



Filename: HBG654M23

Manufacturer: TEXAS FLUORESCENTS

Luminaire: INDUSTRIAL HIGH BAY, OPEN FRAME, 6 LAMP
T5HO WIDE DISTRIBUTION DISTRIBUTION
DIRECT

Luminaire Cat: HBG654M23

Lamp: SIX (6) 54 WATT T5HO FLUORESCENT 5000
LUMENS

Lamp Cat: F54T5HO

Ballast Desc: TRIPLE 2LAMP PRO START MV BF = 1.00

Lamp Output: 6 lamps, rated Lumens/lamp: 5000

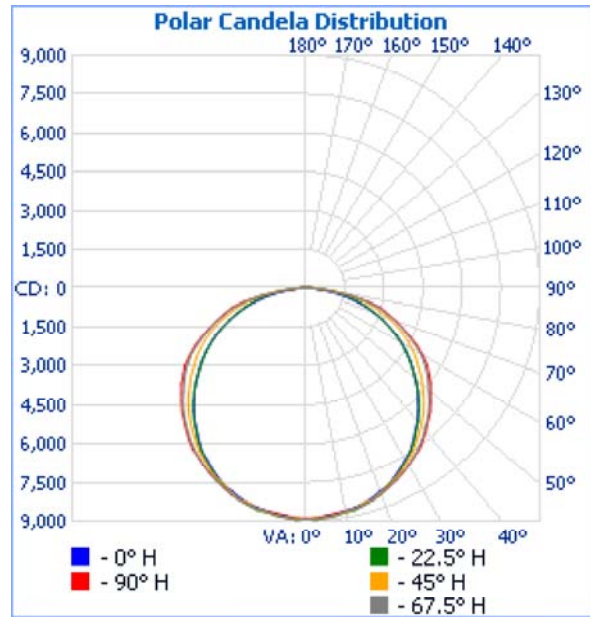
Max Candela: 8,948.0 at Horizontal: 22.5°, Vertical: 2.5°

Input Wattage: 360

Luminous Opening: Rectangle (L: 45.6", 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:	1,806.0	
	Lumens	% Lamp
Downward Street Side:	14,292.5	47.6%
Downward House Side:	14,292.5	47.6%
Downward Total:	28,584.9	95.3%
Upward Street Side:	0	0%
Upward House Side:	0	0%
Upward Total:	0	0%
Total Lumens:	28,584.9	95.3%

Flood Summary

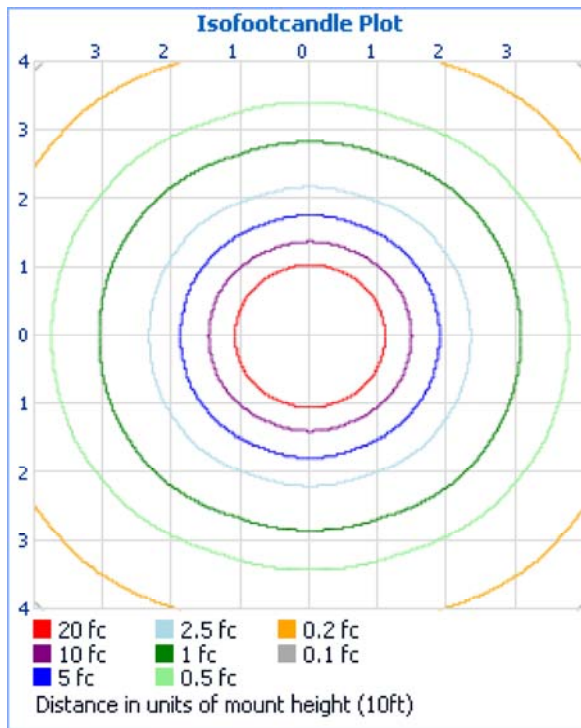
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	94.4%	28,321.4	165.7	163
Beam (50%):	73.5%	22,036.9	129.5	116.8
Total:	95.2%	28,572.5		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	7,026.4	23.4%	24.6%
0-40	11,639.0	38.8%	40.7%
0-60	21,320.6	71.1%	74.6%
60-90	7,263.1	24.2%	25.4%
70-100	3,314.8	11%	11.6%
90-120	0	0%	0%
0-90	28,583.6	95.3%	100%
90-180	0	0%	0%
0-180	28,583.6	95.3%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	843.6	3.0%	90-100	0	0%
10-20	2,438.8	8.5%	100-110	0	0%
20-30	3,744.0	13.1%	110-120	0	0%
30-40	4,612.5	16.1%	120-130	0	0%
40-50	4,947.3	17.3%	130-140	0	0%
50-60	4,734.4	16.6%	140-150	0	0%
60-70	3,948.3	13.8%	150-160	0	0%
70-80	2,636.1	9.2%	160-170	0	0%
80-90	678.7	2.4%	170-180	0	0%



	Center Beam fc	Beam Width	
1.7R	3,080 fc	5.5 ft	7.2 ft
3.3R	817 fc	10.7 ft	14.0 ft
5.0R	356 fc	16.2 ft	21.2 ft
6.7R	198 fc	21.8 ft	28.4 ft
8.3R	129 fc	27.0 ft	35.2 ft
10.0R	89.0 fc	32.5 ft	42.4 ft

■ Vert. Spread: 116.8°
■ Horiz. Spread: 129.5°

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	1.13	1.13	1.13	1.13	1.11	1.11	1.11	.95	1.06	1.06	1.06	1.01	1.01	1.01	.97	.97	.97	.95
1	1.03	.98	.94	.90	1.00	.96	.92	.79	.92	.88	.85	.88	.85	.83	.84	.82	.80	.78
2	.93	.84	.78	.72	.90	.83	.76	.65	.79	.74	.69	.76	.72	.68	.73	.69	.66	.64
3	.84	.74	.65	.59	.82	.72	.64	.55	.69	.63	.57	.67	.61	.56	.64	.59	.55	.53
4	.77	.65	.56	.49	.75	.64	.55	.47	.61	.54	.48	.59	.53	.48	.57	.51	.47	.45
5	.70	.58	.49	.42	.68	.57	.48	.40	.55	.47	.41	.53	.46	.41	.51	.45	.40	.38
6	.65	.52	.43	.37	.63	.51	.42	.35	.49	.42	.36	.47	.41	.36	.46	.40	.35	.33
7	.60	.47	.38	.32	.58	.46	.38	.31	.45	.37	.32	.43	.36	.31	.42	.36	.31	.29
8	.56	.43	.34	.29	.54	.42	.34	.28	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26
9	.52	.39	.31	.26	.51	.38	.31	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23
10	.49	.36	.28	.23	.48	.35	.28	.23	.35	.28	.23	.34	.27	.23	.33	.27	.23	.21

Candela Table - Type C

	0	22.5	45	67.5	90
0	8902	8902	8902	8902	8902
2.5	8917	8948	8885	8945	8880
5	8848	8874	8893	8900	8821
7.5	8816	8832	8838	8865	8763
10	8743	8786	8769	8740	8731
12.5	8688	8765	8733	8710	8690
15	8590	8656	8579	8671	8617
17.5	8486	8547	8555	8576	8551
20	8336	8423	8403	8470	8455
22.5	8245	8224	8245	8295	8324
25	8042	8104	8093	8208	8171

27.5	7843	7876	7955	8057	8013
30	7623	7684	7741	7881	7890
32.5	7464	7470	7585	7734	7706
35	7188	7234	7333	7532	7599
37.5	6919	6948	7111	7339	7382
40	6675	6713	6897	7119	7177
42.5	6391	6422	6672	6910	6943
45	6093	6137	6417	6681	6756
47.5	5831	5839	6143	6435	6501
50	5506	5534	5849	6164	6261
52.5	5193	5191	5596	5927	6049
55	4893	4879	5275	5680	5766
57.5	4574	4568	5016	5394	5526
60	4246	4234	4712	5109	5168
62.5	3916	3892	4411	4721	4828
65	3541	3522	4083	4348	4427
67.5	3186	3185	3752	3997	4039
70	2810	2834	3373	3620	3684
72.5	2454	2478	2984	3237	3310
75	2023	2143	2607	2912	2990
77.5	1583	1773	2232	2423	2453
80	1167	1427	1806	1796	1727
82.5	711	1032	1180	1055	969
85	342	613	564	485	387
87.5	92	208	161	140	124
90	0	0	0	0	0

Luminaire Report Summary

IESNA91

[MANUFAC] TEXAS FLUORESCENTS

[LUMCAT] HBG654M23

[LUMINAIRE] INDUSTRIAL HIGH BAY, OPEN FRAME, 6 LAMP T5HO WIDE DISTRIBUTION

[MORE] DISTRIBUTION DIRECT

[LAMPCAT] F54T5HO

[LAMP] SIX (6) 54 WATT T5HO FLUORESCENT 5000 LUMENS

[BALLAST] TRIPLE 2LAMP PRO 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.