

MicroSquare LED

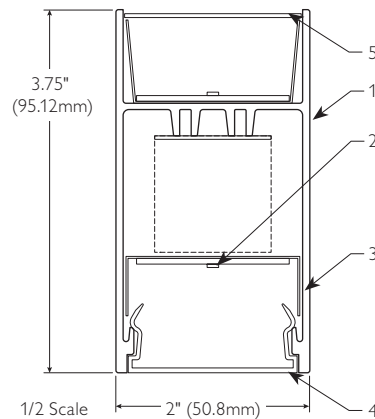
Lighting Systems, Pendant bidirectional, LED

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Catalog number:

Notes:

Type:



Ordering Information

Family	Mounting	Distribution	Lamp Type	LED Color	Lumen Category	Lower Optics	Upper Optics	Row Length	Wiring	Voltage	Ballast	Finish
MQ	0	6	L			F	F				E	
MicroSquare	0 = Pendant	6 = Bidirectional	L = LED	A = 4000k B = 3500k C = 3000K	G = Hi Lumen, 5400 lumens (Combined Up and Down per 4 ft. nominal) K = Standard Lumen, 3000 lumens (Combined Up and Down per 4 ft. nominal)	F = Frost lens	F = Dust cover	Enter the total run length in feet (4 ft. increments)	1 = 1 circuit 2 = 2 circuit (Up/Down Switch) B = 2 circuit (Tandem Switch) 7 = 1 circuit Dimming (0-10v) X = Custom wiring (Consult factory)	1 = 120v 2 = 277v	E = Electronic	W = White A = Aluminum C = Custom color (Consult factory)

Features

- Housing:** Single piece of high purity extruded aluminum, a portion from recycled material.
- Light source:** Philips FortimoLED line system standard.
- Reflector:** Die-formed MIRO-SILVER® aluminum.
- Lower optics:** Extruded snap in matte frost acrylic lens.
- Upper optics:** Acrylic lay in dust cover standard.
- Alignment mechanism:** Draw tight mechanism ensures a hairline joints.
- Finish:** Standard powder coat finish is textured matte White or Aluminum. Custom colors available, consult factory.

Electrical

Driver: 0-10v electronic driver standard. Unless ordered as dimming, fixture will be wired for non-dim operation (purple and gray wires will not be connected). Dimmed output range for optional dimming configuration is 10%-100%.

Lumen maintenance: At an ambient operating temperature of 25°C, the LED lifetime expectation is $L_{80} > 60,000$ hours. Reported $L_{85}(6k) > 36,000$ hours per IES TM-21-11, which is limited to six times the 6,000 hours of LED LM-80-08 testing time.

Connections: Pre-wired with 18 gauge wires and polarized cannon plug connectors for simultaneous mechanical/electrical connection. No mid-row feeds offered.

Mounting

See mounting option specification sheet, Suspension Mounting.

Labels

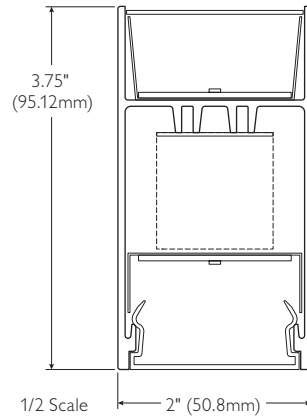
Complies to US and Canadian Safety Standards.

UL or ETL listed and suitable for damp locations.

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Lighting Systems, Pendant bidirectional, LED

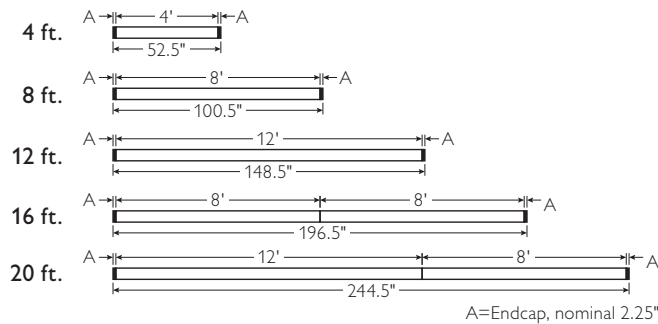
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Options (please indicate with check mark)

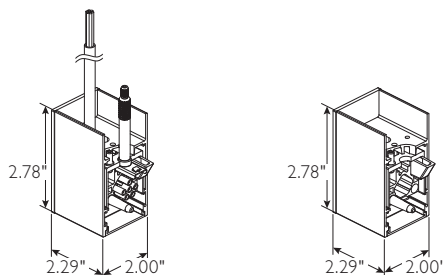
☐ 12 foot luminaires acceptable on job

Standard row configurations



End Set

Each row is completed by a die-cast aluminum end cap, that is joined by an internal draw-tight connector and provides a hairline joint.



Mounting

Fixed position mounts supplied standard at ends. Aircraft cable gripper provides infinite vertical adjustment capability. Aircraft cable, crimp and cable gripper independently tested to meet stringent safety requirements

Mounting in Runs

Fixed position supports supplied standard at ends of each luminaire.

Mounting Hardware

☐ **Mount Type**

See mounting option specification sheet, Suspension Mounting.

☐ **Suspension Length**

Enter distance from ceiling to top of fixture in inches. Contractor can cut cable to any length. Factory pre-cut cables available in nominal lengths: 24", 48", 96", 144", 192", 240"

Modules

Module length excludes endcaps. Nominal mount spacing for individually mounted modules with fixed position mounts.

Module	Mount Spacing
4 ft.	4' 0"
8 ft.	8' 0"
12 ft.	12' 0"

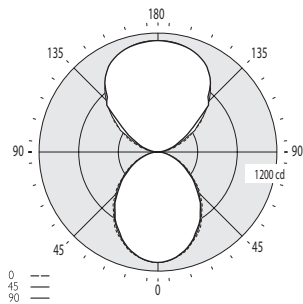
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Photometry Hi lumen category

Candela Curve



53.5% Up / 46.5% Down

Efficiency*: 100%
Efficacy: 71.5 lm/W
Total lumens: 5495 lm
CRI: 80 minimum
Input watts: 76.8
Report number: 9902949

Candela Distribution

Vertical Angle	Horizontal Angle				Zonal Lumens
	0	22.5	45	67.5	90
0	1116	1116	1116	1116	1116
5	1106	1108	1107	1107	1105
15	1047	1050	1036	1041	1035
25	934	940	920	924	903
35	775	797	763	775	749
45	604	611	589	598	568
55	416	431	412	411	392
65	265	258	252	256	242
75	126	122	117	124	116
85	31	26	24	26	21
90	0	0	0	0	0
95	60	50	48	37	40
105	177	162	146	119	122
115	338	310	301	253	244
125	533	517	516	439	441
135	711	713	735	706	726
145	889	885	916	918	920
155	1007	1004	1025	1038	1039
165	1082	1081	1096	1098	1096
175	1118	1119	1122	1121	1118
180	1123	1123	1123	1123	1123

Coefficients of Utilization (%)

Ceiling:	80				70				50				0			
	70	50	30	10	70	50	30	10	50	30	10	10	50	30	10	0
0 RCR	106	106	106	106	98	98	98	98	81	81	81	81	46	46	46	46
1	97	93	89	86	89	86	83	83	72	70	67	67	40	40	40	40
2	89	82	76	71	81	75	70	63	60	56	51	48	34	34	34	34
3	81	72	65	59	74	66	60	56	51	48	41	38	29	29	29	29
4	74	64	56	50	68	59	52	50	45	41	35	31	25	25	25	25
5	68	57	49	43	63	53	46	45	39	35	29	25	22	22	22	22
6	63	51	43	38	58	47	40	40	35	31	27	23	19	19	19	19
7	58	46	38	33	54	43	36	37	31	27	23	19	17	17	17	17
8	54	42	34	29	50	39	32	34	28	24	20	16	16	16	16	16
9	50	38	31	26	46	36	29	31	26	22	18	14	14	14	14	14
10	47	35	28	23	43	33	26	28	23	20	16	13	13	13	13	13

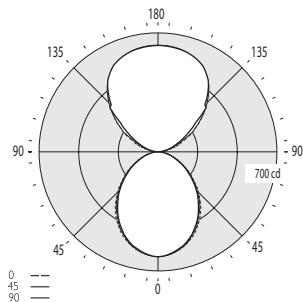
Based on a floor reflectance of 0.2

Avg. Luminance (cd/m²)

Vertical Angle	Horizontal Angle		
	0	45	90
5	20784	20816	20769
15	20297	20094	20074
25	19300	19010	18653
35	17720	17443	17121
45	16001	15606	15034
55	13581	13460	12787
65	11731	11181	10712
75	9082	8488	8358
85	6640	5179	4491

Photometry Standard lumen category

Candela Curve



53.5% Up / 46.5% Down

Efficiency*: 100%
Efficacy: 82.2 lm/W
Total lumens: 3056 lm
CRI: 80 minimum
Input watts: 37.2
Report number: 9902948

Candela Distribution

Vertical Angle	Horizontal Angle				Zonal Lumens
	0	22.5	45	67.5	90
0	618	618	618	618	618
5	612	614	612	614	610
15	579	582	577	580	573
25	520	524	512	513	503
35	435	440	426	425	415
45	336	340	326	328	319
55	236	236	227	229	219
65	143	145	138	141	132
75	65	67	67	67	64
85	15	14	13	16	15
90	0	0	0	0	0
95	35	28	26	22	23
105	98	91	79	68	70
115	183	176	166	143	141
125	293	290	291	248	249
135	402	402	409	392	389
145	490	493	512	511	515
155	559	561	574	578	581
165	604	602	611	612	611
175	624	623	626	625	623
180	626	626	626	626	626

Coefficients of Utilization (%)

Ceiling:	80				70				50				0			
	70	50	30	10	70	50	30	10	50	30	10	10	50	30	10	0
0 RCR	106	106	106	106	98	98	98	98	81	81	81	81	46	46	46	46
1	97	93	89	86	89	86	82	82	72	69	67	67	40	40	40	40
2	89	82	76	71	81	75	70	63	59	56	51	48	34	34	34	34
3	81	72	65	59	74	66	60	56	51	48	41	38	29	29	29	29
4	74	64	56	50	68	59	52	50	45	41	35	31	25	25	25	25
5	68	57	49	43	63	53	46	45	39	35	29	25	22	22	22	22
6	63	51	43	38	58	47	40	40	35	31	27	23	19	19	19	19
7	58	46	38	33	54	43	36	37	31	27	23	19	17	17	17	17
8	54	42	34	29	50	39	32	34	28	24	20	16	16	16	16	16
9	47	35	28	23	43	33	26	28	23	20	16	13	13	13	13	13
10	47	35	28	23	43	33	26	28	23	20	16	13	13	13	13	13

Based on a floor reflectance of 0.2

Avg. Luminance (cd/m²)

Vertical Angle	Horizontal Angle		
	0	45	90
5	11502	11514	11476
15	11219	11186	11103
25	10752	10570	10399
35	9946	9738	9489
45	8892	8645	8439
55	7706	7422	7135
65	6324	6103	5841
75	4733	4856	4631
85	3223	2794	3180

* IESNA LM-79-08 specifies the entire luminaire as the source resulting in a fixture efficiency of 100%.

Lumen maintenance of the LEDs used in this fixture has been tested by the LED manufacturer in accordance with IESNA LM-80-08



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MQ06L Pendant Bidirect August 20, 2012

Specifications are subject to change without notice.
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