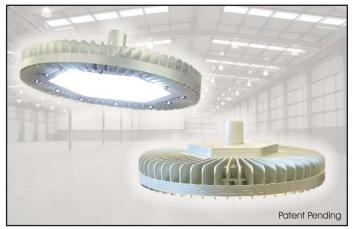
Dialight

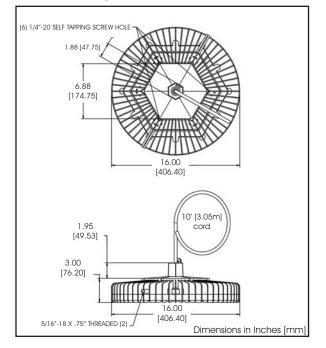


DuroSite[™] High Bay Lighting LED White Lighting Brochure for Industrial Applications





DuroSite[™] Series LED High Bay Fixture



Certifications & Ratings:

- ▷ UL1598
- ▷ CSA 22.2 #250
- ⊳ ce
- ▷ UL1598A
- ⊳ IP66
- ▷ NEMA 4X (Polycarbonate Lens Only)

Order Codes:

Dialight

Application:

First to market, the Dialight HB series LED High Bay luminaire was designed specifically to replace conventional lighting in a wide variety of industrial applications, both indoor and outdoor. It's low profile light weight design and versatile mounting options make it ideal for many applications such as warehouse, garage, bridge, tunnel and general area lighting.

All of Dialight's long life LED luminaires are designed to meet the most demanding specification criteria while offering maximum energy savings, reduced maintenance costs, and a superior quality of light.

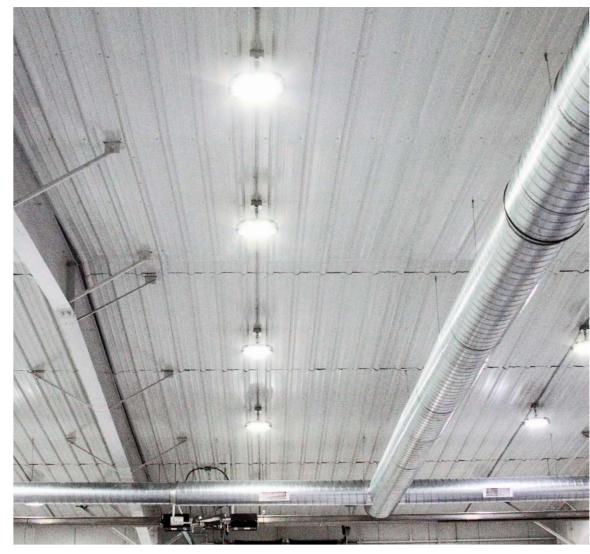
Mechanical Information:

Fixture Weight:	17 lbs (7.7 kg)
Mounting:	(1) 3/4" NPT Threaded
	or (2) 5/16"-18 x .75" NPT Thread
Electrical specifications	
Operating Voltage:	100-277VAC, 50/60 Hz
Total System Power Consumption:	150W
Operating Temp:	-40°F to +149°F (-40°C to +65°C)
Harmonics:	IEC 6100-3-2
Surge / Lightning Protection:	1 kV line to line 2 kV line to ground
THD:	<5% (120VAC) <10% (230/240VAC) <12% (277VAC)
Power Factor:	> 0.9
Construction:	
Body:	Powder Coated Aluminum
Lens:	Acrylic (UL1598 Dry Location versions) Polycarbonate (UL1598A versions)
Photometric Information	Ľ
	70

CRI (typ):	70
CCT (typ):	6000K (cool white)

Part Number	Certification	Description	Optic	Initial Fixture Lumens
HB2C4M	UL 1598A	Clear Polycarbonate	Narrow Circular	10,800
HB2C4K	UL 1598A	Clear Polycarbonate	Narrow Circular	10,000
HB7C4M	UL 1598A	Clear Polycarbonate	Narrow Oval	10,900*
HB1C4N	UL 1598 - Dry Location	Clear Acrylic	Narrow Circular	11,600
HB6C4M	UL 1598 - Dry Location	Clear Acrylic	Narrow Oval	11,500*
HB5C4M	UL 1598 - Dry Location	Diffused Acrylic	Narrow Circular	10,800
HB1C4J	UL 1598 - Dry Location	Clear Acrylic	Narrow Circular	10,600
HB3C4G	UL 1598 - Dry Location	Diffused Acrylic	Medium Circular	7,800

DuroSite[™] High Bay Lighting



Features & Benefits

- 80% lumen maintenance after 60,000 hours
- ▷ 77Im/w (LM-79) certified
- \triangleright Significant energy savings
- ▷ Instant on/off

 \triangleright

- > Maintenance free
- Mercury free
- ▷ Superior light quality
- Dark Sky Compliant
- ▷ No heat or UV
- ▷ Simple installation
- Universal input (100 -277), 50/60Hz
- Resistant to shock and vibration
- Temperature compensation technology for long life
- ▷ Copper free aluminum
- ▷ Dark-Sky Compliant

*DuroSite Series LED High Bay Fixture Competitive Analysis (less than 1 year payback period)

Fixture Type	Dialight DuroSite Series LED High Bay (150W)	(6) T5HO Fluorescent (324W)	Metal Halide (400W)	High Pressure Sodium (400W)
Total System Wattage	150W	389W	480W	480W
Avg. Lamp Life	60,000	30,000	20,000	24,000
	Dialight fix	ture savings compo	arison	
Annual Energy	y Savings	\$13,500	\$18,771	\$18,771
Lifetime Relamp & Maintenance Savings Annual kWh Savings		\$19,706	\$29,559	\$29,559
		123,486 kWh	170,646 kWh	170,646 kWh
Annual CO ₂ Emission F	Reduction (in tons)	106	146	146

*All figures are typical and based on calculations provided by the United States Department of Energy Based on a warehouse installation of 59units. The full case study is available online at: http://www.dialight.com/News/Details/frontline_case_study

Typical	
Typical	Applications

- \triangleright Warehouse
- ▷ Manufacturing
- \triangleright Cold Storage
- ⊳ Canopy
- ⊳ Gymnasium
- ▷ Tunnels



Designed in the U.S.A Meets Buy American requirements under the American Recovery and Reinvestment Act 2009

HB2C4M Series High Bay Fixture Light Measurement Data

		Illuminar	nce for Day	y or High L			s (Photoj	pic Footc	andles)			Illuminance Chart	
			-	~	Zones		-	~		_		3	
	•	A	B 20.40	C	D	E 2.00	F 0.80	G	1				
Ē	8	52.30	39.40	22.40	7.50			0.30	-		+	2.5	
Ħ	12	23.24	17.51	9.96	3.33	0.89	0.36	0.13	-				
eig	16	13.08	9.85	5.60	1.88	0.50	0.20	0.08	-				
Ŧ	20	8.37	6.30	3.58	1.20	0.32	0.13	0.05	-		A + b		
ji j	25 30	5.36	4.03	2.29	0.77	0.20	0.08	0.03	-				
Ē	30 40	3.72 2.09	2.80 1.58	1.59 0.90	0.53	0.14	0.06	0.02	-	7			
Mounting Height (ft)	40	2.09	1.56	0.90	0.50	0.08	0.03	0.01		L F			
-													
		Illuminon	oo for Nig	ht or Low L	ight Loval	condition	o (Saata	nia East	andlao)				
		munninan	ce for Nig		Zones		15 (30010	picrool	canules)	l 1-		2 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	
		A	в	С	D	E	F	G	1				
5	8	119.24	89.83	51.07	17.10	4.56	1.82	0.68	1				
it (f	12	53.00	39.93	22.70	7.60	2.03	0.81	0.30	-		\vee \land \land	-1.5 g	
igh	16	29.81	22.46	12.77	4.28	1.14	0.46	0.17	-		NIN	-2	
He	20	19.08	14.37	8.17	2.74	0.73	0.29	0.11	-				
ng	25	12.21	9.20	5.23	1.75	0.47	0.19	0.07			+ N	-2.5	
nti	30	8.48	6.39	3.63	1.22	0.32	0.13	0.05				3	
Mounting Height (ft)	40	4.77	3.59	2.04	0.68	0.18	0.07	0.03		3	2.5 2 1.5		
2												io of Distance to Mounting Height	
						90° 80° 70° 60°	0° 40° 3	In 0° 20°				 24,617 Total Lumens for Night or Low Light Level Conditions (scotopic) 10,797 Total Lumens for Day or High Light Level Conditions (photopic) Front Side 	
					IO O ensity \	l 74 /alues	2 45 for Nig	14 1490 ght or I	Low Light Lev	18 2980 vel Conditio	110 3724 ns (Scotop	ic Candelas) pic Candelas)	
					10		12	14	16	18	110		
					0	1	670	339	7 5093	6590	8490		
										-			

	of 100' x 100' Room Aounting Height)
Number of Fixtures	Illuminare (footcandles)
9	9
16	15
20	19

*Ceiling Reflectance = 0.8

Wall Reflectance=0.5Floor Reflectance=0.2Work Plane Height = 2.5 '

HB2C4K Series High Bay Fixture Light Measurement Data

	Illuminanc	e for Day o	r High Ambi	ent Light Le Zones		ions (Pho	•	Illuminance Chart
	Α	в	с	D	E	F	G	3
8	53.01	38.41	21.02	5.58	1.67	0.56	0.19	2.5
12	23.56	17.07	9.34	2.48	0.74	0.25	0.08	2.3
16	13.25	9.60	5.25	1.40	0.42	0.14	0.05	
20	9.20	6.67	3.65	0.97	0.26	0.10	0.03	1.5
25	5.89	4.26	2.34	0.62	0.17	0.06	0.02	
30	4.09	2.96	1.62	0.43	0.12	0.04	0.01	
40	2.30	1.67	0.91	0.24	0.07	0.02	0.01	
	Illuminance	e for Night	or Low Ambi	ient Light Le Zones	evel condi S	tions (Sco	otopic Footca	
	A	В	С	D	E	F	G	
8	120.86	87.57	47.92	12.73	3.82	1.27	0.42	-1.5 @
12	53.72	38.92	21.30	5.66	1.70	0.57	0.19	
16	30.22	21.89	11.98	3.18	0.95	0.32	0.11	-2 "
20	20.98	15.20	8.32	2.21	0.59	0.22	0.07	-2.5
25	13.43	9.71	5.33	1.41	0.38	0.14	0.05	3
30	9.33	6.76	3.70	0.98	0.26	0.10	0.03	3 2.5 2 1.5 1 0.5 0 -0.5 -1 -1.5 -2 -2.5 -3
40	5.25	3.80	2.08	0.55	0.15	0.06	0.02	Ratio of Distance to Mounting Height
							Int	y Distribution
					90° 80° 70° 60	90° 50° 40°	Int	0 12 14 16 18 110 22,764 Total Lumens for Night or Low Light Level Conditions (scotopic)
			In	tensity Va I0	80° 70° 60	50° 40°	30° 20°	22,764 Total Lumens for Night or Low Light Level Conditions (scotopic) 9,984 Total Lumens for Day or High Light Level Conditions (photopic)
			In		80° 70° 60	50° 40°	High Amb	0 12 14 16 18 110 22,764 Total Lumens for Night or Low Light Level Conditions (scotopic) 9,984 Total Lumens for Day or High Light Level Conditions (photopic) 9° Front Side
			In	10 0	80° 70° 60	50° 40° T Day of 12 730	High Amb 14	0 12 14 16 18 110 22,764 Total Lumens for Night or Low Light Level Conditions (scotopic) 9,984 Total Lumens for Day or High Light Level Conditions (photopic) 9° Front Side ght Level Conditions (Photopic Candelas) 16 18
			In	10 0	80° 70° 60 alues for	50° 40° T Day of 12 730	High Amb 14	0 12 14 16 18 110 22,764 Total Lumens for Night or Low Light Level Conditions (scotopic) 9,984 Total Lumens for Day or High Light Level Conditions (photopic) 9° Front Side ght Level Conditions (Photopic Candelas) 16 18 110 2200 2936 3670 3670
			In	I0 0 Intensity	80° 70° 60 alues for Values	r Day or I2 730 for Nigl	High Amb I4 1468 ht or Low A	0 12 14 16 18 110 22,764 Total Lumens for Night or Low Light Level Conditions (scotopic) 9,984 Total Lumens for Day or High Light Level Conditions (photopic) 9° Front Side 9° Side 9 16 18 16 18 110 2200 2936 3670 t Light Level Conditions (Scotopic Candelas) 16

	of 100' x 100' Room Aounting Height)
Number of Fixtures	Illuminare (footcandles)
9	7
16	12.5
20	16

*Ceiling Reflectance = 0.8

Wall Reflectance=0.5Floor Reflectance=0.2Work Plane Height = 2.5 '

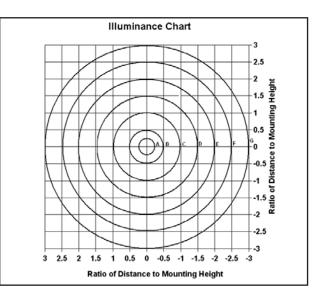
HB1C4N Series High Bay Fixture Light Measurement Data

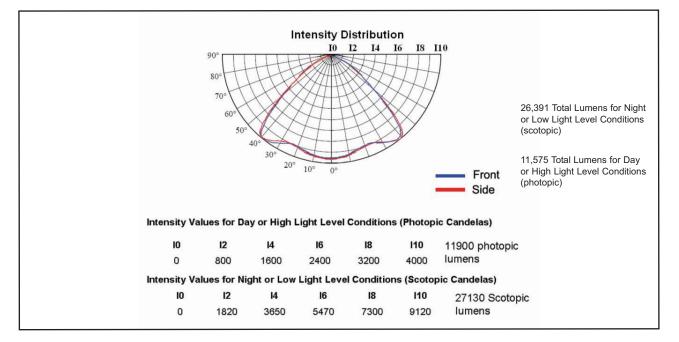
Illuminance for Day or High Light Level conditions (Photopic Footcandles)
Zones

					201163	5		
		Α	в	С	D	E	F	G
t)	8	56.00	42.00	24.20	8.40	2.30	0.90	0.40
Height (ft)	12	24.89	18.67	10.76	3.73	1.02	0.40	0.18
igh	16	14.00	10.50	6.05	2.10	0.58	0.23	0.10
нe	20	8.96	6.72	3.87	1.34	0.37	0.14	0.06
g	25	5.73	4.30	2.48	0.86	0.24	0.09	0.04
Mounting	30	3.98	2.99	1.72	0.60	0.16	0.06	0.03
oul	40	2.24	1.68	0.97	0.34	0.09	0.04	0.02
Ś								

Illuminance for Night or Low Light Level conditions (Scotopic Footcandles) Zones

				20116	5		
	Α	В	С	D	E	F	G
£ 8	127.68	95.76	55.18	19.15	5.24	2.05	0.91
	2 56.75	42.56	24.52	8.51	2.33	0.91	0.41
12 16 16 20	3 1.92	23.94	13.79	4.79	1.31	0.51	0.23
	20.43	15.32	8.83	3.06	0.84	0.33	0.15
E 2:	5 13.07	9.81	5.65	1.96	0.54	0.21	0.09
Ē 30	9.08	6.81	3.92	1.36	0.37	0.15	0.06
2: 30 4(5.11	3.83	2.21	0.77	0.21	0.08	0.04
2	-						





*Typical Example of 100' x 100' Room (Based on 30' Mounting Height)						
Number of Fixtures	Illuminare (footcandles)					
9	8					
16	14					
20	17.5					

*Ceiling Reflectance = 0.8

Wall Reflectance=0.5

Floor Reflectance=0.2

Work Plane Height = 2.5 '

HB5C4M Series High Bay Fixture Light Measurement Data

11 1 13 1	B 12.00	~	Zones		s (Photopi				Illumi	
50 4 11 1 13 1			D	E	F	G				3
11 1 13 1		C 19.40	7.00	2.60	1.10	0.50				2.5
13 1	18.67	8.62	3.11	1.16	0.49	0.22				
	10.50	4.85	1.75	0.65	0.28	0.13				
	6.72	3.10	1.12	0.42	0.18	0.08				1.5 🖥
	4.30	1.99	0.72	0.27	0.11	0.05		/		
	2.99	1.38	0.50	0.18	0.08	0.04				<u>~+~\ </u>
26	1.68	0.78	0.28	0.10	0.04	0.02		¥		
								1		
Illuminance for Night or Low Light Level conditions (Scotopic Footcandles)										
ninance	for Nigh	t or Low L			ns (Scotop	ic Footcandles)		A	A A X X	
	-	•	Zones		_	-			$ \langle \langle \rangle \rangle $	2 1.5 1.5 1.5 1.5 1 1.5 1 1.5 1 1.5 1 1.5 1 1.5 1 1.5 1.5
.82 9	B 95.76	C 44.23	D 15.96	E 5.93	F	G 1.14				
	42.56	44.25 19.66	7.09	2.63	2.51 1.11	0.51				-1.5 🚊
	23.94	11.06	3.99	1.48	0.63	0.29				-2 8
	15.32	7.08	2.55	0.95	0.40	0.18				
	9.81	4.53	1.63	0.61	0.26	0.12				-2.5
	6.81	3.15	1.13	0.42	0.18	0.08				
	3.83	1.77	0.64	0.24	0.10	0.05		3 2	.5 2 1.5 1 0.5	
						20			Ratio of Diet	ance to Mounting Height
24,530 Total Lumens for Nig or Low Light Level Condition (scotopic) 10,759 Total Lumens for Day										
				80°	500	208			From	10,759 Total Lumens for Day or High Light Level Conditions (photopic) It
				80° (70°	50° 40°	20° 10°	in 12 1	Conditions	From Side	or Low Light Level Conditions (scotopic) 10,759 Total Lumens for Day or High Light Level Conditions (photopic)
			I	80° (70° 0	50° 40° ues for 12	20° 10° Day or High L I4	io i2 i io io i io io i	Conditions	From Side 5 (Photopic Can 110	or Low Light Level Conditions (scotopic) 10,759 Total Lumens for Day or High Light Level Conditions (photopic)
			1	80° (70° 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50° 40° ues for 12 770	20° 10° Day or High L 14 1530	10 12 1 0 12 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Conditions 18 3075	From Side s (Photopic Can 110 3845	or Low Light Level Conditions (scotopic) 10,759 Total Lumens for Day or High Light Level Conditions (photopic) It
			li (Intensi	80° 70° (ity Valu 0) ity Valu	50° 40° Les for 12 770 Les for	20° 10° Day or High L I4 1530 Night or Low	ight Level l6 2300 Light Leve	Conditions 18 3075	From Side s (Photopic Can 110 3845 ns (Scotopic Ca	or Low Light Level Conditions (scotopic) 10,759 Total Lumens for Day or High Light Level Conditions (photopic) It
			li (Intensi	80° (70° 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50° 40° ues for 12 770	20° 10° Day or High L 14 1530	10 12 1 0 12 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Conditions 18 3075	From Side s (Photopic Can 110 3845	or Low Light Level Conditions (scotopic) 10,759 Total Lumens for Day or High Light Level Conditions (photopic) It
				Intensi	80° 70°	80° 70° 60° 50° 40°	90° 80° 70° 60° 40° 30° 20° 10°	90° 80° 70° 60° 50° 40° 30° 20° 10° 0°		90° 80° 70° 60° 50° 40° 20° 10° 0° 0° From

*Typical Example of 100' x 100' Room (Based on 30' Mounting Height)						
Number of Fixtures	Illuminare (footcandles)					
9	8					
16	14					
20	17.5					

*Ceiling Reflectance = 0.8

Wall Reflectance=0.5Floor Reflectance=0.2Work Plane Height = 2.5 '

HB1C4J Series High Bay Fixture Light Measurement Data

		munimaric	e for Day o	r High Ambi	ent Light Le	vel condit	tions (Pho	topic Foot	candles)	
				-	Zones					Illuminance Chart
		A	В	C	D	E	F	G		3
E	8	57.00	41.30	22.60	6.00	1.60	0.60	0.20		2.5
Mounting Height (ft)	12	25.33	18.36	10.04	2.67	0.71	0.27	0.09		
eig	16	14.25	10.33	5.65	1.50	0.40	0.15	0.05		
Ξ	20	9.12	6.61	3.62	0.96	0.26	0.10	0.03		
ing	25	5.84	4.23	2.31	0.61	0.16	0.06	0.02		
Ţ	30	4.05	2.94	1.61	0.43	0.11	0.04	0.01		
Jo I	40	2.28	1.65	0.90	0.24	0.06	0.02	0.01		/ / / / / \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
2										
		Illuminance	e for Night	or Low Amb	-		itions (Sco	otopic Foot	candles)	
		_	_	•	Zones		_			2 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5
Ê		A	B	C	D	E	F	G		-1.5 0
ĭ	8	129.96	94.16	51.53	13.68	3.65	1.37	0.46		
	12	57.76	41.85	22.90	6.08	1.62	0.61	0.20		
Ť	16	32.49	23.54	12.88	3.42	0.91	0.34	0.11		-2.5
ng	20 25	20.79 13.31	15.07 9.64	8.24 5.28	2.19 1.40	0.58	0.22	0.07		
I	25 30	9.24	6.70	3.66	0.97	0.37	0.14	0.05		3 2.5 2 1.5 1 0.5 0 -0.5 -1 -1.5 -2 -2.5 -3
lou	40	5.24	3.77	2.06	0.55	0.20	0.05	0.03		Ratio of Distance to Mounting Height
2		0.20	0.11	2.00	0.00	0.10	0.00	0.02		Ratio of Distance to Modifiang neight
							- 40° 30°	Inten	sity Dis I0 I2	Itibution I4 I6 IS II0 II0 24,159 Total Lumens for Night or Low Light Level Conditions (scotopic) I0,596 Total Lumens for Day or High Light Level Conditions (photopic) Front Side
					nsity Valua I0 0	80° 70° 60° 50° es for Da I2 790	40° 30°	20° 10°	10 12 0° tLight Lev 16 2370	14 16 18 110 24,159 Total Lumens for Night or Low Light Level Conditions (scotopic) 10,596 Total Lumens for Day or High Light Level Conditions (photopic)
					nsity Value I0 0 ensity Val	80° 70° 60° 50° es for Da I2 790 ues for N	40° 30° ny or Higi light or L	20° 10° h Ambient I4 I580 ow Ambie	10 12 0° t Light Lev 16 2370 ent Light L	I4 I6 I8 I10 24,159 Total Lumens for Night or Low Light Level Conditions (scotopic) 10,596 Total Lumens for Day or High Light Level Conditions (photopic) Front Side vel Conditions (Photopic Candelas) I10 3160 3950 evel Conditions (Scotopic Candelas) Image: Scotopic Candelas)

*Typical Example of 100' x 100' Room (Based on 30' Mounting Height)						
Number of Fixtures	Illuminare (footcandles)					
9	8					
16	14					
25	17.5					

*Ceiling Reflectance = 0.8

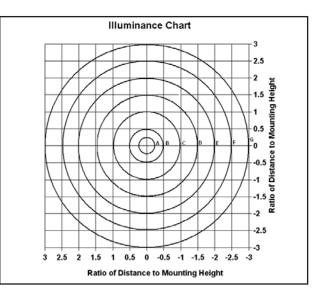
Wall Reflectance=0.5Floor Reflectance=0.2Work Plane Height = 2.5 '

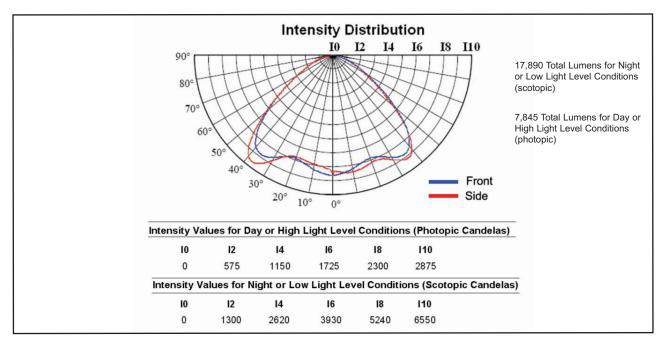
HB3C4G Series High Bay Fixture Light Measurement Data

		Illuminance for Day or High Ambient Light Level conditions (Photopic Foot Zones											
		Α	в	С	D	Е	F	G					
Ē	8	38.40	28.80	15.80	4.90	1.50	0.60	0.30					
Mounting Height	12	17.07	12.80	7.02	2.18	0.67	0.27	0.13					
eiĝ	16	9.60	7.20	3.95	1.23	0.38	0.15	0.08					
	20	6.14	4.61	2.53	0.78	0.24	0.10	0.05					
Ĩ	25	3.93	2.95	1.62	0.50	0.15	0.06	0.03					
	30	2.73	2.05	1.12	0.35	0.11	0.04	0.02					
ž	40	1.54	1.15	0.63	0.20	0.06	0.02	0.01					

Illuminance for Night or Low Ambient Light Level conditions (Scotopic Footcand Zones

					201103			
		Α	В	С	D	Е	F	G
E	8	87.55	65.66	36.02	11.17	3.42	1.37	0.68
Ĕ	12	38.91	29.18	16.01	4.97	1.52	0.61	0.30
Height	16	21.89	16.42	9.01	2.79	0.86	0.34	0.17
ž	20	14.01	10.51	5.76	1.79	0.55	0.22	0.11
ng	25	8.97	6.72	3.69	1.14	0.35	0.14	0.07
Ē	30	6.23	4.67	2.56	0.79	0.24	0.10	0.05
Mounting	40	3.50	2.63	1.44	0.45	0.14	0.05	0.03
Σ								





*Typical Example of 100' x 100' Room (Based on 30' Mounting Height)						
Number of Fixtures	Illuminare (footcandles)					
9	6					
16	10					
25	16					

*Ceiling Reflectance = 0.8

Wall Reflectance=0.5

Floor Reflectance=0.2

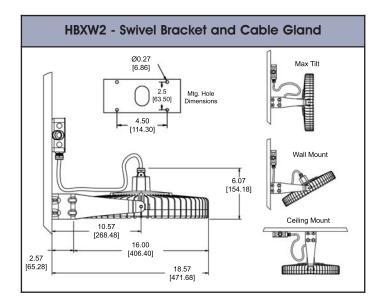
Work Plane Height = 2.5 '

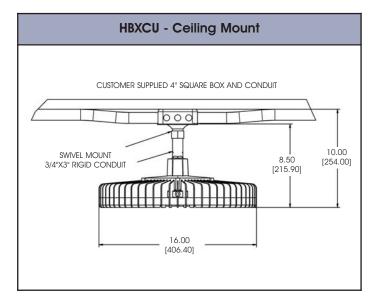
DuroSite[™] High Bay Fixture Mounting Options & Accessories

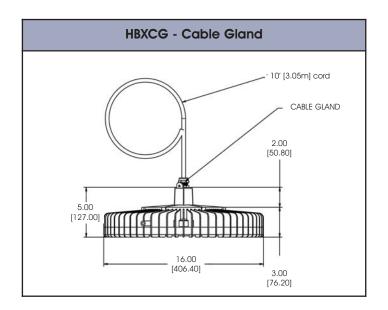
	Part Number	Description	Kit Includes	UL1598	UL1598A
	No Part Number	Pendant Mount (Conduit supplied by installer)	Conduit supplied by installer	x	x
	HBXW2	Swivel Bracket and Cable Gland	Swivel Bracket Bracket to fixture hardware Cable Gland	x	х
	HBXCU	Ceiling Mount	Swivel Hanger Cover 3" Conduit Nipple	Х	
0	HBXCG	Cable Gland	Cable Gland	Х	Х
	HBXLP-*	Loop and Plug	Hanger Loop 277/480 Twist Lock Plug	Х	
	HBXHP-*	Hook and Plug	Hanger Hook 277/480 Twist Lock Plug	х	
	HBXB1	Power Box Pendant Mount 277VAC	Pendant mount 277VAC	х	
	HBXB3	Power Box Pendant Mount 480VAC	Pendant mount 480VAC	х	
	HBXB2	Power Box Ceiling Mount 277VAC	Ceiling mount 277VAC	х	
φ.	HBXB4	Power Box Ceiling Mount 480VAC	Ceiling mount 480VAC	х	
	HBXT2	Junction Box with Transformer 347-480VAC to 240VAC	NEMA Box with Integrated Transformer	×	x

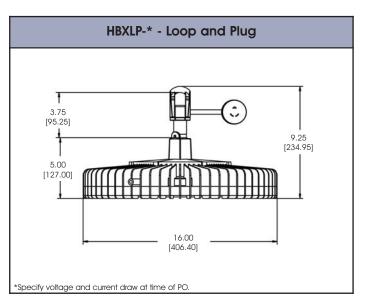
*Specify voltage and current draw at time of PO.

HB Series High Bay Fixture Mounting Options & Accessories

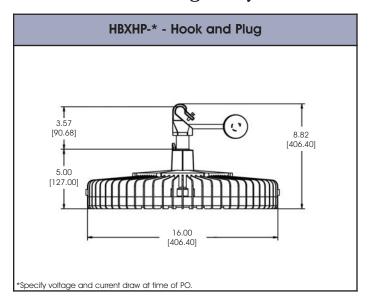


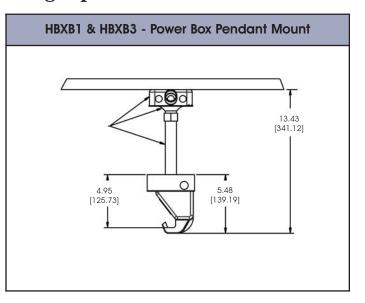


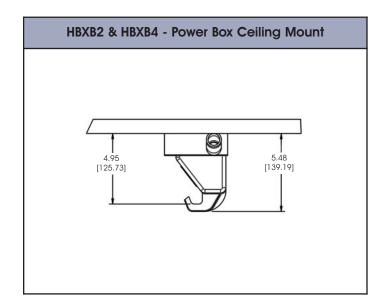




HB Series High Bay Fixture Mounting Options & Accessories







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