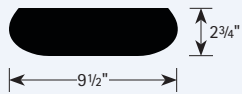


**FEATURES**

- Extruded aluminum housing
- Direct/Indirect Luminaire
- Available with either T8, T5, or T5HO lamps
- Die cast aluminum couplers and end caps
- Controls compatible
- Attractive, contoured end cap
- Modular suspension points offer ease of installation
- Adjustable yoke cable hanger allows vertical adjustments and horizontal balancing
- Fixed louver stays in housing, even if fixture is struck or damaged

**SHAPE AND DIMENSIONS**



**PROJECT INFORMATION**

Project Name	Type
Catalog No.	Date

**CONSTRUCTION**

- 4', 8', and 12' housings
- Reinforcement provides maximum rigidity across the entire housing.
- Diecast aluminum end caps provide zero tolerance alignment between fixtures, resulting in consistently straight rows with no snaking.
- Upper reflectors are constructed of specular anodized aluminum for precise upward distribution.
- Relamped from above

**FINISH**

The housing is finished with a baked powder coat matte white finish as standard. Diecast end caps and intermediate couplers are painted to match the housing. Hanging stems and canopies are painted white. Cable fittings are standard chrome.

**SHIELDING**

- Louvers are securely attached to the housing from the top, eliminating any chance of loosening or falling from the fixture.
- Constructed of semi-specular anodized aluminum, the eleven-cell louver (LD) measures 1 1/2" high and provides maximum efficiency and a glare-free environment.
- Specular aluminum is available (LS). A variety of lenses are available.

–The lenses slide into a track in the bottom of the extrusion to make it completely captive. This captivity makes the lensed Bene ideal for laboratories, hallways, or schools.

**MOUNTING**

Bene utilizes a unique hanging system that makes vertical and horizontal adjustment effortless. The aircraft cable assembly is totally adjustable. Precise horizontal balancing is accomplished by sliding a cable gripper along a metal yoke on each end. The cable gripper is simply turned and locked into place once the fixture is leveled. The double hanging system allows the suspension points to be placed on 48" centers for quick and easy installation. Rigid stems are available as options. Extruded aluminum corners are available to make up patterns.

**LABELS AND ELECTRICAL**

- UL 1598 or CUL labels
- Prewired w/ either T5, T5HO, or T8 electronic ballasts
- Damp label available on most models
- Quick connect plugs standard

<b>Name:</b>	BENE-3T8-LD18-E
<b>Test #:</b>	2630
<b>Efficiency:</b>	90.3%
<b>LER:</b>	78

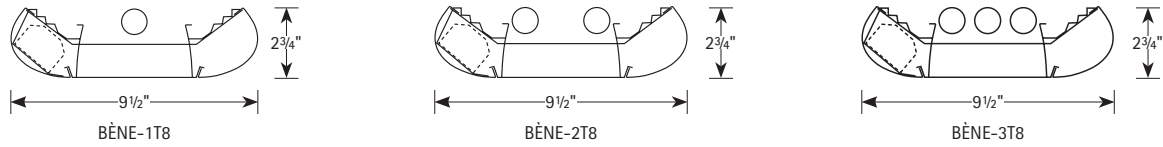
**ORDERING INFORMATION**

**EXAMPLE: BENE-8-3T8-CM48-LD-EU-MW**

MODEL		LAMP TYPE AND PROFILE		MOUNTING METHOD		ADJUSTABLE CABLE LENGTH		BALLAST		VOLTAGE		FINISH	
BENE Bène		1T5 One T5 Lamp <sup>1</sup>		CM Adjustable Aircraft Cable Mount (Std.)	48 48"	96 96"	Other lengths available on request.	E Electronic, Instant Start, (Std. for T8)	U 120V-277V	120 120V	MW Matte White (Std.)		
		2T5 Two T5 Lamps <sup>1</sup>									EP Electronic, Programmed Start (Std. for T5 & T5HO, optional for T8)	277 277V	ZT ZET Metallic Silver
		3T5 Three T5 Lamps <sup>1</sup>						ED Electronic, Dimming (Must specify)	347 347V	<b>OPTIONS</b> DC Dust Cover LR Left/Right Switching (2-Lamp only) IBOB Inboard/Outboard Switching (3-Lamp only) EL One Emergency Battery Pack <sup>3,4</sup> EMC One Emergency Circuit <sup>5</sup> NL Night Light Circuit <sup>4,5</sup> GLR Fast Blow Fuse GMF Slow Blow Fuse TBAR T-Bar Mounting CSA UL listed or CSA certified for Canada DL Damp Label (Available on most models)			
		1T5HO One T5HO Lamp <sup>1</sup>						Unless specified, Alera will use fewest ballasts possible.					
		2T5HO Two T5HO Lamps <sup>1</sup>											
		3T5HO Three T5HO Lamps <sup>1</sup>											
		1T8 One T8 Lamp											
		2T8 Two T8 Lamps											
		3T8 Three T8 Lamps											
ROW LENGTH		DISTRIBUTION		SHIELDING									
4 4' Single		Blank 60% Uplight, 40% Downlight		LD Low Iridescent Semi-Specular Louver (Std.)									
8 8' Single		0/100 0% Uplight, 100% Downlight <sup>2</sup>		LS Low Iridescent Specular Louver									
12 12' Single		20/80 20% Uplight, 80% Downlight <sup>2</sup>		LD18 Low Iridescent Semi-Specular 18-Cell Louver									
– Indicate row length over 12' in 4' increments		40/60 40% Uplight, 60% Downlight <sup>2</sup>		LS18 Low Iridescent Specular 18-Cell Louver									
<b>Note:</b> Rows over 12' will be configured by Alera. Example: 16' will be (2) 8'. Alternate configurations: contact factory.		85/15 85% Uplight, 15% Downlight		A12 Pattern 12 Acrylic Lens									
		CLC Center Lamp Cover for A/V Mode		A19 Pattern 19 Acrylic Lens									

<sup>1</sup> T5/T5HO at risk for socket shadow in downlight component.  
<sup>2</sup> Dust cover not available when using these optical distribution covers.  
<sup>3</sup> Specify voltage. For additional, specify quantity before nomenclature (example: 2EL120).  
<sup>4</sup> Not available with all configurations; some limitations apply. Contact factory for details.  
<sup>5</sup> One extra feed drop per row with through wiring. (Standard is one 4ft lamp per circuit.)

CROSS SECTION



PHOTOMETRIC DATA

LUMINAIRE DATA Test 15291

Luminaire	BÈNE-1T820/80-LD-E Bène Curves 9" x 48" 1L w/1 x 11 Cell Semi-Specular Louver & Perf Lamp Cover
Ballast	RCN-1S32-SC
Ballast Factor	0.88
Lamp	F32T8
Lumens per Lamp	2900
Watts	34
Mounting	Pendant
Shielding Angle	0° = 21 90° = 35
Spacing Criterion	0° = 1.25 90° = 1.75
Luminous Opening in Feet	Length: 3.80 Width: 0.37 Height: 0.00

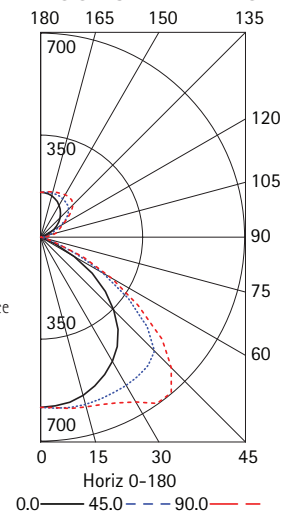
AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	4471	4471	4471	4471	4471
30	4349	4721	5189	5622	5773
40	4127	4797	5736	6766	6966
45	3844	4656	5976	6648	6864
50	3454	4395	5681	6134	6467
55	2883	3937	4912	5232	5446
60	2036	3154	3797	3950	4318
65	996	1775	2373	2645	2898
70	157	403	1052	1119	1030
75	118	207	325	503	532
80	88	176	220	309	309
85	88	88	176	176	176

COEFFICIENTS OF UTILIZATION (%)

RCR	RC					70					50					0
	RW	70	50	30	10	70	50	30	10	50	30	10	0	0		
1	80	77	75	72	77	74	72	69	68	66	64	52	0	0		
2	74	68	64	60	70	66	62	58	60	57	54	44	0	0		
3	68	61	55	51	64	58	53	49	53	49	46	38	0	0		
4	62	54	48	43	59	52	46	42	48	43	40	33	0	0		
5	57	48	42	37	54	46	41	36	43	38	34	29	0	0		
6	53	43	37	32	50	42	36	32	38	34	30	25	0	0		
7	49	39	33	28	46	38	32	28	35	30	26	22	0	0		
8	45	35	29	25	43	34	29	25	32	27	23	20	0	0		
9	42	32	26	22	40	31	26	22	29	24	21	17	0	0		
10	39	30	24	20	37	29	23	20	27	22	19	16	0	0		

INDOOR CANDELA PLOT



Test Date 5/2/00

PHOTOMETRIC DATA

LUMINAIRE DATA Test 15290

Luminaire	BÈNE-2T820/80-LD-E Bène Curves 9" x 48" 2L w/1 x 11 Cell Semi-Specular Louver & Perf Lamp Cover
Ballast	RCN-2P32-SC
Ballast Factor	0.88
Lamp	F32T8
Lumens per Lamp	2900
Watts	62
Mounting	Pendant
Shielding Angle	0° = 21 90° = 24
Spacing Criterion	0° = 1.23 90° = 1.28
Luminous Opening in Feet	Length: 3.80 Width: 0.37 Height: 0.00

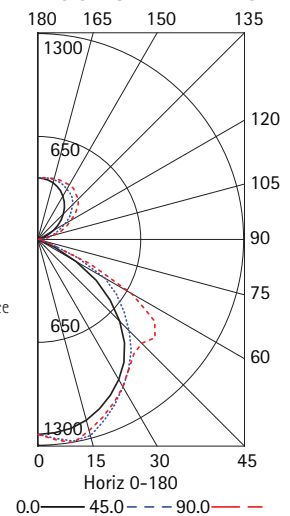
AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	9432	9432	9432	9432	9432
30	9035	9618	9521	9556	9503
40	8515	9004	9164	9334	9434
45	7914	8369	8813	9603	10047
50	7110	7539	8468	10338	11505
55	5993	6460	8115	10811	12026
60	4287	4946	7533	9248	10458
65	2192	2953	5290	6213	6521
70	336	851	2216	2171	2015
75	237	385	592	947	1065
80	176	309	397	573	661
85	176	176	264	351	351

COEFFICIENTS OF UTILIZATION (%)

RCR	RC					70					50					0
	RW	70	50	30	10	70	50	30	10	50	30	10	0	0		
1	78	75	73	70	74	72	69	67	65	63	61	47	0	0		
2	72	67	62	59	68	63	60	56	57	54	52	41	0	0		
3	66	59	54	49	62	56	51	48	51	47	44	35	0	0		
4	60	52	47	42	57	50	45	41	46	41	38	30	0	0		
5	56	47	41	36	53	45	39	35	41	36	33	27	0	0		
6	51	42	36	32	49	40	35	31	37	32	29	23	0	0		
7	48	38	32	28	45	37	31	27	34	29	26	21	0	0		
8	44	35	29	25	42	33	28	24	31	26	23	19	0	0		
9	41	32	26	22	39	31	25	22	28	24	20	17	0	0		
10	39	29	24	20	37	28	23	20	26	22	19	15	0	0		

INDOOR CANDELA PLOT



Test Date 4/24/00

**PHOTOMETRIC DATA**

**LUMINAIRE DATA Test 15289**

Luminaire	BÈNE-3T820/80-LD-E
	Bène Curves
	9" x 48" 3L w/1 x 11
	Cell Semi-Specular
	Louver Et Perf Lamp
	Cover
Ballast	B3321120RH-A
Ballast Factor	0.88
Lamp	F32T8
Lumens per Lamp	2900
Watts	87
Mounting	Pendant
Shielding Angle	0° = 21 90° = 23
Spacing Criterion	0° = 1.23 90° = 1.33
Luminous Opening in Feet	Length: 3.80
	Width: 0.37
	Height: 0.00

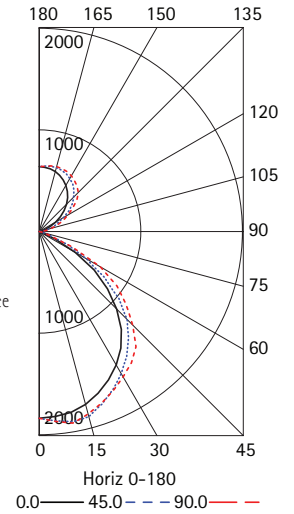
**AVG. LUMINANCE (Candela/Sq. M.)**

	0.0	22.5	45.0	67.5	90.0
0	14064	14064	14064	14064	14064
30	13393	14162	14268	14560	14595
40	12562	13212	13672	14601	14801
45	11660	12321	13252	13826	14086
50	10457	11124	12184	12780	13292
55	8809	9543	10438	11425	12466
60	6293	7380	8314	9524	10626
65	3188	4221	5742	6159	6467
70	448	1007	2328	2194	2104
75	325	473	710	1065	1154
80	265	397	485	661	705
85	176	264	264	351	351

**COEFFICIENTS OF UTILIZATION (%)**

RC	80				70				50				0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
1	75	72	70	67	71	68	66	64	62	60	58	45	
2	69	64	60	57	65	61	57	54	55	52	50	39	
3	63	57	52	48	60	54	50	46	49	46	43	34	
4	58	51	45	41	55	48	43	40	44	40	37	29	
5	54	46	40	36	51	43	38	34	40	35	32	26	
6	50	41	35	31	47	39	34	30	36	32	28	23	
7	46	37	32	28	44	36	30	27	33	28	25	20	
8	43	34	28	24	40	33	27	24	30	26	22	18	
9	40	31	26	22	38	30	25	21	27	23	20	16	
10	37	29	23	20	35	27	23	19	25	21	18	15	

**INDOOR CANDELA PLOT**



**ZONAL LUMEN SUMMARY**

Zone	Lumens	% Lamp	% Fixt.
0-30	1488	17.1	23.7
0-40	2431	27.9	38.7
0-60	4063	46.7	64.6
0-90	4403	50.6	70.0
90-120	327	3.8	5.2
90-130	636	7.3	10.1
90-150	1354	15.6	21.5
90-180	1883	21.6	30.0
0-180	6286	72.3	100.0

RCR = Room Cavity Ratio  
RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

**ENERGY DATA**

Total Luminaire Efficiency	72.3%
Luminaire Efficacy Rating (LER)	64
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.75 based on 3000 hrs. and \$0.08 per KWH

Test Date 2/4/00