

SYSTEM BNP-EX

Standard-Output Ballast-Operated Cold Cathode for Export

Photometry

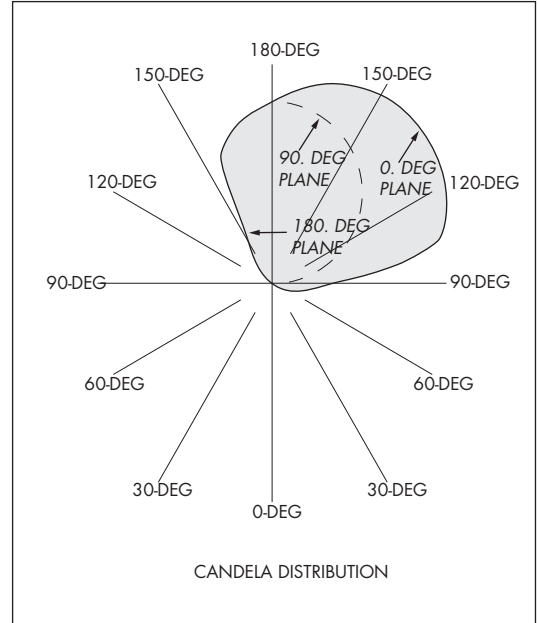
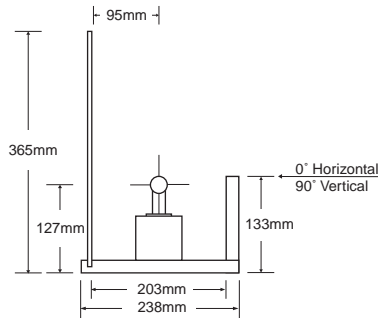
System type: **BNP-EX (standard-output ballast-operated cold cathode for export)**
 Lamp operating current: **90 mA**

CATALOG NUMBER: BNP-EX
 LUMINAIRE: ASSEMBLED PLYWOOD COVE PAINTED WHITE, NO ENCLOSURE
 LAMPS: ONE 4' 25MM 42TC COLD CATHODE LAMP RATED AT 1432 LUMENS
 BALLAST: CATHODE LIGHTING SYSTEMS
 MOUNTING: WALL
 LUMEN TO CANDELA RATIO USED = 9.18
 TOTAL INPUT WATTS = 25.0 AT 90 mA OPERATING CURRENT
 THE 0 DEGREE PLANE IS PERPENDICULAR TO THE LAMPS.

		CANDELA DISTRIBUTION										FLUX											
		0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0													
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	2	3	0	0	3	3	0	1												
45	4	6	7	7	2	4	7	7	7	0	3												
55	14	15	13	8	7	9	6	7	7	0	9												
65	34	39	34	21	6	14	12	6	0	19													
75	64	66	57	38	6	21	12	5	0	32													
85	100	101	85	57	11	21	14	6	0	49													
90	133	144	120	80	18	25	14	6	0														
95	221	231	198	126	31	28	16	8	0	100													
105	335	315	258	173	78	36	19	7	0	140													
115	370	350	297	227	136	47	19	7	0	158													
125	391	375	333	273	191	77	22	7	0	165													
135	411	397	365	308	238	149	49	7	0	166													
145	422	409	381	332	279	236	86	54	48	158													
155	418	406	384	349	311	280	246	117	98	136													
165	400	389	375	354	332	314	298	282	288	95													
175	368	360	356	349	342	336	331	327	333	33													
180	344	344	344	344	344	344	344	344	344														

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0-30	0	0.0	0.0
0-40	1	0.1	0.1
0-60	13	0.9	1.0
0-90	112	7.9	8.9
90-120	397	27.7	31.5
90-130	563	39.3	44.6
90-150	886	61.9	70.2
90-180	1150	80.3	91.1
0-180	1263	88.2	100.0

TOTAL LUMINAIRE EFFICIENCY: 88.2%
 TOTAL REFLECTANCE OF PAINT: 90.4%
 CIE TYPE: INDIRECT



Complete photometric information is available on our website at www.CathodeLightingSystems.com. Files are in standard IES format and may be downloaded from the **Photometrics** section.

RC	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
0	86	86	86	86	75	75	75	75	53	53	53	34	34	34	16	16	16	8
1	77	72	69	65	66	63	60	57	44	42	40	27	26	25	12	11	11	4
2	69	62	57	52	59	54	49	45	38	35	32	23	21	20	10	9	8	2
3	63	54	48	43	54	47	42	37	33	29	26	20	18	16	8	7	6	1
4	57	48	41	36	49	41	35	31	29	25	22	18	15	13	7	6	5	1
5	52	42	35	30	45	36	31	26	26	22	19	16	13	11	6	5	4	0
6	48	37	31	26	41	32	27	22	23	19	16	14	12	10	6	4	3	0
7	44	34	27	22	38	29	23	19	21	17	14	13	10	8	5	4	3	0
8	41	30	24	19	35	26	21	17	19	15	12	11	9	7	5	3	3	0
9	38	27	21	17	32	24	18	15	17	13	10	10	8	6	4	3	2	0
10	35	25	19	15	30	22	16	13	15	12	9	9	7	6	4	3	2	0

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD
 EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

NOTE:
 The zonal cavity calculation technique is accurate when luminaires within the symmetric candela distributions are employed and when the luminaires are located symmetrically throughout the room. This unit has special characteristics. Therefore these coefficients should be used with caution

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Photometry (cont'd.)

COLD CATHODE LAMP LUMENS PER METER

Lamp Color	Catalog Number	Lumens per Meter System BNP-EX (90 mA lamp current)
Incandescent White	28TC	1224
Warm White	30TC	1274
Soft White	35TC	1234
Cool White	42TC	1181
Ice White	50TC	1201
Daylight	65TC	1218
Pink White	PW	713
Hot Pink	HP	653
Ruby Red	RR	238
Lavender	LV	772
Purple	PR	594
Deep Purple	DP	119
Sky Blue	SB	1010
Deep Blue	DB	832
Cobalt Blue	CB	644
Turquoise	TQ	1172
Aquamarine	AQ	950
Green	GR	1188
Emerald Green	EG	535
Gold	GD	601
Novial Gold	NG	416
Canary Yellow	CY	647
Orange	OR	475

Photometric information by ITL (Independent Test Laboratories), Boulder, CO; LTL (Luminaire Testing Laboratory), Allentown, PA; and Cathode Lighting Systems Inc.

TYPICAL LUMEN MAINTENANCE FOR COLD CATHODE LAMPS

