

## Arcos™ M5

### P-ID-59M

Pendant-Mounted Indirect/Direct

### Product Description

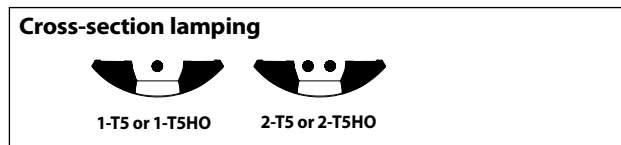
A smaller, sleeker version of the pendant-mounted Arcos indirect-direct steel fixture. This fixture is Cradle to Cradle Silver Certified™ by MBDC.

**CS™** Control Solutions available

### Ordering Guide

Product, Lamping & Length					Options							
P -	ID -	59M										
Mounting	Distribution	Series	Lamp Count	Nominal Length (ft)	Lamp Type	Baffle or Diffuser	Finish	Ballast	Tandem Wiring	Circuiting	Other Options	Volts
P Pendant-mounted	ID Indirect/ Direct	59M	1, 2 →	4 →	T5 T5HO	PBCWM PBCWM/O PBSS PBSS/O SGL VC1	TCWM (textured matte white) is standard	LP/ELB is standard  LPD/CS/e LPD/D10 LPD/MK7	-- →	1CWQ	CS/dlh* ECSS F LP/EF see Other Options	120 277
			2, 4 →	8 →					TW →	2CWQ		
<b>Mounting</b> - add to end of catalog number <b>Aircraft cables</b> <input type="checkbox"/> FAI/ACC (field adjustable) <i>standard</i>			see notes		see Baffle or Diffuser Options		see LiteColors™ in product guide for other finishes		see notes		<b>notes:</b> Lamp count = total number of lamps in the fixture Tandem wiring not available for one-lamp cross-section fixtures 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-ID-59M48T5HO-SGL-TCWM-LP/ELB-TW-2CWQ-120-FAI/ACC** is a typical catalog number for a 4-lamp (2-lamps in cross-section), 8-foot long T5HO fixture with soft glow lens, textured matte white finish, low-profile electronic ballast, tandem-wired, two-circuit branch wiring with quick connects, 120 volts, mounted with field adjustable aircraft cables.



### Baffle & Diffuser Options

- PBCWM** Radiused Parabolic Baffle finished Matte White.
- PBCWM/O** Radiused Parabolic Baffle finished Matte White with Overlay. For additional diffusing of lamp(s), Matte White acrylic overlay provided to lay over baffle blades.
- PBSS** Radiused Parabolic Semi-Specular Baffle.
- PBSS/O** Radiused Parabolic Semi-Specular Baffle with Overlay. For additional diffusing of lamp(s), Matte White acrylic overlay provided to lay over baffle blades.
- SGL** Soft Glow Lens. Extruded frosted acrylic, follows contour of fixture housing.
- VC1** VCOptic lens. Microstructure film overlay on a clear grooved lens that follows contour of fixture housing.

### Ballast Options **CS<sup>e</sup>**

**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](http://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 inline lamps are switched separately.

### Other Options **CS<sup>dlh</sup>**

- CS/dlh** Daylight harvesting solution. See next page for details.
- ECSS** End Cap Shelf-Style. Die-cast shelf-style end caps with no exposed fasteners.
- F** Fuse. Slow or fast blow, determined by Litecontrol.
- 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. Ballast options?
4. Control solutions? 5. Other options? 6. 120 or 277 volt?

Click on  
**Quick Find 59M**

[litecontrol.com](http://litecontrol.com)



### 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-59M48T5HO-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.** Die-formed steel with downlight opening, 2 1/2" x 41 1/4", in each four-foot section of fixture. Diffuser opening starts at 3 3/8" from each fixture end. At the center of eight-foot fixtures, openings are spaced 6 3/4" end-to-end, to match spacing between openings in joined fixtures.

**END CAPS.** Required at each end of row and at both ends of an individual fixture. Flat end caps are standard with no exposed fasteners. A die-cast "shelf-style" end cap (**ECSS**) is available as an option. All end caps finished to match housing.

**REFLECTORS.** Die-formed high-reflectance aluminum side reflectors.

**LAMPING.** Available in one- and two-lamp T5 or T5HO. Lamp access/replacement is 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 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 with special circuits such as night light and emergency, in-field wiring may be required. See Pre-wiring Information for details.

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

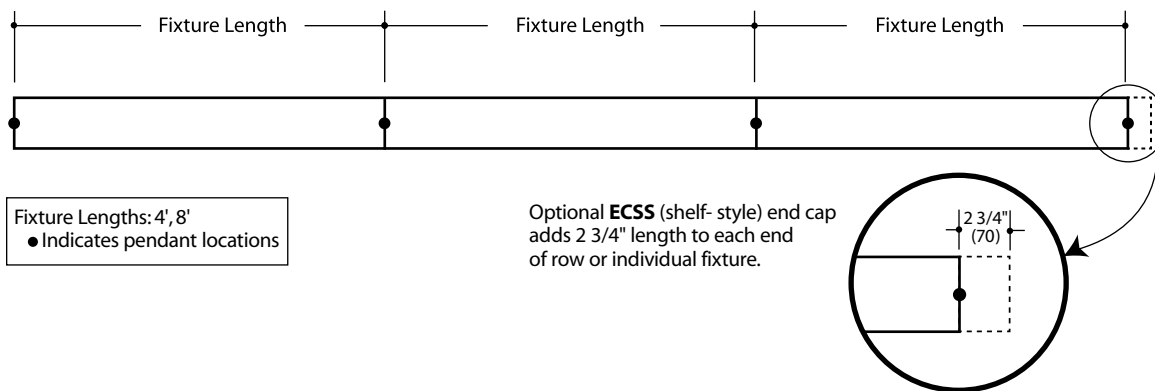
**ROW JOINING.** Fixture end headers are threaded in one location to allow easy row joining without removing reflectors. Support points are centered above the midpoint of joint "on seam" for aligned, symmetrical appearance.

**SUSPENSION.** Yoke with field adjustable aircraft cable attaches directly to the end header. Mounting points in rows are exactly "on module" at 48" and 96" including at ends of rows.

**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

### Row diagram

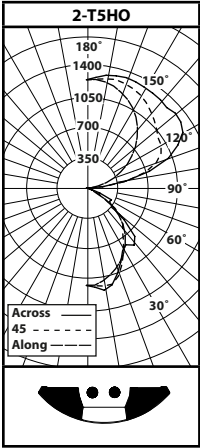


LITECONTROL

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Photometric data



CANDLEPOWER SUMMARY					
ANGLE	0	22.5	45	67.5	90
180	1218	1218	1218	1218	1218
175	1227	1218	1229	1244	1250
165	1186	1209	1263	1300	1305
155	1100	1162	1236	1304	1317
145	973	1065	1173	1264	1303
135	810	931	1079	1227	1279
125	626	772	985	1215	1299
115	429	612	927	1091	1137
105	233	479	689	733	735
95	60	200	204	192	184
90	2	24	24	21	18
85	12	14	18	20	22
75	40	43	45	53	72
65	114	126	146	201	313
55	363	360	393	351	356
45	588	581	579	720	770
35	764	817	726	731	777
25	908	980	948	922	918
15	1015	1047	1119	1140	1127
5	1094	1085	1102	1120	1117
0	1095	1095	1095	1095	1095

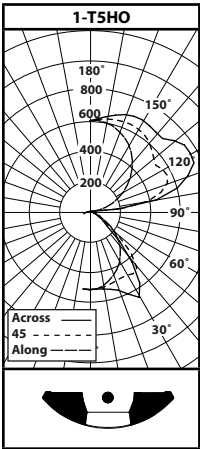
P-ID-59M24T5HO-PBSS 83.8% Efficiency																		
Input Watts = 122W																		
RCC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	86	86	86	86	77	77	77	77	61	61	61	47	47	47	33	33	33	27
1	79	76	73	70	71	68	66	63	54	53	51	42	40	40	30	29	29	23
2	72	66	62	58	65	60	56	53	48	45	43	37	35	34	27	26	25	20
3	66	59	53	48	59	53	48	44	43	39	36	33	31	29	24	23	21	17
4	60	52	46	41	54	47	42	38	38	34	31	30	27	25	22	20	19	15
5	56	46	40	35	50	42	37	33	34	30	27	27	24	22	20	18	16	13
6	51	42	35	31	46	38	32	28	31	27	24	24	21	19	18	16	15	12
7	47	38	31	27	43	34	29	25	28	24	21	22	19	17	16	14	13	11
8	44	34	28	24	39	31	26	22	25	21	18	20	17	15	15	13	12	10
9	41	31	25	21	37	28	23	20	23	19	17	18	16	14	14	12	11	9
10	38	28	23	19	34	26	21	18	21	18	15	17	14	12	13	11	10	8

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	5145.76	57.2	68.3
90-0°	2392.57	26.6	31.7
180-0°	7538.33	83.8	100

LUMINANCE SUMMARY (cd/m²)			
ANGLE	0°	45°	90°
45°	12451	12261	16305
55°	9476	10259	9293
65°	4039	5173	11090
75°	2314	2603	4165
85°	2062	3092	3780

Litecontrol Test Report #68026340



CANDLEPOWER SUMMARY					
ANGLE	0	22.5	45	67.5	90
180	589	589	589	589	589
175	594	595	601	604	603
165	575	590	617	641	646
155	531	566	625	670	681
145	470	528	613	663	678
135	390	470	569	637	668
125	299	400	523	694	751
115	205	321	555	696	747
105	108	277	478	556	589
95	25	167	203	190	183
90	1	18	10	6	4
85	4	6	8	8	8
75	19	18	19	21	23
65	54	52	46	55	76
55	165	214	132	97	106
45	265	324	377	294	274
35	347	381	492	563	567
25	416	430	477	543	591
15	467	472	491	515	523
5	505	502	505	507	504
0	506	506	506	506	506

P-ID-59M14T5HO-PBSS 90.7% Efficiency																		
Input Watts = 61W																		
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	93	93	93	93	83	83	83	83	65	65	65	48	48	48	33	33	33	26
1	85	81	78	75	76	73	70	68	57	56	54	43	42	41	30	29	29	23
2	78	72	67	62	69	64	60	57	51	48	46	39	37	35	27	26	25	20
3	71	63	57	52	64	57	52	48	45	42	39	34	32	30	24	23	22	18
4	65	56	50	44	58	51	45	41	40	37	33	31	28	26	22	21	19	15
5	60	50	43	38	54	45	39	35	36	32	29	28	25	23	20	18	17	14
6	55	45	38	33	49	41	35	31	33	28	25	25	22	20	18	16	15	12
7	51	41	34	29	46	37	31	27	30	25	22	23	20	18	17	15	13	11
8	47	37	30	26	42	33	28	24	27	23	20	21	18	16	15	13	12	10
9	44	33	27	23	39	30	25	21	25	21	18	19	16	14	14	12	11	9
10	41	31	24	20	37	28	22	19	23	19	16	18	15	13	13	11	10	8

Floor Cavity Reflectance .20

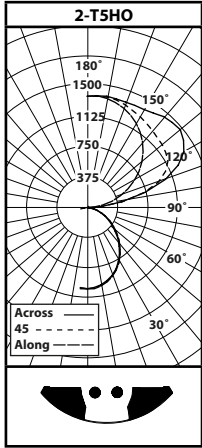
ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	2913.18	64.7	71.4
90-0°	1169.75	26	28.6
180-0°	4082.93	90.7	100

LUMINANCE SUMMARY (cd/m²)			
ANGLE	0°	45°	90°
45°	5611	7983	5802
55°	4307	3446	2767
65°	1913	1630	2693
75°	1099	1099	1331
85°	687	1374	1374

Litecontrol Test Report #68116602



Photometric data



CANDLEPOWER SUMMARY					
ANGLE	0	22.5	45	67.5	90
180	1358	1358	1358	1358	1358
175	1370	1359	1365	1370	1368
165	1329	1333	1360	1380	1373
155	1248	1272	1310	1364	1374
145	1126	1164	1259	1369	1409
135	963	1024	1210	1408	1469
125	769	869	1170	1378	1436
115	550	727	1054	1192	1226
105	313	561	724	735	730
95	81	191	182	166	158
90	6	15	13	11	9
85	38	39	37	36	35
75	133	137	132	129	127
65	253	257	250	243	242
55	392	398	389	380	374
45	545	549	543	535	530
35	700	699	699	695	688
25	837	834	834	832	825
15	935	928	930	932	921
5	988	980	980	978	973
0	986	986	986	986	986

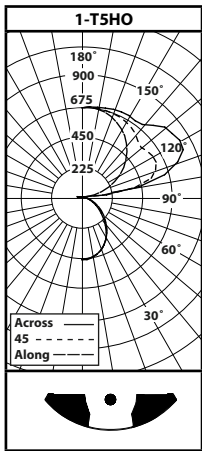
P-ID-59M24T5HO-SGL 89.4% Efficiency Input Watts = 120W																		
RCC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	91	91	91	91	82	82	82	82	64	64	64	48	48	48	33	33	33	26
1	83	80	76	73	75	72	69	66	56	54	53	42	41	40	30	29	28	22
2	76	70	64	60	68	63	58	54	49	46	44	37	35	34	26	25	24	19
3	69	61	55	50	62	55	50	45	44	40	37	33	31	28	23	22	20	16
4	63	54	47	42	57	49	43	39	39	35	31	29	27	24	21	19	18	14
5	58	48	41	36	52	44	38	33	35	30	27	26	23	21	19	17	15	12
6	53	43	36	31	48	39	33	29	31	27	24	24	21	18	17	15	14	11
7	49	39	32	27	44	35	29	25	28	24	21	22	19	16	16	14	12	10
8	46	35	29	24	41	32	26	22	26	21	18	20	17	15	14	12	11	9
9	43	32	26	21	38	29	23	20	23	19	16	18	15	13	13	11	10	8
10	40	29	23	19	36	27	21	17	22	17	15	17	14	12	12	10	9	7

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	5673.61	63	70.5
90-0°	2373.91	26.4	29.5
180-0°	8047.52	89.4	100

LUMINANCE SUMMARY (cd/m²)			
ANGLE	0°	45°	90°
45°	11541	11498	11223
55°	10233	10155	9763
65°	8964	8857	8574
75°	7694	7637	7347
85°	6528	6357	6013

Litecontrol Test Report # 68126602



CANDLEPOWER SUMMARY					
ANGLE	0	22.5	45	67.5	90
180	660	660	660	660	660
175	670	665	667	670	669
165	651	653	666	680	680
155	612	622	656	689	695
145	554	576	634	676	689
135	475	514	588	692	749
125	380	433	592	760	818
115	271	346	608	766	831
105	152	301	534	609	635
95	37	164	185	168	157
90	1	11	11	9	8
85	15	14	14	12	13
75	56	57	52	48	48
65	111	110	105	98	94
55	177	178	169	160	154
45	249	251	245	238	231
35	325	324	325	321	318
25	391	391	393	394	392
15	439	437	438	440	437
5	465	460	459	462	458
0	463	463	463	463	463

P-ID-59M14T5HO-SGL 93.9% Efficiency Input Watts = 61W																		
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	95	95	95	95	85	85	85	85	65	65	65	48	48	48	31	31	31	24
1	87	83	79	76	77	74	71	69	57	55	54	42	41	40	28	27	27	20
2	79	73	67	63	70	65	60	56	50	47	45	37	35	33	25	24	23	17
3	72	64	57	52	64	57	52	47	44	41	38	33	30	28	22	21	19	15
4	66	56	49	44	59	51	45	40	40	35	32	29	27	24	20	18	17	13
5	61	50	43	38	54	45	39	34	35	31	28	26	23	21	18	16	15	11
6	56	45	38	33	49	40	34	30	32	27	24	24	21	18	16	14	13	10
7	51	40	33	28	46	36	30	26	29	24	21	22	19	16	15	13	12	9
8	48	37	30	25	42	33	27	23	26	22	19	20	17	14	14	12	10	8
9	44	33	27	22	39	30	24	20	24	20	17	18	15	13	13	11	9	7
10	41	30	24	20	37	28	22	18	22	18	15	17	14	12	12	10	9	7

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	3159.7	70.2	74.8
90-0°	1065.94	23.7	25.2
180-0°	4225.64	93.9	100

LUMINANCE SUMMARY (cd/m²)			
ANGLE	0°	45°	90°
45°	5273	5188	4892
55°	4621	4412	4020
65°	3933	3720	3330
75°	3240	3008	2777
85°	2577	2405	2233

Litecontrol Test Report # 68116342