



DURA BAY MODULAR SERIES

Version 2.1
Dec. 2017

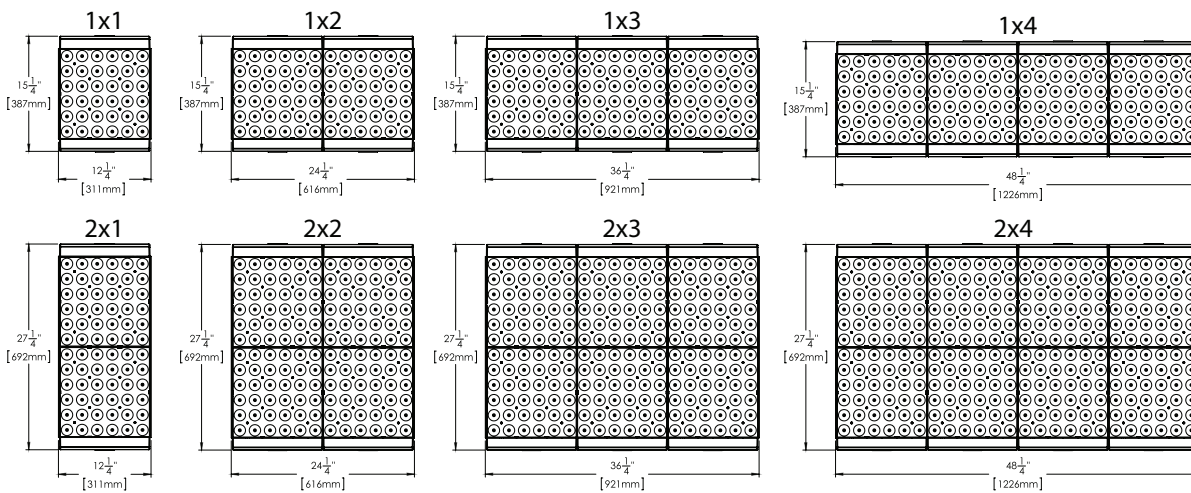




Dura Bay Modular Series provides a high-efficacy LED lighting fixture for low bay and high bay applications. This low-profile fixture utilizes a modular light engine building block that allows for dynamic lighting configurations from 6,000 to 80,000 lumens to meet both commercial and industrial lighting requirements. Two optical options meet different mounting heights as well as vertical and horizontal foot-candle requirements. Built for superior light quality and performance, Dura Bay Modular Series is a solid choice for warehouses, distribution centers, car dealerships, convention centers and retail applications.



DURA BAY MODULAR SERIES - 8 STANDARD CONFIGURATIONS WITH EITHER 60° OR 120° OPTICS



FEATURES & SPECIFICATIONS

POWER AND CONTROL

- **POWER INPUT:** 120-277V, 347V (50/60Hz)
- **DIMMING:** 0-10V dimming standard.
- **OCCUPANCY SENSORS:** Optional factory installed occupancy sensors are available. See accessories ordering information.
- **EMERGENCY BATTERY BACK-UP:** For 120-277V fixtures only, optional factory installed battery back-ups are available. Back-ups installed on the side of the lighting module and provide 90 minutes of lighting.

LUMEN MAINTENANCE

- **L70 LIFE:** 90% lumen maintenance at 70,000 hours (77°F/25°C ambient); L70 predicted life is more than 200,000 hours

LISTING AND CERTIFICATIONS

- UL | cUL listed for safety (UL 1598)
- UL | cUL dry/damp location listed
- RoHS Compliant
- FCC Class B
- Lighting Facts (U.S. Department of Energy) Certified
- DesignLights™ Consortium Approved

FIXTURE

- **ENVIRONMENT:** Dry/Damp. For interior applications.
- **HEAT SINKS:** Extruded aluminum heat sinks provide superior thermal management, the power supply additionally leverages the heat sink for long life and enhanced performance.
- **POWER SUPPLY ACCESS:** Side channel cover easily removed. Two captive screws to replace power supply.
- **MOUNTING:** Cable & surface mount. Pendant mount contact factory.
- **LENSES:** Standard UV stable clear acrylic or diffused polycarbonate for severe impact applications. Optional: available without a lens.
- **WARRANTY:** Limited 5-year warranty.
- **AMBIENT OPERATING TEMPERATURES:** Cable and Pendant Mounted Fixtures -40° to 140°F (-40°C to 60°C).
Fixtures with Emergency Battery Back-ups and Surface Mounted Fixtures -31° to 122°F (-35° to 50°C)

TOTAL HARMONIC DISTORTION

120V	6.5%
277V	11.9%
347V	10.3%

POWER FACTOR

120V	0.997
277V	0.952
347V	0.988

Commercial Industrial LED Solutions

Dura Bay Modular Series (Low/High Bay)

SPECIFICATION SHEET

VERSION 2.1

ORDERING EXAMPLE:

DBM-2x2-5K-120-CA-CRM-120-40-10V-OCCN-CORDN-EMBN

DBM					
SERIES	CONFIGURATION	COLOR TEMP	DISTRIBUTION	LENS	MOUNTING
DBM Dura Bay Modular Series	1X1 2X1 1X2 2X2 1X3 2X3 1X4 2X4	4K 4000 Kelvin 5K 5000 Kelvin	60 60 Degree Optics 120 120 Degree Optics	CA Clear acrylic lens (Standard) CP Clear polycarbonate lens DP Diffused polycarbonate lens	CRM Fixture is cable-ready (*Ordered & Packaged Seperately) MBR Kit includes bracket for surface mount- ing. Attaches to fixture frame for surface mounting. (*Ordered & Packaged Seperately) PEN Contact Factory (*Ordered & Packaged Seperately)
VOLTAGE	WATTAGE	10V DIMMING	OCC SENSORS	CORD & PLUG	BATTERY BACK-UP
120 120V 208 208V 220 220V 240 240V 277 277V 347 347V	40 (See fixture performance) 60 Standard (See fixture performance)	10V 0-10V Interface (Standard)	OCCN No OCC Sensor OCC20¹ 20' Mounting Heights OCC40¹ 40' Mounting Heights OCCDIM20¹ 20' Mounting Heights OCCDIM40¹ 40' Mounting Heights	CORDN No cord. No plug C6W¹ 6ft cord, 15A, no plug C15W¹ 15ft cord, 15A, no plug C515¹ 6ft cord, 15A, straight plug 120V (5-15P) CL515¹ 6ft cord, 15A, locking plug 120V (L5-15P) CL715¹ 6ft cord, 15A, locking plug 277V (L7-15P) CL720¹ 6ft cord, 20A, locking plug 277V (L7-20P) CL2420¹ 6ft cord, 20A, locking plug 347V (L24-20P) CL820¹ 6ft cord, 20A, locking plug 480V (L8-20P)	EMBN No emergency battery back-up EMB¹ Emergency battery back-up for a minimum of 90 minutes when power is interrupted. Test button and MBR features are included with EMB. <small>Note - EMB only available for 120-277V</small>

¹=Non-Standard selection or optional accessory. See price list for details.

OPTIONAL ACCESSORIES: Ordered & Packaged Seperately

Type	Part Number	Description
WIRELESS PROGRAMMER FOR DIMMABLE OCCUPANCY SENSOR(S)	OCCDIMPROG	Handheld wireless programmer required to setup 120-277V dimmable occupancy sensor(s).
CABLE KIT	CABLEKIT	kit includes 10ft Grip Rite aircraft cable and "Y" snap hook (one pair).
CABLE KIT	SAFETYCABLE	Kit includes 5 ft Grip Rite aircraft cable with single snap hook.
Surface Mount Kit	MBR	Surface mount bracket kit shipped separate.

FIXTURE PERFORMANCE - SINGLE MODULE

60 Degree Light Distribution + 4000 Kelvin LED Color + 40W

Configuration	Wattage	Lumens	Efficacy	CRI	Weight (lbs)
1x1	46	5,812	126	75	8
1x2	92	11,624	126	75	16
1x3	138	17,436	126	75	24
1x4	184	23,248	126	75	32
2x1	92	11,624	126	75	16
2x2	184	23,248	126	75	32
2x3	276	34,872	126	75	48
2x4	368	46,496	126	75	64

60 Degree Light Distribution + 5000 Kelvin LED Color + 40W

Configuration	Wattage	Lumens	Efficacy	CRI	Weight (lbs)
1x1	46	6,125	133	75	8
1x2	92	12,250	133	75	16
1x3	138	18,375	133	75	24
1x4	184	24,500	133	75	32
2x1	92	12,250	133	75	16
2x2	184	24,500	133	75	32
2x3	276	36,750	133	75	48
2x4	368	49,000	133	75	64

120 Degree Light Distribution + 4000 Kelvin LED Color + 40W

Configuration	Wattage	Lumens	Efficacy	CRI	Weight (lbs)
1x1	46	6,838	148	75	8
1x2	92	13,676	148	75	16
1x3	138	20,514	148	75	24
1x4	184	27,352	148	75	32
2x1	92	13,676	148	75	16
2x2	184	27,352	148	75	32
2x3	276	41,028	148	75	48
2x4	368	54,704	148	75	64

120 Degree Light Distribution + 5000 Kelvin LED Color + 40W

Configuration	Wattage	Lumens	Efficacy	CRI	Weight (lbs)
1x1	46	7,207	156	75	8
1x2	92	14,414	156	75	16
1x3	138	21,621	156	75	24
1x4	184	28,828	156	75	32
2x1	92	14,414	156	75	16
2x2	184	28,828	156	75	32
2x3	276	43,242	156	75	48
2x4	368	57,656	156	75	64

Commercial Industrial LED Solutions

Dura Bay Modular Series (Low/High Bay)

SPECIFICATION SHEET

VERSION 2.1

FIXTURE PERFORMANCE - SINGLE MODULE

60 Degree Light Distribution + 4000 Kelvin LED Color + 60W

Configuration	Wattage	Lumens	Efficacy	CRI	Weight (lbs)
1x1	68	7,935	118	75	8
1x2	135	15,870	118	75	16
1x3	202	23,805	118	75	24
1x4	270	31,740	118	75	32
2x1	135	15,870	118	75	16
2x2	270	31,740	118	75	32
2x3	405	47,610	118	75	48
2x4	540	63,480	118	75	64

60 Degree Light Distribution + 5000 Kelvin LED Color + 60W

Configuration	Wattage	Lumens	Efficacy	CRI	Weight (lbs)
1x1	68	8,192	122	75	8
1x2	135	16,384	122	75	16
1x3	202	24,576	122	75	24
1x4	270	32,768	122	75	32
2x1	135	16,384	122	75	16
2x2	270	32,768	122	75	32
2x3	405	49,152	122	75	48
2x4	540	65,536	122	75	64

120 Degree Light Distribution + 4000 Kelvin LED Color + 60W

Configuration	Wattage	Lumens	Efficacy	CRI	Weight (lbs)
1x1	68	9,335	139	75	8
1x2	135	18,670	139	75	16
1x3	202	28,005	139	75	24
1x4	270	37,340	139	75	32
2x1	135	18,670	139	75	16
2x2	270	37,340	139	75	32
2x3	405	56,010	139	75	48
2x4	540	74,680	139	75	64

120 Degree Light Distribution + 5000 Kelvin LED Color + 60W

Configuration	Wattage	Lumens	Efficacy	CRI	Weight (lbs)
1x1	68	9,638	143	75	8
1x2	135	19,276	143	75	16
1x3	202	28,914	143	75	24
1x4	270	38,552	143	75	32
2x1	135	19,276	143	75	16
2x2	270	38,552	143	75	32
2x3	405	57,828	143	75	48
2x4	540	77,104	143	75	64

SINGLE MODULE 60° CLEAR ACRYLIC LENS, 4000K

DESCRIPTIVE INFORMATION (From Photometric File)

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 [TESTDATE] 2/18/2016
 [TESTLAB] INTERTEK
 [ISSUE DATE]
 [MANUFAC] DURACOMM
 [LUMCAT] DBM-1x1-4K-60-CA-120-60
 [LUMINAIRE] High Bay Luminaire
 [LAMP]LED
 [TOTALLUMINAIRELUMENS] 7,935

FIXTURE CHARACTERISTICS

Fixture Lumen Output: 7,935 lms
 Total Fixture Wattage: 68W
 Fixture Efficacy Rating: 118
 Spacing Criterion (0-180): 1.04
 Spacing Criterion (90-270): 1.06
 Spacing Criterion (Diagonal): 0.92

CANDELA PLOT



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0° - 30°	3,034	48%
0° - 40°	4,040	64%
0° - 60°	5,509	88%
0° - 90°	6,291	100%
0° - 180°	6,291	100%

CANDELA DISTRIBUTION ARRAY

	0°	45°	90°
0°	4,201	4,201	4,201
10°	4,084	4,059	4,067
20°	3,823	3,784	3,795
30°	2,405	2,287	2,518
40°	1,190	1,188	1,190
50°	876	885	877
60°	601	606	595
70°	352	358	341
80°	124	136	129
90°	0	0	0

COEFFICIENTS OF UTILIZATION

RC	RW	80				70				50				30				10				0
		70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	0
RCR	0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	102	102	102	100	100	
	1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88		
	2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77	77		
	3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68	68		
	4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61	61		
	5	83	72	64	59	81	71	64	59	69	63	58	67	62	57	65	61	57	55	55		
	6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50	50		
	7	73	61	54	48	72	61	53	48	59	53	48	58	52	48	57	51	47	46	46		
	8	69	57	50	45	67	56	49	44	55	49	44	54	48	44	53	48	44	42	42		
	9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39	39		
	10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	41	38	36	36		

RCR=Room Cavity Ratio RC=Effective Ceiling Cavity Reflectance RW=Wall Reflectance
 Effective Floor Cavity Reflectance-20%

SINGLE MODULE 60° CLEAR ACRYLIC LENS, 5000K

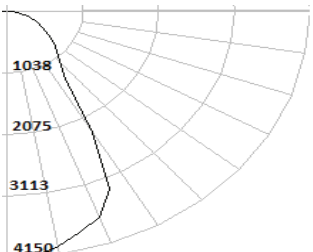
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 [TESTLAB] INTERTEK
 [ISSUE DATE]
 [MANUFAC] DURACOMM
 [LUMCAT] DBM-1x1-5K-60-CA-120-60
 [LUMINAIRE] High Bay Luminaire
 [LAMP]LED
 [TOTALLUMINAIRELUMENS] 8,192

FIXTURE CHARACTERISTICS

Fixture Lumen Output: 8,192 lms
 Total Fixture Wattage: 68W
 Fixture Efficacy Rating: 122
 Spacing Criterion (0-180): 1.02
 Spacing Criterion (90-270): 1.04
 Spacing Criterion (Diagonal): 0.94

CANDELA PLOT



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0° - 30°	2,915	49%
0° - 40°	3,893	65%
0° - 60°	5,256	88%
0° - 90°	5,995	100%
0° - 180°	5,995	100%

CANDELA DISTRIBUTION ARRAY

	0°	45°	90°
0°	4,150	4,150	4,150
10°	4,084	3,982	4,002
20°	3,698	3,678	3,703
30°	2,347	2,329	2,404
40°	1,112	1,124	1,117
50°	823	815	822
60°	560	557	565
70°	334	338	336
80°	134	134	135
90°	0	0	0

COEFFICIENTS OF UTILIZATION

RC	RW	80				70				50				30				10				0
		70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	0
RCR	0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	102	102	102	100	100	
	1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88		
	2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77	77		
	3	96	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68	68		
	4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61	61		
	5	83	72	64	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55	55		
	6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50	50		
	7	73	61	54	49	72	61	54	48	59	53	48	58	52	48	57	51	48	46	46		
	8	69	57	50	45	67	56	49	44	55	49	44	54	48	44	53	48	44	42	42		
	9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39	39		
	10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36	36		

RCR=Room Cavity Ratio RC=Effective Ceiling Cavity Reflectance RW=Wall Reflectance
 Effective Floor Cavity Reflectance-20%

SINGLE MODULE 120° CLEAR ACRYLIC LENS, 4000K

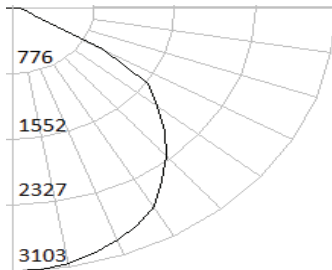
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 [TESTDATE] 2/18/2016
 [TESTLAB] INTERTEK
 [ISSUE DATE]
 [MANUFAC] DURACOMM
 [LUMCAT] DBM-1x1-4K-120-CA-120-60
 [LUMINAIRE] High Bay Luminaire
 [LAMP]LED
 [TOTALLUMINAIRELUMENS] 9,335

FIXTURE CHARACTERISTICS

Fixture Lumen Output: 9,335 lms
 Total Fixture Wattage: 68W
 Fixture Efficacy Rating: 139
 Spacing Criterion (0-180): 1.30
 Spacing Criterion (90-270): 1.30
 Spacing Criterion (Diagonal): 1.38

CANDELA PLOT



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0° - 30°	2,443	33%
0° - 40°	4,007	54%
0° - 60°	6,904	93%
0° - 90°	7,416	100%
0° - 180°	7,416	100%

CANDELA DISTRIBUTION ARRAY

	0°	45°	90°
0°	3,103	3,103	3,103
10°	3,060	3,046	3,065
20°	2,921	2,922	2,941
30°	2,698	2,671	2,712
40°	2,284	2,292	2,270
50°	1,816	1,798	1,813
60°	911	1,007	892
70°	146	144	140
80°	54	52	51
90°	0	0	0

COEFFICIENTS OF UTILIZATION

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	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	102	102	102	100	100	100	100		
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88	88	88		
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6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	45	45	45	45	45		
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40	40	40	40	40		
8	64	51	43	38	63	51	43	38	50	43	38	48	42	37	47	41	37	35	35	35	35	35		
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32	32	32	32	32		
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29	29	29	29	29		

RCR=Room Cavity Ratio RC=Effective Ceiling Cavity Reflectance RW=Wall Reflectance
 Effective Floor Cavity Reflectance-20%

SINGLE MODULE 120° CLEAR ACRYLIC LENS, 5000K

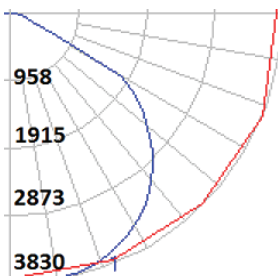
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 [TESTLAB] INTERTEK
 [ISSUE DATE]
 [MANUFAC] DURACOMM
 [LUMCAT] DBM-1x1-5K-120-CA-120-60
 [LUMINAIRE] High Bay Luminaire
 [LAMP]LED
 [TOTALLUMINAIRELUMENS] 9,638

FIXTURE CHARACTERISTICS

Fixture Lumen Output: 9,638 lms
 Total Fixture Wattage: 68W
 Fixture Efficacy Rating: 143
 Spacing Criterion (0-180): 1.04
 Spacing Criterion (90-270): 1.06
 Spacing Criterion (Diagonal): 0.92

CANDELA PLOT



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0° - 30°	3,031	33%
0° - 40°	5,022	55%
0° - 60°	8,928	94%
0° - 90°	9,638	100%
0° - 180°	9,638	100%

CANDELA DISTRIBUTION ARRAY

	0°	45°	90°
0°	3,794	3,794	3,794
10°	3,746	3,806	3,746
20°	3,655	3,688	3,637
30°	3,463	3,447	3,394
40°	3,110	3,036	2,946
50°	2,556	2,483	2,382
60°	1,730	1,723	1,490
70°	241	242	242
80°	80	78	77
90°	0	0	0

COEFFICIENTS OF UTILIZATION

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	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	102	102	102	100	100	100	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88	88	88		
2	102	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77	77	77	77	77		
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7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40	40	40	40	40		
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36	36	36	36	36		
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34	32	32	32	32	32		
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29	29	29	29	29		

RCR=Room Cavity Ratio RC=Effective Ceiling Cavity Reflectance RW=Wall Reflectance
 Effective Floor Cavity Reflectance-20%



DuraComm Lighting

6655 Troost Ave.
Kansas City, MO 64131

1-816-472-5544
www.duracommlighting.com
quotes@duracommlighting.com

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