



Filename: HBG632M23

Manufacturer: TEXAS FLUORESCENTS

Luminaire Cat: HBG632M23 "[LUMINAIRE] INDUSTRIAL HIGH BAY, OPEN FRAME, 6 LAMP T8 WIDE DISTRIBUTION" DISTRIBUTION DIRECT

Lamp: SIX (6) 32 WATT T8 FLUORESCENT 2950 LUMENS

Lamp Cat: F32T8

Ballast Desc: DUAL 3LAMP INSTANT START MV BF = 1.00

Lamp Output: 6 lamps, rated Lumens/lamp: 2950

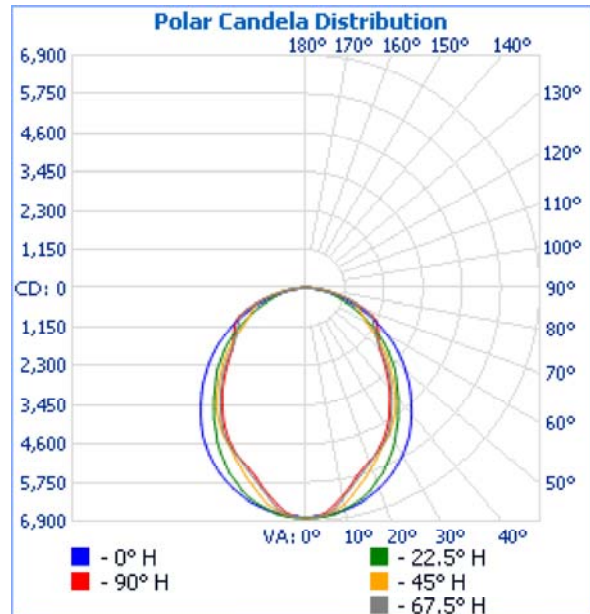
Max Candela: 6,810.0 at Horizontal: 22.5°, Vertical: 2.5°

Input Wattage: 165

Luminous Opening: Rectangle (L: 48", W: 21.36")

Photometry : Type C

Nema Type: 7 X 7



Roadway Summary

Cutoff Classification:	FULL CUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	0	
Max Cd, 80 to <90 Deg:	778.0	
	Lumens	% Lamp
Downward Street Side:	8,267.1	46.7%
Downward House Side:	8,267.1	46.7%
Downward Total:	16,534.2	93.4%
Upward Street Side:	0	0%
Upward House Side:	0	0%
Upward Total:	0	0%
Total Lumens:	16,534.2	93.4%

Flood Summary

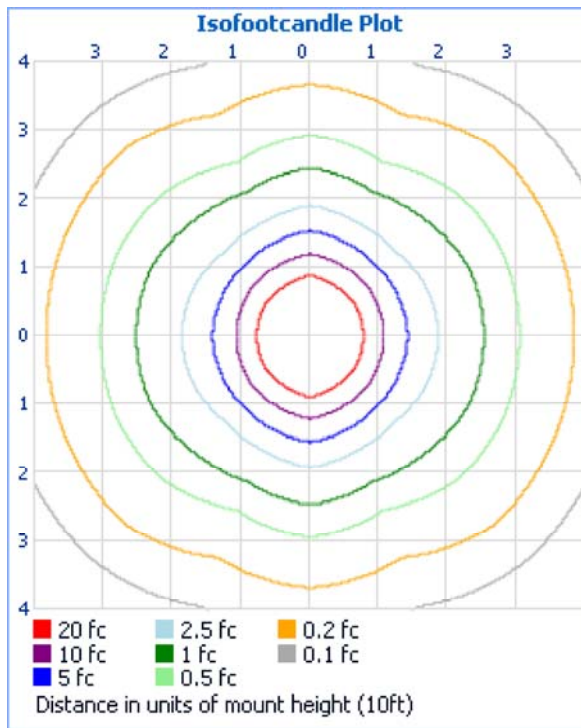
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	91.8%	16,251.3	161.6	157.3
Beam (50%):	56.2%	9,939.5	88.3	108.5
Total:	93.4%	16,528.2		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	4,862.5	27.5%	29.4%
0-40	7,751.9	43.8%	46.9%
0-60	13,000.9	73.5%	78.6%
60-90	3,531.7	20%	21.4%
70-100	1,561.9	8.8%	9.4%
90-120	0	0%	0%
0-90	16,532.6	93.4%	100%
90-180	0	0%	0%
0-180	16,532.6	93.4%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	633.8	3.8%	90-100	0	0%
10-20	1,725.0	10.4%	100-110	0	0%
20-30	2,503.6	15.1%	110-120	0	0%
30-40	2,889.4	17.5%	120-130	0	0%
40-50	2,815.4	17.0%	130-140	0	0%
50-60	2,433.5	14.7%	140-150	0	0%
60-70	1,969.7	11.9%	150-160	0	0%
70-80	1,242.8	7.5%	160-170	0	0%
80-90	319.1	1.9%	170-180	0	0%



	Center Beam fc	Beam Width	
1.7R	2,354 fc	4.7 ft	3.3 ft
3.3R	625 fc	9.2 ft	6.4 ft
5.0R	272 fc	13.9 ft	9.7 ft
6.7R	152 fc	18.6 ft	13.0 ft
8.3R	98.7 fc	23.1 ft	16.1 ft
10.0R	68.0 fc	27.8 ft	19.4 ft

■ Vert. Spread: 108.5°
■ Horiz. Spread: 88.3°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10			0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.11	1.11	1.11	1.11	1.09	1.09	1.09	.93	1.04	1.04	1.04	.99	.99	.99	.95	.95	.95	.93
1	1.02	.97	.93	.89	.99	.95	.91	.79	.91	.88	.85	.87	.85	.83	.84	.82	.80	.78
2	.92	.85	.78	.73	.90	.83	.77	.67	.80	.75	.70	.77	.72	.69	.74	.70	.67	.65
3	.84	.75	.67	.61	.82	.73	.66	.57	.70	.64	.59	.68	.63	.58	.65	.61	.57	.55
4	.77	.66	.58	.52	.75	.65	.57	.49	.63	.56	.51	.60	.55	.50	.58	.53	.49	.47
5	.71	.59	.51	.45	.69	.58	.50	.43	.56	.49	.44	.54	.48	.44	.53	.47	.43	.41
6	.66	.54	.45	.39	.64	.53	.45	.38	.51	.44	.39	.49	.43	.38	.48	.42	.38	.36
7	.61	.49	.41	.35	.60	.48	.40	.34	.47	.40	.35	.45	.39	.34	.44	.38	.34	.32
8	.57	.45	.37	.31	.56	.44	.36	.31	.43	.36	.31	.42	.35	.31	.40	.35	.31	.29
9	.53	.41	.33	.28	.52	.40	.33	.28	.39	.33	.28	.38	.32	.28	.37	.32	.28	.26
10	.50	.38	.31	.26	.49	.37	.30	.25	.37	.30	.26	.36	.30	.25	.35	.29	.25	.24

Candela Table - Type C

	0	22.5	45	67.5	90
0	6802	6802	6802	6802	6802
2.5	6750	6810	6777	6779	6765
5	6747	6773	6730	6714	6669
7.5	6701	6736	6636	6570	6453
10	6660	6632	6501	6304	6238
12.5	6594	6540	6289	6074	6016
15	6525	6433	6056	5853	5761
17.5	6412	6285	5869	5669	5586
20	6304	6076	5635	5487	5453
22.5	6173	5915	5449	5341	5330
25	6030	5683	5232	5210	5153

27.5	5866	5470	5083	5052	4985
30	5698	5235	4953	4897	4782
32.5	5504	4966	4748	4641	4559
35	5316	4742	4569	4398	4294
37.5	5079	4473	4359	4157	4067
40	4843	4235	4092	3905	3827
42.5	4596	3973	3844	3671	3575
45	4359	3762	3558	3424	3315
47.5	4121	3564	3329	3168	3081
50	3855	3278	3081	2886	2849
52.5	3594	3059	2805	2685	2710
55	3322	2802	2541	2542	2613
57.5	3064	2537	2292	2425	2512
60	2769	2258	2085	2335	2446
62.5	2490	1994	1944	2237	2376
65	2215	1745	1813	2186	2282
67.5	1921	1514	1726	2055	2119
70	1647	1270	1641	1867	1858
72.5	1355	1064	1513	1591	1586
75	1078	916	1310	1317	1295
77.5	788	813	1034	1026	1013
80	557	693	778	768	757
82.5	335	493	511	518	513
85	149	262	283	276	267
87.5	34	84	73	65	68
90	0	0	0	0	0

Luminaire Report Summary

IESNA91

[MANUFAC] TEXAS FLUORESCENTS

[LUMCAT] HBG632M23

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[MORE] DISTRIBUTION DIRECT

[LAMPCAT] F32T8

[LAMP] SIX (6) 32 WATT T8 FLUORESCENT 2950 LUMENS

[BALLAST] DUAL 3LAMP INSTANT START MV BF = 1.00

FILE: CANDELA MULTIPLIER: 1

FILE: VERTICAL ANGLES: 37, HORIZONTAL ANGLES: 5

FILE: COORDINATE SYSTEM: TYPE C

FILE: UNIT OF MEASURE: STANDARD

FILE: BALLAST FACTOR: 1

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Reported data calculated from manufacturer's data file, based on IES recommended methods.