extruded Aluminum Housing, Formed Semi-Specular Reflector, 18 Cell, 1.25" Deep Specular Aluminum Baffle. Open Top.

Lamps: One Sylvania FP54/841/HO rated at 4400 lumens.

Total Luminaire Efficiency = 90.5%

73% Up 27% Down

RP-1 Compliant



### CANDELA DISTRIBUTION LUMENS

	0.0	22.5	45.0	67.5	90.0	
0	339	339	339	339	339	
5	337	337	342	342	340	32
15	321	325	338	347	351	95
25	293	303	323	328	331	146
35	255	271	278	254	247	164
45	202	223	183	161	160	145
55	154	143	83	31	9	76
65	3	0	0	0	0	4
75	0	0	0	0	0	0
85	0	0	0	0	0	0
90	0	0	0	0	0	0
95	20	220	336	366	367	266
105	104	336	666	915	988	630
115	213	360	679	935	1009	637
125	324	407	619	818	895	550
135	424	475	578	711	769	457
145	508	534	596	646	672	372
155	575	587	620	646	656	285
165	619	618	634	641	647	179
175	643	635	642	637	637	61
180	640	640	640	640	640	

### CANDELA DISTRIBUTION LUMENS

	0.0	22.5	45.0	67.5	90.0	
0	530	530	530	530	530	
5	530	538	559	569	575	54
15	502	568	740	832	848	198
25	461	655	760	711	682	307
35	395	643	501	247	207	265
45	318	442	138	87	76	166
55	215	131	50	40	13	76
65	7	3	2	1	1	5
75	0	0	0	0	0	0
85	0	0	0	0	0	0
90	0	0	0	0	0	0
95	15	208	271	320	326	226
105	85	273	531	805	898	539
115	172	294	557	756	799	517
125	264	350	513	677	739	458
135	344	418	498	602	646	391
145	416	464	536	573	587	326
155	472	499	550	584	592	251
165	514	523	544	558	567	154
175	532	532	535	534	533	51
180	532	532	532	532	532	

### 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	92	92	92	92	81	81	81	81	60	60	60	41	41	41	23	23	23	15
1	85	81	78	75	74	71	69	66	53	52	50	37	36	35	21	21	21	14
2	77	71	66	62	68	63	59	55	47	45	42	33	31	30	20	19	18	12
3	71	63	57	52	62	56	51	47	42	39	36	30	28	26	18	17	16	11
4	65	56	49	44	57	50	44	40	38	34	31	27	24	23	16	15	14	10
5	60	50	43	38	52	44	39	34	34	30	27	24	22	20	15	14	13	9
6	55	45	38	33	48	40	34	30	30	26	23	22	19	17	13	12	11	8
7	51	40	33	29	44	36	30	26	27	23	20	20	17	15	12	11	10	7
8	47	36	30	25	41	32	27	23	25	21	18	18	15	13	11	10	9	6
9	43	33	26	22	38	29	24	20	22	18	16	16	13	12	10	9	8	5
10	40	30	23	19	35	27	21	18	20	17	14	15	12	10	9	8	7	5

### 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	92	92	92	92	82	82	82	82	64	64	64	47	47	47	32	32	32	24
1	85	81	78	76	76	73	71	68	57	56	54	43	42	41	29	29	29	23
2	78	72	68	64	70	65	61	58	51	49	47	39	37	36	27	26	26	21
3	72	65	59	54	64	58	53	50	46	43	41	35	33	32	25	24	23	19
4	66	58	52	47	59	52	47	43	42	38	35	32	30	28	23	22	21	17
5	61	52	45	41	55	47	42	37	38	34	31	29	27	25	21	20	19	16
6	57	47	40	36	51	43	37	33	34	30	28	27	24	22	20	18	17	14
7	52	42	36	31	47	39	33	29	31	27	24	25	22	20	18	17	15	13
8	48	38	32	28	44	35	29	26	28	24	22	22	20	18	17	15	14	12
9	45	35	29	24	40	32	26	23	26	22	19	20	18	16	15	14	12	10
10	42	32	26	22	38	29	24	20	24	20	17	19	16	14	14	12	11	9

### 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		
	70	50	50	30	70	50	50	30	70	50	50	30	70	50	50	30	70	50	50
10. 10.	2	3	3	3	2	3	3	3	3	3	3	4	3	4	4	5	5	6	6
10. 15.	3	3	4	4	3	4	4	4	3	4	4	5	4	5	5	6	6	7	8
15. 20.	5	5	6	7	5	6	7	7	6	6	7	8	6	7	8	9	9	10	11
15. 30.	7	8	9	9	7	8	9	10	8	9	10	11	8	10	11	12	12	13	14
20. 20.	6	7	8	8	7	7	8	9	7	8	9	9	7	9	10	11	11	12	13
20. 30.	9	10	11	11	9	10	11	12	10	11	12	13	10	12	13	15	15	16	17
20. 40.	12	12	14	15	12	13	15	16	12	14	15	16	13	15	17	18	18	19	20
20. 60.	17	18	20	21	18	19	21	22	18	20	22	24	19	21	24	26	26	27	28
30. 30.	13	14	15	16	13	14	16	17	14	15	17	18	14	16	18	20	20	21	22
30. 40.	17	18	20	21	17	18	21	22	18	19	21	23	19	20	23	25	25	26	27
30. 50.	21	22	25	26	21	22	25	27	22	23	26	28	23	25	28	30	30	31	32
30. 60.	25	26	29	30	25	27	30	31	26	27	31	33	27	29	33	35	35	36	37
60. 60.	47	49	55	57	48	50	57	58	49	51	58	60	50	53	60	63	63	64	65
60. 80.	63	64	73	74	63	65	74	76	64	67	76	78	66	69	79	82	82	83	84
60. 100.	78	80	90	92	79	81	92	94	80	82	94	96	82	85	97	101	101	102	103
100. 100.	128	130	148	150	129	132	150	152	130	133	152	155	132	137	156	160	160	161	162

### 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		
	70	50	50	30	70	50	50	30	70	50	50	30	70	50	50	30	70	50	50
10. 10.	2	2	3	3	2	3	3	3	3	3	3	4	3	3	4	4	4	4	4
10. 15.	3	3	4	4	3	4	4	4	3	4	4	5	4	4	5	5	6	6	7
15. 20.	5	5	6	6	5	6	6	7	5	6	6	7	6	7	7	8	8	9	9
15. 30.	7	8	8	9	7	8	9	9	7	8	9	9	8	9	10	11	11	12	12
20. 20.	6	7	7	8	7	7	8	8	7	8	8	9	7	8	9	10	10	11	11
20. 30.	9	10	11	11	9	10	11	12	9	10	11	12	10	11	12	13	13	14	14
20. 40.	12	12	14	14	12	13	14	15	12	13	14	15	13	15	16	17	17	18	18
20. 60.	17	18	20	21	17	19	21	22	18	19	21	22	18	19	21	23	23	24	25
30. 30.	13	14	15	16	13	14	16	16	14	15	16	16	14	15	16				