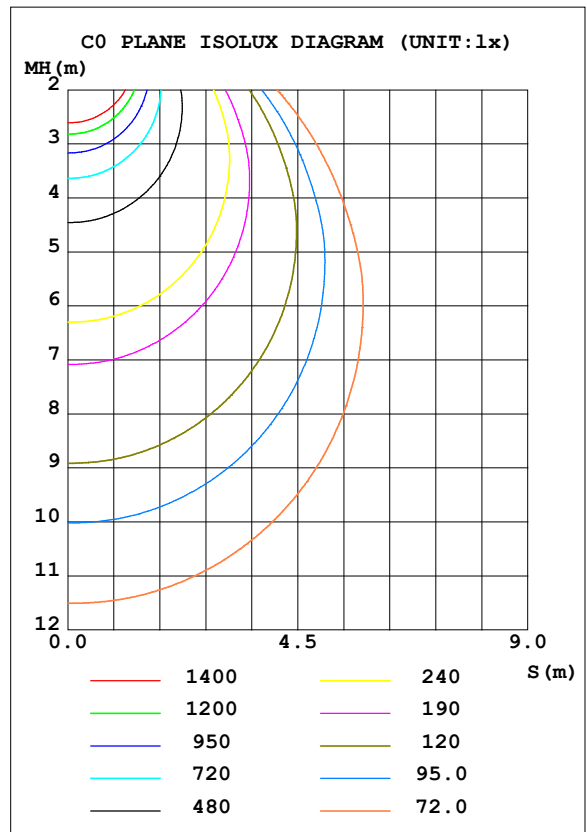
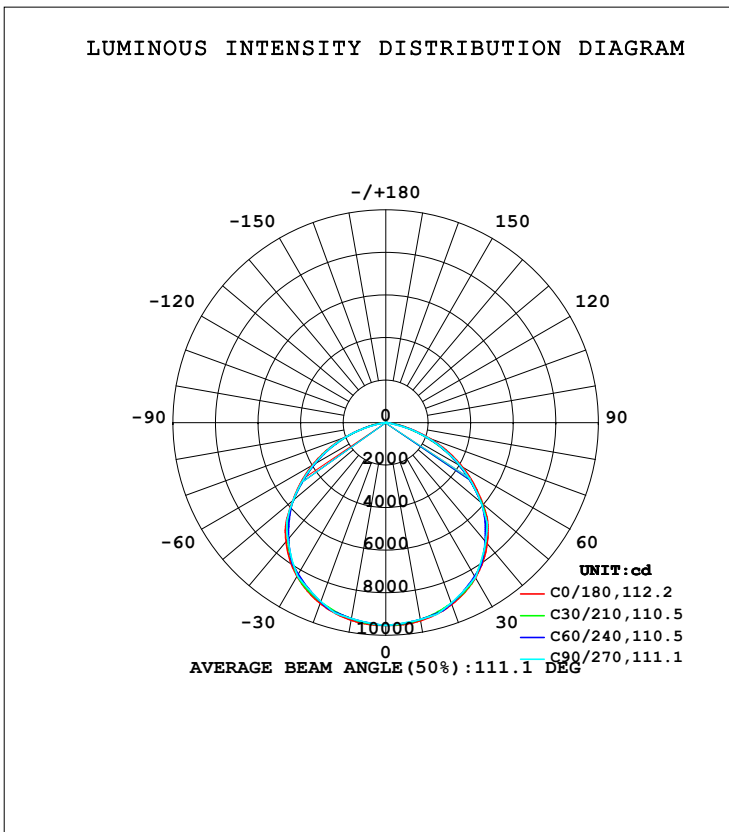


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.30V I:1.6700A P:200.20W PF:0.9960 Freq:50.00Hz Lamp Flux:26220.5x1 lm		
NAME: ULHB-200W-50K-WH	TYPE:	WEIGHT:
SPEC.:200W, AC100-277V, 130lm/W, 5000K, White	DIM.:	SERIAL No.:20170703001
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 130.97 lm/W			
MODEL	ULHB-200W-50K-WH	I _{max} (cd)	9535	S/MH (C0/180)	1.30
NOMINAL POWER (W)	200	LOR (%)	100.0	S/MH (C90/270)	1.29
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	26221	η UP, DN (C0-180)	0.0, 50.4
NOMINAL FLUX (lm)	26220.5	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.6
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120.2	η down (%)	100.0	CIBSE SHR MAX	1.35



H(β) Range: -80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: Admin
Test Date: 2017-07-04

V(B) Range: -75 - 75DEG
V(B) Interval: 5.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 8.250m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

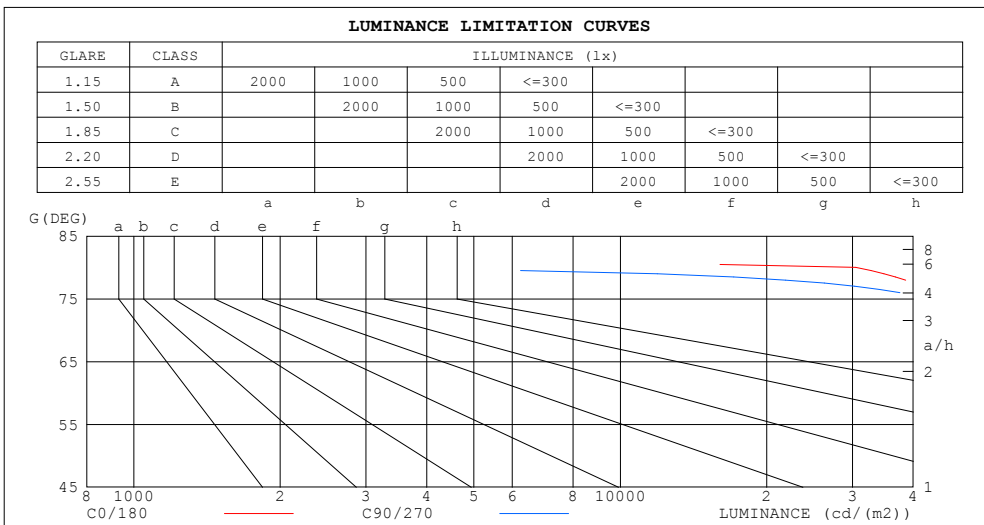
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	9457	9390	9390	9380	9431	9349	9350	9366	0- 10	901.6	901.6	3.44,3.44
20	9095	9080	9017	9079	9038	9008	8943	9042	10- 20	2611	3512	13.4,13.4
30	8430	8326	8413	8324	8347	8218	8312	8293	20- 30	4011	7523	28.7,28.7
40	7421	7356	7307	7375	7296	7209	7165	7332	30- 40	4906	12430	47.4,47.4
50	5968	5763	5847	5842	5712	5630	5691	5747	40- 50	5081	17511	66.8,66.8
60	4162	3934	4035	4078	3979	3835	3891	3986	50- 60	4370	21880	83.4,83.4
70	2237	2075	2103	2252	2050	1991	2014	2186	60- 70	3011	24891	94.9,94.9
80	528.8	379.5	0	486.6	463.0	366.3	0	456.4	70- 80	1257	26148	99.7,99.7
90	0	0	0	0	0	0	0	0	80- 90	72.70	26221	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

H(β) Range:-80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Admin
Test Date:2017-07-04

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.30V I:1.6700A P:200.20W PF:0.9960 Freq:50.00Hz Lamp Flux:26220.5x1 lm		
NAME: ULHB-200W-50K-WH	TYPE:	WEIGHT:
SPEC.:200W, AC100-277V, 130lm/W, 5000K, White	DIM.:	SERIAL No.:20170703001
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	0	0
80	30453	0
75	50004	43916
70	65392	61479
65	76020	72614
60	83241	80698
55	88459	86146
50	92848	90969
45	96036	95511

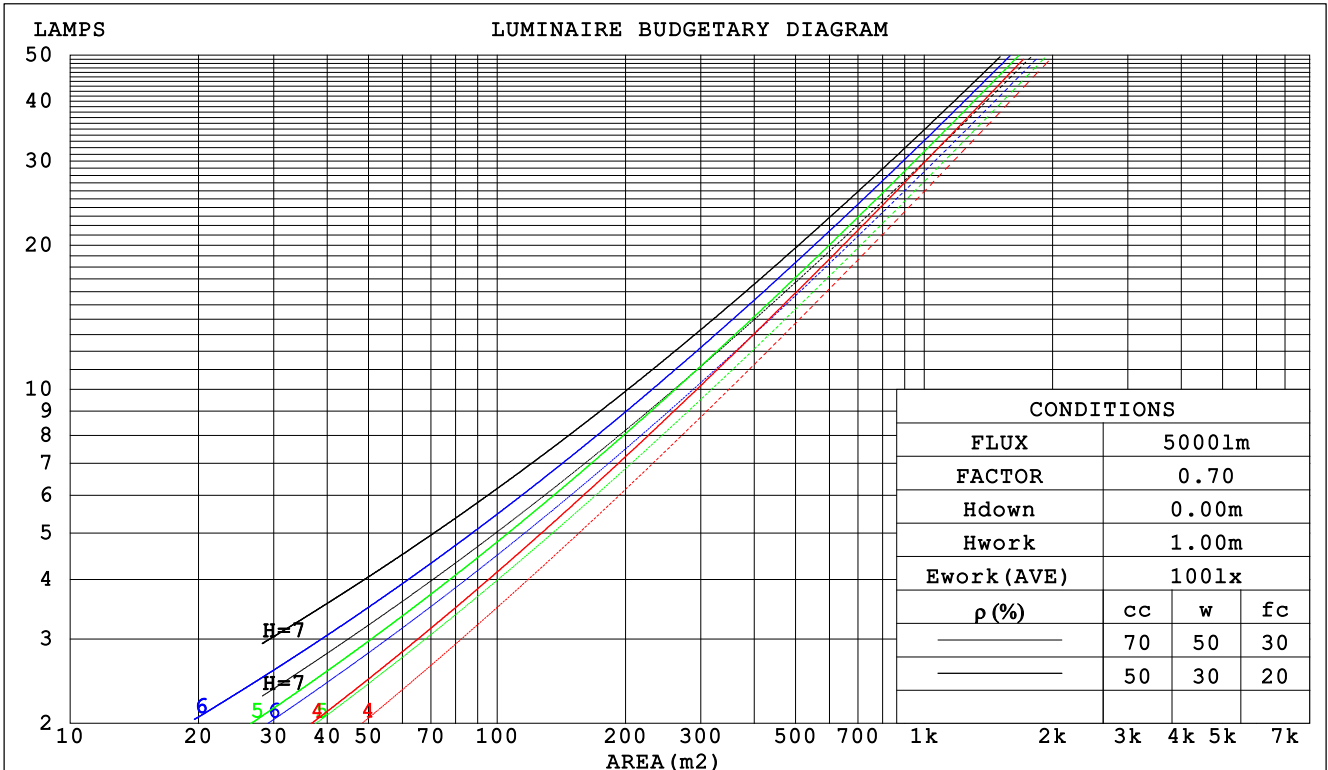
H(β) Range:-80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Admin
Test Date:2017-07-04

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.30V I:1.6700A P:200.20W PF:0.9960 Freq:50.00Hz Lamp Flux:26220.5x1 lm		
NAME: ULHB-200W-50K-WH	TYPE:	WEIGHT:
SPEC.:200W, AC100-277V, 130lm/W, 5000K, White	DIM.:	SERIAL No.:20170703001
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.05	1.02	.98	1.03	.90	.96	.99	.96	.93	.95	.93	.91	.92	.90	.88	.86
2.0	.92	.86	.81	.91	.85	.80	.87	.82	.78	.84	.80	.76	.81	.77	.74	.72
3.0	.81	.74	.67	.80	.73	.67	.77	.71	.66	.74	.69	.65	.72	.67	.63	.61
4.0	.72	.64	.57	.71	.63	.57	.68	.62	.56	.66	.60	.55	.64	.59	.55	.53
5.0	.65	.56	.49	.64	.55	.49	.61	.54	.49	.59	.53	.48	.58	.52	.48	.45
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.43	.54	.47	.42	.52	.46	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.48	.42	.37	.35
8.0	.48	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.33	.44	.38	.33	.31
9.0	.44	.36	.31	.44	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25



H(β) Range:-80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Admin
Test Date:2017-07-04

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.30V I:1.6700A P:200.20W PF:0.9960 Freq:50.00Hz Lamp Flux:26220.5x1 lm		
NAME: ULHB-200W-50K-WH	TYPE:	WEIGHT:
SPEC.:200W, AC100-277V , 130lm/W, 5000K , White	DIM.:	SERIAL No.:20170703001
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:

ρ _{cc}	80%			70%			50%			30%			10%			0
ρ _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.280	.159	.050	.273	.156	.050	.260	.149	.048	.248	.143	.046	.237	.137	.044	
2.0	.272	.149	.046	.266	.147	.045	.255	.142	.044	.244	.137	.043	.234	.133	.042	
3.0	.257	.137	.041	.251	.134	.040	.241	.131	.040	.231	.127	.039	.223	.123	.038	
4.0	.239	.124	.037	.235	.123	.036	.226	.120	.036	.217	.117	.035	.209	.114	.035	
5.0	.223	.114	.033	.219	.112	.033	.211	.110	.032	.203	.107	.032	.196	.105	.032	
6.0	.208	.104	.030	.204	.103	.030	.197	.101	.029	.190	.099	.029	.184	.097	.029	
7.0	.194	.096	.027	.191	.095	.027	.185	.093	.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	.079	.023	.154	.078	.023	
10.0	.161	.077	.021	.159	.077	.021	.154	.076	.021	.150	.074	.021	.146	.073	.021	

ρ _{cc}	80%			70%			50%			30%			10%			0
ρ _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ _{fc}	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	.061	.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	.154	.101	.060	.133	.087	.052	.091	.061	.037	.053	.036	.022	.017	.012	.007	
5.0	.147	.090	.048	.126	.078	.042	.087	.055	.030	.050	.032	.018	.016	.010	.006	
6.0	.140	.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	

H(β) Range:-80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Admin
Test Date:2017-07-04

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.30V I:1.6700A P:200.20W PF:0.9960 Freq:50.00Hz Lamp Flux:26220.5x1 lm										
NAME: ULHB-200W-50K-WH					TYPE:			WEIGHT:		
SPEC.:200W, AC100-277V , 130lm/W, 5000K , White					DIM.:			SERIAL No.:20170703001		
MFR.: WESTGATE MFG INC					SUR.:			Shielding 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	28.4	29.9	28.7	30.1	30.3	28.4	29.9	28.7	30.1	30.3
3H	29.6	30.9	29.9	31.2	31.4	29.5	30.9	29.8	31.1	31.3
4H	29.9	31.2	30.2	31.4	31.7	29.8	31.1	30.1	31.3	31.6
6H	30.0	31.2	30.3	31.4	31.7	29.8	31.0	30.1	31.3	31.5
8H	29.9	31.1	30.3	31.4	31.6	29.7	30.9	30.1	31.2	31.5
12H	29.9	31.0	30.2	31.3	31.6	29.7	30.8	30.0	31.1	31.4
4H 2H	28.9	30.2	29.2	30.4	30.7	28.9	30.2	29.2	30.4	30.7
3H	30.2	31.3	30.5	31.6	31.9	30.2	31.3	30.5	31.6	31.9
4H	30.5	31.5	30.9	31.9	32.2	30.5	31.5	30.9	31.8	32.2
6H	30.7	31.6	31.1	31.9	32.3	30.5	31.4	30.9	31.8	32.1
8H	30.6	31.5	31.1	31.8	32.2	30.5	31.3	30.9	31.7	32.0
12H	30.6	31.4	31.0	31.8	32.2	30.4	31.2	30.8	31.6	32.0
8H 4H	30.6	31.5	31.0	31.8	32.2	30.6	31.4	31.0	31.8	32.2
6H	30.8	31.5	31.2	31.9	32.3	30.6	31.3	31.1	31.7	32.1
8H	30.8	31.4	31.3	31.8	32.3	30.6	31.2	31.0	31.6	32.1
12H	30.8	31.3	31.3	31.8	32.2	30.5	31.1	31.0	31.5	32.0
12H 4H	30.6	31.3	31.0	31.7	32.1	30.6	31.3	31.0	31.7	32.1
6H	30.8	31.4	31.2	31.8	32.3	30.6	31.2	31.0	31.6	32.1
8H	30.8	31.3	31.3	31.8	32.2	30.6	31.1	31.0	31.5	32.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.3				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.5				
2.0H	+ 0.5 / - 0.5					+ 0.5 / - 0.4				

CIE Pub.117, 26221 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 11.3)

H(β) Range:-80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Admin
Test Date:2017-07-04

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.30V I:1.6700A P:200.20W PF:0.9960 Freq:50.00Hz Lamp Flux:26220.5x1 lm		
NAME: ULHB-200W-50K-WH	TYPE:	WEIGHT:
SPEC.:200W, AC100-277V , 130lm/W, 5000K , White	DIM.:	SERIAL No.:20170703001
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:

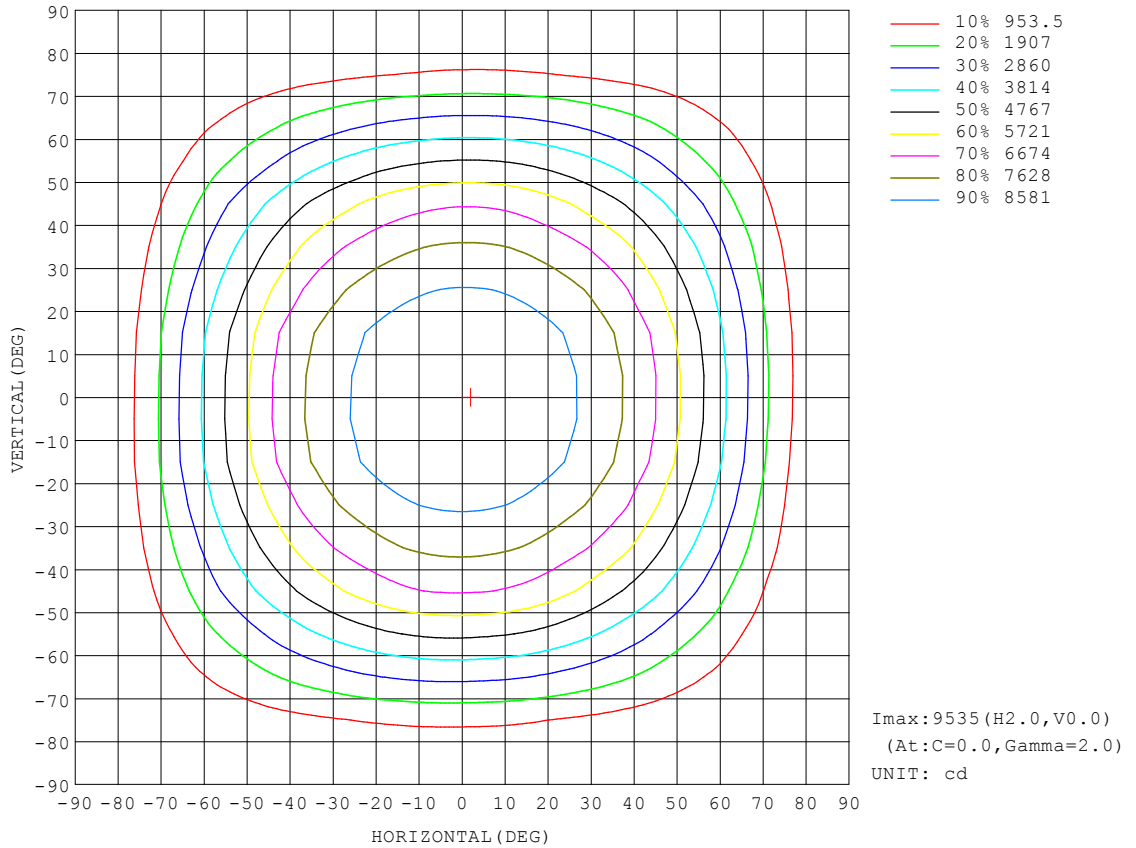
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	59	47	41	58	47	40	57	47	40	34
0.80	69	58	51	68	57	51	66	57	50	43
1.00	78	67	60	77	67	60	75	68	59	53
1.25	85	75	68	84	74	68	81	73	67	60
1.50	90	81	74	88	80	74	85	78	73	65
2.00	97	89	83	95	88	82	92	85	81	73
2.50	101	93	88	99	92	87	95	89	85	77
3.00	104	97	92	102	96	91	98	93	89	81
4.00	108	102	98	105	101	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			

H(β) Range:-80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Admin
Test Date:2017-07-04

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.30V I:1.6700A P:200.20W PF:0.9960 Freq:50.00Hz Lamp Flux:26220.5x1 lm		
NAME: ULHB-200W-50K-WH	TYPE:	WEIGHT:
SPEC.:200W, AC100-277V, 130lm/W, 5000K, White	DIM.:	SERIAL No.:20170703001
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:

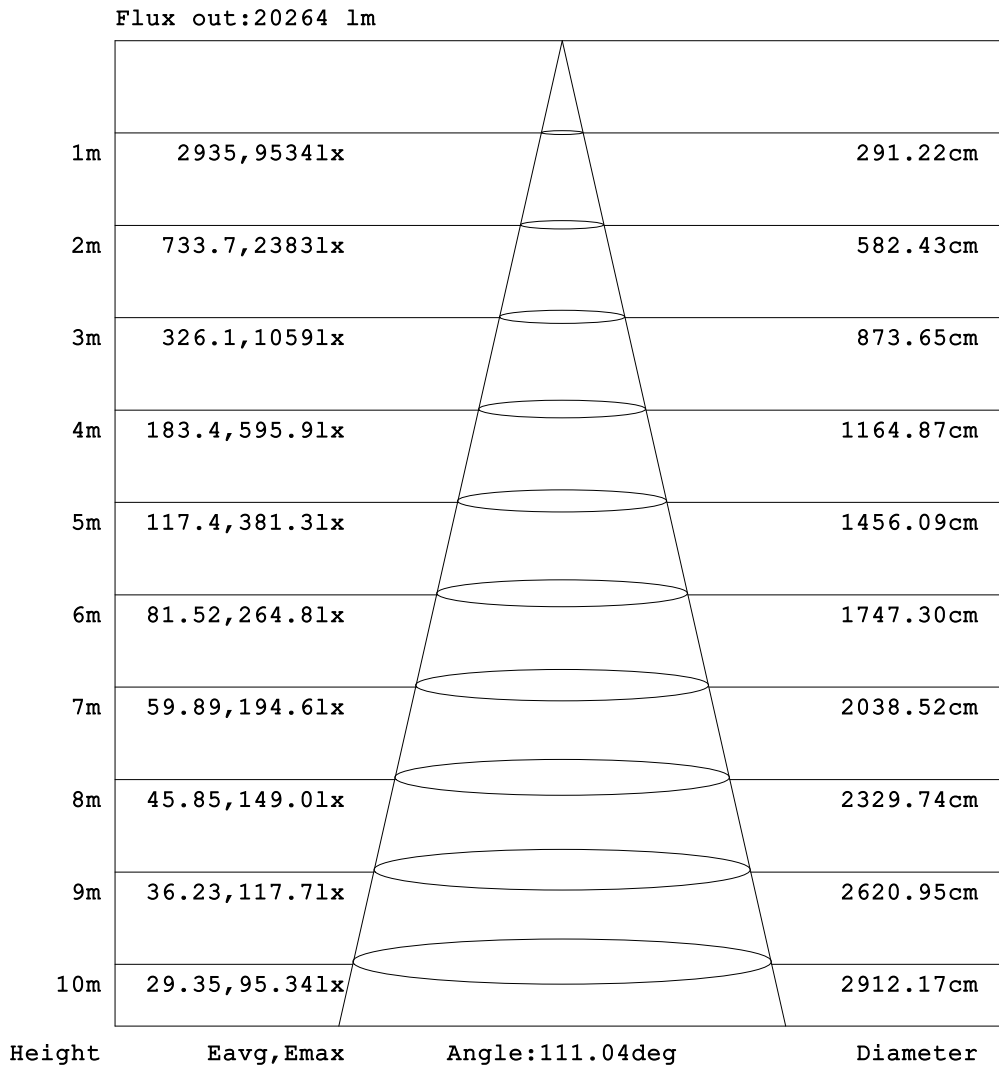


H(β) Range:-80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Admin
Test Date:2017-07-04

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.30V I:1.6700A P:200.20W PF:0.9960 Freq:50.00Hz Lamp Flux:26220.5x1 lm		
NAME: ULHB-200W-50K-WH	TYPE:	WEIGHT:
SPEC.:200W, AC100-277V, 130lm/W, 5000K, White	DIM.:	SERIAL No.:20170703001
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:



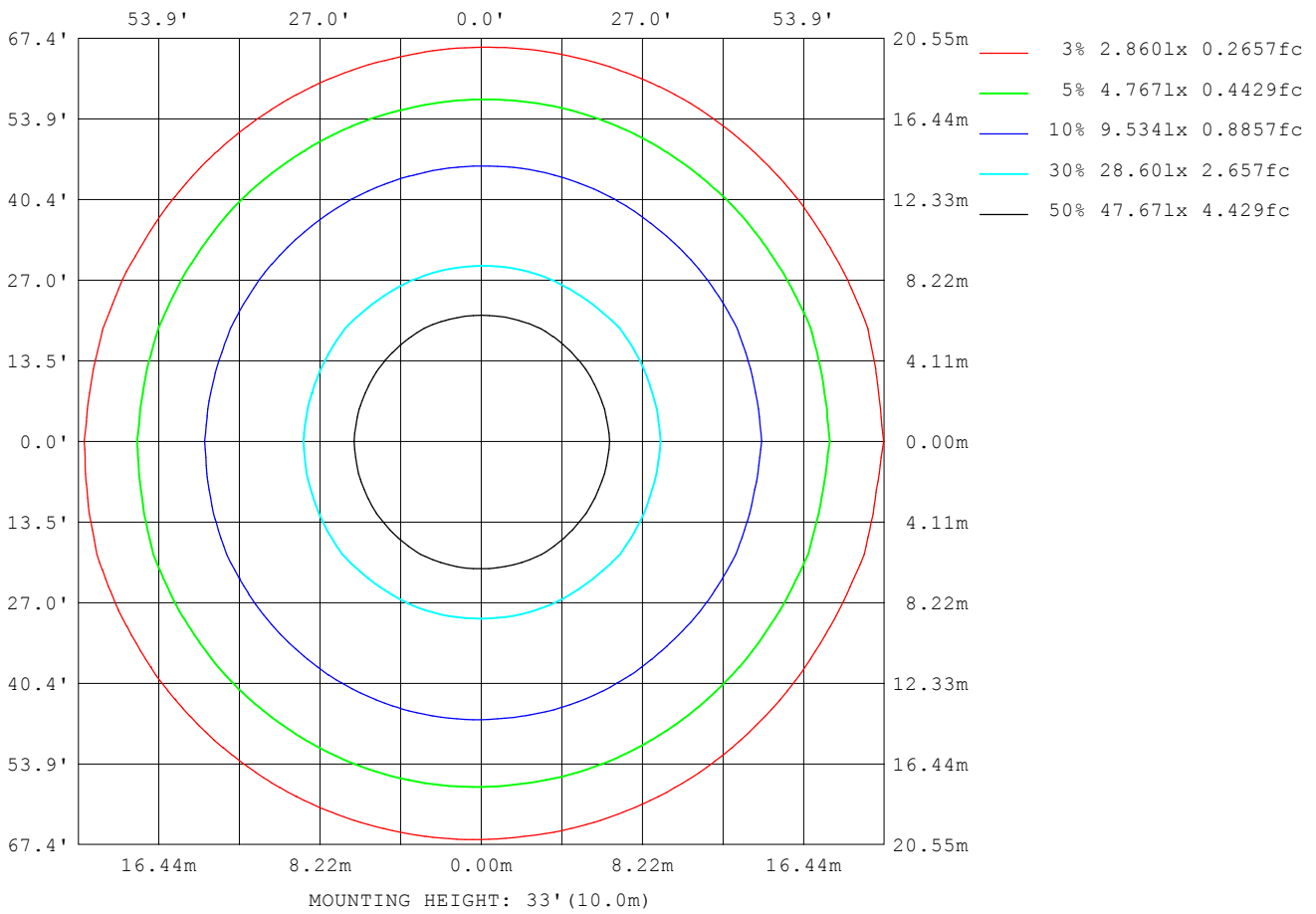
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Admin
Test Date:2017-07-04

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.30V I:1.6700A P:200.20W PF:0.9960 Freq:50.00Hz Lamp Flux:26220.5x1 lm		
NAME: ULHB-200W-50K-WH	TYPE:	WEIGHT:
SPEC.:200W, AC100-277V, 130lm/W, 5000K, White	DIM.:	SERIAL No.:20170703001
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:



H(β) Range:-80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Admin
Test Date:2017-07-04

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.30V I:1.6700A P:200.20W PF:0.9960 Freq:50.00Hz Lamp Flux:26220.5x1 lm		
NAME: ULHB-200W-50K-WH	TYPE:	WEIGHT:
SPEC.:200W, AC100-277V , 130lm/W, 5000K , White	DIM.:	SERIAL No.:20170703001
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:

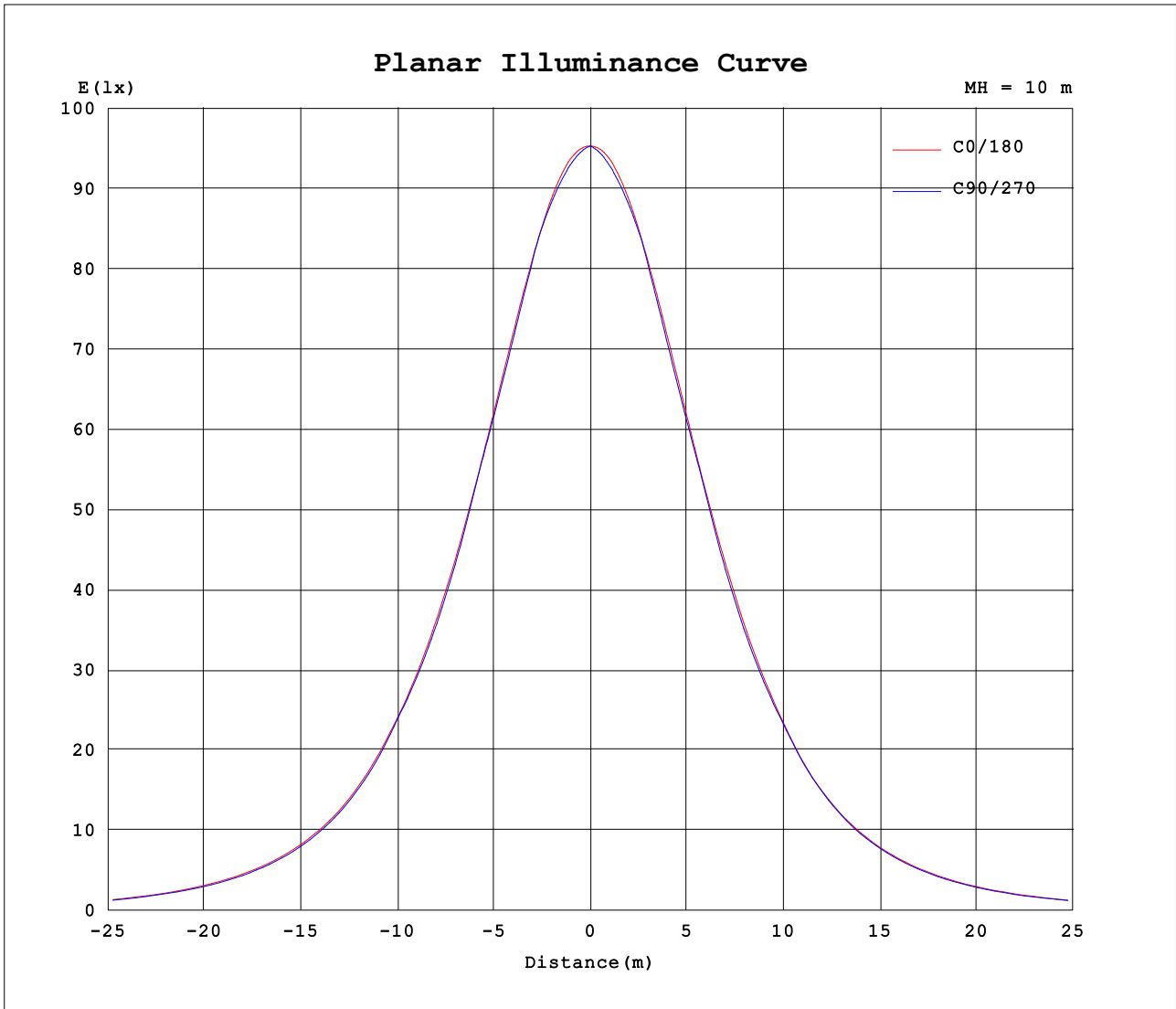
AvgL	cd/m2
L_0~180 (65) av	74062
L_0~180 (75) av	47548
L_0~180 (85) av	0
L_90~270 (65) av	71237
L_90~270 (75) av	42726
L_90~270 (85) av	0
L_45 (65) av	71784
L_45 (75) av	48200
L_45 (85) av	0

Standard: GB/T 29293-2012

H(β) Range:-80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Admin
Test Date:2017-07-04

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Admin
Test Date:2017-07-04

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.30V I:1.6700A P:200.20W PF:0.9960 Freq:50.00Hz Lamp Flux:26220.5x1 lm		
NAME: ULHB-200W-50K-WH	TYPE:	WEIGHT:
SPEC.:200W, AC100-277V, 130lm/W, 5000K, White	DIM.:	SERIAL No.:20170703001
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534
5	9527	9520	9514	9507	9501	9496	9491	9487	9482	9478	9475	9472	9470	9468	9466	9464	9463	9462	9462
10	9457	9442	9429	9418	9409	9402	9397	9394	9391	9390	9389	9389	9389	9389	9389	9390	9390	9390	9390
15	9312	9289	9270	9256	9246	9241	9240	9243	9248	9255	9263	9272	9282	9292	9301	9308	9314	9317	9319
20	9095	9063	9040	9026	9019	9020	9029	9042	9059	9080	9080	9061	9045	9034	9028	9022	9019	9017	9017
25	8801	8762	8736	8723	8723	8737	8762	8792	8758	8734	8719	8710	8707	8706	8707	8710	8712	8714	8715
30	8430	8381	8353	8347	8360	8393	8393	8353	8332	8326	8326	8336	8350	8366	8380	8393	8403	8410	8413
35	7970	7912	7886	7891	7924	7920	7881	7861	7863	7876	7903	7937	7912	7890	7875	7865	7860	7859	7860
40	7421	7354	7332	7350	7367	7322	7313	7322	7354	7356	7301	7276	7271	7277	7283	7289	7296	7302	7307
45	6791	6709	6692	6737	6663	6644	6685	6738	6646	6587	6558	6564	6605	6646	6681	6708	6729	6744	6754
50	5968	5876	5872	5869	5827	5834	5891	5844	5785	5763	5778	5825	5857	5868	5864	5853	5841	5840	5847
55	5074	4974	4985	4936	4937	4947	4899	4894	4889	4896	4891	4895	4901	4921	4929	4929	4923	4927	4941
60	4162	4066	4059	4011	4042	3971	3956	3983	3953	3934	3942	3953	3967	3983	3996	4006	4006	4014	4035
65	3213	3116	3085	3114	3039	3014	3002	2967	2977	2994	3014	3028	3030	3036	3043	3051	3051	3054	3069
70	2237	2141	2102	2080	2022	2043	2016	1990	2016	2075	2085	2087	2080	2080	2084	2092	2094	2095	2103
75	1294	1208	1176	1131	1120	1106	1134	1161	1177	1191	1177	1165	1144	1132	1130	1134	1137	1136	1137
80	529	481	437	443	450	486	487	454	409	379	339	293	235	176	120	71.6	33.1	8.42	0.00
85	0.00	0.00	123	130	98.7	51.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Admin
Test Date:2017-07-04

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.30V I:1.6700A P:200.20W PF:0.9960 Freq:50.00Hz Lamp Flux:26220.5x1 lm		
NAME: ULHB-200W-50K-WH	TYPE:	WEIGHT:
SPEC.:200W, AC100-277V, 130lm/W, 5000K, White	DIM.:	SERIAL No.:20170703001
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534
5	9462	9462	9463	9464	9465	9467	9469	9471	9474	9477	9481	9485	9489	9494	9499	9505	9512	9518	9510
10	9390	9390	9389	9388	9386	9385	9383	9381	9380	9380	9381	9382	9386	9390	9397	9407	9418	9431	9413
15	9318	9315	9308	9300	9290	9280	9269	9257	9246	9236	9229	9224	9221	9222	9226	9236	9250	9269	9244
20	9018	9020	9023	9027	9035	9046	9060	9079	9079	9053	9030	9013	8999	8991	8990	8997	9013	9038	9004
25	8715	8713	8710	8708	8707	8708	8711	8718	8734	8757	8785	8748	8716	8693	8682	8684	8701	8731	8690
30	8411	8405	8394	8381	8368	8352	8338	8329	8324	8331	8346	8380	8374	8330	8302	8296	8311	8347	8297
35	7864	7869	7876	7885	7899	7918	7943	7908	7879	7865	7859	7872	7908	7898	7848	7827	7835	7873	7816
40	7312	7314	7312	7307	7296	7290	7297	7321	7375	7361	7327	7307	7313	7351	7315	7271	7262	7296	7237
45	6761	6759	6743	6717	6676	6639	6614	6610	6629	6675	6734	6648	6611	6637	6691	6600	6577	6629	6546
50	5864	5882	5897	5907	5913	5924	5907	5860	5842	5846	5842	5846	5793	5769	5788	5745	5686	5712	5643
55	4959	4974	4983	4987	4989	4991	4994	5006	5027	4987	4953	4937	4961	4923	4899	4922	4836	4858	4799
60	4055	4065	4071	4074	4076	4073	4069	4072	4078	4091	4127	4077	4055	4082	4021	4023	3964	3979	3921
65	3088	3101	3112	3125	3138	3149	3158	3167	3161	3154	3153	3179	3169	3140	3148	3104	3071	3047	3004
70	2119	2133	2146	2162	2182	2197	2213	2238	2252	2222	2194	2211	2237	2199	2178	2139	2109	2050	2023
75	1151	1166	1183	1204	1234	1258	1286	1322	1350	1353	1343	1334	1322	1302	1292	1255	1215	1167	1138
80	8.54	33.9	75.0	130	197	269	343	419	487	544	588	625	633	599	582	558	519	463	430
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	79.1	150	182	173	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Admin
Test Date:2017-07-04

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.30V I:1.6700A P:200.20W PF:0.9960 Freq:50.00Hz Lamp Flux:26220.5x1 lm		
NAME: ULHB-200W-50K-WH	TYPE:	WEIGHT:
SPEC.:200W, AC100-277V, 130lm/W, 5000K, White	DIM.:	SERIAL No.:20170703001
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:

Table--3

UNIT: cd

C (DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534
5	9502	9494	9487	9480	9474	9469	9464	9459	9455	9452	9448	9446	9444	9443	9442	9442	9442	9442	9443
10	9398	9385	9374	9366	9359	9355	9351	9349	9347	9347	9347	9348	9348	9348	9349	9349	9350	9351	9352
15	9223	9207	9196	9189	9186	9186	9189	9195	9203	9212	9221	9230	9238	9246	9252	9256	9259	9258	9257
20	8979	8963	8956	8956	8962	8973	8988	9008	9004	8982	8966	8956	8948	8943	8942	8941	8943	8946	8951
25	8662	8649	8650	8663	8685	8713	8675	8647	8626	8615	8609	8607	8611	8614	8619	8624	8628	8630	8633
30	8268	8260	8275	8307	8302	8258	8232	8218	8215	8221	8232	8247	8263	8279	8293	8305	8312	8314	8314
35	7791	7796	7828	7823	7772	7747	7740	7752	7772	7802	7773	7748	7733	7729	7728	7733	7739	7746	7758
40	7222	7247	7259	7198	7180	7188	7208	7209	7152	7121	7109	7109	7116	7127	7141	7154	7165	7173	7180
45	6536	6602	6524	6471	6480	6549	6495	6437	6401	6396	6421	6455	6488	6519	6552	6576	6591	6600	6600
50	5660	5674	5635	5641	5665	5642	5638	5630	5629	5651	5671	5674	5670	5666	5672	5681	5691	5706	5725
55	4840	4768	4746	4766	4743	4745	4771	4798	4767	4744	4738	4750	4756	4756	4765	4779	4791	4805	4821
60	3941	3880	3894	3843	3851	3892	3855	3835	3828	3824	3827	3838	3848	3849	3858	3878	3891	3904	3918
65	2978	2972	2932	2956	2946	2899	2881	2901	2906	2912	2917	2920	2922	2920	2923	2940	2952	2966	2981
70	1977	1973	1971	1994	1969	1939	1940	1991	2007	2002	1996	1994	1993	1988	1988	2003	2014	2028	2042
75	1112	1110	1093	1081	1092	1126	1143	1143	1139	1114	1092	1077	1068	1058	1054	1066	1075	1090	1104
80	426	424	430	468	469	443	401	366	330	279	223	167	113	66.6	30.6	7.89	0.00	8.08	32.1
85	94.2	101	77.7	46.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Admin
Test Date:2017-07-04

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.30V I:1.6700A P:200.20W PF:0.9960 Freq:50.00Hz Lamp Flux:26220.5x1 lm		
NAME: ULHB-200W-50K-WH	TYPE:	WEIGHT:
SPEC.:200W, AC100-277V, 130lm/W, 5000K, White	DIM.:	SERIAL No.:20170703001
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:

Table--4

UNIT: cd

C (DEG) \ γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534	9534				
5	9445	9447	9450	9453	9457	9461	9465	9470	9476	9482	9488	9495	9503	9511	9519				
10	9353	9354	9356	9358	9360	9363	9366	9370	9375	9381	9389	9399	9410	9424	9440				
15	9254	9250	9245	9239	9233	9227	9223	9219	9218	9219	9223	9232	9245	9263	9285				
20	8958	8968	8979	8995	9014	9036	9042	9027	9014	9005	9001	9004	9015	9033	9060				
25	8637	8640	8645	8652	8661	8677	8696	8725	8763	8737	8718	8709	8713	8729	8758				
30	8312	8306	8300	8292	8288	8286	8293	8304	8329	8370	8376	8348	8339	8349	8379				
35	7772	7791	7814	7852	7894	7871	7850	7842	7845	7868	7912	7920	7890	7886	7912				
40	7182	7181	7182	7189	7217	7264	7332	7338	7314	7312	7326	7377	7359	7338	7357				
45	6586	6557	6524	6502	6493	6508	6557	6639	6739	6679	6649	6685	6761	6711	6719				
50	5738	5744	5744	5752	5744	5725	5747	5794	5846	5913	5878	5875	5901	5893	5887				
55	4832	4835	4839	4845	4850	4870	4909	4918	4934	4959	5011	4991	4990	5035	5002				
60	3929	3934	3945	3954	3955	3968	3986	4012	4049	4045	4069	4143	4104	4126	4102				
65	2994	3010	3032	3054	3070	3074	3079	3091	3094	3138	3158	3173	3211	3169	3166				
70	2056	2076	2098	2119	2141	2163	2186	2188	2157	2175	2213	2211	2228	2228	2224				
75	1121	1146	1169	1195	1229	1266	1305	1315	1307	1291	1298	1296	1303	1311	1292				
80	71.0	123	185	252	322	393	456	506	554	587	600	574	569	558	557				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	67.1	118	149	142	0.00			
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

H(β) Range:-80 - 80DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Admin
Test Date:2017-07-04

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks: