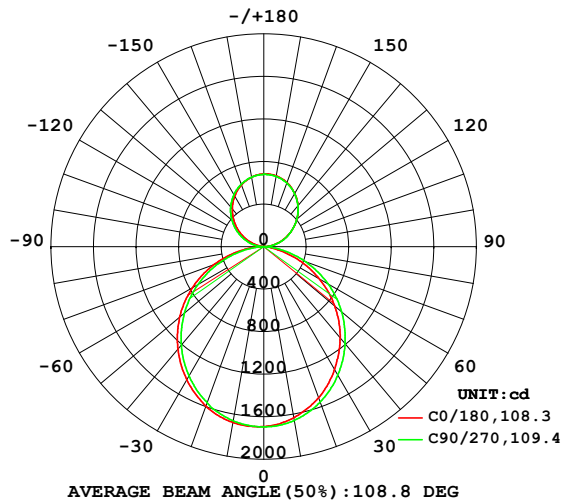


LUMINAIRE PHOTOMETRIC TEST REPORT

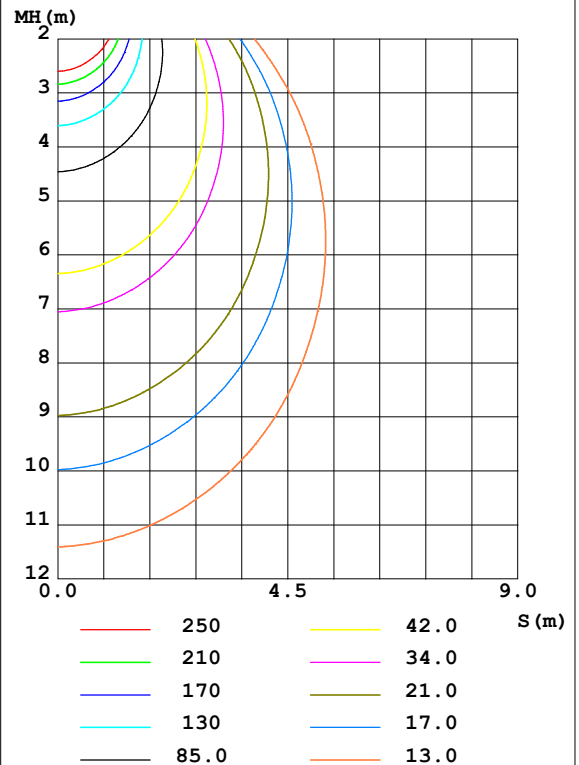
Test:U:120.8V I:0.4300A P:51.90W PF:0.9900 Freq:60.00Hz Lamp Flux:6528.15x1 lm		
NAME: WL-21LSUD4FT50WB2D1HV-40K-3.7-WH	TYPE:40K 3.7	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:1.13*0.05	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 125.78 lm/W			
MODEL		Imax(cd)	1696	S/MH(C0/180)	1.18
NOMINAL POWER(W)	50W	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	120.0	TOTAL FLUX(lm)	6528.2	η UP,DN(C0-180)	14.7,35.3
NOMINAL FLUX(lm)	6528.15	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	14.5,35.4
LAMPS INSIDE	1	η up (%)	29.2	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120.0	η down (%)	70.8	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

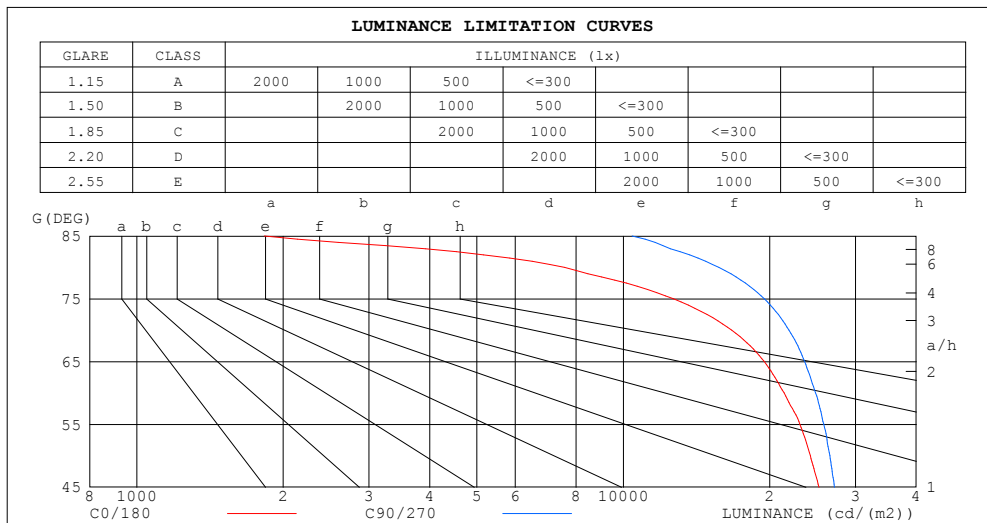
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1633	1643	1658	1678	1679	1675	1662	1640	0- 10	160.0	160.0	2.45,2.45
20	1511	1522	1554	1593	1596	1589	1560	1521	10- 20	455.6	615.6	9.43,9.43
30	1332	1354	1395	1443	1447	1442	1406	1351	20- 30	682.7	1298	19.9,19.9
40	1119	1145	1191	1252	1256	1250	1207	1139	30- 40	813.1	2111	32.3,32.3
50	872.1	906.6	956.6	1027	1033	1024	974.9	898.4	40- 50	834.2	2946	45.1,45.1
60	599.1	644.7	695.9	776.2	776.3	771.1	717.7	628.4	50- 60	746.0	3692	56.5,56.5
70	320.1	365.6	419.8	500.9	500.1	490.0	441.4	345.9	60- 70	557.3	4249	65.1,65.1
80	73.63	102.0	152.9	222.0	219.6	209.6	168.2	87.84	70- 80	300.9	4550	69.7,69.7
90	7.289	6.894	2.399	17.32	14.14	13.47	1.839	7.971	80- 90	69.15	4619	70.8,70.8
100	84.21	88.65	94.54	60.90	33.92	62.20	86.75	93.81	90-100	36.55	4655	71.3,71.3
110	194.7	194.1	201.8	167.0	143.1	168.0	186.0	198.9	100-110	135.3	4791	73.4,73.4
120	304.6	302.8	304.5	275.7	255.6	276.0	288.5	306.7	110-120	233.3	5024	77,77
130	408.8	406.3	407.9	381.7	363.2	379.5	392.7	408.8	120-130	306.0	5330	81.6,81.6
140	502.2	499.6	501.2	478.3	462.5	474.0	486.0	499.9	130-140	341.1	5671	86.9,86.9
150	581.1	577.8	579.1	561.6	549.2	555.4	563.7	577.0	140-150	331.5	6003	91.9,91.9
160	641.7	636.0	637.6	625.2	618.4	619.8	625.1	635.7	150-160	277.2	6280	96.2,96.2
170	676.6	670.7	671.3	666.2	664.7	662.1	664.3	671.6	160-170	184.0	6464	99,99
180	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9	170-180	64.42	6528	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
 Humidity:65.0%
 Test Distance:10.000m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.8V I:0.4300A P:51.90W PF:0.9900 Freq:60.00Hz Lamp Flux:6528.15x1 lm		
NAME: WL-21LSUD4FT50WB2D1HV-40K-3.7-WH	TYPE:40K 3.7	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:1.13*0.05	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1827	10433
80	7572	15719
75	12678	19493
70	16711	21919
65	19477	23592
60	21396	24855
55	23074	25832
50	24229	26574
45	25247	27173

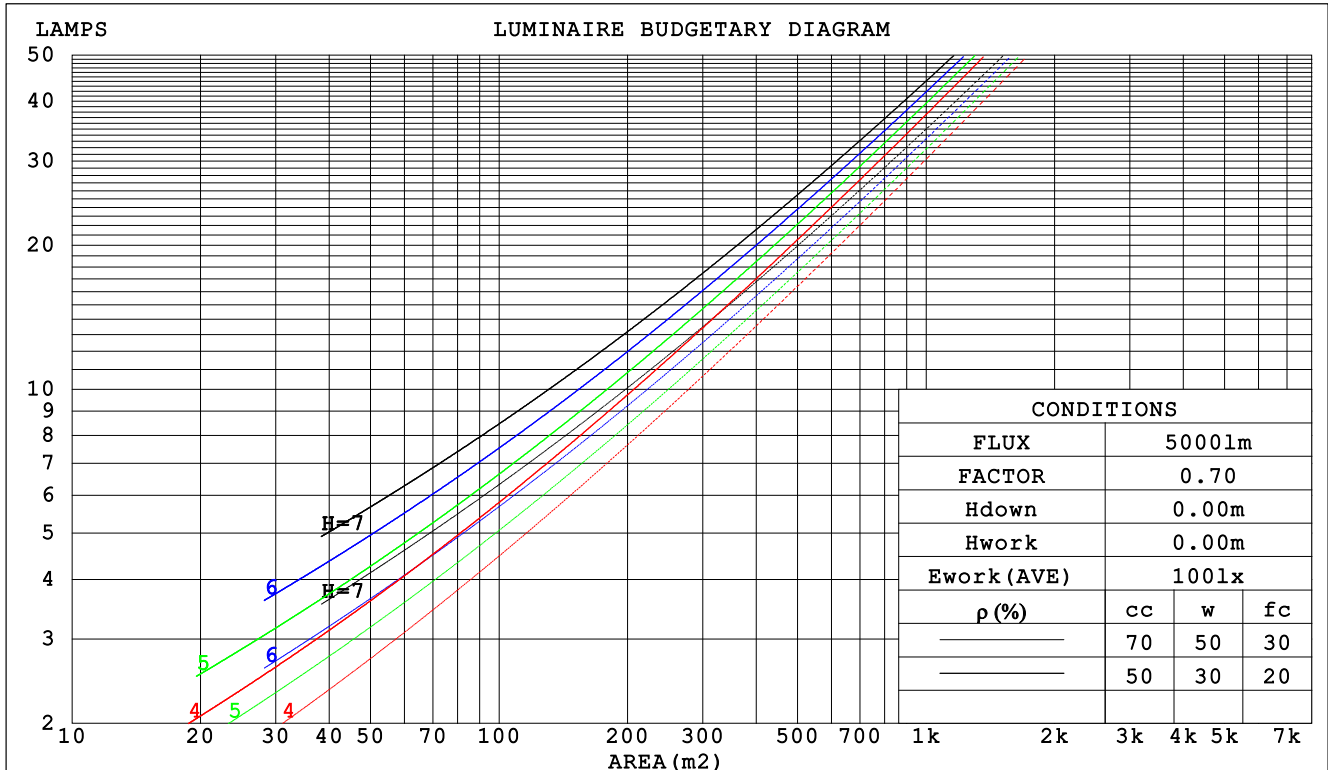
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.8V I:0.4300A P:51.90W PF:0.9900 Freq:60.00Hz Lamp Flux:6528.15x1 lm		
NAME: WL-21LSUD4FT50WB2D1HV-40K-3.7-WH	TYPE:40K 3.7	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:1.13*0.05	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	1.12	1.12	1.12	1.06	1.06	1.06	.95	.95	.95	.85	.85	.85	.75	.75	.75	.71
1.0	.98	.94	.90	.93	.89	.86	.83	.81	.78	.75	.72	.71	.66	.65	.64	.60
2.0	.85	.79	.74	.81	.75	.71	.73	.68	.65	.65	.62	.59	.58	.56	.53	.50
3.0	.75	.67	.61	.71	.64	.59	.64	.59	.54	.58	.53	.50	.52	.48	.45	.42
4.0	.66	.58	.52	.63	.56	.50	.57	.51	.46	.51	.46	.42	.46	.42	.39	.36
5.0	.59	.51	.44	.56	.49	.43	.51	.45	.40	.46	.41	.37	.41	.37	.34	.31
6.0	.53	.45	.39	.51	.43	.37	.46	.40	.35	.42	.36	.32	.38	.33	.30	.27
7.0	.48	.40	.34	.46	.38	.33	.42	.35	.31	.38	.33	.29	.34	.30	.26	.24
8.0	.44	.36	.30	.42	.34	.29	.38	.32	.27	.35	.29	.25	.31	.27	.24	.21
9.0	.40	.32	.27	.38	.31	.26	.35	.29	.25	.32	.27	.23	.29	.25	.21	.19
10.0	.37	.29	.24	.35	.28	.24	.32	.26	.22	.30	.24	.21	.27	.23	.19	.17



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.8V I:0.4300A P:51.90W PF:0.9900 Freq:60.00Hz Lamp Flux:6528.15x1 lm		
NAME: WL-21LSUD4FT50WB2D1HV-40K-3.7-WH	TYPE:40K 3.7	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:1.13*0.05	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.289	.164	.052	.273	.156	.049	.243	.140	.045	.216	.125	.040	.191	.111	.036		
2.0	.272	.149	.046	.257	.142	.044	.231	.128	.040	.206	.115	.036	.183	.103	.033		
3.0	.252	.134	.040	.239	.128	.039	.215	.116	.035	.192	.105	.032	.171	.095	.029		
4.0	.233	.121	.036	.221	.116	.034	.199	.106	.032	.178	.096	.029	.159	.086	.026		
5.0	.216	.110	.032	.205	.105	.031	.185	.096	.028	.166	.088	.026	.148	.079	.024		
6.0	.201	.101	.029	.191	.097	.028	.172	.088	.026	.155	.080	.024	.138	.073	.022		
7.0	.187	.093	.026	.178	.089	.025	.161	.081	.023	.145	.074	.022	.130	.067	.020		
8.0	.175	.086	.024	.167	.082	.023	.151	.075	.022	.136	.069	.020	.122	.063	.018		
9.0	.165	.080	.022	.157	.076	.021	.142	.070	.020	.128	.064	.018	.115	.058	.017		
10.0	.155	.074	.021	.148	.071	.020	.134	.066	.018	.121	.060	.017	.108	.055	.016		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.413	.413	.413	.353	.353	.353	.241	.241	.241	.139	.139	.139	.044	.044	.044	
1.0	.404	.381	.361	.345	.327	.310	.236	.225	.215	.136	.130	.125	.044	.042	.040	
2.0	.396	.358	.327	.339	.308	.282	.232	.213	.197	.134	.124	.115	.043	.040	.038	
3.0	.388	.342	.304	.333	.295	.264	.229	.205	.185	.132	.120	.109	.042	.039	.036	
4.0	.381	.329	.289	.327	.284	.251	.225	.198	.177	.130	.116	.105	.042	.038	.034	
5.0	.374	.319	.278	.322	.276	.242	.222	.193	.171	.128	.113	.101	.041	.037	.033	
6.0	.368	.311	.271	.316	.270	.236	.218	.189	.167	.127	.111	.099	.041	.036	.033	
7.0	.362	.305	.265	.311	.264	.231	.215	.185	.164	.125	.109	.097	.040	.036	.032	
8.0	.356	.299	.261	.306	.260	.228	.212	.182	.161	.123	.108	.096	.040	.035	.032	
9.0	.350	.295	.258	.301	.256	.225	.209	.180	.160	.122	.106	.095	.039	.035	.032	
10.0	.345	.291	.255	.297	.253	.223	.206	.178	.158	.120	.105	.094	.039	.035	.031	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.8V I:0.4300A P:51.90W PF:0.9900 Freq:60.00Hz Lamp Flux:6528.15x1 lm										
NAME: WL-21LSUD4FT50WB2D1HV-40K-3.7-WH					TYPE:40K 3.7			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: WS					SUR.:1.13*0.05			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	21.7	22.8	22.3	23.5	24.2	22.2	23.3	22.8	24.0	24.7
3H	22.8	23.8	23.5	24.5	25.3	23.6	24.6	24.2	25.2	26.0
4H	23.1	24.0	23.8	24.7	25.5	24.0	25.0	24.7	25.7	26.5
6H	23.1	24.0	23.8	24.7	25.6	24.3	25.2	25.0	25.9	26.7
8H	23.1	23.9	23.8	24.7	25.5	24.4	25.2	25.1	25.9	26.8
12H	23.0	23.8	23.7	24.6	25.4	24.3	25.2	25.1	25.9	26.8
4H 2H	22.2	23.2	22.9	23.8	24.7	22.6	23.6	23.3	24.2	25.0
3H	23.4	24.3	24.2	25.0	25.8	24.1	24.9	24.8	25.6	26.5
4H	23.8	24.5	24.5	25.3	26.2	24.6	25.4	25.4	26.1	27.0
6H	23.9	24.5	24.7	25.3	26.2	25.0	25.6	25.8	26.4	27.3
8H	23.9	24.5	24.6	25.2	26.2	25.1	25.7	25.9	26.4	27.4
12H	23.8	24.3	24.6	25.1	26.1	25.1	25.6	25.9	26.4	27.4
8H 4H	23.9	24.5	24.7	25.3	26.2	24.7	25.3	25.5	26.1	27.0
6H	24.1	24.6	24.9	25.4	26.3	25.1	25.6	25.9	26.4	27.4
8H	24.0	24.5	24.9	25.3	26.3	25.2	25.6	26.0	26.5	27.5
12H	24.0	24.4	24.8	25.2	26.2	25.2	25.6	26.1	26.5	27.5
12H 4H	23.9	24.4	24.7	25.2	26.2	24.6	25.2	25.4	26.0	26.9
6H	24.0	24.5	24.9	25.3	26.3	25.1	25.5	25.9	26.3	27.3
8H	24.0	24.4	24.9	25.2	26.3	25.2	25.5	26.0	26.4	27.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.5					+ 0.3 / - 0.4				

CIE Pub.117 Corrected 6528 lm Total Lamp Luminous Flux.(8log(F/F0) = 6.5)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.8V I:0.4300A P:51.90W PF:0.9900 Freq:60.00Hz Lamp Flux:6528.15x1 lm		
NAME: WL-21LSUD4FT50WB2D1HV-40K-3.7-WH	TYPE:40K 3.7	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:1.13*0.05	Shielding Angle:

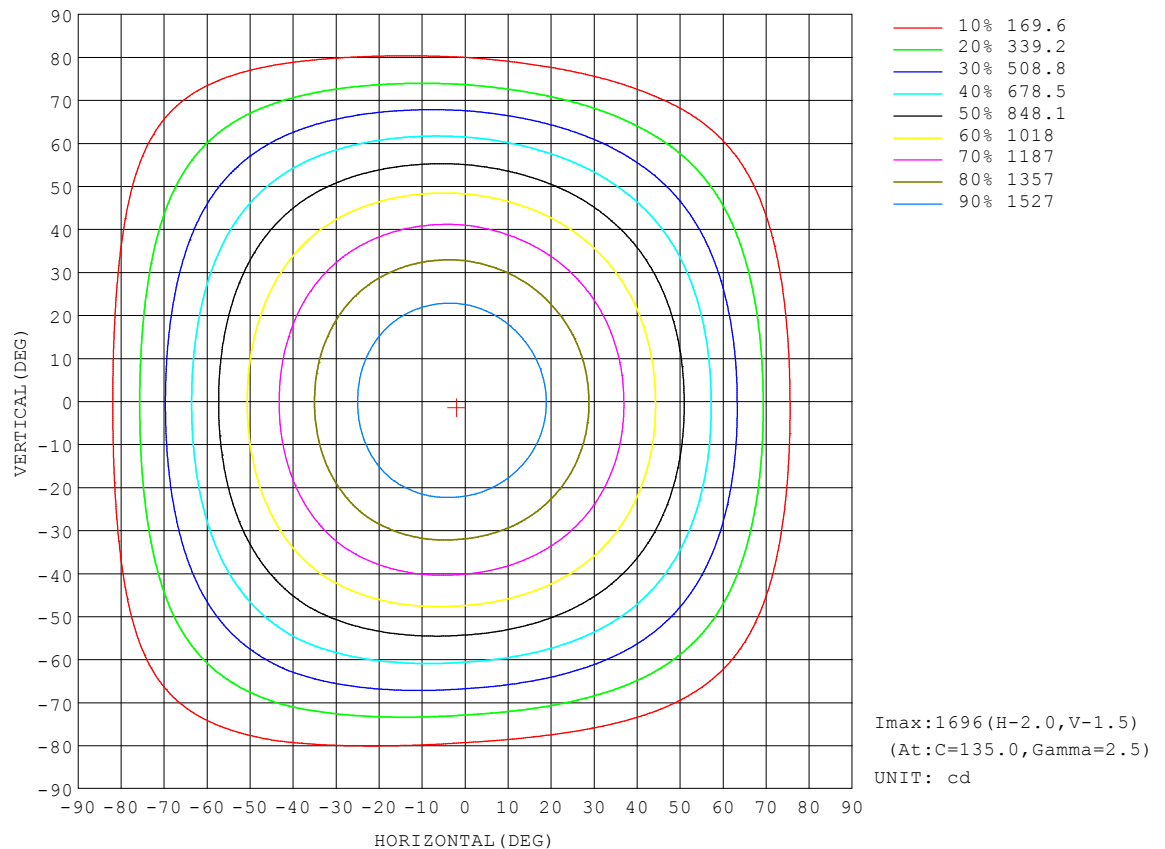
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	50	39	32	48	38	32	45	36	30	23
0.80	60	48	41	57	47	40	53	44	38	30
1.00	68	56	49	65	55	48	60	53	46	36
1.25	75	64	57	71	62	55	65	58	52	41
1.50	80	70	62	76	67	61	69	62	57	45
2.00	87	78	71	83	75	69	75	69	64	50
2.50	91	83	77	86	79	74	78	73	68	53
3.00	94	87	81	90	83	78	81	76	72	56
4.00	99	93	88	93	88	84	84	80	77	59
5.00	101	96	92	96	91	88	86	83	80	61
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: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.8V I:0.4300A P:51.90W PF:0.9900 Freq:60.00Hz Lamp Flux:6528.15x1 lm		
NAME: WL-21LSUD4FT50WB2D1HV-40K-3.7-WH	TYPE:40K 3.7	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:1.13*0.05	Shielding Angle:

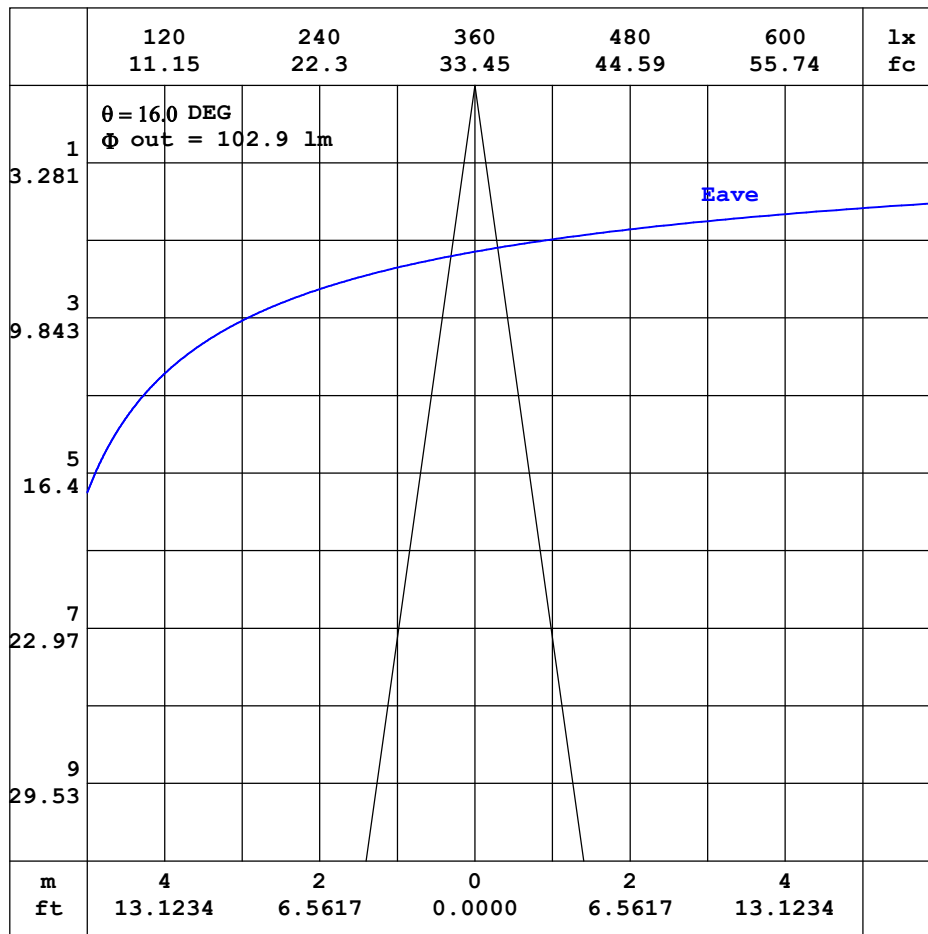


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

AAI CURVES

Test:U:120.8V I:0.4300A P:51.90W PF:0.9900 Freq:60.00Hz Lamp Flux:6528.15x1 lm		
NAME: WL-21LSUD4FT50WB2D1HV-40K-3.7-WH	TYPE:40K 3.7	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:1.13*0.05	Shielding Angle:



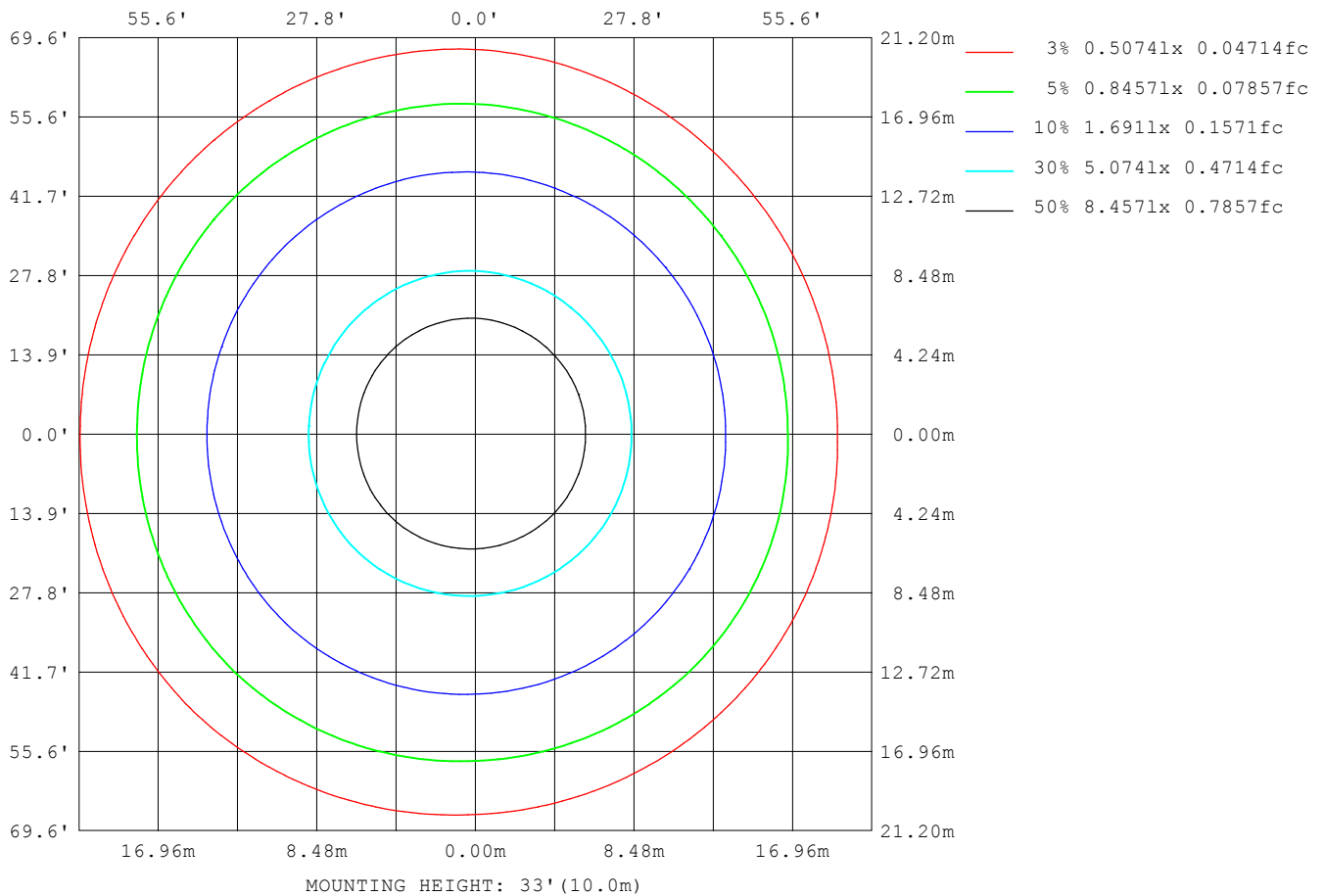
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators:
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.353
 Humidity: 65.0%
 Test Distance: 10.000m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.8V I:0.4300A P:51.90W PF:0.9900 Freq:60.00Hz Lamp Flux:6528.15x1 lm		
NAME: WL-21LSUD4FT50WB2D1HV-40K-3.7-WH	TYPE:40K 3.7	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:1.13*0.05	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.8V I:0.4300A P:51.90W PF:0.9900 Freq:60.00Hz Lamp Flux:6528.15x1 lm		
NAME: WL-21LSUD4FT50WB2D1HV-40K-3.7-WH	TYPE:40K 3.7	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:1.13*0.05	Shielding Angle:

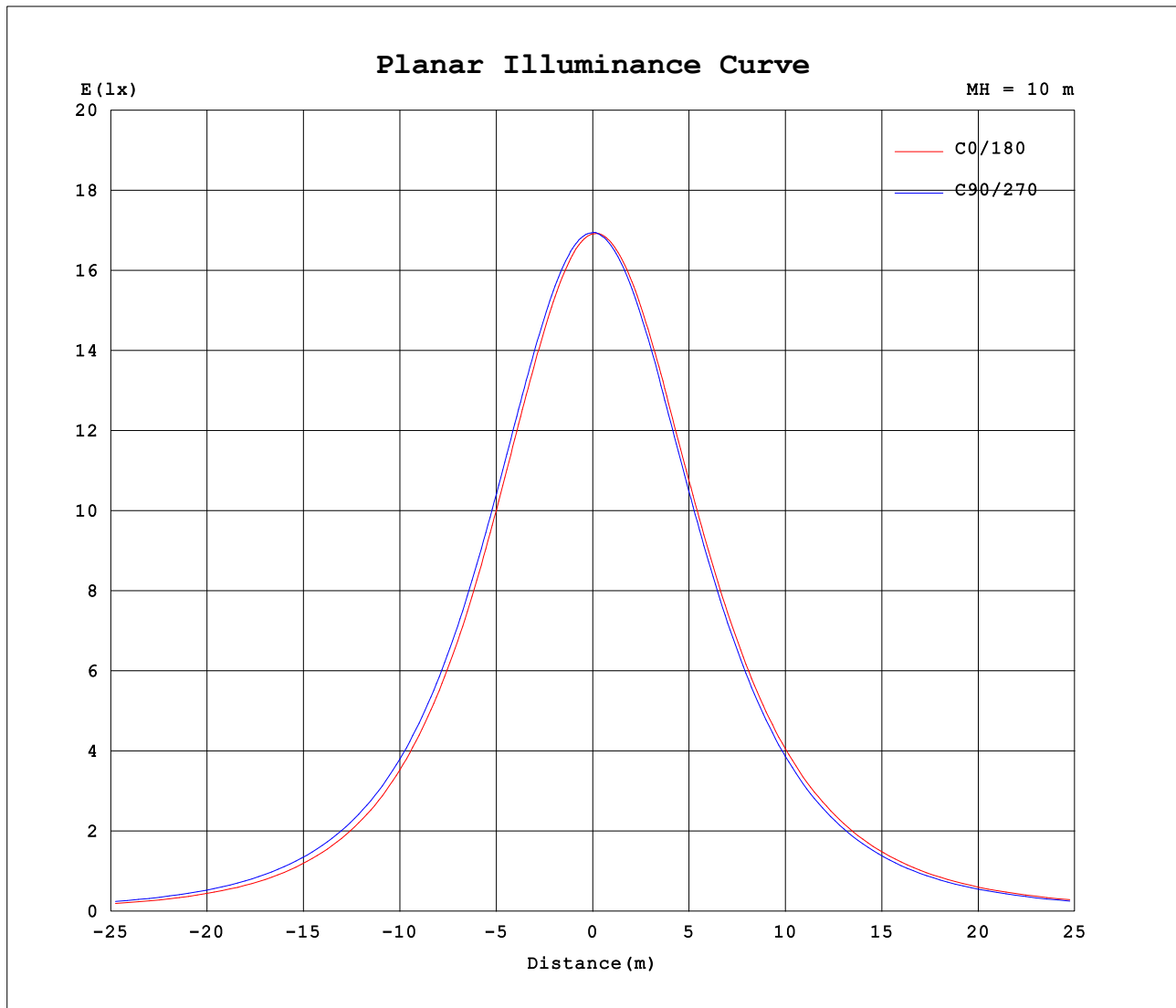
AvgL	cd/m2
L_0~180 (65) av	23260
L_0~180 (75) av	18682
L_0~180 (85) av	10630
L_90~270 (65) av	24075
L_90~270 (75) av	20164
L_90~270 (85) av	10914
L_45 (65) av	23944
L_45 (75) av	19725
L_45 (85) av	11309

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity: 65.0%
Test Distance: 10.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.8V I:0.4300A P:51.90W PF:0.9900 Freq:60.00Hz Lamp Flux:6528.15x1 lm		
NAME: WL-21LSUD4FT50WB2D1HV-40K-3.7-WH	TYPE:40K 3.7	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:1.13*0.05	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	1691	1692	1692	1693	1693	1693	1693	1694	1694	1694	1694	1694	1694	1695	1695	1695	1695	1695	1695
5	1673	1673	1674	1674	1675	1675	1676	1677	1677	1678	1679	1680	1680	1681	1682	1683	1684	1685	1686
10	1633	1634	1635	1636	1637	1638	1639	1641	1642	1643	1645	1646	1648	1650	1651	1653	1655	1657	1658
15	1577	1579	1580	1582	1584	1586	1587	1589	1591	1593	1595	1597	1600	1602	1604	1607	1609	1612	1614
20	1511	1511	1512	1512	1513	1515	1516	1518	1520	1522	1525	1528	1531	1535	1538	1542	1546	1550	1554
25	1429	1430	1430	1432	1433	1435	1436	1439	1441	1444	1447	1451	1455	1459	1463	1467	1472	1476	1481
30	1332	1334	1335	1337	1340	1342	1345	1347	1351	1354	1358	1362	1366	1370	1375	1380	1384	1389	1395
35	1228	1230	1232	1234	1237	1240	1243	1246	1249	1253	1257	1261	1266	1271	1275	1281	1286	1291	1297
40	1119	1121	1123	1125	1128	1131	1134	1137	1141	1145	1149	1153	1158	1163	1168	1174	1179	1185	1191
45	1000	1002	1005	1007	1011	1014	1017	1021	1025	1029	1033	1038	1043	1047	1053	1058	1064	1070	1076
50	872	875	878	882	886	889	893	898	902	907	911	916	921	927	932	938	944	950	957
55	741	745	748	752	756	761	765	770	774	779	784	789	794	799	805	811	817	823	830
60	599	604	609	614	619	624	629	634	639	645	650	655	660	665	671	677	683	689	696
65	461	466	470	475	480	485	490	496	501	506	511	516	522	527	533	539	545	551	558
70	320	325	329	334	339	344	349	355	360	366	371	376	382	388	393	400	406	413	420
75	184	188	193	198	203	207	213	218	223	229	234	239	245	251	256	263	269	276	283
80	73.6	75.7	78.0	80.6	83.5	86.6	90.0	93.8	97.7	102	107	112	117	122	128	134	140	146	153
85	8.92	9.36	10.0	10.9	12.0	13.4	14.9	16.7	18.7	20.9	23.4	26.1	29.0	32.1	35.5	39.0	42.8	46.7	50.9
90	7.29	7.45	7.56	7.61	7.62	7.58	7.48	7.34	7.14	6.89	6.17	5.42	4.69	4.01	3.40	2.90	2.55	2.37	2.40
95	32.8	32.6	32.6	32.7	32.8	33.1	33.5	33.9	34.5	35.2	36.9	38.6	40.2	41.8	43.2	44.4	45.2	45.7	45.8
100	84.2	84.6	85.1	85.5	86.0	86.5	87.0	87.5	88.1	88.6	90.0	91.3	92.5	93.5	94.4	94.9	95.2	95.1	94.5
105	140	140	140	140	140	140	140	141	141	141	142	143	145	146	146	147	147	147	146
110	195	194	194	194	193	193	193	194	194	194	195	197	198	199	201	201	202	202	202
115	250	249	249	249	249	249	249	249	249	249	250	251	252	253	253	254	254	253	253
120	305	304	304	304	303	303	303	303	303	303	303	304	305	305	305	306	306	305	304
125	357	356	356	356	356	356	356	356	356	356	356	357	357	357	358	358	357	357	356
130	409	408	408	408	407	407	407	407	406	406	407	407	408	408	409	409	409	408	408
135	457	457	456	456	455	455	455	455	455	455	455	456	456	457	457	458	458	457	457
140	502	502	501	501	501	500	500	500	500	500	500	501	501	502	502	502	502	502	501
145	545	544	544	543	542	542	541	541	541	541	541	541	542	542	543	543	543	543	542
150	581	580	580	579	579	579	578	578	578	578	578	579	579	579	579	580	580	579	579
155	615	614	613	612	612	611	611	610	610	610	610	610	611	611	611	611	611	611	611
160	642	641	640	639	638	638	637	637	636	636	636	636	637	637	637	638	638	638	638
165	662	661	660	659	659	658	657	657	657	656	656	656	657	657	657	657	657	657	657
170	677	676	675	674	673	673	672	671	671	671	671	671	671	671	671	671	671	671	671
175	684	683	682	682	681	680	680	679	679	678	678	678	678	678	678	678	678	679	679
180	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.8V I:0.4300A P:51.90W PF:0.9900 Freq:60.00Hz Lamp Flux:6528.15x1 lm		
NAME: WL-21LSUD4FT50WB2D1HV-40K-3.7-WH	TYPE:40K 3.7	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:1.13*0.05	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	1694	1694	1694	1694	1693	1693	1693	1693	1692	1692	1692	1692	1692	1692	1691	1691	1691	1691	1692
5	1687	1688	1689	1690	1691	1692	1692	1693	1694	1694	1694	1694	1694	1694	1694	1694	1694	1694	1694
10	1661	1663	1665	1668	1670	1672	1674	1676	1678	1678	1679	1679	1680	1680	1680	1679	1679	1679	1679
15	1618	1621	1625	1628	1631	1634	1637	1640	1643	1644	1645	1646	1647	1647	1647	1647	1647	1646	1646
20	1559	1564	1568	1573	1578	1582	1586	1590	1593	1595	1596	1597	1597	1598	1598	1597	1597	1596	1596
25	1486	1491	1496	1501	1506	1511	1515	1519	1522	1524	1525	1526	1527	1527	1527	1527	1527	1526	1526
30	1401	1407	1412	1418	1424	1429	1434	1439	1443	1445	1447	1448	1449	1449	1449	1448	1448	1447	1448
35	1303	1310	1317	1324	1330	1336	1342	1348	1352	1355	1356	1358	1358	1359	1359	1358	1358	1357	1357
40	1198	1206	1213	1221	1228	1235	1241	1247	1252	1255	1256	1258	1258	1259	1258	1258	1257	1256	1257
45	1084	1092	1100	1108	1116	1124	1131	1137	1143	1146	1148	1150	1150	1151	1151	1150	1149	1148	1149
50	965	973	982	990	998	1006	1014	1021	1027	1030	1032	1034	1035	1035	1035	1035	1034	1033	1033
55	839	848	857	866	874	883	891	898	904	907	909	911	911	911	911	910	909	908	908
60	705	715	725	735	744	753	761	769	776	779	780	781	782	781	781	779	778	776	777
65	568	578	588	598	608	617	626	634	641	644	645	646	646	646	645	644	642	640	640
70	429	439	449	459	469	478	486	494	501	504	505	506	506	506	505	504	502	500	500
75	292	301	311	320	329	338	346	353	360	362	364	365	365	364	363	362	360	358	358
80	161	170	178	187	195	202	210	216	222	224	225	226	226	225	224	223	221	220	219
85	56.4	62.1	67.8	73.4	78.8	84.0	88.9	93.3	97.2	98.6	99.3	99.6	99.5	99.1	98.3	97.3	96.1	94.9	94.7
90	3.78	5.36	7.07	8.86	10.7	12.5	14.2	15.9	17.3	17.5	17.4	17.3	16.9	16.5	15.9	15.4	14.7	14.1	14.2
95	43.3	40.4	37.2	33.8	30.1	26.5	22.8	19.2	15.8	13.9	12.3	11.0	9.87	9.01	8.39	8.01	7.84	7.90	8.15
100	91.9	88.9	85.4	81.7	77.8	73.7	69.4	65.2	60.9	56.7	52.6	48.8	45.2	42.0	39.2	36.9	35.1	33.9	35.4
105	144	141	138	134	130	126	122	118	114	110	106	102	98.1	94.7	91.8	89.4	87.5	86.2	87.7
110	199	196	192	188	184	180	176	171	167	163	159	156	153	150	148	146	144	143	144
115	250	247	244	240	237	233	229	225	221	218	214	211	209	206	204	202	201	200	202
120	302	299	296	293	290	286	283	279	276	272	269	266	264	261	259	258	256	256	257
125	354	351	349	346	343	339	336	333	330	327	324	321	318	316	314	312	311	310	311
130	406	403	401	398	395	391	388	385	382	379	376	373	371	369	367	365	364	363	364
135	455	452	450	447	444	441	438	435	432	429	426	424	422	420	418	416	415	414	415
140	499	497	495	492	489	487	484	481	478	476	473	471	469	467	466	464	463	462	463
145	541	539	537	534	532	529	527	524	522	520	518	516	514	512	511	510	509	508	508
150	578	576	574	572	570	568	566	564	562	560	558	556	555	553	552	551	550	549	549
155	610	608	607	605	603	602	600	598	596	595	593	592	591	590	589	588	587	586	586
160	637	635	634	633	631	630	628	627	625	624	623	622	621	621	620	619	619	618	618
165	657	656	655	654	653	652	651	650	649	648	648	647	646	646	646	645	645	644	644
170	671	670	670	669	669	668	667	667	666	666	666	666	665	665	665	665	665	665	664
175	679	678	678	678	678	678	678	677	677	677	678	678	678	678	678	678	678	678	678
180	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.8V I:0.4300A P:51.90W PF:0.9900 Freq:60.00Hz Lamp Flux:6528.15x1 lm																		
NAME: WL-21LSUD4FT50WB2D1HV-40K-3.7-WH									TYPE:40K 3.7					WEIGHT:				
SPEC.:									DIM.:					SERIAL No.:				
MFR.: WS									SUR.:1.13*0.05					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	1692	1692	1692	1693	1693	1693	1694	1694	1694	1694	1694	1695	1695	1695	1695	1695	1695	1694	1694
5	1694	1694	1694	1694	1694	1694	1693	1693	1693	1692	1692	1691	1690	1690	1689	1688	1687	1686	1684
10	1678	1678	1678	1678	1677	1677	1676	1675	1674	1673	1672	1671	1669	1668	1666	1664	1662	1660	1657
15	1646	1645	1645	1644	1643	1642	1641	1640	1638	1637	1635	1633	1631	1629	1626	1624	1621	1617	1613
20	1596	1595	1595	1594	1593	1592	1590	1589	1586	1584	1581	1578	1575	1572	1568	1564	1560	1556	1551
25	1526	1527	1526	1526	1525	1525	1523	1522	1520	1517	1514	1511	1507	1503	1499	1495	1490	1484	1479
30	1448	1447	1447	1447	1446	1445	1443	1442	1439	1436	1433	1429	1425	1421	1416	1411	1406	1400	1394
35	1358	1357	1357	1357	1356	1355	1353	1351	1348	1345	1341	1337	1332	1328	1322	1317	1311	1304	1297
40	1257	1257	1256	1256	1255	1254	1252	1250	1247	1243	1239	1235	1230	1225	1219	1213	1207	1199	1191
45	1149	1148	1148	1147	1146	1144	1143	1140	1137	1133	1129	1124	1119	1113	1108	1101	1095	1087	1078
50	1033	1033	1032	1031	1030	1028	1026	1024	1020	1016	1011	1006	1001	995	989	982	975	966	958
55	909	908	908	908	907	905	903	901	897	893	888	882	876	870	863	856	849	840	831
60	777	777	777	777	776	775	773	771	767	763	758	753	747	740	733	726	718	708	698
65	640	640	639	638	637	635	634	631	628	624	619	614	609	603	596	589	581	571	561
70	500	499	499	498	496	495	493	490	487	483	479	474	468	462	456	449	441	431	420
75	357	357	356	355	354	352	350	348	344	341	337	332	327	322	316	309	302	292	281
80	219	218	218	217	215	214	212	210	207	203	200	196	191	186	181	175	168	159	150
85	94.5	94.2	93.8	93.1	92.3	91.2	89.9	88.3	85.6	82.7	79.4	75.9	72.2	68.3	64.2	60.0	55.6	50.6	45.6
90	14.3	14.3	14.3	14.3	14.3	14.1	13.8	13.5	12.2	10.8	9.40	7.95	6.53	5.16	3.90	2.78	1.84	2.09	2.53
95	8.60	9.26	10.1	11.1	12.4	13.8	15.3	17.1	19.5	22.0	24.7	27.3	29.9	32.5	34.9	37.2	39.2	40.2	41.0
100	37.5	40.1	43.2	46.6	50.3	54.2	58.2	62.2	65.4	68.5	71.5	74.4	77.2	79.8	82.3	84.6	86.8	88.4	89.8
105	89.8	92.4	95.4	98.8	102	106	110	114	117	120	123	125	128	130	132	134	136	138	139
110	146	149	151	154	158	161	165	168	170	173	175	177	179	181	183	184	186	188	190
115	203	205	208	211	213	216	220	223	224	226	228	229	231	232	234	235	237	239	241
120	258	260	263	265	268	270	273	276	278	279	280	282	283	284	286	287	289	291	293
125	312	314	316	319	321	324	326	329	330	332	333	335	336	337	339	340	341	344	346
130	365	367	368	370	372	375	377	379	381	382	384	385	387	388	390	391	393	395	397
135	416	417	419	420	422	424	426	428	430	431	432	434	435	437	438	439	441	443	445
140	464	465	466	467	469	470	472	474	475	477	478	479	480	482	483	485	486	488	489
145	509	509	510	511	512	514	515	516	517	519	520	521	522	523	524	525	527	528	530
150	550	550	551	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	567
155	586	587	587	587	588	589	589	590	591	591	592	593	593	594	595	596	597	598	600
160	618	618	618	618	619	619	619	620	620	621	621	622	622	623	623	624	625	626	627
165	644	644	644	644	644	644	644	644	644	644	644	645	645	646	646	647	647	648	649
170	664	664	663	663	663	662	662	662	662	662	662	662	663	663	663	664	664	665	666
175	677	677	676	676	675	675	674	674	674	674	674	674	674	674	675	675	676	676	676
180	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.8V I:0.4300A P:51.90W PF:0.9900 Freq:60.00Hz Lamp Flux:6528.15x1 lm																	
NAME: WL-21LSUD4FT50WB2D1HV-40K-3.7-WH									TYPE:40K 3.7						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.: WS									SUR.:1.13*0.05						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	1694	1694	1693	1693	1693	1693	1692	1692	1692	1692	1692	1692	1692	1692	1691				
5	1683	1681	1680	1678	1677	1676	1675	1674	1673	1673	1672	1672	1672	1672	1672				
10	1655	1652	1650	1647	1645	1642	1640	1639	1637	1636	1635	1634	1634	1633	1633				
15	1610	1606	1602	1598	1594	1591	1588	1585	1583	1582	1580	1579	1578	1578	1577				
20	1546	1542	1537	1533	1528	1524	1521	1518	1516	1514	1513	1512	1511	1510	1510				
25	1473	1467	1462	1456	1451	1446	1441	1438	1435	1433	1431	1430	1429	1429	1429				
30	1387	1381	1374	1368	1362	1356	1351	1347	1344	1341	1338	1336	1335	1333	1333				
35	1290	1283	1275	1268	1262	1255	1249	1245	1241	1238	1235	1232	1231	1229	1228				
40	1183	1175	1168	1160	1153	1146	1139	1135	1131	1127	1124	1122	1120	1119	1119				
45	1070	1062	1053	1045	1037	1030	1023	1018	1013	1010	1007	1004	1002	1001	1000				
50	949	940	931	922	914	906	898	893	888	884	881	878	875	874	873				
55	821	812	803	794	785	777	769	763	758	754	750	747	745	743	742				
60	687	677	666	656	646	637	628	622	617	612	608	605	602	600	599				
65	550	539	528	517	507	498	488	482	477	472	468	465	463	461	461				
70	409	398	387	376	365	355	346	340	334	330	326	323	321	320	319				
75	270	259	248	237	227	217	207	201	196	192	188	186	184	183	183				
80	141	131	122	112	104	95.4	87.8	83.0	79.0	75.8	73.4	71.8	71.0	71.1	71.9				
85	40.6	35.7	30.9	26.3	22.0	18.0	14.4	12.0	10.1	8.57	7.52	6.92	6.75	7.03	7.75				
90	3.12	3.83	4.63	5.47	6.33	7.18	7.97	8.23	8.41	8.50	8.51	8.43	8.27	8.03	7.70				
95	41.5	41.8	42.0	41.9	41.7	41.4	40.9	40.5	39.9	39.3	38.5	37.6	36.6	35.4	34.2				
100	91.0	92.0	92.8	93.4	93.7	93.9	93.8	93.6	93.1	92.5	91.6	90.5	89.3	87.8	86.1				
105	141	142	143	144	145	145	145	145	145	145	145	144	143	142	141				
110	191	193	195	196	197	198	199	199	199	199	199	199	198	197	196				
115	243	245	247	249	250	252	253	254	254	254	254	254	253	252	251				
120	295	297	300	302	304	305	307	307	308	308	308	308	308	307	306				
125	348	350	352	354	356	358	359	360	360	360	360	360	360	359	358				
130	399	401	403	404	406	407	409	410	410	411	411	411	411	410	410				
135	446	448	450	452	453	455	456	457	457	458	458	458	458	458	458				
140	491	493	494	496	497	499	500	501	501	502	502	503	503	503	503				
145	532	533	535	536	538	539	540	541	542	543	544	544	544	545	545				
150	568	570	571	573	574	576	577	578	579	579	580	580	581	581	581				
155	601	602	604	605	607	608	609	610	611	612	612	613	613	614	614				
160	629	630	631	632	633	635	636	637	637	638	639	640	640	641	641				
165	650	651	652	654	655	656	657	657	658	659	660	660	661	661	662				
170	667	667	668	669	670	671	672	672	673	674	674	675	675	676	676				
175	677	677	678	679	679	680	680	681	681	682	682	683	683	683	684				
180	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683				

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks: