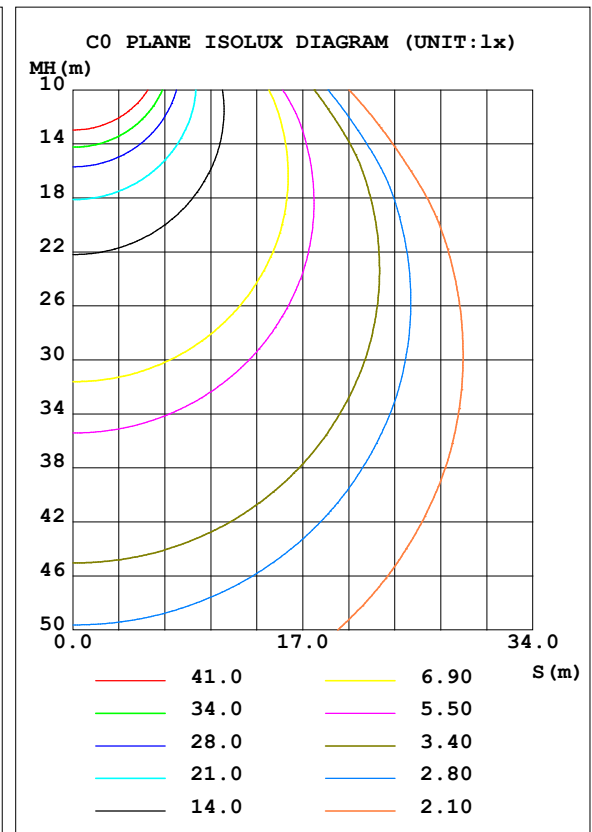
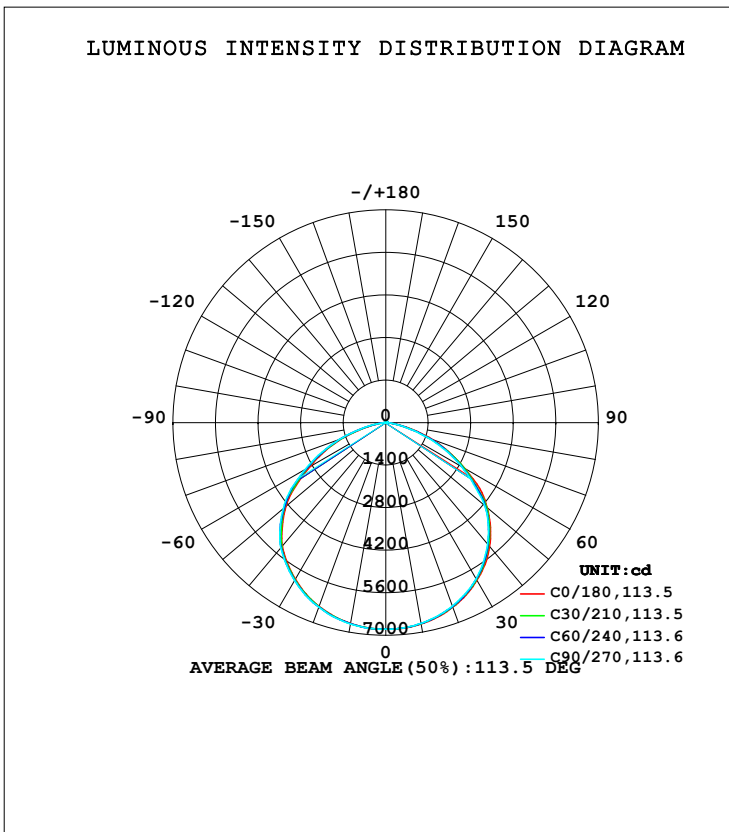


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.79V I:1.2399A P:147.64W PF:0.9940 Freq:59.98Hz Lamp Flux:19480.7x1 lm		
NAME: ULHB-150W-40K	TYPE:	WEIGHT:
SPEC.:150W, AC100-277V, 130lm/W, 4000K	DIM.:	SERIAL No.:20180525010
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 131.95 lm/W			
MODEL	ULHB-150W-40K	I _{max} (cd)	6800	S/MH (C0/180)	1.30
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.31
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	19481	η UP, DN (C0-180)	0.6, 49.0
NOMINAL FLUX (lm)	19480.7	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.6, 49.9
LAMPS INSIDE	1	η up (%)	1.2	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	120	η down (%)	98.8	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Admin
 Test Date: 2018-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity: 65.0%
 Test Distance: 7.550m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

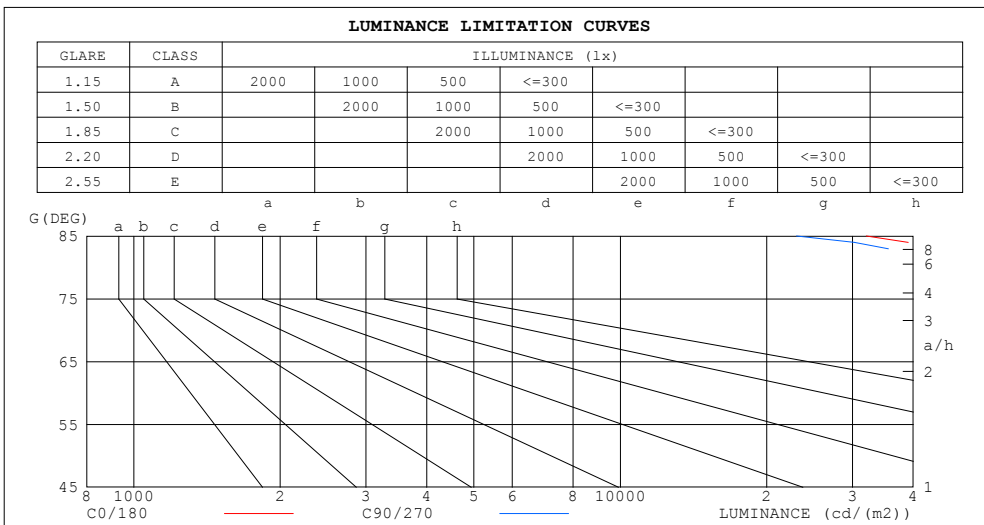
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	6724	6717	6706	6705	6708	6716	6725	6725	0- 10	645.2	645.2	3.31,3.31
20	6462	6442	6421	6421	6430	6444	6460	6465	10- 20	1866	2511	12.9,12.9
30	5995	5971	5941	5941	5953	5977	6002	6001	20- 30	2875	5386	27.6,27.6
40	5315	5258	5217	5230	5303	5338	5373	5362	30- 40	3544	8929	45.8,45.8
50	4360	4317	4259	4261	4291	4364	4407	4395	40- 50	3734	12664	65,65
60	2978	2928	2872	2862	2864	2958	3043	3016	50- 60	3268	15931	81.8,81.8
70	1642	1567	1500	1504	1535	1573	1629	1646	60- 70	2233	18164	93.2,93.2
80	382.8	354.4	324.3	316.6	320.1	352.2	393.9	396.2	70- 80	959.7	19124	98.2,98.2
90	29.54	29.54	29.51	29.51	31.02	30.91	30.87	30.76	80- 90	127.4	19251	98.8,98.8
100	30.23	30.32	30.31	30.32	32.73	32.48	32.35	32.25	90-100	33.41	19285	99,99
110	32.30	32.09	32.07	32.07	35.66	35.37	35.22	35.10	100-110	34.36	19319	99.2,99.2
120	33.99	34.23	34.05	34.22	38.78	38.45	38.25	38.18	110-120	34.69	19354	99.3,99.3
130	36.06	36.25	35.76	36.15	40.88	41.05	40.53	40.84	120-130	33.45	19387	99.5,99.5
140	37.90	37.97	37.90	38.09	42.18	42.24	41.95	42.95	130-140	30.33	19417	99.7,99.7
150	39.88	40.72	40.32	40.61	43.82	43.97	43.41	44.65	140-150	25.73	19443	99.8,99.8
160	43.51	44.00	44.46	44.07	45.55	46.57	46.75	46.49	150-160	20.11	19463	99.9,99.9
170	46.19	46.42	46.51	46.56	46.30	46.57	46.52	46.50	160-170	13.05	19476	100,100
180	46.42	46.69	46.45	46.55	46.57	46.59	46.53	46.46	170-180	4.430	19481	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:2018-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.79V I:1.2399A P:147.64W PF:0.9940 Freq:59.98Hz Lamp Flux:19480.7x1 lm		
NAME: ULHB-150W-40K	TYPE:	WEIGHT:
SPEC.:150W, AC100-277V, 130lm/W, 4000K	DIM.:	SERIAL No.:20180525010
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	32040	23025
80	71200	59337
75	115973	101043
70	155055	139367
65	174841	164381
60	192373	182457
55	212020	195699
50	219037	210521
45	222383	214499

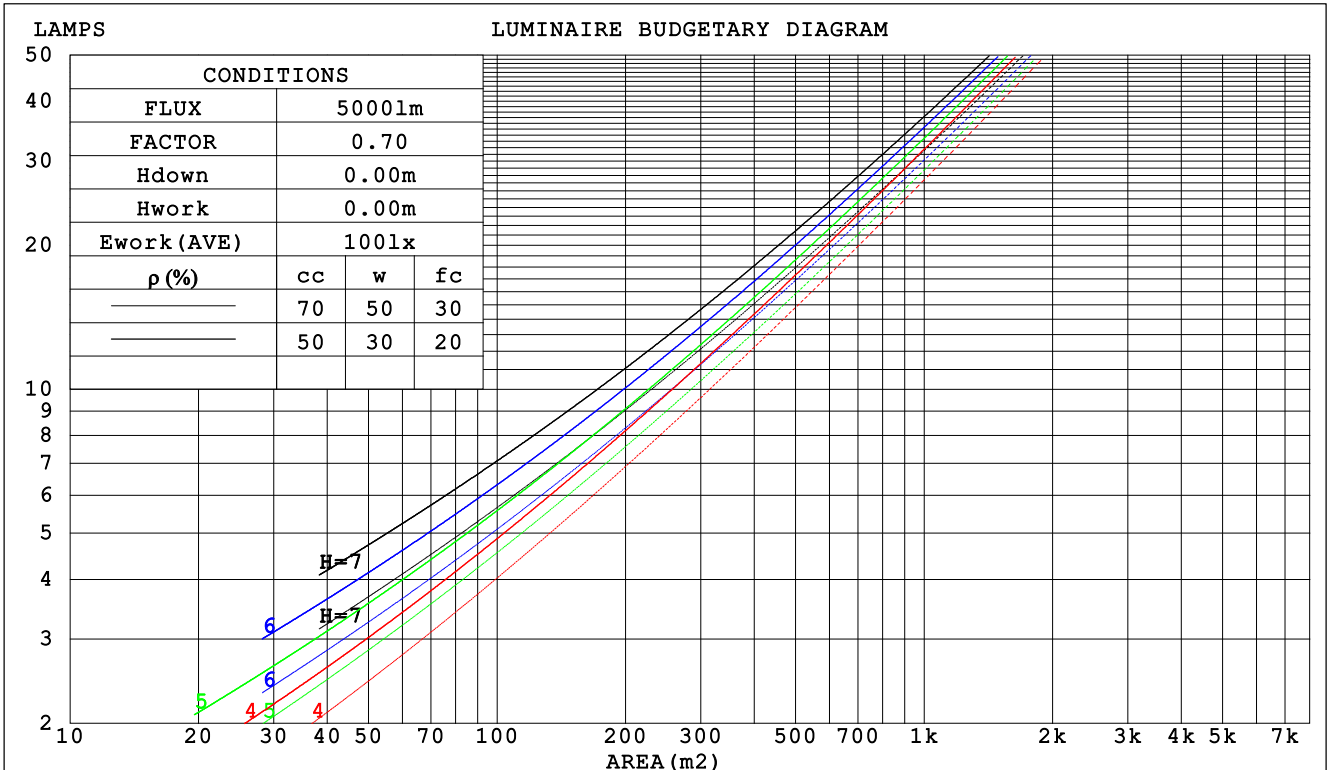
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.79V I:1.2399A P:147.64W PF:0.9940 Freq:59.98Hz Lamp Flux:19480.7x1 lm		
NAME: ULHB-150W-40K	TYPE:	WEIGHT:
SPEC.:150W, AC100-277V, 130lm/W, 4000K	DIM.:	SERIAL No.:20180525010
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						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	.86	.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	.57	.70	.62	.56	.68	.61	.55	.65	.59	.54	.63	.58	.53	.51
5.0	.64	.55	.49	.63	.54	.48	.61	.53	.48	.58	.52	.47	.56	.51	.46	.44
6.0	.58	.49	.42	.57	.48	.42	.55	.47	.42	.53	.46	.41	.51	.45	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.50	.42	.37	.48	.41	.36	.47	.41	.36	.34
8.0	.48	.39	.33	.47	.39	.33	.45	.38	.33	.44	.37	.33	.43	.37	.32	.30
9.0	.44	.35	.30	.43	.35	.30	.42	.35	.30	.41	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.27	.40	.32	.27	.38	.32	.27	.37	.31	.27	.37	.31	.26	.25



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:119.79V I:1.2399A P:147.64W PF:0.9940 Freq:59.98Hz Lamp Flux:19480.7x1 lm		
NAME: ULHB-150W-40K	TYPE:	WEIGHT:
SPEC.:150W, AC100-277V, 130lm/W, 4000K	DIM.:	SERIAL No.:20180525010
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	.286	.163	.052	.279	.159	.050	.265	.152	.049	.252	.145	.047	.240	.139	.045	
2.0	.276	.151	.046	.269	.148	.046	.257	.143	.044	.246	.138	.043	.236	.133	.042	
3.0	.259	.138	.041	.253	.136	.041	.242	.131	.040	.232	.127	.039	.223	.124	.038	
4.0	.241	.125	.037	.236	.124	.037	.227	.120	.036	.218	.117	.035	.209	.114	.035	
5.0	.225	.114	.033	.220	.113	.033	.211	.110	.032	.203	.107	.032	.196	.105	.031	
6.0	.209	.105	.030	.205	.104	.030	.198	.101	.029	.190	.099	.029	.184	.097	.029	
7.0	.195	.097	.027	.192	.096	.027	.185	.094	.027	.179	.092	.027	.173	.090	.026	
8.0	.183	.089	.025	.180	.089	.025	.174	.087	.025	.168	.085	.025	.162	.083	.024	
9.0	.172	.083	.023	.169	.082	.023	.163	.081	.023	.158	.079	.023	.153	.078	.022	
10.0	.162	.078	.022	.159	.077	.021	.154	.076	.021	.149	.074	.021	.145	.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	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.188	.165	.145	.161	.142	.125	.110	.098	.086	.063	.057	.050	.020	.018	.016	
2.0	.179	.141	.109	.154	.121	.094	.105	.084	.066	.061	.049	.039	.019	.016	.013	
3.0	.172	.123	.085	.147	.106	.074	.101	.074	.052	.058	.043	.030	.019	.014	.010	
4.0	.164	.110	.069	.141	.095	.060	.097	.066	.042	.056	.039	.025	.018	.013	.008	
5.0	.157	.100	.057	.135	.086	.050	.093	.060	.035	.054	.035	.021	.017	.012	.007	
6.0	.150	.091	.049	.129	.079	.043	.089	.055	.030	.052	.033	.018	.017	.011	.006	
7.0	.143	.084	.043	.123	.073	.037	.085	.051	.027	.050	.030	.016	.016	.010	.005	
8.0	.137	.079	.038	.118	.068	.033	.082	.048	.024	.048	.028	.014	.015	.009	.005	
9.0	.131	.074	.035	.113	.064	.030	.078	.045	.022	.046	.027	.013	.015	.009	.004	
10.0	.126	.069	.032	.108	.060	.028	.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:2018-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.79V I:1.2399A P:147.64W PF:0.9940 Freq:59.98Hz Lamp Flux:19480.7x1 lm										
NAME: ULHB-150W-40K					TYPE:			WEIGHT:		
SPEC.:150W, AC100-277V , 130lm/W, 4000K					DIM.:			SERIAL No.:20180525010		
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	33.4	31.2	32.7	31.5	32.9	33.1
3H	32.6	34.0	32.9	34.2	34.5	32.3	33.7	32.6	33.9	34.2
4H	32.9	34.2	33.3	34.5	34.8	32.6	33.9	32.9	34.1	34.4
6H	33.0	34.3	33.4	34.5	34.8	32.6	33.9	33.0	34.1	34.4
8H	33.0	34.2	33.4	34.5	34.8	32.6	33.8	33.0	34.1	34.4
12H	33.0	34.1	33.4	34.4	34.7	32.6	33.7	32.9	34.0	34.3
4H 2H	31.9	33.2	32.2	33.5	33.7	31.7	33.0	32.0	33.3	33.6
3H	33.2	34.4	33.6	34.7	35.0	33.0	34.1	33.3	34.4	34.7
4H	33.6	34.7	34.0	35.0	35.3	33.3	34.3	33.7	34.7	35.0
6H	33.8	34.7	34.2	35.1	35.5	33.5	34.3	33.9	34.7	35.1
8H	33.8	34.6	34.2	35.0	35.4	33.4	34.3	33.9	34.7	35.1
12H	33.8	34.5	34.2	34.9	35.4	33.4	34.2	33.9	34.6	35.0
8H 4H	33.7	34.6	34.1	34.9	35.3	33.4	34.3	33.9	34.6	35.1
6H	33.9	34.6	34.4	35.0	35.5	33.6	34.3	34.1	34.7	35.2
8H	34.0	34.6	34.4	35.0	35.5	33.6	34.2	34.1	34.7	35.1
12H	34.0	34.5	34.4	34.9	35.4	33.6	34.1	34.1	34.6	35.1
12H 4H	33.7	34.4	34.1	34.9	35.3	33.4	34.2	33.8	34.6	35.0
6H	33.9	34.5	34.4	35.0	35.4	33.6	34.2	34.1	34.6	35.1
8H	34.0	34.5	34.4	34.9	35.4	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	+ 0.2 / - 0.5					+ 0.2 / - 0.5				
2.0H	+ 0.5 / - 0.4					+ 0.5 / - 0.4				

CIE Pub.117, 19481 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 10.3)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.79V I:1.2399A P:147.64W PF:0.9940 Freq:59.98Hz Lamp Flux:19480.7x1 lm		
NAME: ULHB-150W-40K	TYPE:	WEIGHT:
SPEC.:150W, AC100-277V , 130lm/W, 4000K	DIM.:	SERIAL No.:20180525010
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:

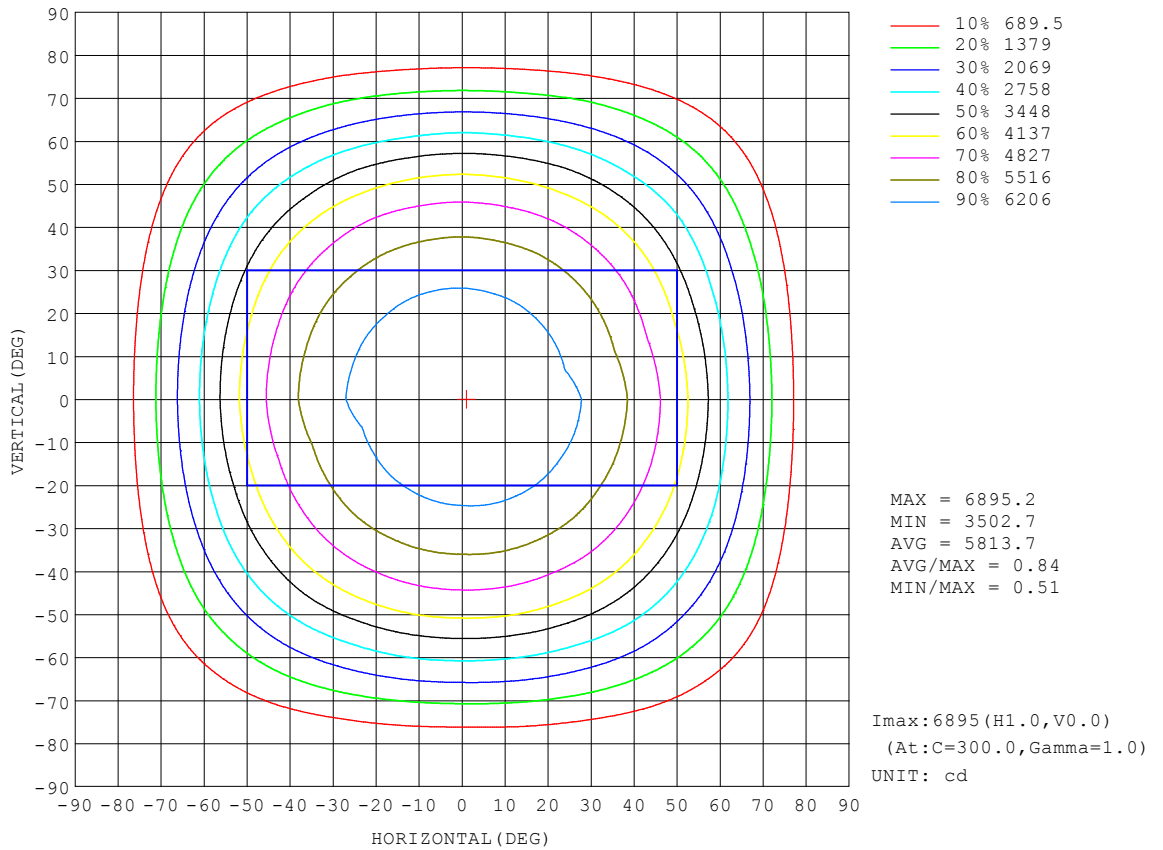
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	39	57	46	39	56	46	39	33
0.80	68	57	50	67	56	49	65	55	49	42
1.00	77	66	59	76	66	59	73	67	58	51
1.25	84	74	67	83	73	67	80	72	66	59
1.50	89	80	73	87	79	72	84	77	71	64
2.00	96	88	82	94	87	81	91	84	79	72
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:2018-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:119.79V I:1.2399A P:147.64W PF:0.9940 Freq:59.98Hz Lamp Flux:19480.7x1 lm		
NAME: ULHB-150W-40K	TYPE:	WEIGHT:
SPEC.:150W, AC100-277V, 130lm/W, 4000K	DIM.:	SERIAL No.:20180525010
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:

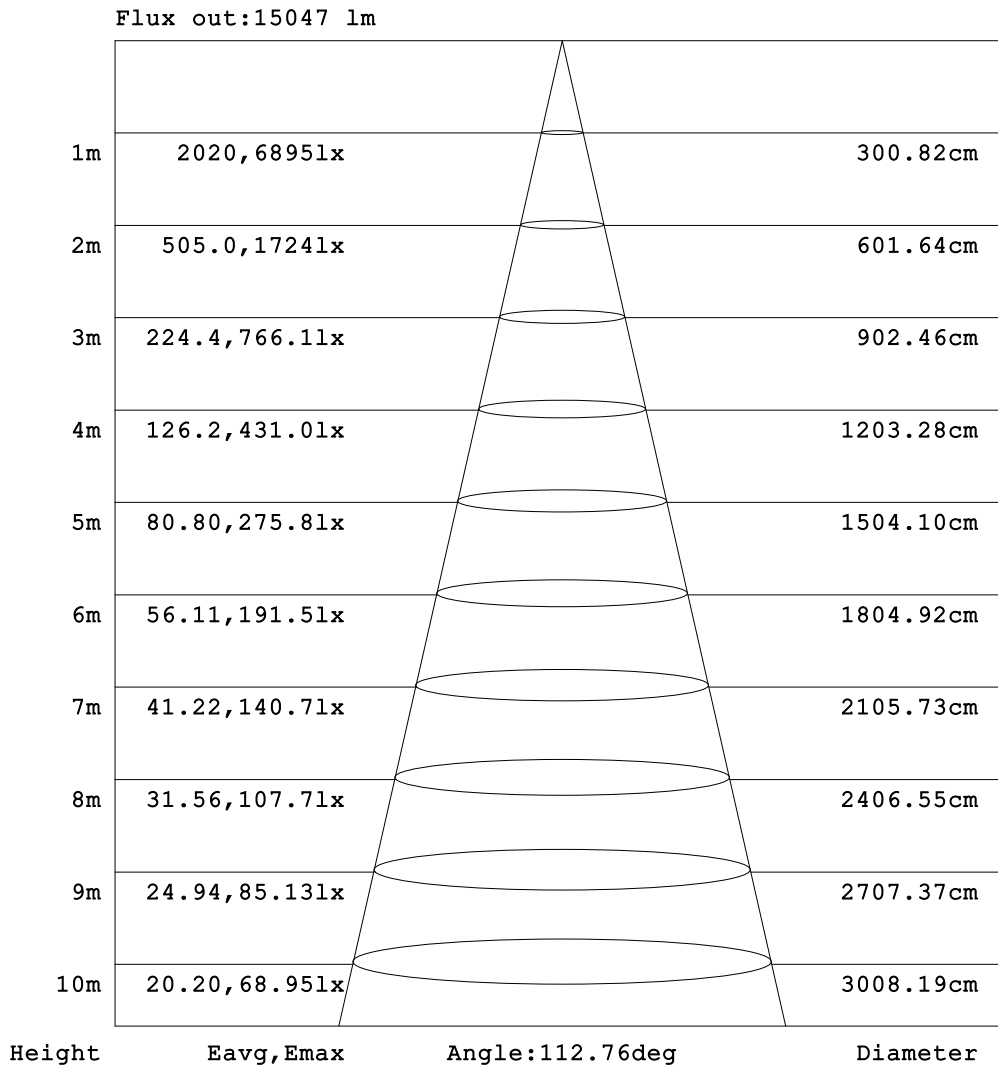


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks:

AAI Figure

Test:U:119.79V I:1.2399A P:147.64W PF:0.9940 Freq:59.98Hz Lamp Flux:19480.7x1 lm		
NAME: ULHB-150W-40K	TYPE:	WEIGHT:
SPEC.:150W, AC100-277V, 130lm/W, 4000K	DIM.:	SERIAL No.:20180525010
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:



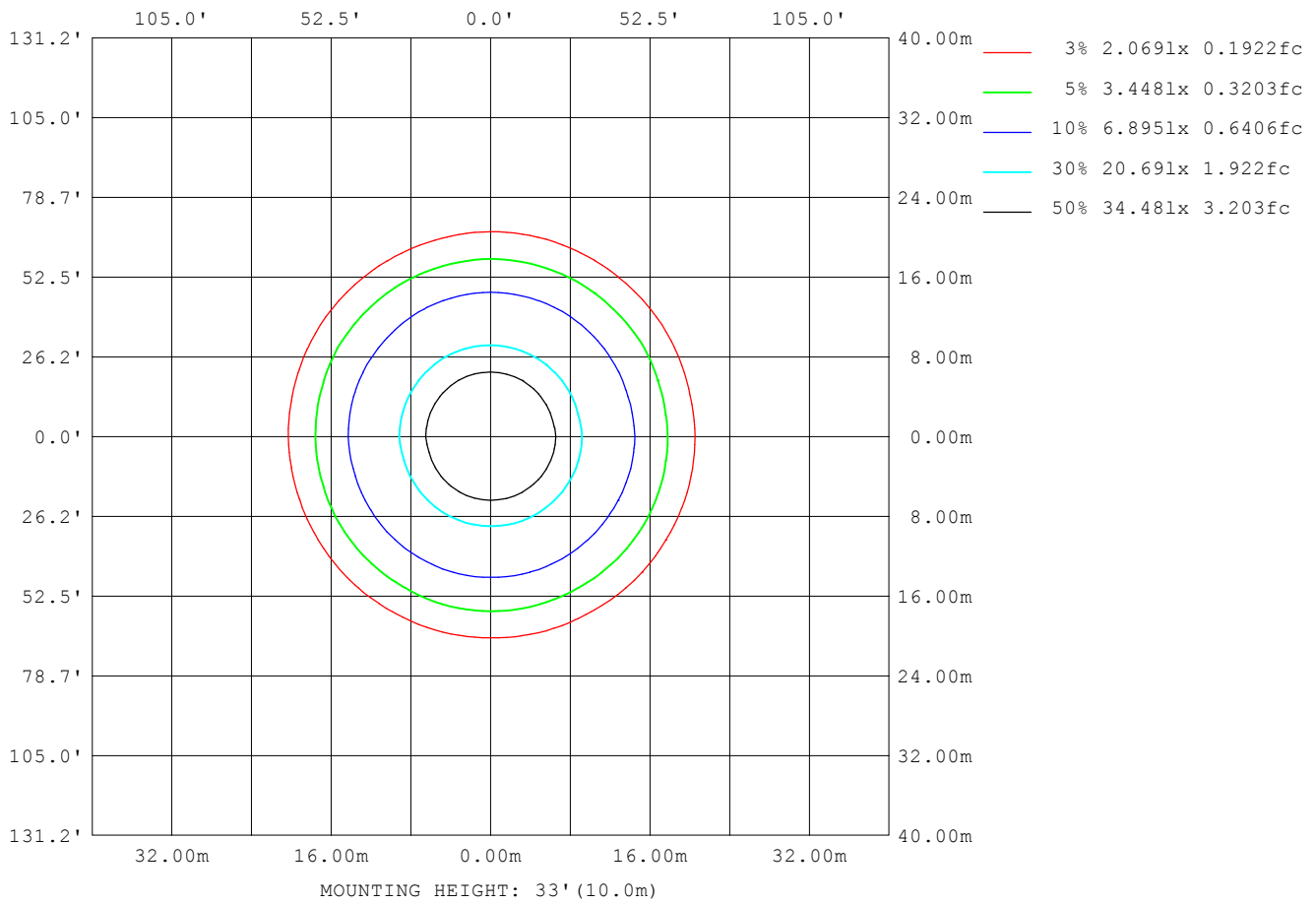
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:119.79V I:1.2399A P:147.64W PF:0.9940 Freq:59.98Hz Lamp Flux:19480.7x1 lm		
NAME: ULHB-150W-40K	TYPE:	WEIGHT:
SPEC.:150W, AC100-277V, 130lm/W, 4000K	DIM.:	SERIAL No.:20180525010
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:2018-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:119.79V I:1.2399A P:147.64W PF:0.9940 Freq:59.98Hz Lamp Flux:19480.7x1 lm		
NAME: ULHB-150W-40K	TYPE:	WEIGHT:
SPEC.:150W, AC100-277V, 130lm/W, 4000K	DIM.:	SERIAL No.:20180525010
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:

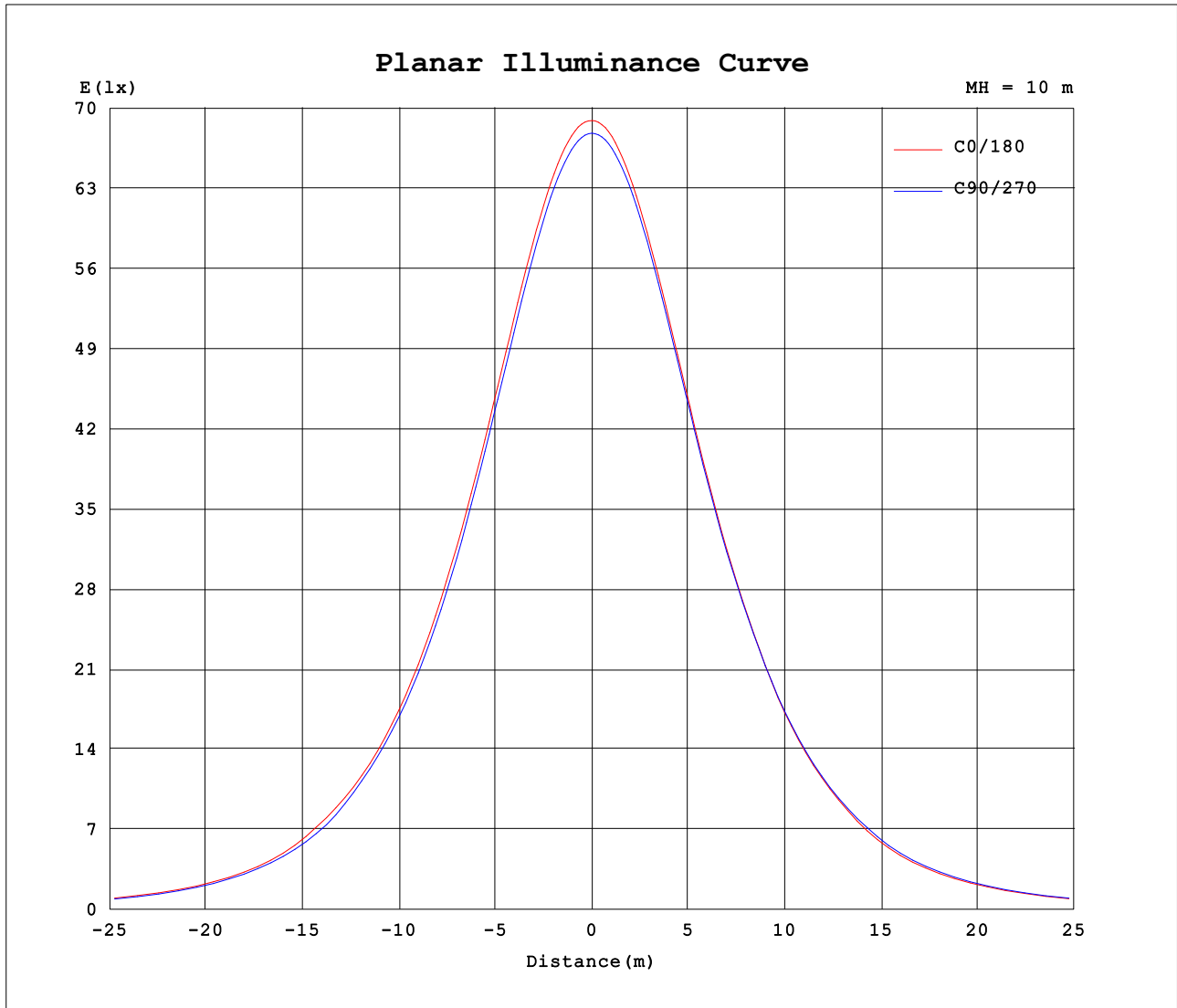
AvgL	cd/m2
L_0~180 (65) av	169138
L_0~180 (75) av	108711
L_0~180 (85) av	27944
L_90~270 (65) av	170164
L_90~270 (75) av	108244
L_90~270 (85) av	26828
L_45 (65) av	170905
L_45 (75) av	109040
L_45 (85) av	27007

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.550m [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: 2018-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity: 65.0%
 Test Distance: 7.550m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.79V I:1.2399A P:147.64W PF:0.9940 Freq:59.98Hz Lamp Flux:19480.7x1 lm		
NAME: ULHB-150W-40K	TYPE:	WEIGHT:
SPEC.:150W, AC100-277V, 130lm/W, 4000K	DIM.:	SERIAL No.:20180525010
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	6800	6800	6800	6800	6800	6800	6800	6800	6800	6800	6800	6800	6800	6800	6800	6800	6800	6800	6800
5	6786	6785	6781	6779	6777	6776	6775	6776	6776	6775	6776	6778	6779	6779	6781	6783	6784	6782	6785
10	6724	6722	6717	6717	6712	6709	6706	6707	6706	6705	6704	6708	6708	6709	6713	6716	6719	6721	6725
15	6620	6615	6603	6602	6599	6595	6589	6592	6589	6591	6589	6594	6596	6594	6600	6605	6616	6617	6618
20	6462	6460	6445	6442	6435	6430	6421	6423	6417	6421	6420	6426	6430	6432	6442	6444	6455	6456	6460
25	6257	6251	6233	6233	6223	6216	6206	6208	6202	6208	6206	6217	6225	6220	6231	6236	6252	6255	6261
30	5995	5992	5975	5971	5955	5953	5941	5943	5938	5941	5939	5948	5953	5956	5972	5977	5994	5995	6002
35	5694	5681	5650	5646	5628	5621	5605	5610	5612	5629	5632	5647	5650	5656	5672	5678	5696	5695	5705
40	5315	5298	5264	5258	5235	5228	5217	5220	5214	5230	5239	5270	5303	5307	5326	5338	5359	5362	5373
45	4869	4864	4834	4818	4785	4787	4774	4775	4768	4778	4788	4818	4815	4827	4859	4875	4925	4913	4921
50	4360	4362	4332	4317	4282	4281	4259	4267	4252	4261	4274	4300	4291	4292	4348	4364	4363	4384	4407
55	3766	3708	3628	3617	3577	3559	3533	3538	3526	3560	3545	3575	3603	3639	3675	3694	3761	3778	3807
60	2978	2972	2971	2928	2882	2873	2872	2873	2839	2862	2883	2888	2864	2889	2964	2958	2997	2991	3043
65	2288	2300	2266	2263	2219	2213	2187	2189	2181	2195	2188	2201	2201	2216	2254	2274	2282	2304	2330
70	1642	1608	1576	1567	1560	1531	1500	1503	1507	1504	1492	1520	1535	1537	1555	1573	1614	1611	1629
75	929	920	880	880	858	851	823	832	820	834	823	842	838	846	868	886	918	919	936
80	383	378	362	354	344	340	324	325	316	317	313	320	320	326	347	352	376	380	394
85	86.5	83.3	76.2	74.2	71.0	68.4	63.2	63.7	63.0	63.6	61.6	65.2	66.5	68.3	71.7	73.5	80.8	79.6	83.7
90	29.5	29.6	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	31.0	31.0	31.0	30.9	30.9	30.9	30.9
95	29.6	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	31.6	31.5	31.5	31.4	31.4	31.4	31.4
100	30.2	30.3	30.2	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.2	30.3	32.7	32.6	32.6	32.5	32.5	32.4	32.3
105	31.2	31.1	31.1	31.2	31.1	31.2	31.1	31.1	31.1	31.1	31.1	31.1	31.2	34.2	34.0	34.0	33.9	33.8	33.7
110	32.3	32.1	32.1	32.1	32.1	32.1	32.1	32.0	32.0	32.1	32.2	32.3	35.7	35.5	35.5	35.4	35.3	35.2	35.2
115	33.3	33.0	33.3	33.2	33.1	33.1	33.0	32.9	33.0	33.1	33.3	33.5	37.2	37.0	37.0	36.8	36.8	36.6	36.7
120	34.0	33.8	34.4	34.2	34.1	34.2	34.0	33.7	33.8	34.2	34.5	34.4	38.8	38.6	38.5	38.5	38.3	37.9	38.3
125	34.7	34.8	35.4	35.3	35.0	35.1	34.9	34.6	34.6	35.2	35.4	35.1	39.9	39.9	39.9	39.9	39.4	38.8	39.6
130	36.1	35.9	36.0	36.2	35.9	36.0	35.8	35.5	35.3	36.2	36.2	36.2	40.9	40.8	41.0	41.1	40.1	39.5	40.5
135	37.1	37.0	36.6	37.1	36.9	37.0	36.8	36.2	36.4	37.0	37.1	37.3	41.7	41.5	41.9	41.9	41.1	40.1	41.3
140	37.9	37.9	37.8	38.0	38.2	38.3	37.9	37.2	37.8	38.1	38.3	38.2	42.2	42.2	42.6	42.2	41.9	40.6	41.9
145	38.6	38.7	39.1	39.4	39.2	39.2	39.1	38.7	39.0	39.4	39.5	39.1	42.9	42.8	43.1	42.8	42.7	41.5	42.5
150	39.9	40.0	40.3	40.7	40.6	40.4	40.3	40.3	40.2	40.6	40.5	40.3	43.8	43.7	43.8	44.0	43.5	42.6	43.4
155	41.5	41.7	42.0	42.2	42.2	42.2	42.2	42.0	42.2	42.2	42.0	41.9	44.6	44.9	45.0	45.4	44.9	44.2	45.1
160	43.5	44.1	43.9	44.0	44.3	44.4	44.5	44.4	44.0	44.1	43.9	43.8	45.5	46.1	46.0	46.6	46.2	45.4	46.8
165	45.4	45.6	45.3	45.7	45.9	46.0	46.0	45.7	45.5	45.8	45.5	45.5	46.5	47.0	46.8	47.2	46.9	46.5	47.3
170	46.2	46.3	46.3	46.4	46.5	46.7	46.5	46.3	46.5	46.6	46.2	46.3	46.3	46.4	46.4	46.6	46.5	46.0	46.5
175	46.7	47.1	47.0	47.1	47.2	47.2	47.0	47.2	47.0	47.0	46.7	46.7	46.1	46.0	46.2	46.1	46.1	45.8	46.0
180	46.4	46.6	46.5	46.7	46.5	46.5	46.5	46.4	46.4	46.5	46.3	46.2	46.6	46.4	46.6	46.6	46.6	46.5	46.5

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.79V I:1.2399A P:147.64W PF:0.9940 Freq:59.98Hz Lamp Flux:19480.7x1 lm		
NAME: ULHB-150W-40K	TYPE:	WEIGHT:
SPEC.:150W, AC100-277V , 130lm/W, 4000K	DIM.:	SERIAL No.:20180525010
MFR.: WESTGATE MFG INC	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	6800	6800	6800	6800	6800														
5	6784	6787	6785	6786	6784														
10	6725	6728	6725	6727	6724														
15	6615	6620	6618	6620	6617														
20	6462	6467	6465	6464	6458														
25	6260	6266	6260	6260	6254														
30	5997	6008	6001	6004	5997														
35	5705	5716	5707	5705	5695														
40	5362	5377	5362	5364	5339														
45	4915	4920	4899	4895	4860														
50	4395	4392	4395	4396	4368														
55	3800	3805	3789	3783	3754														
60	3021	3045	3016	3047	2989														
65	2338	2333	2340	2343	2313														
70	1628	1658	1646	1644	1624														
75	934	953	944	945	926														
80	391	401	396	399	380														
85	83.4	88.3	84.4	86.2	81.4														
90	30.8	30.8	30.8	30.8	30.7														
95	31.3	31.3	31.2	31.2	31.2														
100	32.3	32.3	32.3	32.3	32.3														
105	33.7	33.7	33.6	33.6	33.7														
110	35.2	35.1	35.1	35.1	35.1														
115	36.6	36.6	36.6	36.6	36.6														
120	38.2	38.2	38.2	38.2	38.1														
125	39.7	39.7	39.6	39.7	39.4														
130	40.8	40.9	40.8	40.8	40.4														
135	41.7	42.0	42.0	41.9	41.0														
140	42.5	43.0	43.0	42.5	41.5														
145	43.4	43.7	43.7	43.2	42.0														
150	44.1	44.7	44.7	44.0	42.9														
155	45.2	45.7	45.8	45.3	43.9														
160	46.5	46.8	46.5	46.1	45.2														
165	47.5	47.6	47.0	46.5	46.1														
170	46.8	47.0	46.5	46.3	46.0														
175	46.0	46.3	46.0	45.8	45.7														
180	46.4	46.5	46.5	46.3	46.2														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks: