



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.

This portfolio of luminaires is powered by myCreation, Genlyte's advanced additive manufacturing technology that enables rapid production of high-quality, customizable luminaires. It streamlines design-to-delivery with on-demand colors, textures, and configurations—while reducing components and using 3D-printed parts made from at least 75% recycled or mass-balanced, bio-circular materials.

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 BAL Series luminaire, scan this QR Code or visit us at:
<https://www.3dconfigurator.mycreation.signify.com/lightolier/TCLLB1>

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
([View full Declare label](#))

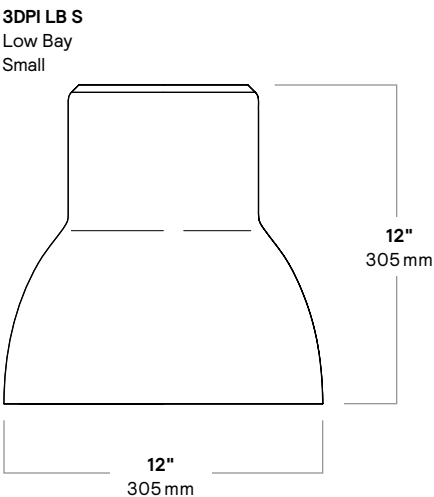
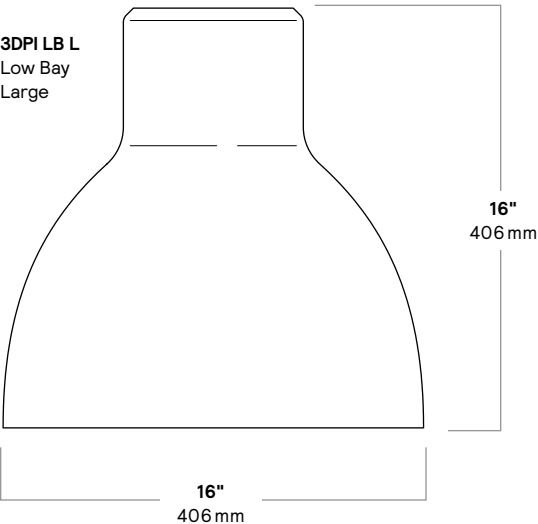
Buy American Act of 1933 (BAA)

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 for intelligent buildings

Interact for intelligent buildings 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 for intelligent buildings system using the System Bridge Accessory SBA module or the RFSR10 control module. For more information please visit: <https://www.genlyte.com/en-us/brands/signify-interact/interact-for-intelligent-buildings>

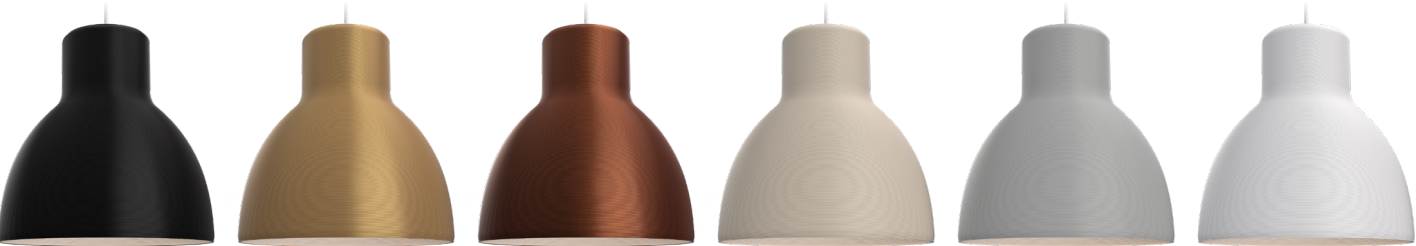
Dimensions



BAL Series

3D Low Bay (Large & Small)

Outer Color



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

Outer Texture



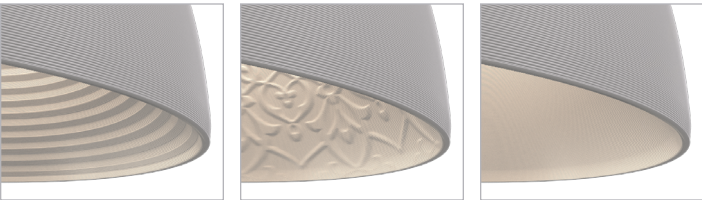
LF Layered Fine NL Natural Lines TC Tufted Coarse PY Pyramids HL Horizontal Lines WO Woven Oval

Inner Color



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

Inner Texture



BR Baffle FP Floral SR Smooth

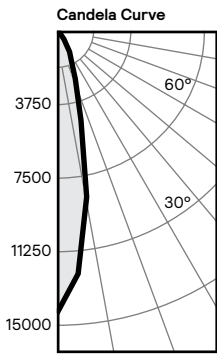
BAL Series

3D Low Bay

Adjustment Factors

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

BAL Small Clear Single Shade 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.

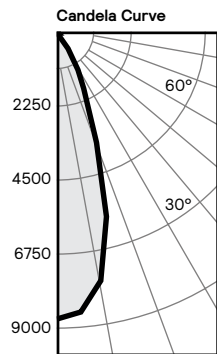
Candela Distribution

	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	5
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	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 Single Shade 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.

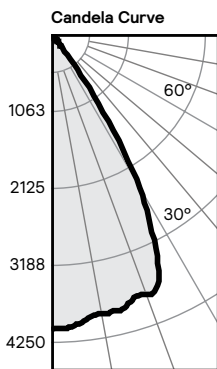
Candela Distribution

	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	100	100
	1	114	112	110	108	112	110	108	106	106	104	103	99	98	97	95	95	95
	2	110	106	102	99	108	104	101	98	101	98	96	95	94	92	91	91	91
	3	106	100	96	93	104	99	95	92	96	93	90	92	89	88	86	86	86
	4	101	95	91	87	100	94	90	87	92	88	85	88	86	84	82	82	82
	5	97	91	86	82	96	90	85	82	88	84	81	85	82	80	78	78	78
	6	94	86	82	78	92	86	81	78	84	80	77	82	79	76	75	75	75
	7	90	83	78	74	89	82	77	74	81	77	74	79	75	73	72	72	72
	8	87	79	74	71	86	79	74	71	78	73	70	76	72	70	69	69	69
	9	84	76	71	68	83	75	71	68	75	70	67	73	70	67	66	66	66
	10	81	73	68	65	80	73	68	65	72	68	65	70	67	64	63	63	63

BAL Small Clear Single Shade 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

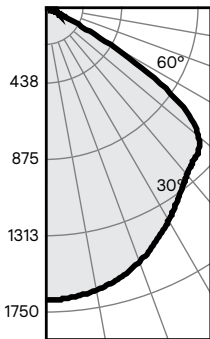
3D Low Bay

Adjustment Factors

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

BAL Small Clear Single Shade 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

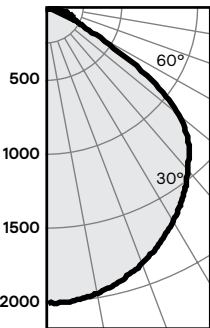
	0	22.5	45	67.5	90	Flux Lumens
0	1675	1675	1675	1675	1675	
5	1669	1669	1669	1668	1667	
10	1650	1650	1649	1647	1644	159
15	1615	1615	1614	1611	1605	
20	1563	1564	1562	1558	1551	455
25	1497	1498	1495	1490	1481	
30	1422	1422	1419	1412	1402	688
35	1344	1345	1341	1333	1322	
40	1274	1277	1270	1261	1253	840
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 Double Shade 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	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			

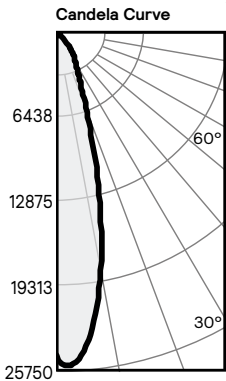
BAL Series

3D Low Bay

Adjustment Factors

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

BAL Large Clear Single Shade Medium Beam 3000K



3DPI LB L CL TC NN 75L MB 30K
Luminaire Lumens **6666**
Luminaire Efficacy Rating (LER) **113**
Total Luminaire Watts **59**
Spacing Criterion (0-180) **0.44**

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-20	4478	67.2
0-30	5955	89.3
0-40	6536	98.1
0-60	6577	98.7
0-80	6619	99.3
0-90	6629	99.4
90-180	37	0.6
0-180	6666	100

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

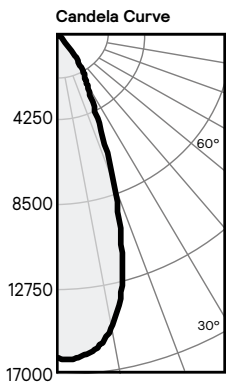
Candela Distribution

	0	22.5	45	67.5	90	Flux Lumens
0	25096	25096	25096	25096	25096	
5	23867	23404	22801	22107	21455	
10	18184	17539	16627	15680	14790	1917
15	11121	10565	9774	8915	8152	
20	5911	5634	5239	4861	4550	2562
25	3492	3336	3180	3006	2846	
30	2476	2430	2374	2270	2153	1477
35	1530	1398	1108	696	422	
40	47	43	38	36	31	581
45	24	24	23	21	23	
50	18	18	20	17	19	20
55	20	35	27	22	24	
60	37	30	42	36	30	22
65	35	42	38	33	31	
70	26	26	20	19	18	28
75	15	16	13	13	12	
80	10	12	10	11	10	14
85	9	9	8	9	8	
90	6	6	5	6	6	9

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	99		
	1	114	112	110	108	112	110	108	106	106	104	103	99	98	97	95		
	2	110	106	103	100	108	104	101	99	101	99	97	95	94	93	91		
	3	106	101	97	94	104	100	96	93	97	94	92	92	90	89	87		
	4	102	96	92	89	101	95	91	88	93	90	87	89	87	85	84		
	5	99	92	88	84	97	91	87	84	90	86	83	86	84	82	80		
	6	95	88	84	80	94	88	83	80	86	82	80	84	81	79	77		
	7	92	85	80	77	91	84	80	77	83	79	76	81	78	76	75		
	8	89	82	77	74	88	81	77	74	80	76	74	78	75	73	72		
	9	86	79	74	71	85	79	74	71	78	74	71	76	73	71	69		
	10	84	76	72	69	83	76	72	69	75	71	69	74	71	68	67		

BAL Large Clear Single Shade Wide Beam 3000K



3DPI LB L CL TC NN 75L WB 30K
Luminaire Lumens **6905**
Luminaire Efficacy Rating (LER) **117**
Total Luminaire Watts **59**
Spacing Criterion (0-180) **0.62**

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-20	4366	63.2
0-30	6148	89
0-40	6774	98.1
0-60	6815	98.7
0-80	6859	99.3
0-90	6868	99.5
90-180	37	0.5
0-180	6905	100

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

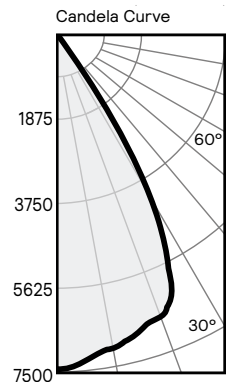
Candela Distribution

	0	22.5	45	67.5	90	Flux Lumens
0	16134	16134	16134	16134	16134	
5	15781	15891	15973	16013	16022	
10	14286	14643	14890	15051	15081	1455
15	10945	11603	12151	12457	12480	
20	6771	7450	8009	8365	8390	2911
25	3559	3934	4275	4517	4542	
30	2455	2576	2653	2726	2733	1782
35	1238	1450	1612	1708	1708	
40	48	53	58	60	60	626
45	26	26	29	26	27	
50	19	19	18	18	18	21
55	22	22	30	21	20	
60	28	32	33	38	30	29
65	31	33	41	40	45	
70	20	22	23	22	24	14
75	12	15	14	13	14	
80	11	12	11	10	11	10
85	10	10	9	10	10	
90	7	7	6	6	7	5

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	112	110	108	112	110	108	106	106	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 Large Clear Single Shade Very Wide Beam 3000K



3DPI LB L CL TC NN 75L VWB 30K
Luminaire Lumens **6836**
Luminaire Efficacy Rating (LER) **116**
Total Luminaire Watts **59**
Spacing Criterion (0-180) **1.06**

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-20	2676	39.1
0-30	5382	78.7
0-40	6514	95.3
0-60	6649	97.3
0-80	6758	98.9
0-90	6778	99
90-180	58	1
0-180	6836	100

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

Candela Distribution

	0	22.5	45	67.5	90	Flux Lumens
0	7438	7438	7438	7438	7438	
5	7263	7282	7307	7336	7380	
10	7033	7061	7106	7160	7218	693
15	6848	6901	6979	7049	7139	
20	6663	6627	6650	6737	6824	1983
25	6008	5998	5863	6136	6164	
30	4103	4180	4159	4410	4527	2705
35	831	1199	1692	1881	2140	
40	148	201	250	262	330	1132
45	75	93	111	95	115	
50	46	36	36	36	40	80
55	67	53	49	49	51	
60	88	76	70	68	74	55
65	74	76	77	71	74	
70	48	55	50	51	51	75
75	27	33	31	33	31	
80	20	22	21	23	23	34
85	16	17	18	19	20	
90	12	13	14	14	15	2

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		

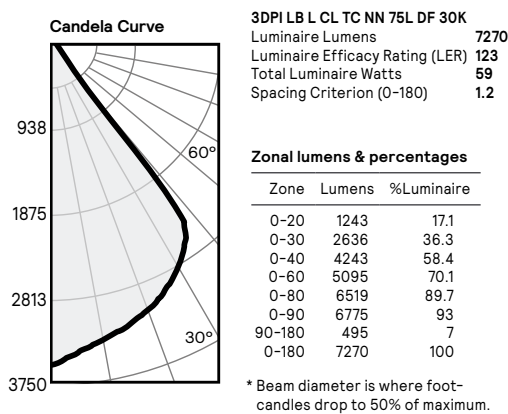
BAL Series

3D Low Bay

Adjustment Factors

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

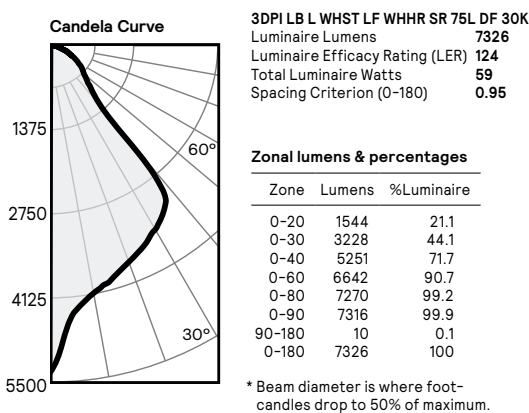
BAL Large Clear Single Shade Diffuse 3000K



Candela Distribution						Flux Lumens
	0	22.5	45	67.5	90	
0	3522	3522	3522	3522	3522	325
5	3404	3399	3400	3407	3433	
10	3294	3297	3308	3303	3331	
15	3211	3219	3233	3226	3256	
20	3109	3118	3114	3115	3149	
25	2985	2991	2983	2988	3023	917
30	2810	2831	2824	2838	2858	
35	2582	2596	2621	2636	2651	
40	480	487	599	897	1381	
45	275	259	266	289	310	
50	312	251	248	275	272	412
55	527	404	389	420	439	
60	860	797	808	806	783	
65	864	1002	831	958	913	
70	579	732	586	709	679	
75	361	480	382	460	490	508
80	265	276	268	294	317	
85	208	206	218	224	240	
90	170	172	183	186	195	

Coefficients of utilization																
Ceiling	80%				70%				50%				10%			
Wall	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	0%
RCR	Zonal cavity method - Effective floor reflectance = 20%															
Room Cavity Ratio	0	117	117	117	117	114	114	114	114	107	107	107	96	96	96	93
	1	107	102	98	94	104	99	95	92	94	91	88	84	82	80	78
	2	98	90	84	78	95	88	82	77	83	78	74	75	72	69	66
	3	90	80	73	66	87	78	71	65	74	68	63	67	63	60	57
	4	84	72	64	58	81	71	63	57	67	61	56	61	57	53	50
	5	78	66	57	51	75	64	56	51	61	55	49	56	51	47	45
	6	72	60	52	46	70	59	51	45	56	50	44	52	47	43	41
	7	68	55	47	41	66	54	46	41	52	45	40	48	43	39	37
	8	64	51	43	38	62	50	43	37	48	42	37	45	40	36	34
	9	60	47	40	35	58	47	39	34	45	38	34	42	37	33	31
	10	56	44	37	32	55	43	36	32	42	36	31	39	34	30	29

BAL Large White Double Shade Diffuse 3000K



Candela Distribution						Flux Lumens
	0	22.5	45	67.5	90	
0	5373	5373	5373	5373	5373	421
5	4411	4414	4485	4552	4569	
10	4130	4128	4157	4177	4172	
15	3950	3962	3980	3994	3992	
20	3793	3813	3826	3835	3838	
25	3630	3648	3661	3669	3676	1684
30	3460	3470	3484	3493	3497	
35	3274	3290	3302	3314	3316	
40	1811	2268	2670	2851	2891	
45	900	918	935	950	954	
50	727	731	739	745	750	817
55	635	639	643	644	652	
60	516	518	524	525	536	
65	401	401	407	408	417	
70	294	295	299	304	307	
75	195	199	202	208	209	409
80	109	111	114	118	121	
85	28	30	33	37	40	
90	1	1	1	1	1	

Coefficients of utilization																
Ceiling	80%				70%				50%				10%			
Wall	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	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	111	108	104	101	109	105	102	100	106	104	103	94	92	91	89
	2	104	97	92	87	101	95	90	86	101	98	96	86	83	80	79
	3	96	88	81	76	94	86	80	75	96	93	90	78	75	72	70
	4	90	80	73	67	88	79	72	67	92	88	85	72	68	64	62
	5	84	73	66	60	82	72	65	60	88	84	81	66	62	58	56
	6	78	67	60	54	77	66	59	54	84	80	77	61	57	53	51
	7	73	62	54	49	72	61	54	49	81	77	74	57	52	48	46
	8	69	57	50	45	68	57	50	45	78	73	70	53	48	44	42
	9	65	53	46	41	64	53	46	41	75	70	67	50	44	40	39
	10	61	50	43	38	60	49	42	38	72	68	65	46	41	37	36