

Latitude – C

P-ID-93M

Pendant-Mounted Indirect/Direct

Product Description

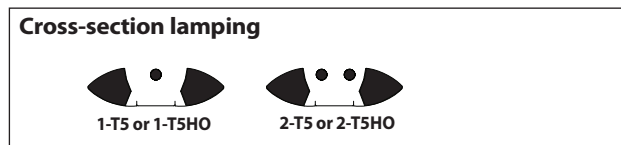
Latitude-C is a small-scale extruded aluminum pendant indirect/direct fixture with an upper and lower curve that meet to form a central ridge. UL Listed. This fixture is Cradle to Cradle Silver Certified^{CM} by MBDC.

CSTM Control Solutions available

Ordering Guide

Product, Lamping, & Length						Options						
P -	ID -	93M	4	8	T5HO -	BW -	TCWM -	LP/ELB -	TW -	2CWQ -	LP/EF -	120
Mounting	Distribution	Series	Lamp Count	Nominal Length(ft)	Lamp Type	Diffuser	Finish	Ballast	Tandem Wiring	Circuiting	Other Options	Volts
P Pendant-Mounted	ID Indirect/Direct	93M	1, 2	4	T5HO T5	BW SGL VC1 see Diffuser	TCWM (Textured Matte White) is standard see LiteColors TM for other finishes	LP/ELB is standard LPD/CS/e LPD/D10 LPD/MK7 see Ballast Options	-- →	1CWQ	CS/dlh* ECS F LK LP/EF see Other options	120 277
			→	8					TW →	2CWQ		
			2, 4	12								
			→									
			3, 6									
			→									
Mounting Options - add to end of order number Aircraft Cables <input type="checkbox"/> FAI/ACC (field adjustable) standard			<p>notes: Lamp Count = total number of lamps in the fixture For Ordering guide information in shaded areas, choose selection by reading ACROSS the shaded areas for correct specifications. *Must include a dimming ballast (LPD/ELB). See next page for details.</p>									

P-ID-93M48T5HO-BW-TCWM-LP/ELB-TW-2CWQ-LP/EF-120-FAI/ACC is a typical catalog number for a 4-lamp (2 lamps in cross-section), 8-foot long T5HO fixture with blade white baffle, textured matte white finish, low-profile electronic ballast, pre-wired with two-circuit branch wiring and quick-connects, low-profile emergency fluorescent ballast, 120 volts, mounted with field adjustable aircraft cables.



Baffle & Diffuser Options

- BW** Blade White baffles with matte white finish.
- SGL** Soft Glow Lens made of extruded frosted acrylic.
- VC1** VCOptic lens. Microstructure film overlay on a clear grooved lens that follows contour of fixture housing.

Other Options **CS**^{dlh}

- CS/dlh** Daylight harvesting solution. See next page for details.
- ECS** End Cap Sculpted. Die-cast aluminum sculpted end caps with no exposed fasteners.
- F** Fuse. Slow or fast blow, determined by Litecontrol.
- LK** Lens kit dust cover.
- LP/EF** Low-profile Emergency Fluorescent Ballast. Battery-powered ballast from a UL Listed manufacturer will operate one lamp for 1 1/2 hours.

Ballast Options **CS**^e

- To have the fixture enabled for Lutron EcoSystem compatibility:**
- LPD/CS/e** EcoSystem low-profile dimming electronic ballasts installed at the factory, along with all required internal EcoSystem wiring. For other configurations of the Lutron EcoSystem components, including custom device connection feeds to enable connection to ceiling-mounted sensors and control devices, consult litecontrol.com/cs or contact the factory.
- LPD/D10** Universal Lighting Technologies dimming ballast (T5)
- LPD/MK7** Advance Mark VII dimming ballast (T5HO)

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 in-line lamps are switched separately.

Questions to Ask

1. Row information, including desired fixture lengths?
2. Lamp type? 3. Ballast options?
4. Controls solutions? 5. Other options? 6. 120 or 277 volt?

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Quick Find 93M

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To have the fixture supplied with the daylight harvesting control solution:

Add – **CS/dlh** to the ordering code to have a fixture-integrated daylight sensor by Watt Stopper installed at the factory, along with the appropriate electronic dimming ballast and internal wiring. For row-configured installations, one fixture integrated daylight sensor controls the entire row. Contact factory for details.

Example of Control Solutions catalog number

P-ID-93M48T5HO-SGL-TCWM-LPD/ELB-1CWQ-CS/dlh-120-FAI/ACC is the catalog number for a 4-lamp (2 lamp in cross-section) 8-foot long indirect/direct T5HO fixture with a soft glow lens, finished textured matte white, with low-profile electronic dimming ballast, one-circuit branch wiring and quick connects, includes daylight harvesting control solution (daylight sensor), 120 volts, mounted with field adjustable aircraft cable.

Specifications

HOUSING. Two-sided housing, 6063 T5 extruded aluminum.

END CAPS. Required at each end of row and at both ends of an individual fixture. Flat end caps are standard; of 11-gauge steel, no holes or knockouts.

ECS option: die-cast sculpted end caps with no exposed fasteners. All end caps are finished to match housing.

UPPER SIDE REFLECTORS. Die-formed specular anodized aluminum.

LAMPING. Available in one- and two-lamp T5HO cross-sections. Lamp access/replacement from above. Removal of baffle is not required.

BALLAST. Low-profile Ballast (**LP/ELB**), electronic, 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 from Ordering Guide, fixtures wired to switch in-line lamps separately, providing two or three (three-lamp cross-section fixtures only) levels of light.

CIRCUITING. 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 to accommodate special circuits such as night light and emergency, etc., in-field wiring will be required. See Pre-wiring Information for details.

BALLAST DISCONNECT. Fixture supplied with a ballast disconnect device to enable compliance with the NEC.

ROW JOINING. Dowel pins are used to support fixture ends for easier row joining. Fixture end headers are threaded in two locations to allow row joining without removing reflectors. Suspension points for row-joined fixtures are offset 3/8" from the fixture seam; see figure below.

SUSPENSION. Aircraft cables attach to fixture using Litecontrol's easy-hang system. **FAI/ACC** field adjustable 51" is standard. See Aircraft Cables in the Litecontrol Product Guide for details.

CERTIFICATION. Fixture and electrical components are UL and/or CUL Listed (UL LISTED), and bear the I.B.E.W., A.F. of L. label. This fixture is Cradle to Cradle Certified^{CM} Silver by MBDC. Note: Litecontrol reserves the right to change specifications without notice for product development and improvement.

Planning for Installation

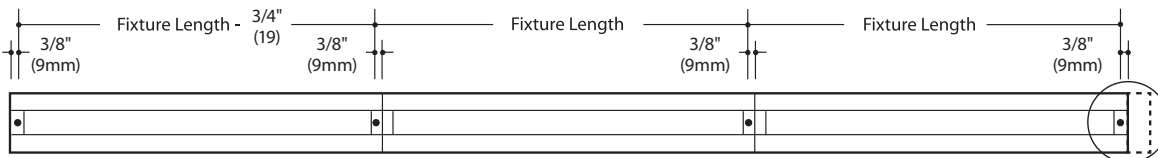
Suspension Assemblies

Provided with 3/64" diameter field adjustable aircraft cables (**FAI/ACC**) in 51" lengths (4' nominal). Longer length aircraft cables of 87" and 219" are available upon request. See Aircraft Cables sheet for further details.

Suspension Mounting Locations

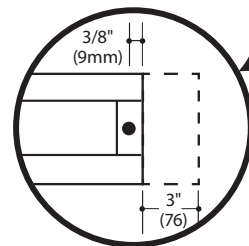
Pendant locations at ends of rows (or individual fixtures) are 3/8" in from fixture ends. Pendant attachment allows for horizontal adjustment to "fine-tune" side-to-side leveling.

Row diagram

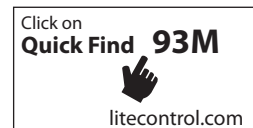


Fixture Lengths: 4', 8', 12'
● Indicates pendant locations

Optional **ECS** (sculpted) end cap adds 3" length to each end of row or individual fixture.



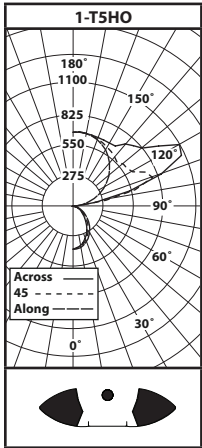
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781 294 0100 f: 781 293 2849 litecontrol.com



Cradle to Cradle Certified^{CM} is a certification mark of MBDC.

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Photometric Data 1-T5HO



CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	
180	666	666	666	666	666	666
175	675	672	671	671	668	
165	654	654	658	665	661	
155	614	615	631	652	655	
145	551	562	600	643	663	
135	466	489	563	733	770	
125	369	413	594	837	943	
115	260	358	724	1051	1080	
105	143	363	579	575	531	
95	32	116	56	27	21	
90	1	4	2	2	2	
85	10	11	10	8	6	
75	44	44	37	36	34	
65	86	82	72	65	61	
55	135	133	116	104	99	
45	199	191	174	154	146	
35	262	253	236	221	212	
25	321	312	302	292	285	
15	365	359	354	348	343	
5	387	384	381	381	376	
0	386	386	386	386	386	

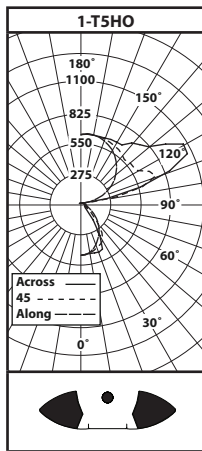
P-ID-93M14T5HO-SGL 88.6% Efficiency																		
Input Watts = 61																		
RCC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	89	89	89	89	78	78	78	78	59	59	59	41	41	41	25	25	25	18
1	81	77	74	71	71	68	66	63	52	50	48	36	35	35	22	22	21	15
2	74	68	62	58	65	60	56	52	45	43	40	32	30	29	20	19	18	13
3	67	59	53	49	59	53	48	44	40	37	34	29	26	25	18	17	16	11
4	61	53	46	41	54	47	41	37	36	32	29	25	23	21	16	15	14	10
5	56	47	40	35	50	42	36	32	32	28	25	23	20	18	14	13	12	8
6	52	42	35	30	46	37	32	27	29	25	22	21	18	16	13	12	11	8
7	48	38	31	26	42	34	28	24	26	22	19	19	16	14	12	11	9	7
8	44	34	28	23	39	30	25	21	24	20	17	17	14	13	11	10	8	6
9	41	31	25	21	36	28	22	19	22	18	15	16	13	11	10	9	8	6
10	38	28	22	18	34	25	20	17	20	16	13	14	12	10	9	8	7	5

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	3199.81	71.1	80.2
90-0°	789.01	17.5	19.8
180-0°	3988.82	88.6	100

LUMINANCE SUMMARY (cd/m²)			
ANGLE	0°	45°	90°
45°	3906	3415	2865
55°	3266	2807	2395
65°	2824	2364	2003
75°	2359	1984	1823
85°	1592	1592	955

Litecontrol Test Report # 68916600



CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	
180	625	625	625	625	625	625
175	635	632	632	631	630	
165	621	621	628	632	626	
155	585	591	614	633	638	
145	530	548	595	630	647	
135	457	489	558	712	750	
125	367	416	577	818	938	
115	264	332	686	1019	1067	
105	144	297	581	599	554	
95	35	130	77	43	34	
90	2	4	2	1	2	
85	5	8	9	9	10	
75	27	29	30	33	31	
65	52	55	54	50	46	
55	108	118	55	61	71	
45	195	228	131	44	41	
35	282	305	329	239	190	
25	361	372	412	455	461	
15	427	432	447	465	469	
5	470	469	470	470	468	
0	473	473	473	473	473	

P-ID-93M14T5HO-BW 87.3% Efficiency																		
Input Watts = 61																		
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	0
RCR																		
0	87	87	87	87	77	77	77	77	58	58	58	41	41	41	25	25	25	18
1	80	76	73	70	71	68	65	63	51	50	48	36	36	35	23	22	22	16
2	73	67	62	58	64	60	56	52	45	43	41	32	31	29	20	20	19	14
3	67	59	53	49	59	53	48	44	40	37	34	29	27	25	18	17	17	12
4	61	53	46	41	54	47	42	37	36	32	30	26	24	22	17	16	15	11
5	56	47	40	36	50	42	36	32	32	29	26	24	21	19	15	14	13	10
6	52	42	36	31	46	38	32	28	29	25	23	21	19	17	14	13	12	9
7	48	38	32	27	42	34	29	25	27	23	20	20	17	15	13	12	11	8
8	44	35	28	24	39	31	26	22	24	20	18	18	15	14	12	11	10	7
9	41	31	25	21	37	28	23	19	22	18	16	17	14	12	11	10	9	7
10	39	29	23	19	34	26	21	17	20	17	14	15	13	11	10	9	8	6

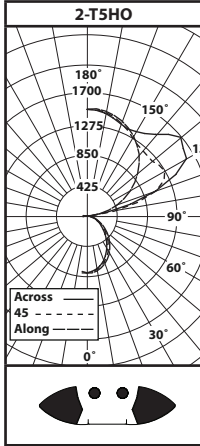
Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	3130.64	69.6	79.7
90-0°	796.96	17.7	20.3
180-0°	3927.61	87.3	100

LUMINANCE SUMMARY (cd/m²)			
ANGLE	0°	45°	90°
45°	3827	2571	805
55°	2613	1331	1718
65°	1708	1773	1511
75°	1448	1609	1662
85°	796	1433	1592

Litecontrol Test Report # 68916300

Photometric Data 2-T5HO



CANDLEPOWER SUMMARY					
ANGLE	0	22.5	45	67.5	90
180	1494	1494	1494	1494	1494
175	1508	1497	1495	1495	1488
165	1462	1452	1442	1437	1420
155	1367	1351	1332	1346	1348
145	1221	1204	1226	1354	1413
135	1037	1015	1194	1475	1620
125	817	832	1239	1598	1648
115	575	693	1195	1376	1376
105	317	598	733	687	632
95	72	163	98	63	57
90	8	9	8	8	6
85	32	32	28	27	27
75	105	100	90	89	86
65	197	192	177	165	160
55	307	302	278	257	248
45	432	424	397	372	359
35	560	549	524	502	487
25	674	660	645	629	615
15	755	745	737	731	720
5	800	792	790	789	780
0	798	798	798	798	798

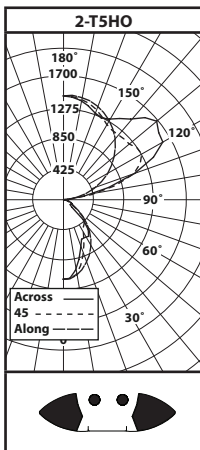
P-ID-93M24T5HO-SGL 85% Efficiency Input Watts = 120																												
RCC	80				70				50				30				10				0							
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	0	0	0	0	0	0	0
RCR																												
0	86	86	86	86	76	76	76	76	58	58	58	42	42	42	27	27	27	20	20	20	20	20	20	20	20	20		
1	78	75	71	69	69	66	64	61	51	49	48	37	36	35	24	23	23	17	17	17	17	17	17	17	17	17		
2	71	65	60	56	63	58	54	51	45	42	40	32	31	29	21	20	19	14	14	14	14	14	14	14	14	14		
3	65	57	51	47	57	51	46	42	40	36	33	29	27	25	19	18	17	12	12	12	12	12	12	12	12	12		
4	59	51	44	40	53	45	40	36	35	31	28	26	23	21	17	15	14	11	11	11	11	11	11	11	11	11		
5	54	45	39	34	48	40	35	31	31	27	24	23	20	18	15	14	13	9	9	9	9	9	9	9	9	9		
6	50	40	34	29	44	36	31	27	28	24	21	21	18	16	14	12	11	8	8	8	8	8	8	8	8	8		
7	46	36	30	25	41	33	27	23	25	22	19	19	16	14	13	11	10	7	7	7	7	7	7	7	7	7		
8	43	33	27	22	38	30	24	20	23	19	16	17	15	13	12	10	9	7	7	7	7	7	7	7	7	7		
9	40	30	24	20	35	27	22	18	21	17	15	16	13	11	11	9	8	6	6	6	6	6	6	6	6	6		
10	37	27	22	18	33	25	20	16	19	16	13	15	12	10	10	8	7	5	5	5	5	5	5	5	5	5		

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	5875.25	65.3	76.8
90-0°	1776.86	19.7	23.2
180-0°	7652.11	85	100

LUMINANCE SUMMARY (cd/m²)			
ANGLE	0°	45°	90°
45°	9823	9028	8164
55°	8606	7793	6952
65°	7495	6734	6087
75°	6523	5591	5343
85°	5904	5166	4981

Litecontrol Test Report # 68926600



CANDLEPOWER SUMMARY					
ANGLE	0	22.5	45	67.5	90
180	1441	1441	1441	1441	1441
175	1457	1444	1439	1438	1431
165	1423	1402	1387	1371	1352
155	1338	1314	1277	1260	1255
145	1205	1182	1183	1321	1377
135	1031	1004	1196	1469	1611
125	825	851	1255	1576	1627
115	589	734	1187	1385	1389
105	326	617	759	710	655
95	79	171	111	75	63
90	7	11	10	9	8
85	19	21	22	24	27
75	71	72	72	79	80
65	127	130	124	126	147
55	263	235	240	129	119
45	470	387	424	424	399
35	675	590	485	573	621
25	858	816	691	626	607
15	1009	1010	944	891	859
5	1104	1096	1100	1103	1095
0	1106	1106	1106	1106	1106

P-ID-93M24T5HO-BW 85% Efficiency Input Watts = 120																											
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	50	30	10	0	0	0	0	0	0	0
RCR																											
0	86	86	86	86	76	76	76	76	58	58	58	42	42	42	27	27	27	20	20	20	20	20	20	20	20	20	
1	78	75	72	69	70	67	64	62	51	50	48	37	36	35	24	24	23	17	17	17	17	17	17	17	17	17	
2	72	66	61	57	63	59	55	51	45	43	40	33	31	30	22	21	20	15	15	15	15	15	15	15	15	15	
3	65	58	52	48	58	52	47	43	40	37	34	30	27	26	20	18	17	13	13	13	13	13	13	13	13	13	
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5	55	46	40	35	49	41	36	32	32	28	26	24	21	19	16	15	14	10	10	10	10	10	10	10	10	10	
6	51	41	35	30	45	37	32	28	29	25	22	22	19	17	15	13	12	9	9	9	9	9	9	9	9	9	
7	47	37	31	26	42	33	28	24	26	23	20	20	17	15	14	12	11	8	8	8	8	8	8	8	8	8	
8	44	34	28	23	39	30	25	21	24	20	17	18	16	14	13	11	10	8	8	8	8	8	8	8	8	8	
9	40	31	25	21	36	28	23	19	22	18	16	17	14	12	12	10	9	7	7	7	7	7	7	7	7	7	
10	38	28	22	19	34	25	20	17	20	17	14	15	13	11	11	9	8	6	6	6	6	6	6	6	6	6	

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	5852.2	65	76.5
90-0°	1801.02	20	23.5
180-0°	7653.21	85	100

LUMINANCE SUMMARY (cd/m²)			
ANGLE	0°	45°	90°
45°	10688	9642	9073
55°	7373	6728	3336
65°	4832	4718	5593
75°	4411	4473	4970
85°	3505	4059	4981

Litecontrol Test Report # 689263300