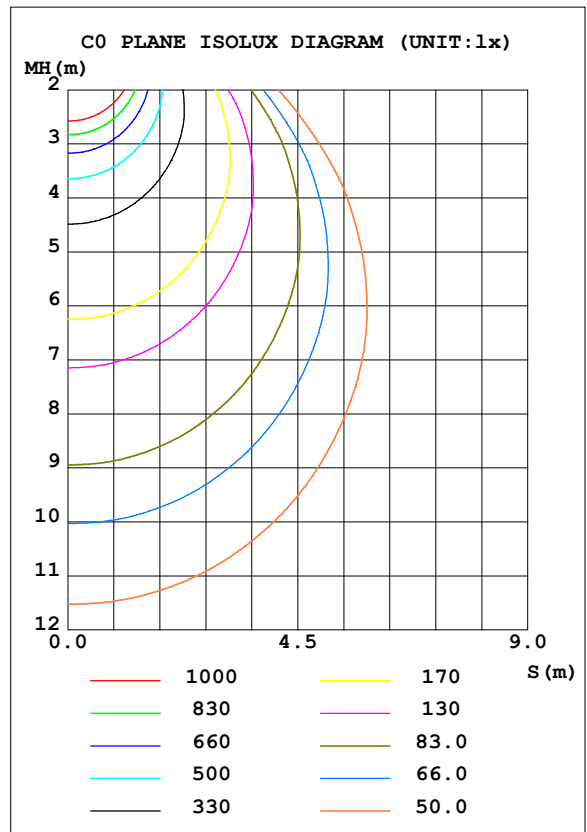
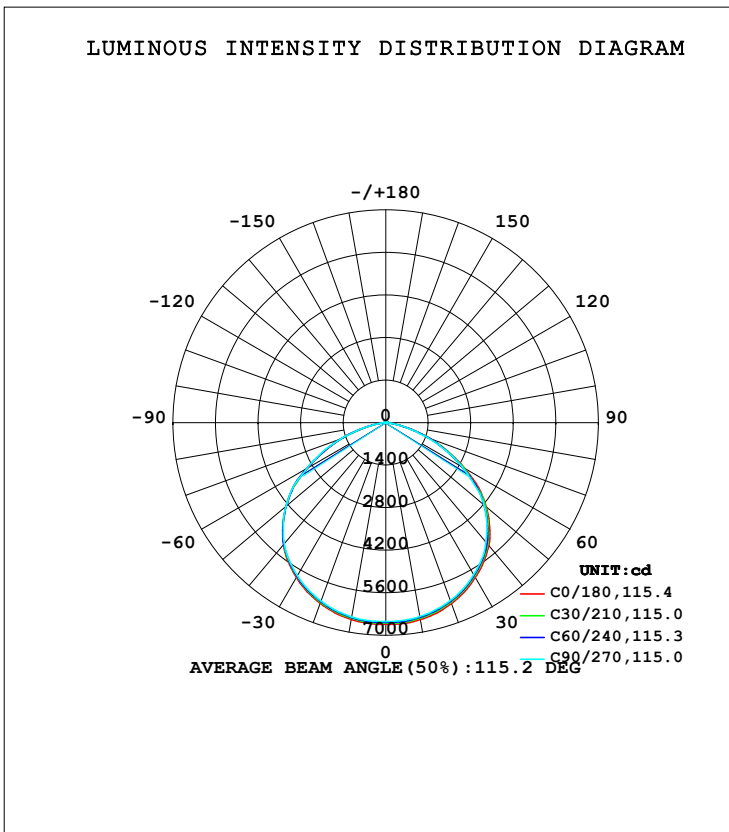


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.12V I:1.2370A P:147.66W PF:0.9938 Freq:59.98Hz Lamp Flux:19085.4x1 lm		
NAME: ULHB-150W-50K-WH	TYPE:	WEIGHT:
SPEC.:150W, AC100-277V, 130lm/W, 5000K, White	DIM.:	SERIAL No.:20180205003
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 129.25 lm/W			
MODEL	ULHB-150W-50K-WH	I _{max} (cd)	6639	S/MH (C0/180)	1.32
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.32
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	19085	η UP, DN (C0-180)	0.5, 49.2
NOMINAL FLUX (lm)	19085.4	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.6, 49.7
LAMPS INSIDE	1	η up (%)	1.1	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	120	η down (%)	98.9	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Admin
 Test Date: 2018-02-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity: 65.0%
 Test Distance: 7.495m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

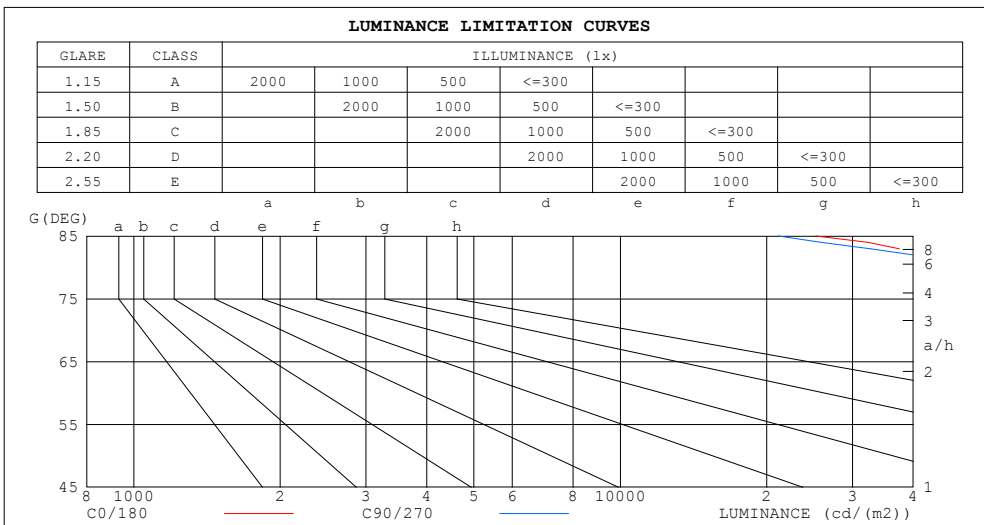
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	6580	6519	6477	6457	6577	6518	6489	6462	0- 10	623.8	623.8	3.27,3.27
20	6332	6274	6227	6208	6324	6275	6247	6221	10- 20	1808	2432	12.7,12.7
30	5892	5835	5785	5772	5882	5837	5822	5793	20- 30	2795	5226	27.4,27.4
40	5278	5217	5130	5128	5237	5221	5204	5196	30- 40	3462	8689	45.5,45.5
50	4319	4264	4225	4211	4293	4281	4291	4255	40- 50	3664	12353	64.7,64.7
60	2985	2911	2899	2871	2952	2948	2981	2944	50- 60	3252	15605	81.8,81.8
70	1595	1546	1500	1513	1571	1561	1585	1555	60- 70	2213	17818	93.4,93.4
80	349.7	331.8	310.9	315.3	336.7	340.4	353.8	340.7	70- 80	937.3	18755	98.3,98.3
90	30.32	30.03	29.83	29.73	29.49	29.16	28.98	28.82	80- 90	115.1	18870	98.9,98.9
100	30.39	30.16	29.91	29.85	30.73	30.35	30.12	29.99	90-100	32.42	18903	99,99
110	31.21	30.98	30.69	30.65	32.76	32.31	32.05	31.91	100-110	32.54	18935	99.2,99.2
120	32.47	32.28	32.05	31.98	35.09	34.64	34.33	34.19	110-120	32.13	18967	99.4,99.4
130	34.05	33.92	33.67	33.59	37.14	36.72	36.42	36.34	120-130	30.69	18998	99.5,99.5
140	35.82	35.74	35.47	35.32	39.30	38.85	38.39	38.47	130-140	27.97	19026	99.7,99.7
150	38.07	37.88	37.65	37.40	41.41	41.31	41.02	40.97	140-150	23.97	19050	99.8,99.8
160	41.23	40.91	40.73	40.39	43.96	43.90	43.66	43.56	150-160	18.83	19069	99.9,99.9
170	44.48	44.26	43.94	43.64	45.89	45.38	45.21	45.36	160-170	12.26	19081	100,100
180	46.27	46.10	45.59	45.58	46.41	46.01	45.67	45.55	170-180	4.319	19085	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-02-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.495m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.12V I:1.2370A P:147.66W PF:0.9938 Freq:59.98Hz Lamp Flux:19085.4x1 lm		
NAME: ULHB-150W-50K-WH	TYPE:	WEIGHT:
SPEC.:150W, AC100-277V, 130lm/W, 5000K, White	DIM.:	SERIAL No.:20180205003
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	25233	21128
80	64139	57021
75	108851	101585
70	148537	139627
65	170624	164860
60	190145	184656
55	207220	198304
50	213969	209337
45	217864	212232

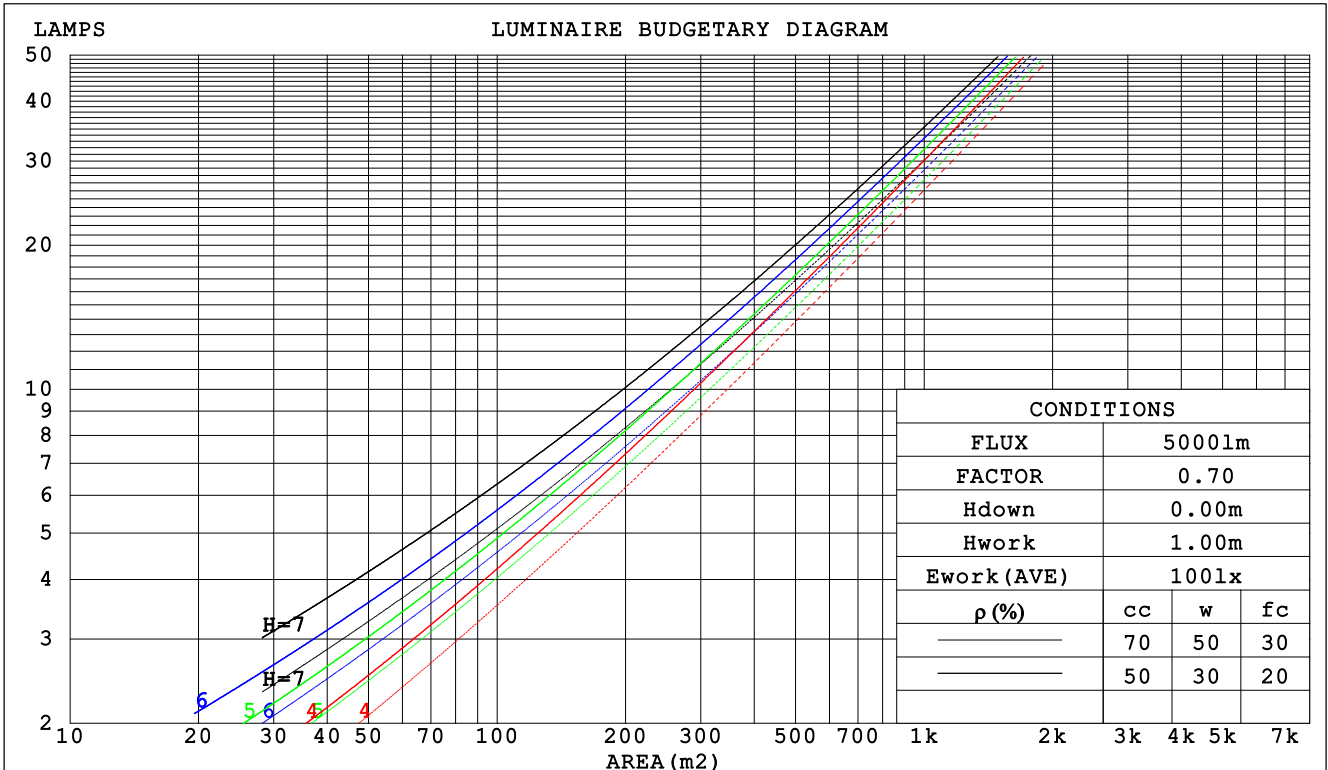
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-02-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.495m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.12V I:1.2370A P:147.66W PF:0.9938 Freq:59.98Hz Lamp Flux:19085.4x1 lm		
NAME: ULHB-150W-50K-WH	TYPE:	WEIGHT:
SPEC.:150W, AC100-277V, 130lm/W, 5000K, White	DIM.:	SERIAL No.:20180205003
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	1.10	1.10	1.10	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.05	1.01	.97	1.02	.99	.96	.98	.95	.92	.94	.92	.89	.90	.88	.87	.84
2.0	.92	.85	.80	.90	.84	.79	.86	.81	.77	.83	.79	.75	.80	.76	.73	.71
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.73	.68	.63	.70	.66	.62	.60
4.0	.72	.63	.56	.70	.62	.56	.67	.61	.55	.65	.59	.54	.63	.58	.53	.51
5.0	.64	.55	.48	.63	.54	.48	.60	.53	.48	.58	.52	.47	.56	.51	.46	.44
6.0	.57	.49	.42	.56	.48	.42	.54	.47	.42	.53	.46	.41	.51	.45	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.49	.42	.37	.48	.41	.36	.46	.41	.36	.34
8.0	.47	.39	.33	.47	.39	.33	.45	.38	.33	.44	.37	.32	.43	.37	.32	.30
9.0	.43	.35	.30	.43	.35	.30	.42	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.36	.31	.26	.25



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-02-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.495m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.12V I:1.2370A P:147.66W PF:0.9938 Freq:59.98Hz Lamp Flux:19085.4x1 lm		
NAME: ULHB-150W-50K-WH	TYPE:	WEIGHT:
SPEC.:150W, AC100-277V, 130lm/W, 5000K, White	DIM.:	SERIAL No.:20180205003
MFR.: WESTGATE MFG INC	SUR.:	Shielding 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	.286	.163	.052	.279	.159	.051	.265	.152	.049	.252	.146	.047	.241	.139	.045	
2.0	.276	.151	.046	.270	.149	.046	.258	.143	.045	.247	.138	.043	.236	.134	.042	
3.0	.260	.138	.041	.254	.136	.041	.243	.132	.040	.233	.128	.039	.224	.124	.038	
4.0	.242	.126	.037	.237	.124	.037	.227	.120	.036	.218	.117	.035	.210	.114	.035	
5.0	.225	.115	.033	.221	.113	.033	.212	.110	.032	.204	.108	.032	.197	.105	.032	
6.0	.210	.105	.030	.206	.104	.030	.198	.102	.030	.191	.099	.029	.184	.097	.029	
7.0	.196	.097	.027	.192	.096	.027	.185	.094	.027	.179	.092	.027	.173	.090	.026	
8.0	.183	.090	.025	.180	.089	.025	.174	.087	.025	.168	.085	.025	.163	.084	.024	
9.0	.172	.083	.023	.169	.083	.023	.164	.081	.023	.159	.079	.023	.154	.078	.023	
10.0	.162	.078	.022	.160	.077	.021	.155	.076	.021	.150	.074	.021	.145	.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	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.187	.165	.145	.160	.142	.125	.110	.097	.086	.063	.056	.050	.020	.018	.016	
2.0	.179	.141	.109	.153	.121	.094	.105	.084	.065	.061	.049	.038	.019	.016	.013	
3.0	.171	.123	.085	.147	.106	.073	.101	.074	.051	.058	.043	.030	.019	.014	.010	
4.0	.164	.110	.068	.141	.095	.059	.097	.066	.042	.056	.039	.025	.018	.013	.008	
5.0	.157	.099	.057	.135	.086	.049	.093	.060	.035	.054	.035	.021	.017	.011	.007	
6.0	.150	.091	.049	.129	.079	.042	.089	.055	.030	.052	.032	.018	.017	.011	.006	
7.0	.143	.084	.042	.123	.073	.037	.085	.051	.026	.049	.030	.016	.016	.010	.005	
8.0	.137	.078	.038	.118	.068	.033	.082	.048	.023	.047	.028	.014	.015	.009	.005	
9.0	.131	.073	.034	.113	.064	.030	.078	.045	.021	.046	.026	.013	.015	.009	.004	
10.0	.125	.069	.032	.108	.060	.027	.075	.042	.020	.044	.025	.012	.014	.008	.004	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-02-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.495m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.12V I:1.2370A P:147.66W PF:0.9938 Freq:59.98Hz Lamp Flux:19085.4x1 lm										
NAME: ULHB-150W-50K-WH					TYPE:			WEIGHT:		
SPEC.:150W, AC100-277V , 130lm/W, 5000K, White					DIM.:			SERIAL No.:20180205003		
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	31.4	32.9	31.7	33.1	33.3	31.2	32.7	31.5	32.9	33.2
3H	32.6	33.9	32.9	34.2	34.4	32.4	33.7	32.7	34.0	34.2
4H	32.9	34.1	33.2	34.4	34.7	32.6	33.9	33.0	34.2	34.5
6H	32.9	34.1	33.3	34.4	34.7	32.7	33.9	33.0	34.2	34.5
8H	32.9	34.1	33.3	34.4	34.7	32.7	33.8	33.0	34.1	34.4
12H	32.9	34.0	33.2	34.3	34.6	32.6	33.7	33.0	34.1	34.4
4H 2H	31.9	33.2	32.2	33.4	33.7	31.8	33.0	32.1	33.3	33.6
3H	33.2	34.3	33.5	34.6	34.9	33.0	34.1	33.4	34.4	34.8
4H	33.6	34.6	33.9	34.9	35.3	33.4	34.4	33.8	34.7	35.1
6H	33.7	34.6	34.1	35.0	35.3	33.5	34.4	33.9	34.7	35.1
8H	33.7	34.5	34.1	34.9	35.3	33.5	34.3	33.9	34.7	35.1
12H	33.7	34.4	34.1	34.8	35.2	33.4	34.2	33.9	34.6	35.0
8H 4H	33.6	34.5	34.1	34.9	35.3	33.5	34.3	33.9	34.7	35.1
6H	33.8	34.5	34.3	34.9	35.4	33.6	34.3	34.1	34.7	35.2
8H	33.8	34.4	34.3	34.9	35.4	33.6	34.2	34.1	34.7	35.1
12H	33.8	34.3	34.3	34.8	35.3	33.6	34.1	34.1	34.6	35.1
12H 4H	33.6	34.4	34.0	34.8	35.2	33.4	34.2	33.9	34.6	35.0
6H	33.8	34.4	34.3	34.9	35.3	33.6	34.2	34.1	34.7	35.1
8H	33.8	34.3	34.3	34.8	35.3	33.6	34.1	34.1	34.6	35.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.3				
1.5H	+ 0.3 / - 0.5					+ 0.3 / - 0.5				
2.0H	+ 0.5 / - 0.4					+ 0.5 / - 0.3				

CIE Pub.117, 19085 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 10.2)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-02-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.495m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.12V I:1.2370A P:147.66W PF:0.9938 Freq:59.98Hz Lamp Flux:19085.4x1 lm		
NAME: ULHB-150W-50K-WH	TYPE:	WEIGHT:
SPEC.:150W, AC100-277V, 130lm/W, 5000K, White	DIM.:	SERIAL No.:20180205003
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:

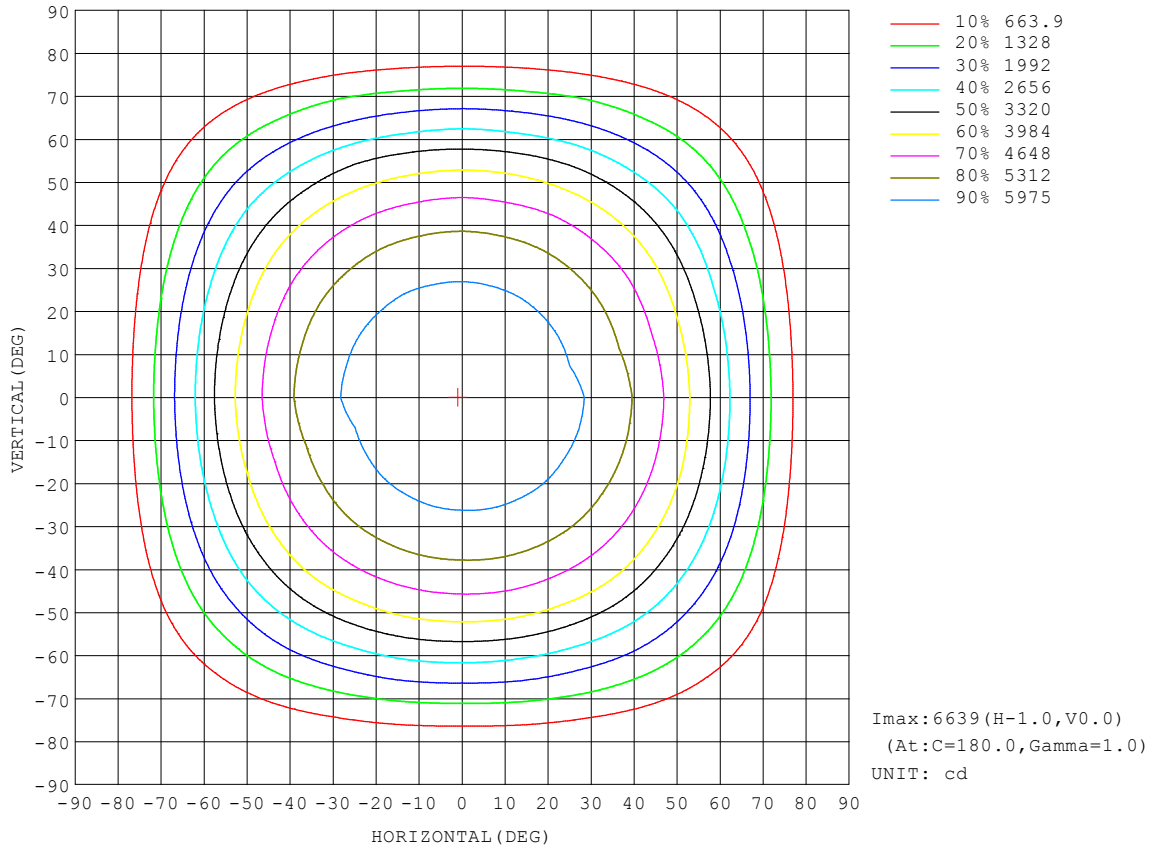
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	39	57	46	39	56	45	39	32
0.80	68	57	49	67	56	49	65	55	49	42
1.00	77	66	59	76	65	59	73	67	58	51
1.25	84	74	67	83	73	67	80	72	66	58
1.50	89	80	73	87	79	72	84	77	71	64
2.00	96	88	82	94	87	81	91	84	79	71
2.50	100	92	87	98	91	86	94	88	84	75
3.00	103	97	91	101	95	90	97	92	88	79
4.00	107	102	97	104	100	96	100	96	93	84
5.00	109	105	101	107	103	99	102	99	96	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-02-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.495m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.12V I:1.2370A P:147.66W PF:0.9938 Freq:59.98Hz Lamp Flux:19085.4x1 lm		
NAME: ULHB-150W-50K-WH	TYPE:	WEIGHT:
SPEC.:150W, AC100-277V, 130lm/W, 5000K, White	DIM.:	SERIAL No.:20180205003
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:

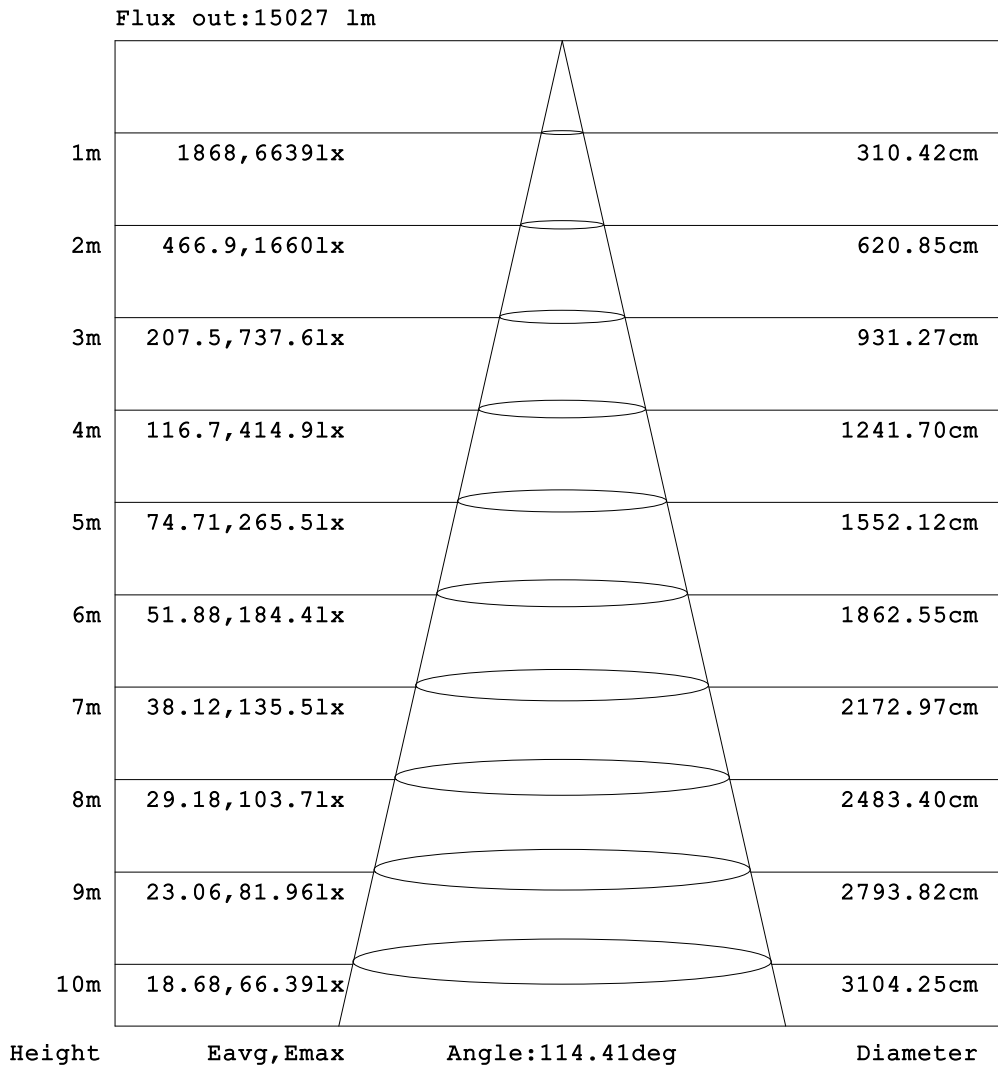


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-02-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.495m [K=1.0000]
 Remarks:

AAI Figure

Test:U:120.12V I:1.2370A P:147.66W PF:0.9938 Freq:59.98Hz Lamp Flux:19085.4x1 lm		
NAME: ULHB-150W-50K-WH	TYPE:	WEIGHT:
SPEC.:150W, AC100-277V, 130lm/W, 5000K, White	DIM.:	SERIAL No.:20180205003
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:



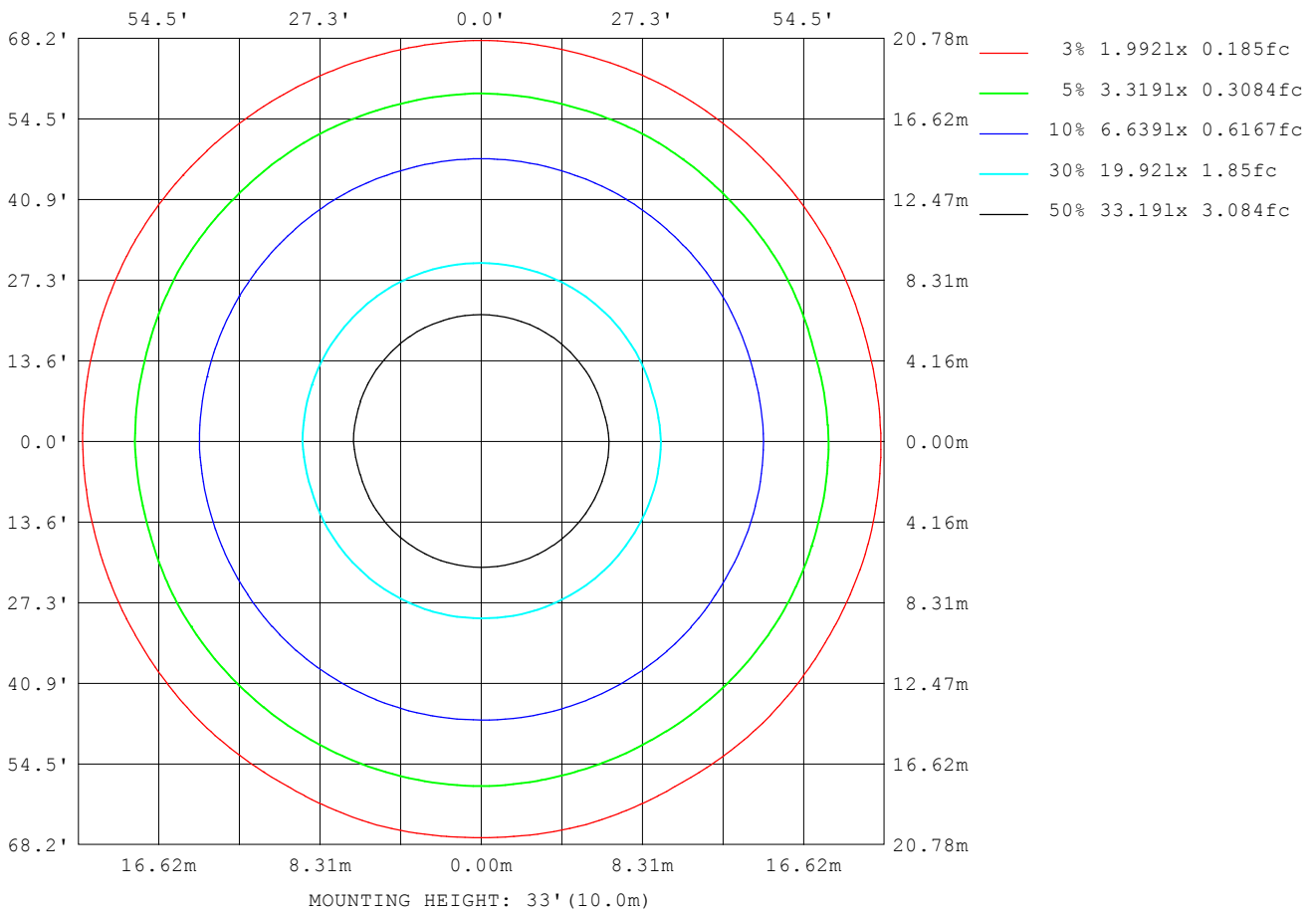
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-02-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.495m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.12V I:1.2370A P:147.66W PF:0.9938 Freq:59.98Hz Lamp Flux:19085.4x1 lm		
NAME: ULHB-150W-50K-WH	TYPE:	WEIGHT:
SPEC.:150W, AC100-277V, 130lm/W, 5000K, White	DIM.:	SERIAL No.:20180205003
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-02-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.495m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:120.12V I:1.2370A P:147.66W PF:0.9938 Freq:59.98Hz Lamp Flux:19085.4x1 lm		
NAME: ULHB-150W-50K-WH	TYPE:	WEIGHT:
SPEC.:150W, AC100-277V, 130lm/W, 5000K, White	DIM.:	SERIAL No.:20180205003
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:

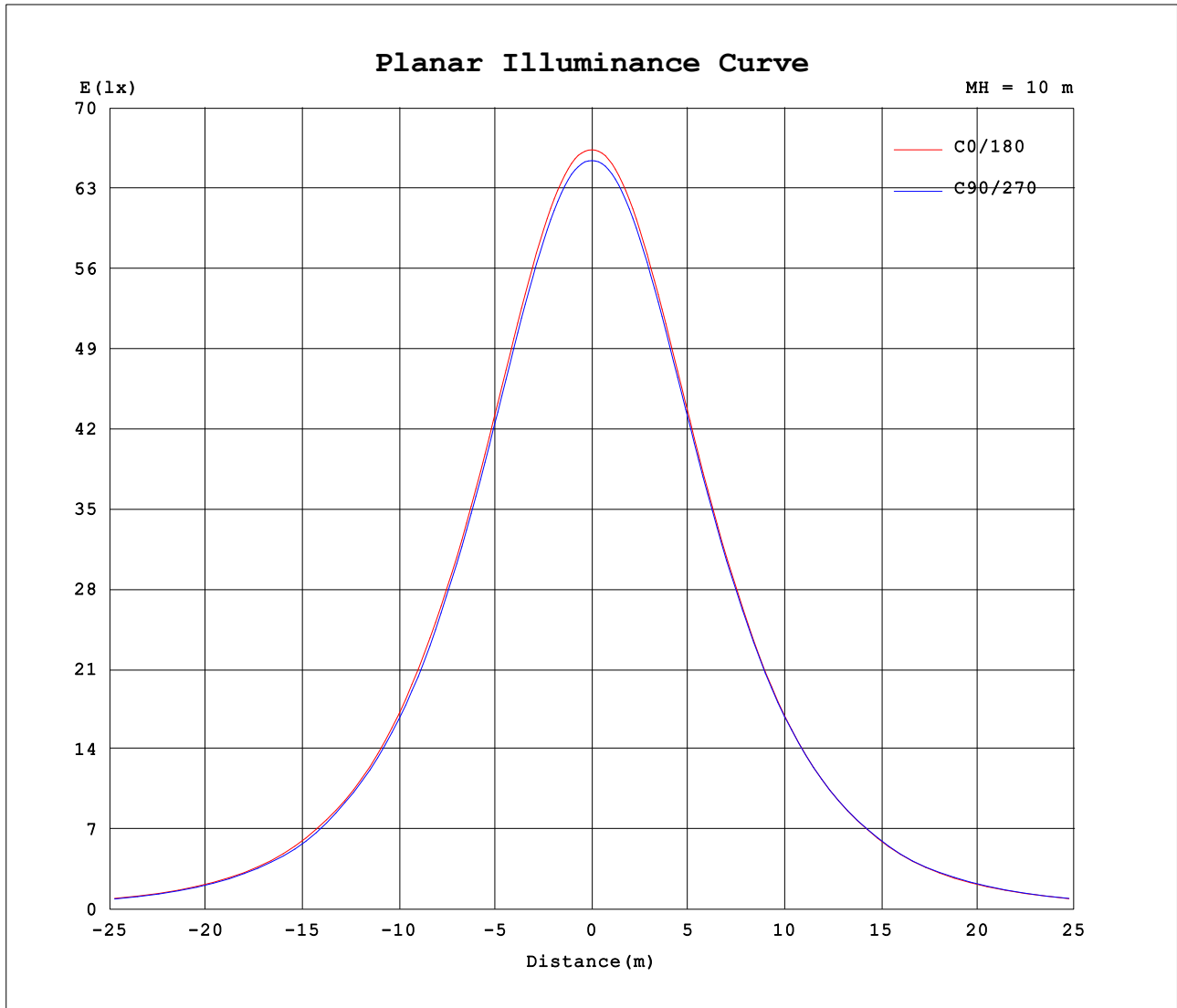
AvgL	cd/m2
L_0~180 (65) av	169947
L_0~180 (75) av	107647
L_0~180 (85) av	24225
L_90~270 (65) av	168698
L_90~270 (75) av	105399
L_90~270 (85) av	22594
L_45 (65) av	168747
L_45 (75) av	106128
L_45 (85) av	22881

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-02-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.495m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Admin
 Test Date: 2018-02-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity: 65.0%
 Test Distance: 7.495m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.12V I:1.2370A P:147.66W PF:0.9938 Freq:59.98Hz Lamp Flux:19085.4x1 lm		
NAME: ULHB-150W-50K-WH	TYPE:	WEIGHT:
SPEC.:150W, AC100-277V , 130lm/W, 5000K, White	DIM.:	SERIAL No.:20180205003
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	6639	6617	6599	6582	6569	6556	6545	6535	6527	6519	6514	6509	6639	6617	6599	6582	6569	6556	6545
5	6634	6613	6593	6577	6561	6548	6536	6527	6516	6510	6505	6500	6631	6610	6593	6575	6563	6550	6540
10	6580	6558	6537	6519	6505	6491	6477	6469	6462	6457	6449	6448	6577	6554	6537	6518	6510	6495	6489
15	6485	6463	6437	6422	6403	6390	6374	6367	6361	6357	6349	6346	6474	6450	6437	6421	6414	6401	6392
20	6332	6313	6287	6274	6254	6244	6227	6220	6211	6208	6200	6201	6324	6304	6292	6275	6268	6255	6247
25	6138	6120	6091	6084	6064	6052	6032	6028	6018	6018	6008	6011	6133	6109	6099	6086	6082	6067	6058
30	5892	5872	5844	5835	5810	5802	5785	5782	5772	5772	5764	5766	5882	5861	5852	5837	5839	5825	5822
35	5607	5590	5559	5547	5529	5520	5505	5504	5492	5487	5479	5484	5597	5578	5565	5550	5556	5541	5542
40	5278	5258	5225	5217	5188	5158	5130	5134	5121	5128	5114	5128	5237	5219	5225	5221	5225	5207	5204
45	4837	4815	4776	4755	4732	4731	4712	4702	4691	4688	4686	4696	4793	4778	4782	4773	4783	4770	4773
50	4319	4313	4284	4264	4226	4240	4225	4225	4189	4211	4202	4215	4293	4277	4294	4281	4274	4269	4291
55	3732	3705	3646	3650	3624	3609	3572	3590	3594	3608	3612	3641	3714	3699	3719	3715	3728	3713	3735
60	2985	2959	2956	2911	2874	2866	2899	2881	2868	2871	2892	2877	2952	2944	2973	2948	2980	2968	2981
65	2264	2283	2246	2236	2186	2214	2188	2217	2178	2208	2194	2216	2246	2255	2277	2264	2253	2263	2290
70	1595	1581	1550	1546	1538	1522	1500	1519	1521	1513	1498	1521	1571	1552	1568	1561	1587	1567	1585
75	885	890	860	865	841	845	826	839	824	838	824	847	865	866	877	875	891	885	888
80	350	351	333	332	317	318	311	314	311	315	311	321	337	335	344	340	349	345	354
85	69.1	68.0	63.4	64.1	59.8	60.4	57.8	59.7	58.4	59.0	58.0	59.6	63.5	62.4	64.9	64.7	68.7	65.1	65.8
90	30.3	30.2	30.1	30.0	30.0	29.9	29.8	29.8	29.7	29.7	29.7	29.7	29.5	29.3	29.3	29.2	29.1	29.0	29.0
95	30.3	30.2	30.0	30.0	29.9	29.9	29.8	29.7	29.7	29.7	29.6	29.6	30.0	29.8	29.7	29.6	29.5	29.4	29.4
100	30.4	30.3	30.2	30.2	30.0	30.0	29.9	29.9	29.8	29.8	29.8	29.8	30.7	30.5	30.5	30.3	30.3	30.2	30.1
105	30.7	30.7	30.5	30.5	30.4	30.3	30.2	30.2	30.2	30.2	30.1	30.1	31.7	31.5	31.4	31.3	31.2	31.1	31.0
110	31.2	31.2	31.0	31.0	30.8	30.8	30.7	30.7	30.7	30.6	30.6	30.6	32.8	32.5	32.5	32.3	32.2	32.1	32.0
115	31.8	31.8	31.6	31.6	31.4	31.5	31.3	31.3	31.2	31.2	31.2	31.2	33.9	33.6	33.6	33.5	33.4	33.2	33.2
120	32.5	32.5	32.3	32.3	32.2	32.1	32.1	32.0	32.0	32.0	32.0	32.0	35.1	34.8	34.8	34.6	34.5	34.4	34.3
125	33.2	33.2	33.1	33.1	32.9	32.9	32.8	32.7	32.7	32.7	32.8	32.8	36.1	35.7	35.8	35.7	35.6	35.4	35.4
130	34.0	34.1	33.9	33.9	33.8	33.9	33.7	33.5	33.6	33.6	33.7	33.6	37.1	36.6	36.9	36.7	36.7	36.5	36.4
135	35.1	34.9	34.8	34.8	34.7	34.6	34.5	34.4	34.4	34.5	34.5	34.6	38.1	37.7	37.9	37.8	37.8	37.5	37.5
140	35.8	35.8	35.8	35.7	35.8	35.6	35.5	35.5	35.5	35.3	35.3	35.5	39.3	38.9	39.0	38.9	38.8	38.5	38.4
145	36.8	36.9	36.7	36.7	36.8	36.6	36.5	36.3	36.2	36.2	36.2	36.2	40.3	39.9	40.1	40.0	39.9	39.6	39.6
150	38.1	38.1	38.0	37.9	37.8	37.7	37.6	37.5	37.4	37.4	37.4	37.3	41.4	41.1	41.4	41.3	41.1	40.6	41.0
155	39.6	39.6	39.4	39.4	39.3	39.2	39.2	39.0	38.8	38.9	38.8	38.8	42.9	42.5	42.8	42.7	42.5	42.0	42.4
160	41.2	41.2	41.0	40.9	40.9	40.9	40.7	40.5	40.3	40.4	40.3	40.4	44.0	43.7	44.0	43.9	43.6	43.2	43.7
165	42.7	42.6	42.3	42.3	42.2	42.2	42.1	41.9	41.7	41.7	41.7	41.8	45.1	44.9	44.8	44.9	44.6	44.3	44.5
170	44.5	44.4	44.3	44.3	44.2	44.2	43.9	43.8	43.7	43.6	43.6	43.6	45.9	45.7	45.8	45.4	45.4	45.0	45.2
175	45.8	45.8	45.7	45.7	45.5	45.4	45.2	45.1	45.0	45.1	44.9	44.9	46.3	46.0	46.2	45.9	45.7	45.4	45.6
180	46.3	46.2	46.1	46.1	45.8	45.7	45.6	45.6	45.5	45.6	45.4	45.3	46.4	46.1	46.2	46.0	45.9	45.7	45.7

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-02-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.495m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.12V I:1.2370A P:147.66W PF:0.9938 Freq:59.98Hz Lamp Flux:19085.4x1 lm		
NAME: ULHB-150W-50K-WH	TYPE:	WEIGHT:
SPEC.:150W, AC100-277V , 130lm/W, 5000K, White	DIM.:	SERIAL No.:20180205003
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	6535	6527	6519	6514	6509														
5	6530	6521	6512	6507	6501														
10	6478	6472	6462	6456	6451														
15	6380	6376	6364	6361	6356														
20	6235	6232	6221	6218	6209														
25	6049	6047	6040	6031	6021														
30	5809	5805	5793	5790	5777														
35	5529	5530	5519	5513	5499														
40	5192	5203	5196	5191	5173														
45	4760	4778	4762	4762	4748														
50	4280	4265	4255	4262	4245														
55	3718	3713	3693	3700	3672														
60	2957	2975	2944	2956	2910														
65	2267	2265	2250	2254	2234														
70	1575	1590	1555	1555	1535														
75	884	891	872	864	859														
80	347	352	341	341	331														
85	62.8	66.3	62.6	63.5	61.3														
90	28.9	28.9	28.8	28.8	28.8														
95	29.3	29.3	29.3	29.3	29.2														
100	30.0	30.0	30.0	30.0	30.0														
105	31.0	30.9	30.9	30.9	30.9														
110	32.0	32.0	31.9	31.9	31.9														
115	33.1	33.1	33.0	33.1	33.1														
120	34.2	34.2	34.2	34.3	34.2														
125	35.2	35.3	35.3	35.4	35.3														
130	36.3	36.4	36.3	36.4	36.3														
135	37.4	37.5	37.5	37.5	37.4														
140	38.5	38.6	38.5	38.6	38.5														
145	39.6	39.7	39.6	39.7	39.6														
150	40.7	41.0	41.0	41.0	40.8														
155	42.2	42.4	42.4	42.3	42.1														
160	43.3	43.6	43.6	43.4	43.0														
165	44.4	44.7	44.6	44.3	44.1														
170	45.2	45.5	45.4	45.0	44.9														
175	45.5	45.7	45.5	45.4	45.2														
180	45.5	45.6	45.6	45.4	45.2														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-02-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.495m [K=1.0000]
 Remarks: