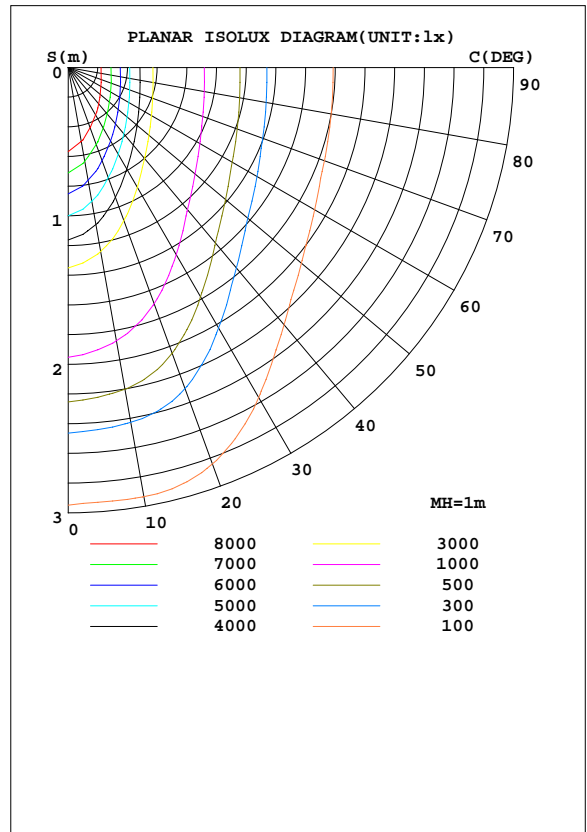
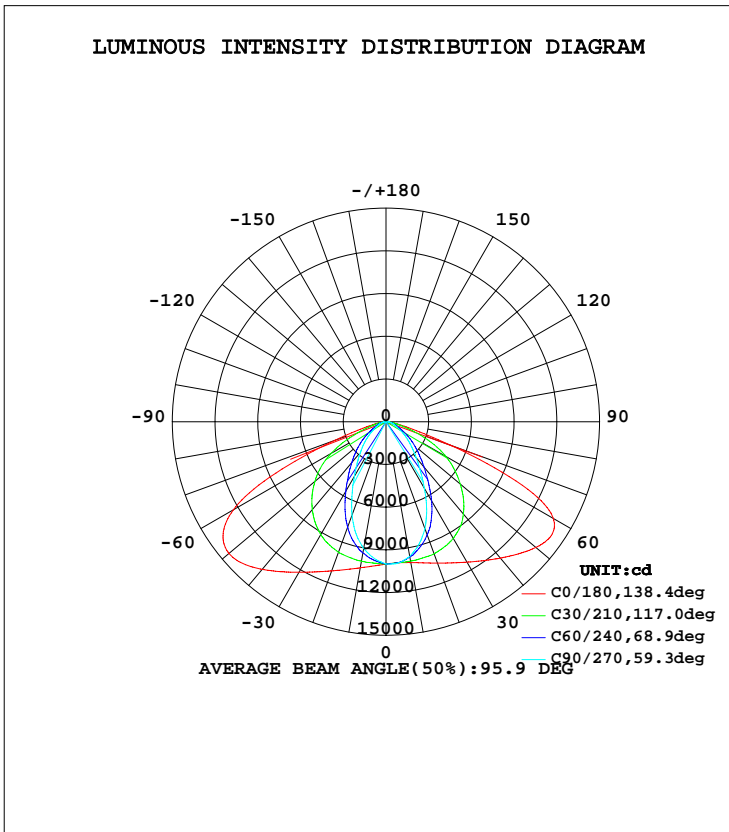


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:220.9V I:0.8454A P:181.2W PF:0.9702 Lamp Flux:26008.4x1 lm		
NAME: LED LINEAR HIGH BAY LIGHT	TYPE:YHL-AI2-180	WEIGHT:
SPEC.:MEAN WELL	DIM.: 5000K	SERIAL No.:20170309
MFR.:	SUR.:70Ra	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 143.51 lm/W			
MODEL	NF2W757GRT-V1 288PCS	Imax(cd)	14478	S/MH(C0/180)	1.88
NOMINAL POWER(W)	180	LOR(%)	100.0	S/MH(C90/270)	0.94
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	26008	η UP, DN(C0-180)	0.0,46.7
NOMINAL FLUX(lm)	26008.4	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,53.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.10



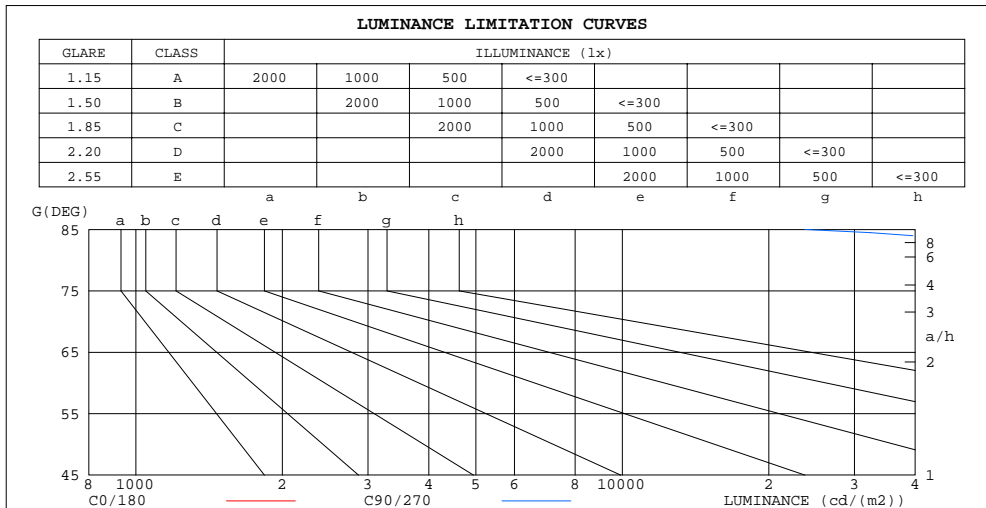
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:CHEN YU  
 Test Date:2017-02-08

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.287  
 Humidity:65.0%  
 Test Distance:9.410m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM  
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
5	1017	985.9	962.6	970.5	994.5	993.8	995.5	1011	0- 5	237.6	237.6	0.91,0.91
10	1042	963.1	904.4	937.1	1004	978.2	961.1	1011	5- 10	702.8	940.4	3.62,3.62
15	1074	929.1	814.5	897.5	1026	953.0	891.9	998.7	10- 15	1140	2080	8,8
20	1114	877.7	698.5	842.4	1057	912.0	801.0	969.2	15- 20	1528	3608	13.9,13.9
25	1163	805.7	565.5	768.2	1094	855.6	676.0	922.3	20- 25	1848	5456	21,21
30	1221	717.3	443.6	678.4	1138	778.8	538.0	855.1	25- 30	2086	7543	29,29
35	1285	620.5	352.7	581.1	1191	682.9	421.9	768.2	30- 35	2251	9794	37.7,37.7
40	1353	524.3	277.9	486.7	1250	575.4	329.9	664.4	35- 40	2361	12155	46.7,46.7
45	1412	439.3	220.0	404.0	1313	474.8	260.8	561.9	40- 45	2427	14582	56.1,56.1
50	1439	357.9	168.5	327.8	1374	385.6	203.3	464.6	45- 50	2446	17028	65.5,65.5
55	1397	281.0	123.4	257.4	1409	306.5	155.3	375.5	50- 55	2393	19420	74.7,74.7
60	1238	200.9	88.33	186.2	1356	230.0	110.2	283.5	55- 60	2228	21648	83.2,83.2
65	853.7	131.5	67.05	122.8	1057	157.7	82.24	193.3	60- 65	1883	23531	90.5,90.5
70	379.1	83.92	48.08	79.08	481.4	100.4	60.40	118.2	65- 70	1287	24817	95.4,95.4
75	140.8	52.08	33.44	49.07	160.5	64.04	44.29	71.59	70- 75	674.2	25492	98,98
80	59.03	28.79	19.17	27.77	62.01	38.09	29.95	40.70	75- 80	329.1	25821	99.3,99.3
85	20.11	10.93	4.136	10.22	20.51	19.39	9.165	20.33	80- 85	159.6	25980	99.9,99.9
90	0.3035	0	0	0	0.4688	0	0	0	85- 90	28.08	26008	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:×10cd								UNIT:lm			



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	115362	23730
80	169966	55192
75	272077	64608
70	554238	70293
65	1009979	79328
60	1238257	88328
55	1218205	107593
50	1119470	131070
45	998782	155537

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:CHEN YU  
Test Date:2017-02-08

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.287  
Humidity:65.0%  
Test Distance:9.410m [K=1.0000]  
Remarks:



WEC AND CCEC

Test:U:220.9V I:0.8454A P:181.2W PF:0.9702 Lamp Flux:26008.4x1 lm		
NAME: LED LINEAR HIGH BAY LIGHT	TYPE:YHL-AI2-180	WEIGHT:
SPEC.:MEAN WELL	DIM.: 5000K	SERIAL No.:20170309
MFR.:	SUR.:70Ra	PROTECTION ANGLE:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.282	.161	.051	.275	.157	.050	.262	.150	.048	.250	.144	.046	.239	.139	.045	
2.0	.273	.150	.046	.267	.147	.045	.256	.142	.044	.245	.137	.043	.235	.133	.042	
3.0	.257	.137	.041	.252	.135	.041	.242	.131	.040	.232	.127	.039	.223	.124	.038	
4.0	.240	.125	.037	.235	.123	.036	.226	.120	.036	.218	.117	.035	.210	.114	.035	
5.0	.224	.114	.033	.219	.113	.033	.211	.110	.032	.204	.108	.032	.197	.105	.032	
6.0	.208	.105	.030	.205	.103	.030	.198	.101	.029	.191	.099	.029	.185	.097	.029	
7.0	.195	.096	.027	.191	.095	.027	.185	.094	.027	.179	.092	.027	.173	.090	.026	
8.0	.182	.089	.025	.179	.088	.025	.174	.087	.025	.168	.085	.025	.163	.084	.024	
9.0	.171	.083	.023	.169	.082	.023	.163	.081	.023	.159	.080	.023	.154	.078	.023	
10.0	.161	.077	.021	.159	.077	.021	.154	.076	.021	.150	.074	.021	.146	.073	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.178	.156	.137	.153	.134	.118	.104	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.170	.132	.100	.145	.114	.087	.100	.079	.060	.057	.046	.035	.018	.015	.012	
3.0	.162	.114	.076	.139	.099	.066	.095	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.060	.133	.087	.052	.091	.061	.037	.053	.036	.022	.017	.012	.007	
5.0	.147	.090	.048	.127	.078	.042	.087	.055	.030	.051	.032	.018	.016	.010	.006	
6.0	.141	.082	.040	.121	.071	.035	.083	.050	.025	.048	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.115	.065	.029	.080	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.128	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.026	.105	.056	.022	.073	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.052	.020	.069	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:CHEN YU  
 Test Date:2017-02-08

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.287  
 Humidity:65.0%  
 Test Distance:9.410m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.9V I:0.8454A P:181.2W PF:0.9702 Lamp Flux:26008.4x1 lm		
NAME: LED LINEAR HIGH BAY LIGHT	TYPE:YHL-AI2-180	WEIGHT:
SPEC.:MEAN WELL	DIM.: 5000K	SERIAL No.:20170309
MFR.:	SUR.:70Ra	PROTECTION ANGLE:

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	38.6	40.1	38.9	40.3	40.5	26.8	28.3	27.0	28.5	28.7
3H	39.8	41.2	40.1	41.4	41.6	27.2	28.6	27.5	28.8	29.0
4H	39.9	41.2	40.2	41.4	41.7	27.4	28.7	27.7	28.9	29.2
6H	39.8	41.1	40.2	41.3	41.6	27.5	28.7	27.8	29.0	29.3
8H	39.8	41.0	40.1	41.3	41.5	27.5	28.7	27.9	29.0	29.3
12H	39.8	40.9	40.1	41.2	41.5	27.5	28.6	27.9	28.9	29.2
4H 2H	38.3	39.6	38.7	39.9	40.1	28.7	30.0	29.0	30.3	30.5
3H	39.6	40.8	40.0	41.1	41.4	29.1	30.2	29.4	30.5	30.8
4H	39.8	40.8	40.1	41.1	41.4	29.3	30.3	29.6	30.6	30.9
6H	39.8	40.7	40.2	41.0	41.4	29.4	30.3	29.8	30.7	31.0
8H	39.8	40.6	40.2	41.0	41.4	29.4	30.3	29.8	30.6	31.0
12H	39.8	40.5	40.2	40.9	41.3	29.4	30.2	29.9	30.6	31.0
8H 4H	39.7	40.5	40.1	40.9	41.2	29.8	30.6	30.2	31.0	31.4
6H	39.7	40.4	40.2	40.8	41.2	30.0	30.7	30.4	31.1	31.5
8H	39.7	40.3	40.2	40.8	41.2	30.1	30.7	30.5	31.1	31.5
12H	39.7	40.3	40.2	40.7	41.2	30.1	30.6	30.6	31.0	31.5
12H 4H	39.6	40.4	40.0	40.8	41.2	29.8	30.6	30.3	31.0	31.4
6H	39.7	40.3	40.1	40.7	41.2	30.1	30.7	30.5	31.1	31.6
8H	39.7	40.2	40.2	40.7	41.1	30.2	30.7	30.6	31.1	31.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 1.0 / - 1.3				
1.5H	+ 1.4 / - 1.3					+ 0.8 / - 1.0				
2.0H	+ 2.7 / - 4.1					+ 1.3 / - 1.7				

CIE Pub.117 Corrected 26008 lm Total Lamp Luminous Flux.(8log(F/F0) = 11.3)

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:CHEN YU  
 Test Date:2017-02-08

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.287  
 Humidity:65.0%  
 Test Distance:9.410m [K=1.0000]  
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.9V I:0.8454A P:181.2W PF:0.9702 Lamp Flux:26008.4x1 lm		
NAME: LED LINEAR HIGH BAY LIGHT	TYPE:YHL-AI2-180	WEIGHT:
SPEC.:MEAN WELL	DIM.: 5000K	SERIAL No.:20170309
MFR.:	SUR.:70Ra	PROTECTION ANGLE:

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	47	40	58	47	40	56	46	40	33
0.80	69	57	50	68	57	50	66	56	50	43
1.00	78	67	60	76	66	59	74	68	59	52
1.25	85	75	68	83	74	67	81	73	67	60
1.50	90	80	74	88	79	73	85	78	72	65
2.00	97	89	83	95	87	82	91	85	80	73
2.50	100	93	87	98	92	87	95	89	85	77
3.00	104	97	92	102	96	91	98	93	89	81
4.00	107	102	98	105	100	97	101	97	94	85
5.00	110	105	102	107	103	100	103	100	97	88
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:CHEN YU  
 Test Date:2017-02-08

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.287  
 Humidity:65.0%  
 Test Distance:9.410m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

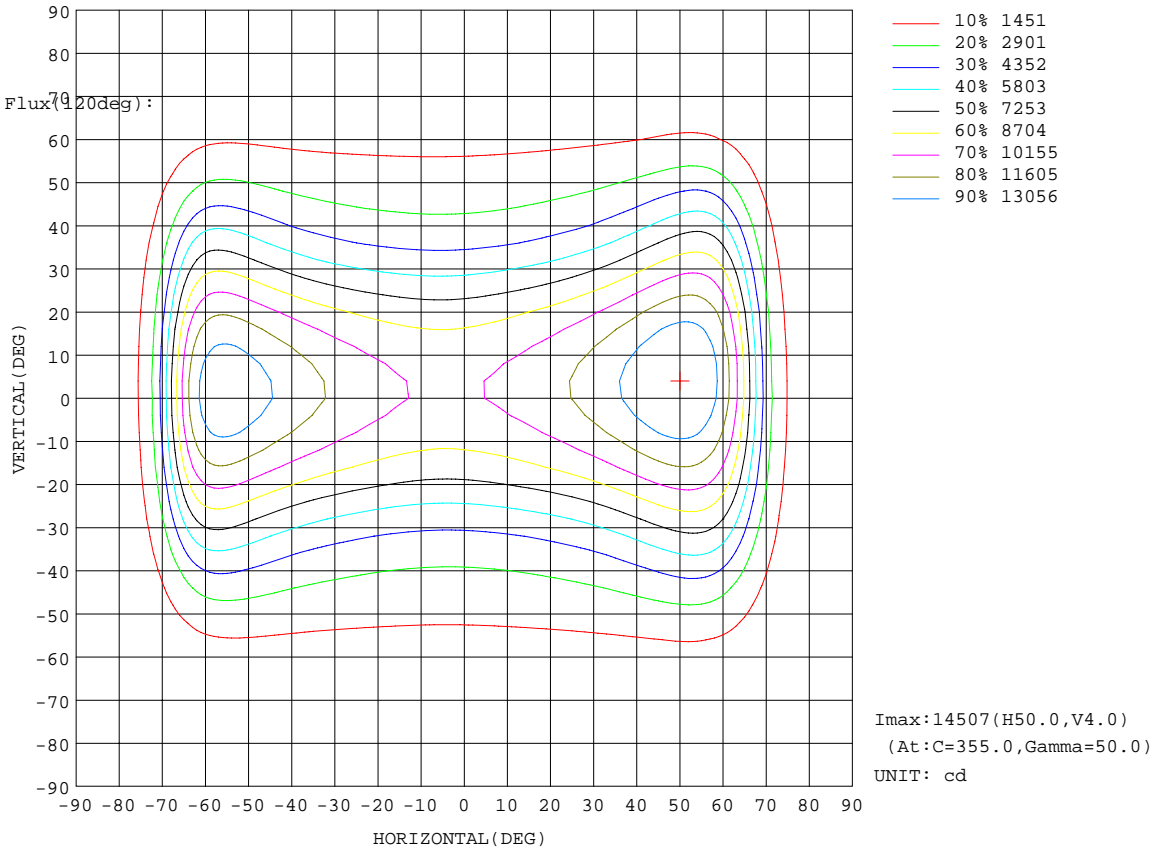
Test:U:220.9V I:0.8454A P:181.2W PF:0.9702 Lamp Flux:26008.4x1 lm		
NAME: LED LINEAR HIGH BAY LIGHT	TYPE:YHL-AI2-180	WEIGHT:
SPEC.:MEAN WELL	DIM.: 5000K	SERIAL No.:20170309
MFR.:	SUR.:70Ra	PROTECTION ANGLE:

Conical surface Flux(90deg):

14582 lm  
 %lum = 56.1%  
 %lamp = 56.1%

Conical surface Flux(70deg):

21648 lm  
 %lum = 83.2%  
 %lamp = 83.2%



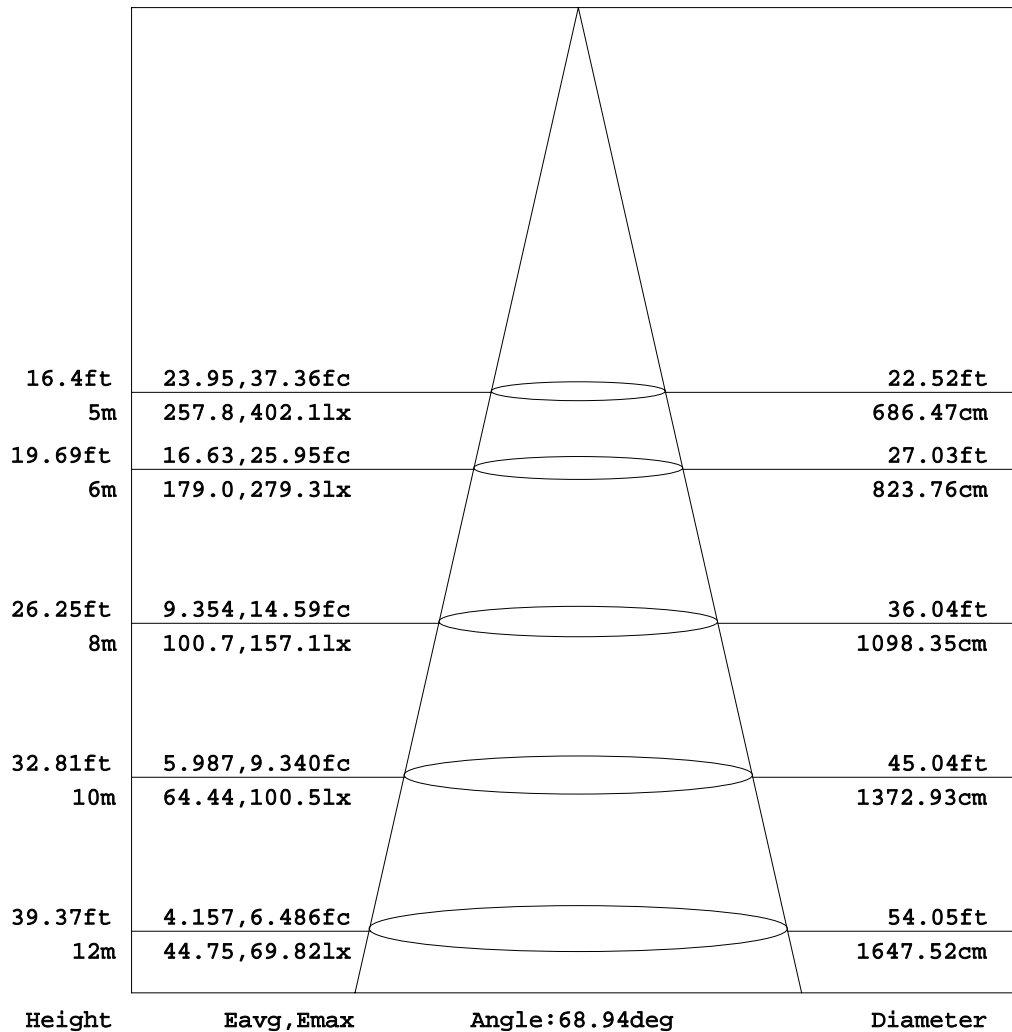
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25DEG  
 Operators: CHEN YU  
 Test Date: 2017-02-08

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.287  
 Humidity: 65.0%  
 Test Distance: 9.410m [K=1.0000]  
 Remarks:

**AAI Figure**

Test:U:220.9V I:0.8454A P:181.2W PF:0.9702 Lamp Flux:26008.4x1 lm		
NAME: LED LINEAR HIGH BAY LIGHT	TYPE:YHL-AI2-180	WEIGHT:
SPEC.:MEAN WELL	DIM.: 5000K	SERIAL No.:20170309
MFR.:	SUR.:70Ra	PROTECTION ANGLE:

Flux out:9563 lm



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

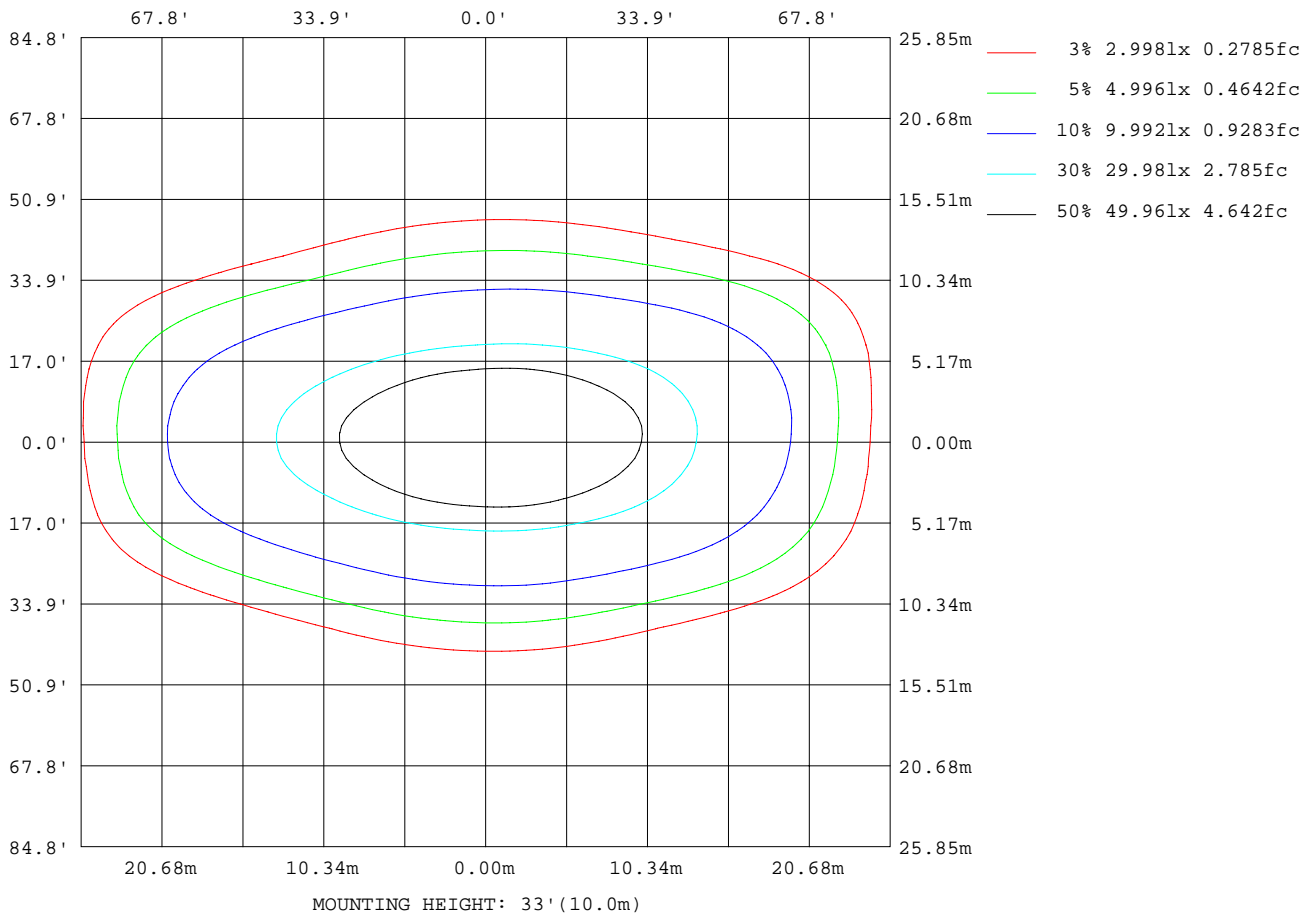
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:CHEN YU  
 Test Date:2017-02-08

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.287  
 Humidity:65.0%  
 Test Distance:9.410m [K=1.0000]  
 Remarks:



**ISOLUX DIAGRAM**

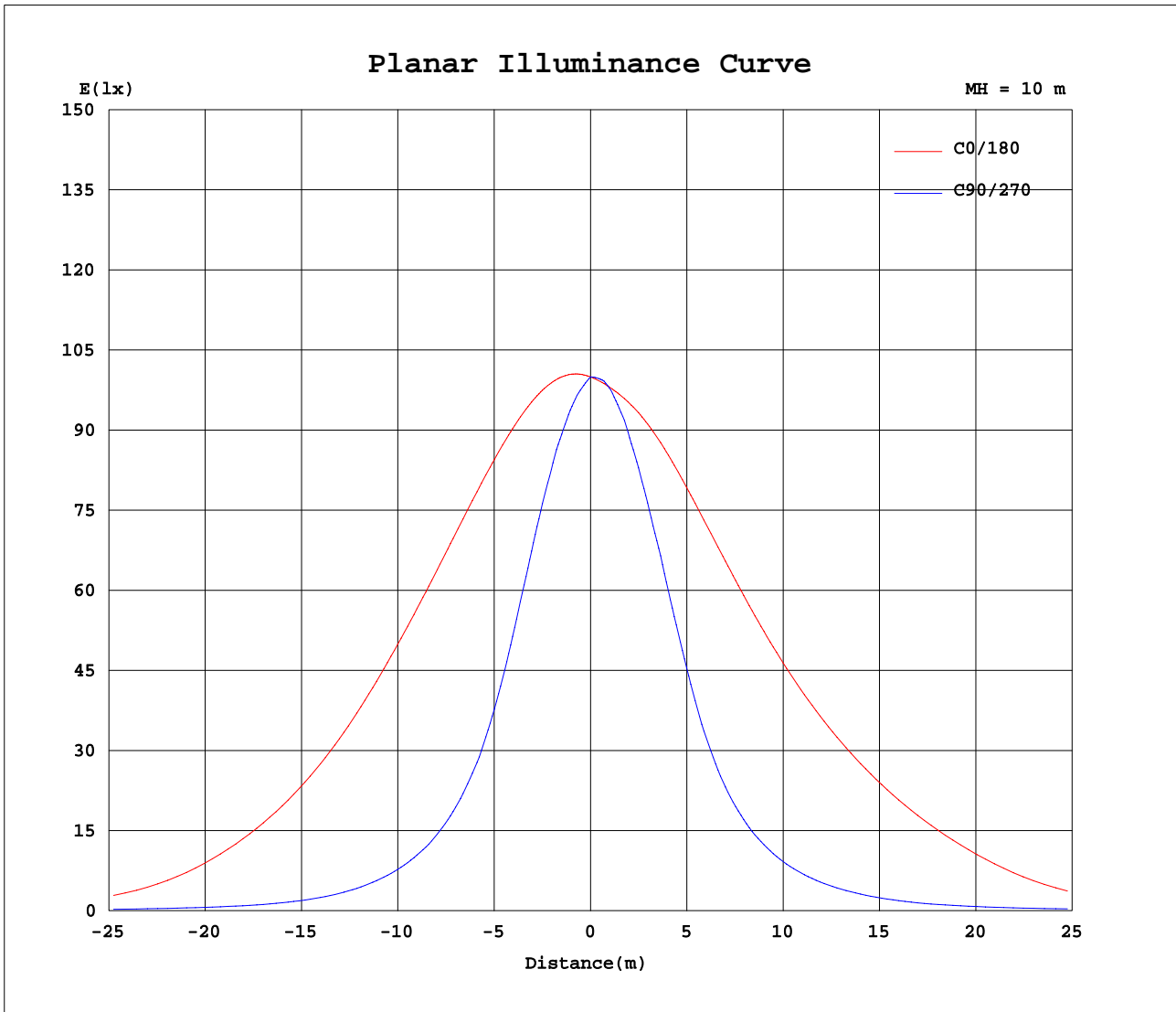
Test:U:220.9V I:0.8454A P:181.2W PF:0.9702 Lamp Flux:26008.4x1 lm		
NAME: LED LINEAR HIGH BAY LIGHT	TYPE:YHL-AI2-180	WEIGHT:
SPEC.:MEAN WELL	DIM.: 5000K	SERIAL No.:20170309
MFR.:	SUR.:70Ra	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:CHEN YU  
 Test Date:2017-02-08

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.287  
 Humidity:65.0%  
 Test Distance:9.410m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25DEG  
 Operators: CHEN YU  
 Test Date: 2017-02-08

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.287  
 Humidity: 65.0%  
 Test Distance: 9.410m [K=1.0000]  
 Remarks:







