



Lightolier 3D Printed Low Bay, BAL Series allows for a multitude different combinations, tailored to seamlessly match any indoor environment. No ceiling? No problem. Bringing glare control of downlights to open ceilings with plenty of options. Create dynamic new decorative styles for your projects by selecting from a variety of polycarbonate materials and visually rich surface textures. Unleash your inner creator and select from the many options these Low Bays have to offer, unlike any other on the market.

Project: _____

Location: _____

Cat.No: _____

Type: _____

Qty: _____

Notes: _____

Fixture

example: 3DPI LB L WHST LF BSST SR 10L DF 27K CO WH

Series	Outer Color	Outer Texture	Inner Color	Inner Texture	Lumens	Optics/Beams	CRI/CCT	Canopy types	Canopy colors
3DPI LB L Low Bay Large	Satin colors BKST Black BSST Brass BZST Bronze CAPP Cappuccino GYST Grey WHST White	For Satin outer shade LF Layered Fine NL Natural Lines For Transparent outer colors TC Tufted Coarse PY Pyramids HL Horizontal Lines WO Woven Oval	N None WHHR Glossy White (high reflective) BKST Satin Black BSST Satin Brass BZST Satin Bronze CAPP Satin Cappuccino GYST Satin Grey	N None SR Smooth BR Baffle FP Floral	10L 1000lm 15L 1500lm 20L 2000lm 27L 2700lm 38L 3800lm 45L 4500lm 60L 6000lm 75L 7500lm	MB Medium (25°) WB Wide (36°) VWB Very Wide (60°) DF Diffuse (84°) Note: If any of the three inner reflector options are chosen (SR/BR/FP), then the optic/Beam defaults to DF (Diffuse). Inner reflector reduces DF from 84° to 60°. All beams available when N is chosen for inner reflector.	27K 90 CRI / 2700K 30K 90 CRI / 3000K 35K 90 CRI / 3500K 40K 90 CRI / 4000K	CO Conical DI Disk	WH White mount BK Black mount #### Mounting in Shade Color (add color of your choice from the "Colors" above)
	Transparent colors CL Clear DIFF Diffuse GYSM Smokey Grey WHTL Translucent White			Note: Other combinations of attributes may be possible, please contact a member of the 3D Printing team. Most combinations are possible but will require a longer lead time to produce.					
3DPI LB S Low Bay Small	Satin colors BKST Black BSST Brass BZST Bronze CAPP Cappuccino GYST Grey WHST White	For Satin outer shade LF Layered Fine For Transparent outer colors TC Tufted Coarse	N None WHHR Glossy White (high reflective) BKST Satin Black BSST Satin Brass BZST Satin Bronze CAPP Satin Cappuccino GYST Satin Grey	N None SR Smooth Note: Optics will be 60° with the insert of a smooth reflector.	10L 1000lm 15L 1500lm 20L 2000lm 27L 2700lm 38L 3800lm	MB Medium 25° WB Wide 36° VWB Very Wide 60° DF Diffuse 84° Note: If SR smooth inner reflector is chosen (SR) then the optic/Beam defaults to DF (Diffuse) Inner reflector reduces DF from 84° to 60°. All beams available when N is chosen for inner reflector.	27K 90 CRI / 2700K 30K 90 CRI / 3000K 35K 90 CRI / 3500K 40K 90 CRI / 4000K	CO Conical DI Disk	WH White mount BK Black mount #### Mounting in Shade Color (add color of your choice from the "Colors" above)
	Transparent colors CL Clear DIFF Diffuse GYSM Smokey Grey WHTL Translucent White			Note: Other combinations of attributes may be possible, please contact a member of the 3D Printing team. Most combinations are possible but will require a longer lead time to produce.					

Note: If a different color, optics, or texture is needed, please contact a member of the 3D Printing team.
Most combinations are possible but will require a longer lead time to produce.
Different colors, textures and custom logo options are available upon request.



Unleash your inner creator

To configure your custom 3D printed luminaire, scan this QR Code with your smartphone's camera or visit us at: <https://www.3dprinted.lighting.lightolier.com/en/us/BA-Series/>

Declare.



interact
ready.

BAL Series

3D Low Bay (large & small)

Features

- **Customizable:** choose from a vast multitude of colors, textures, shapes and style combinations.
- **Sustainable:** 3D Printed products produce less carbon emissions when compared to traditional, conventional luminaire manufacturing.
- **Domestic production:** Printed & assembled in Littlestown, PA.
- **Quick delivery:** Created on-demand and shipped in weeks.
- **Lightweight:** All models under 10 lbs.

Lumens	Watts
1,000	8
1,500	11
2,000	15
2,700	21
3,800	29
4,500	35
6,000	47
7,500	59

Mounting

- **Canopy:** Two styles to choose from in any color.
- **Cord:** 10 feet clear silver cord, sized at time of installation.
- **Junction Box:** Cover plate supplied to allow mounting to industry standard 4 inch box.

Electrical

- **Dimming:** 0-10V dimmable
- **Input Voltage:** 120V - 277V
- **Frequency:** 50/60Hz
- **Power Factor:** 0.9

Labels

cULus Listed, 5 year warranty
IP20, RoHS, & IK02
Declare. LBC Red List Approved.

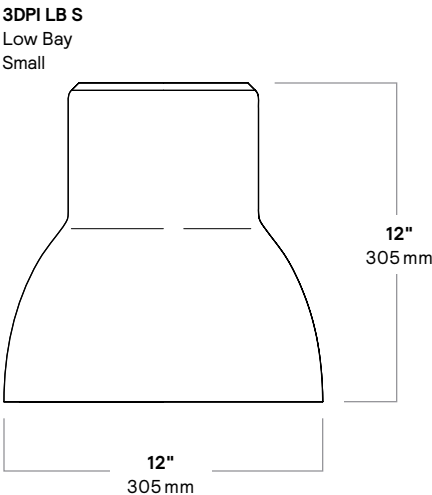
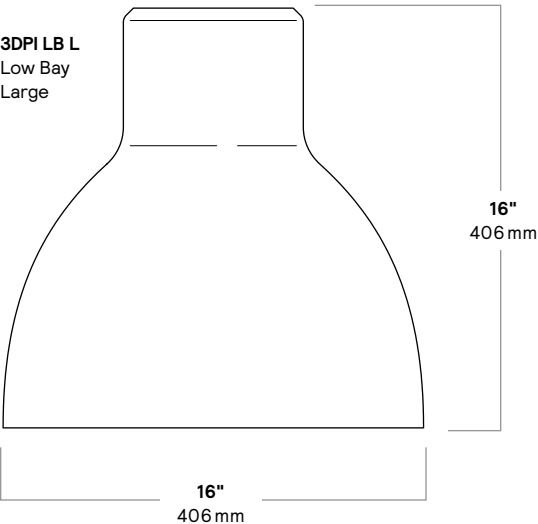
Buy American Act of 1933 (BAA)

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit www.signify.com/baa to view a current list of BAA-compliant products to confirm this product's current compliance.

Interact Pro Scalable System

Interact Pro scalable system with its simple wireless offering can make your smart building journey easy and cost effective. This system can help you boost your energy savings, reach your sustainability targets, and enhance occupancy comfort levels immediately from day one. 3D printed luminaires can be integrated into the Interact Pro scalable system using the System Bridge Accessory SBA module or the RFSR10 control module. For more information please visit: <https://www.interact-lighting.com/en-us/what-is-possible/interact-pro/scalable-system>.

Dimensions



BAL Series

3D Low Bay (large & small)

Outer Color



BKST Black BSST Brass BZST Bronze CAPP Cappuccino GYST Grey WHST White

Outer Texture



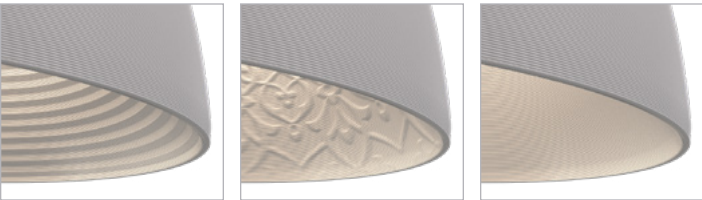
LF Layered Fine NL Natural Lines TC Tufted Coarse PY Pyramids HL Horizontal Lines WO Woven Oval

Inner Color



BKST Black BSST Brass BZST Bronze CAPP Cappuccino GYST Grey WHHR Glossy White

Inner Texture



BR Baffle FP Floral SR Smooth

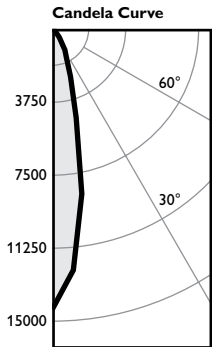
BAL Series

3D Low Bay (large & small)

Adjustment Factors

CCT	Multiplier
4000K	1.08
3500K	1.06
3000K	1.00
2700K	0.96

BAL Small Clear Medium Beam 3000K



3DPI LB S CL TC NN 38L MB 30K
Luminaire Lumens **3767**
Luminaire Efficacy Rating (LER) **130**
Total Luminaire Watts **29**
Spacing Criterion (0-180) **0.40**

Zonal lumens & percentages		
Zone	Lumens	%Luminaire
0-20	2525	66.9
0-30	3346	88.8
0-40	3735	99.1
0-60	3754	99.7
0-80	3756	99.7
0-90	3757	99.7
90-180	10	0.3
0-180	3767	100

* Beam diameter is where foot-candles drop to 50% of maximum.

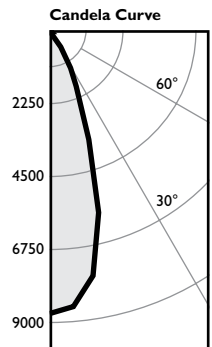
Candela Distribution

	0	22.5	45	67.5	90	Flux Lumens
0	14356	14356	14356	14356	14356	1089
5	12405	12538	12669	12803	12924	
10	8553	8758	8967	9217	9419	
15	4748	4947	5142	5333	5498	
20	2615	2700	2771	2857	2939	
25	1631	1676	1697	1737	1776	1435
30	1237	1266	1300	1315	1323	
35	539	574	642	692	726	
40	33	35	45	60	75	
45	15	16	18	18	18	
50	8	8	8	8	8	14
55	6	6	6	6	6	
60	4	4	4	4	4	
65	2	2	2	2	2	
70	1	1	1	1	1	
75	1	1	1	1	1	2
80	0	0	0	0	0	
85	0	0	0	0	0	
90	0	0	0	0	0	

Coefficients of utilization

Ceiling	80%				70%				50%				10%				0%	
Wall	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%																	
Room Cavity Ratio	0	119	119	119	119	116	116	116	116	111	111	111	102	102	102	100		
	1	115	112	110	108	112	110	108	107	106	105	103	99	98	97	96		
	2	110	106	103	100	108	105	102	99	102	99	97	96	94	93	92		
	3	106	101	97	94	104	100	96	93	97	94	92	93	91	89	88		
	4	103	97	92	89	101	96	92	88	93	90	87	90	87	85	84		
	5	99	92	88	85	97	92	87	84	90	86	83	87	84	82	81		
	6	96	89	84	81	94	88	84	80	86	83	80	84	81	79	78		
	7	92	85	80	77	91	85	80	77	83	79	77	81	78	76	75		
	8	89	82	77	74	88	81	77	74	80	77	74	79	75	73	72		
	9	86	79	74	71	86	79	74	71	78	74	71	76	73	71	70		
	10	84	76	72	69	83	76	72	69	75	71	69	74	71	68	67		

BAL Small Clear Wide Beam 3000K



3DPI LB S CL TC NN 38L WB 30K
Luminaire Lumens **3790**
Luminaire Efficacy Rating (LER) **131**
Total Luminaire Watts **29**
Spacing Criterion (0-180) **0.62**

Zonal lumens & percentages		
Zone	Lumens	%Luminaire
0-20	3385	61.7
0-30	3342	87.8
0-40	3749	98.8
0-60	3774	99.6
0-80	3778	99.7
0-90	3779	99.7
90-180	11	0.3
0-180	3790	100

* Beam diameter is where foot-candles drop to 50% of maximum.

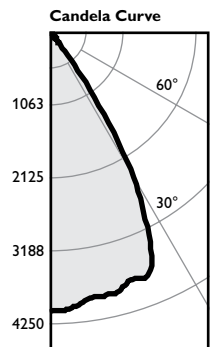
Candela Distribution

	0	22.5	45	67.5	90	Flux Lumens
0	8712	8712	8712	8712	8712	790
5	8503	8521	8531	8532	8561	
10	7653	7700	7751	7793	7824	
15	5798	5864	5932	5998	6076	
20	3543	3612	3666	3735	3805	
25	1882	1928	1961	1997	2041	957
30	1307	1326	1342	1352	1356	
35	606	650	705	743	754	
40	49	57	72	86	96	
45	22	23	23	24	24	
50	11	12	12	12	12	19
55	8	8	7	7	7	
60	5	5	5	5	5	
65	2	2	3	3	3	
70	1	1	1	1	1	
75	1	1	1	1	1	3
80	0	0	0	0	0	
85	0	1	1	1	0	
90	0	0	0	0	0	

Coefficients of utilization

Ceiling	80%				70%				50%				10%				0%	
Wall	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%																	
Room Cavity Ratio	0	119	119	119	119	116	116	116	116	111	111	111	102	102	102	100		
	1	114	112	110	108	112	110	108	106	104	104	103	99	98	97	95		
	2	110	106	102	99	108	104	101	98	101	98	96	95	94	92	91		
	3	106	100	96	93	104	99	95	92	96	93	90	92	89	88	86		
	4	101	95	91	87	100	94	90	87	92	88	85	88	86	84	82		
	5	97	91	86	82	96	90	85	82	88	84	81	85	82	80	78		
	6	94	86	82	78	92	86	81	78	84	80	77	82	79	76	75		
	7	90	83	78	74	89	82	77	74	81	77	74	79	75	73	72		
	8	87	79	74	71	86	79	74	71	78	73	70	76	72	70	69		
	9	84	76	71	68	83	75	71	68	75	70	67	73	70	67	66		
	10	81	73	68	65	80	73	68	65	72	68	65	70	67	64	63		

BAL Small Clear Very Wide Beam 3000K



3DPI LB S CL TC NN 38L VWB 30K
Luminaire Lumens **3796**
Luminaire Efficacy Rating (LER) **131**
Total Luminaire Watts **29**
Spacing Criterion (0-180) **1.06**

Zonal lumens & percentages		
Zone	Lumens	%Luminaire
0-20	1467	39
0-30	2950	77
0-40	3655	96
0-60	3765	98
0-80	3780	99
0-90	3782	100
90-180	14	0.4
0-180	3796	100

* Beam diameter is where foot-candles drop to 50% of maximum.

Candela Distribution

	0	22.5	45	67.5	90	Flux Lumens
0	1675	1675	1675	1675	1675	380
5	1669	1669	1669	1668	1667	
10	1650	1650	1649	1647	1644	
15	1615	1615	1614	1611	1605	
20	1563	1564	1562	1558	1551	
25	1497	1498	1495	1490	1481	1088
30	1422	1422	1419	1412	1402	
35	1344	1345	1341	1333	1322	
40	1274	1277	1270	1261	1253	
45	1234	1237	1223	1216	1208	
50	1151	1161	1148	1151	1143	87
55	925	939	933	942	927	
60	516	506	503	511	475	
65	210	199	197	188	160	
70	88	87	84	78	68	
75	48	49	47	45	42	12
80	30	32	30	30	29	
85	27	29	28	28	28	
90	28	29	29	29	29	

Coefficients of utilization

Ceiling	80%				70%				50%				10%				0%
Wall	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0		
RCR	Zonal cavity method - Effective floor reflectance = 20%																
Room Cavity Ratio	0	119	119	119	119	116	116	116	116	111	111	111	102	102	102	100	
	1	114	111	108	106	111	109	106	104	104	103	101	97	96	95	93	
	2	108	103	99	96	106	101	98	95	98	95	93	92	90	89	87	
	3	103	96	91	88	101	95	90	87	92	89	85	88	85	83	81	
	4	98	90	85	81	96	89	84	80	87	82	79	83	80	77	76	
	5	93	84	79	75	91	84	78	74	82	77	73	78	75	72	71	
	6	88	79	73	69	87	79	73	69	77	72	68	74	70	67	66	
	7	84	75	69	65	82	74	68	64	73	68	64	70	66	63	62	
	8	80	70	64	60	78	70	64	60	69	64	60	67	62	59	58	
	9	76	66	61	57	75	66	60	56	65	60	56	63	59	56	55	
10	72	63	57	53	71	62	57	53	61	56	53	60	56	53	51		

BAL Series

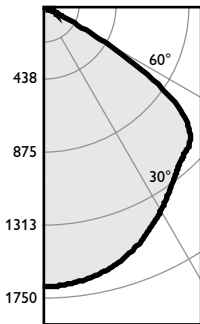
3D Low Bay (large & small)

Adjustment Factors

CCT	Multiplier
4000K	1.08
3500K	1.06
3000K	1.00
2700K	0.96

BAL Small Clear Diffuse 3000K

Candela Curve



3DPI LB S CL LF NN 38L DF 30K
Luminaire Lumens **4206**
Luminaire Efficacy Rating (LER) **128**
Total Luminaire Watts **33**
Spacing Criterion (0-180) **1.28**

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-20	609	14.5
0-30	1287	30.6
0-40	2110	50.2
0-60	3767	89.6
0-80	4006	95.2
0-90	4036	96
90-180	170	4
0-180	4206	100

* Beam diameter is where foot-candles drop to 50% of maximum.

Candela Distribution

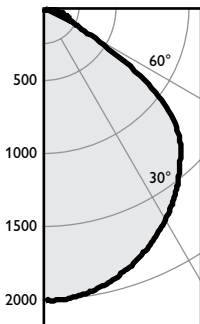
	0	22.5	45	67.5	90	Flux Lumens
0	1675	1675	1675	1675	1675	
5	1669	1669	1669	1668	1667	
10	1650	1650	1649	1647	1644	159
15	1615	1615	1614	1611	1605	
20	1563	1564	1562	1558	1551	455
25	1497	1498	1495	1490	1481	
30	1422	1422	1419	1412	1402	688
35	1344	1345	1341	1333	1322	
40	1274	1277	1270	1261	1253	840
45	1234	1237	1223	1216	1208	
50	1151	1161	1148	1151	1143	941
55	925	939	933	942	927	
60	516	506	503	511	475	786
65	210	199	197	188	160	
70	88	87	84	78	68	239
75	48	49	47	45	42	
80	30	32	30	30	29	54
85	27	29	28	28	28	
90	28	29	29	29	29	31

Coefficients of utilization

Ceiling	80%				70%				50%				10%				0%
Wall	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0		
RCR	Zonal cavity method - Effective floor reflectance = 20%																
Room Cavity Ratio	0	118	118	118	118	115	115	115	115	109	109	109	98	98	98	96	
	1	110	106	102	99	107	103	100	97	98	96	93	90	88	87	84	
	2	101	94	88	84	98	92	87	82	88	84	80	81	78	75	73	
	3	93	84	77	71	91	82	76	70	79	73	69	73	69	65	63	
	4	86	75	67	61	83	74	66	61	71	64	59	65	61	57	55	
	5	79	67	59	53	77	66	58	53	64	57	52	59	54	50	48	
	6	73	61	53	47	71	60	52	46	58	51	46	54	48	44	42	
	7	68	55	47	41	66	54	47	41	52	46	40	49	44	39	37	
	8	63	50	42	37	61	50	42	37	48	41	36	45	39	35	33	
	9	59	46	38	33	57	46	38	33	44	37	33	42	36	32	30	
10	55	43	35	30	54	42	35	30	41	34	30	38	33	29	27		

BAL Small White Diffuse 3000K

Candela Curve



3DPI LB S WHST LF WHHR SR 38L DF 30K
Luminaire Lumens **4433**
Luminaire Efficacy Rating (LER) **135**
Total Luminaire Watts **33**
Spacing Criterion (0-180) **1.24**

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-20	720	16.2
0-30	1518	34.2
0-40	2473	55.8
0-60	4074	91.9
0-80	4389	99
0-90	4426	99.8
90-180	7	0.2
0-180	4433	100

* Beam diameter is where foot-candles drop to 50% of maximum.

Candela Distribution

	0	22.5	45	67.5	90	Flux Lumens
0	1996	1996	1996	1996	1996	
5	1984	1982	1979	1977	1976	
10	1949	1945	1941	1937	1935	188
15	1894	1889	1883	1878	1875	
20	1824	1818	1811	1805	1800	532
25	1742	1734	1726	1719	1714	
30	1647	1639	1630	1621	1616	798
35	1541	1532	1522	1513	1507	
40	1422	1412	1402	1393	1386	955
45	1297	1287	1275	1265	1257	
50	1108	1090	1070	1050	1037	978
55	769	741	705	671	647	
60	344	328	310	292	283	624
65	185	182	178	175	174	
70	153	151	148	145	144	196
75	117	115	112	110	108	
80	79	76	73	70	69	119
85	38	35	32	29	27	
90	0	0	0	0	0	37

Coefficients of utilization

Ceiling	80%				70%				50%				10%				0%	
Wall	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%																	
Room Cavity Ratio	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	100		
	1	111	107	103	100	108	105	101	98	100	98	95	96	94	92	88		
	2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	76		
	3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	66		
	4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	58		
	5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	51		
	6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	45		
	7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	40		
	8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	36		
	9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	33		
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	30			