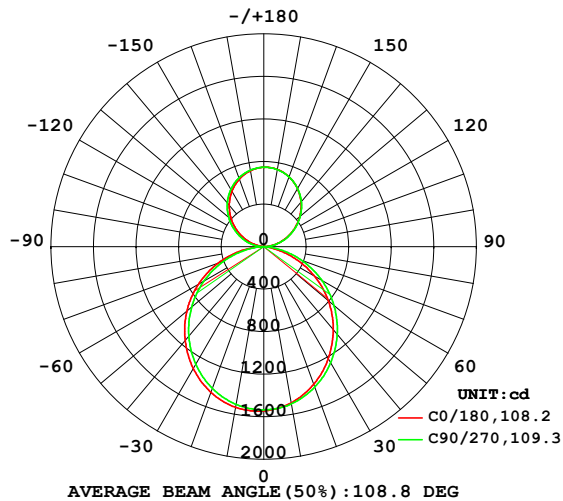


LUMINAIRE PHOTOMETRIC TEST REPORT

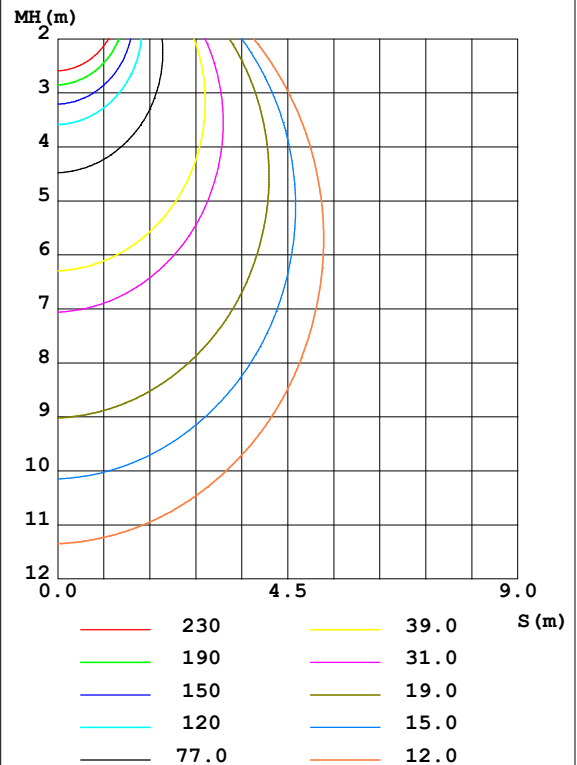
Test:U:120.8V I:0.4230A P:51.10W PF:0.9900 Freq:60.00Hz Lamp Flux:6290.52x1 lm		
NAME: WL-21LSUD4FT50WB2D1HV-35K-3.7-WH	TYPE:35K 3.7	WEIGHT:
SPEC.:	DIM.: 4FT	SERIAL No.:
MFR.: WS	SUR.:1.13*0.05	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 123.10 lm/W			
MODEL		I _{max} (cd)	1548	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)	6290.5	η UP,DN(C0-180)	16.8,33.2
NOMINAL FLUX(lm)	6290.52	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	16.6,33.4
LAMPS INSIDE	1	η up(%)	33.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120.0	η down(%)	66.7	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:

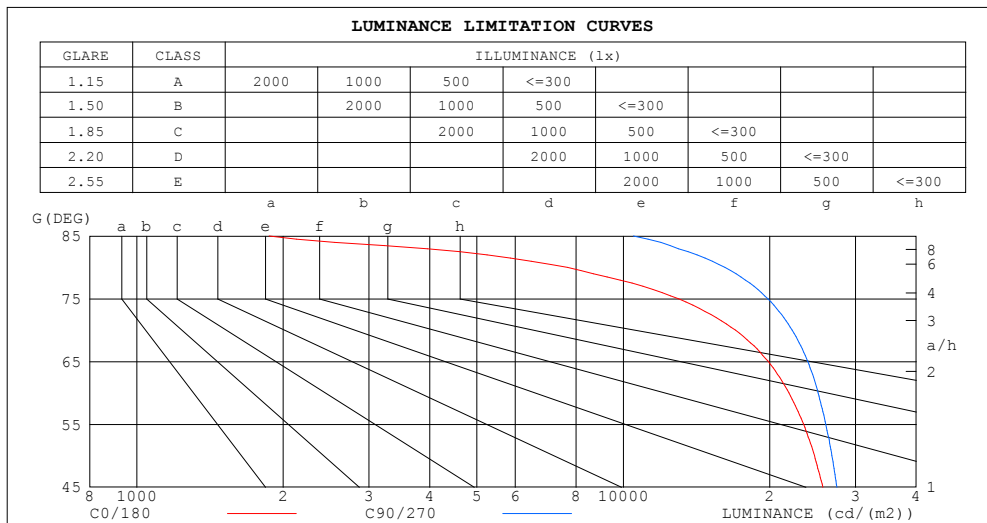
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1491	1494	1502	1515	1534	1522	1506	1479	0- 10	145.1	145.1	2.31,2.31
20	1376	1386	1404	1437	1457	1444	1418	1372	10- 20	413.3	558.5	8.88,8.88
30	1215	1231	1260	1306	1326	1311	1278	1217	20- 30	619.8	1178	18.7,18.7
40	1018	1040	1076	1132	1151	1136	1097	1027	30- 40	738.1	1916	30.5,30.5
50	794.1	823.3	863.0	928.5	945.5	930.1	886.3	809.8	40- 50	757.0	2673	42.5,42.5
60	547.3	585.1	628.7	701.5	711.4	700.1	652.2	569.1	50- 60	676.8	3350	53.3,53.3
70	290.7	331.5	380.5	452.5	458.9	447.2	401.3	313.4	60- 70	506.6	3857	61.3,61.3
80	66.68	92.48	140.5	200.5	202.0	191.9	152.1	79.55	70- 80	273.8	4130	65.7,65.7
90	8.255	6.880	2.405	15.61	13.20	12.48	1.913	8.253	80- 90	62.98	4193	66.7,66.7
100	90.04	97.71	104.7	67.48	37.52	69.01	95.58	102.2	90-100	39.83	4233	67.3,67.3
110	211.1	214.9	221.4	184.6	160.0	185.5	205.7	217.6	100-110	149.0	4382	69.7,69.7
120	330.2	334.4	335.8	303.9	281.1	304.1	318.0	335.1	110-120	256.5	4639	73.7,73.7
130	443.7	448.0	448.9	419.8	398.6	419.2	431.5	448.1	120-130	336.2	4975	79.1,79.1
140	546.6	549.4	551.1	524.5	506.4	524.0	535.4	549.0	130-140	374.7	5350	85,85
150	633.3	635.3	635.4	614.6	600.8	614.3	621.5	634.3	140-150	364.0	5714	90.8,90.8
160	698.8	699.8	698.1	684.8	675.9	684.6	688.6	698.4	150-160	304.2	6018	95.7,95.7
170	738.2	738.6	736.4	730.3	726.3	730.5	731.1	737.6	160-170	201.9	6220	98.9,98.9
180	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	170-180	70.72	6291	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:0.4230A P:51.10W PF:0.9900 Freq:60.00Hz Lamp Flux:6290.52x1 lm		
NAME: WL-21LSUD4FT50WB2D1HV-35K-3.7-WH	TYPE:35K 3.7	WEIGHT:
SPEC.:	DIM.: 4FT	SERIAL No.:
MFR.: WS	SUR.:1.13*0.05	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1870	10481
80	7680	16181
75	12988	19820
70	17001	22252
65	19875	23955
60	21893	25149
55	23476	26085
50	24710	26851
45	25723	27480

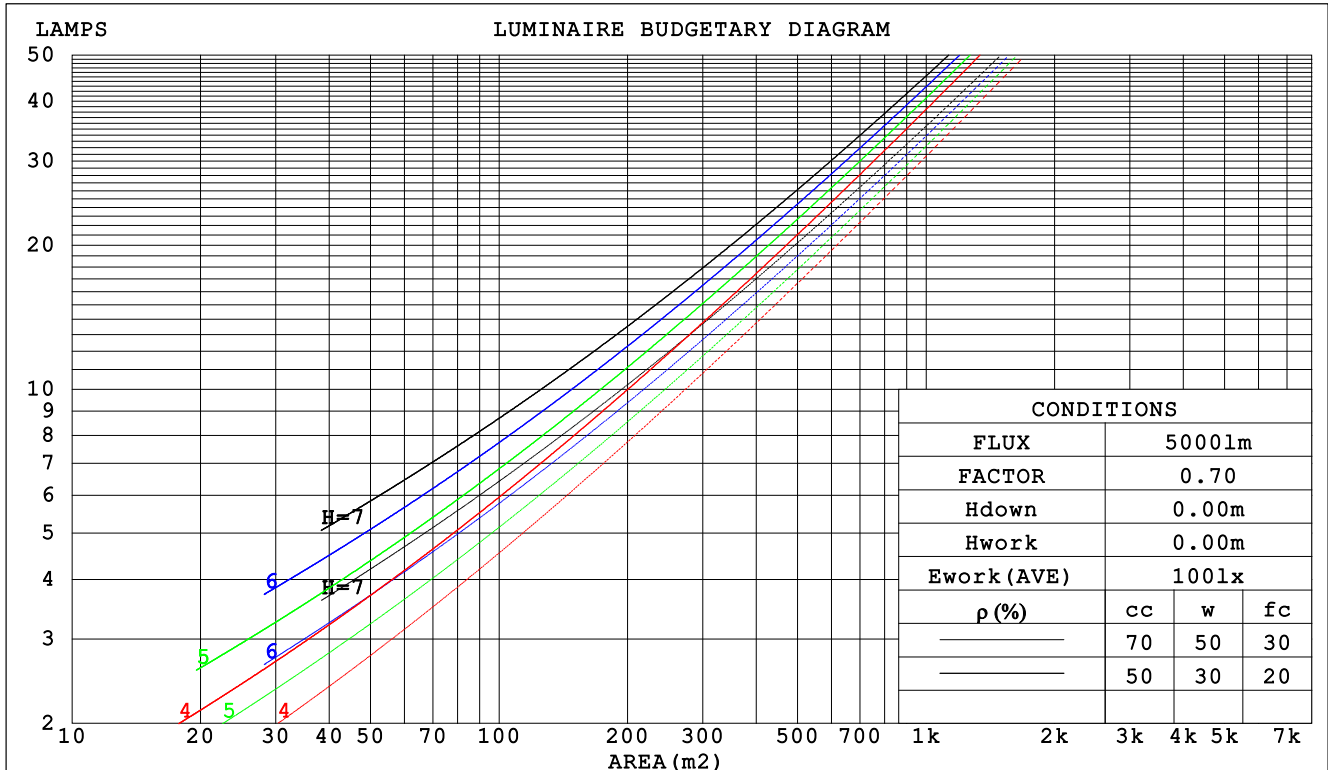
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

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:0.4230A P:51.10W PF:0.9900 Freq:60.00Hz Lamp Flux:6290.52x1 lm		
NAME: WL-21LSUD4FT50WB2D1HV-35K-3.7-WH	TYPE:35K 3.7	WEIGHT:
SPEC.:	DIM.: 4FT	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	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
0.0	1.11	1.11	1.11	1.05	1.05	1.05	.93	.93	.93	.82	.82	.82	.71	.71	.71	.67
1.0	.97	.93	.89	.92	.88	.85	.81	.79	.76	.72	.70	.68	.63	.62	.60	.56
2.0	.85	.78	.73	.80	.74	.70	.71	.67	.63	.63	.60	.57	.55	.53	.51	.47
3.0	.74	.67	.61	.70	.63	.58	.63	.57	.53	.56	.51	.48	.49	.46	.43	.40
4.0	.66	.58	.51	.62	.55	.49	.56	.50	.45	.49	.45	.41	.44	.40	.37	.34
5.0	.59	.50	.44	.56	.48	.42	.50	.44	.39	.44	.39	.35	.39	.35	.32	.29
6.0	.53	.44	.38	.50	.42	.37	.45	.39	.34	.40	.35	.31	.36	.31	.28	.26
7.0	.48	.39	.34	.45	.38	.32	.41	.34	.30	.36	.31	.27	.33	.28	.25	.23
8.0	.43	.35	.30	.41	.34	.29	.37	.31	.27	.33	.28	.24	.30	.26	.22	.20
9.0	.40	.32	.27	.38	.31	.26	.34	.28	.24	.31	.26	.22	.28	.23	.20	.18
10.0	.36	.29	.24	.35	.28	.23	.31	.26	.22	.28	.23	.20	.26	.21	.18	.16



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:0.4230A P:51.10W PF:0.9900 Freq:60.00Hz Lamp Flux:6290.52x1 lm		
NAME: WL-21LSUD4FT50WB2D1HV-35K-3.7-WH	TYPE:35K 3.7	WEIGHT:
SPEC.:	DIM.: 4FT	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	.287	.163	.052	.270	.154	.049	.238	.137	.044	.209	.120	.039	.182	.105	.034		
2.0	.270	.148	.045	.254	.140	.043	.225	.125	.039	.199	.111	.035	.174	.098	.031		
3.0	.250	.133	.040	.236	.126	.038	.210	.114	.035	.185	.102	.031	.163	.090	.028		
4.0	.232	.120	.035	.219	.114	.034	.195	.103	.031	.172	.092	.028	.151	.082	.025		
5.0	.215	.109	.032	.203	.104	.030	.181	.094	.028	.160	.085	.025	.141	.075	.023		
6.0	.200	.100	.029	.189	.095	.027	.168	.086	.025	.149	.078	.023	.132	.069	.021		
7.0	.186	.092	.026	.176	.088	.025	.157	.080	.023	.140	.072	.021	.123	.064	.019		
8.0	.174	.085	.024	.165	.081	.023	.148	.074	.021	.131	.066	.019	.116	.059	.017		
9.0	.163	.079	.022	.155	.075	.021	.139	.069	.019	.123	.062	.018	.109	.055	.016		
10.0	.154	.074	.020	.146	.070	.020	.131	.064	.018	.117	.058	.016	.103	.052	.015		

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	.444	.444	.444	.380	.380	.380	.259	.259	.259	.149	.149	.149	.048	.048	.048	
1.0	.435	.412	.392	.372	.354	.338	.254	.244	.233	.146	.141	.136	.047	.045	.044	
2.0	.427	.390	.358	.366	.336	.310	.251	.232	.216	.145	.135	.127	.046	.044	.041	
3.0	.420	.373	.336	.360	.322	.292	.247	.224	.205	.143	.131	.121	.046	.042	.039	
4.0	.413	.361	.321	.354	.312	.279	.244	.217	.197	.141	.127	.116	.045	.041	.038	
5.0	.406	.351	.311	.349	.304	.270	.240	.212	.191	.139	.125	.113	.045	.041	.037	
6.0	.400	.343	.303	.343	.297	.264	.237	.208	.187	.137	.122	.111	.044	.040	.037	
7.0	.393	.337	.298	.338	.292	.259	.234	.205	.184	.136	.121	.109	.044	.040	.036	
8.0	.387	.332	.293	.333	.288	.256	.231	.202	.181	.134	.119	.108	.043	.039	.036	
9.0	.382	.327	.290	.329	.284	.253	.228	.200	.180	.133	.118	.107	.043	.039	.036	
10.0	.377	.323	.288	.325	.281	.251	.225	.197	.178	.131	.117	.106	.043	.038	.035	

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:0.4230A P:51.10W PF:0.9900 Freq:60.00Hz Lamp Flux:6290.52x1 lm										
NAME: WL-21LSUD4FT50WB2D1HV-35K-3.7-WH					TYPE:35K 3.7			WEIGHT:		
SPEC.:					DIM.: 4FT			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	21.5	22.6	22.2	23.3	24.1	22.0	23.1	22.6	23.7	24.6
3H	22.6	23.6	23.3	24.3	25.1	23.3	24.3	24.0	25.0	25.9
4H	22.9	23.8	23.6	24.5	25.4	23.8	24.7	24.5	25.5	26.3
6H	22.9	23.8	23.7	24.5	25.4	24.1	24.9	24.8	25.7	26.6
8H	22.9	23.7	23.6	24.4	25.4	24.1	24.9	24.9	25.7	26.6
12H	22.8	23.6	23.6	24.3	25.3	24.1	24.9	24.9	25.7	26.6
4H 2H	22.0	22.9	22.7	23.6	24.5	22.3	23.3	23.1	24.0	24.9
3H	23.2	24.0	24.0	24.8	25.7	23.8	24.6	24.6	25.4	26.3
4H	23.6	24.3	24.3	25.1	26.0	24.4	25.1	25.2	25.9	26.9
6H	23.7	24.3	24.5	25.1	26.1	24.7	25.4	25.6	26.2	27.2
8H	23.6	24.2	24.4	25.0	26.0	24.8	25.4	25.6	26.2	27.2
12H	23.5	24.1	24.4	24.9	25.9	24.8	25.3	25.7	26.2	27.2
8H 4H	23.7	24.2	24.5	25.1	26.1	24.4	25.0	25.2	25.8	26.8
6H	23.8	24.3	24.7	25.1	26.2	24.8	25.3	25.7	26.2	27.2
8H	23.8	24.2	24.7	25.1	26.1	24.9	25.4	25.8	26.2	27.3
12H	23.7	24.1	24.6	25.0	26.0	25.0	25.3	25.9	26.2	27.3
12H 4H	23.6	24.1	24.4	25.0	26.0	24.4	24.9	25.2	25.7	26.7
6H	23.8	24.2	24.7	25.1	26.1	24.8	25.2	25.7	26.1	27.1
8H	23.8	24.1	24.7	25.0	26.1	24.9	25.3	25.8	26.1	27.2
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 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117 Corrected 6291 lm Total Lamp Luminous Flux.(8log(F/F0) = 6.4)

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:0.4230A P:51.10W PF:0.9900 Freq:60.00Hz Lamp Flux:6290.52x1 lm		
NAME: WL-21LSUD4FT50WB2D1HV-35K-3.7-WH	TYPE:35K 3.7	WEIGHT:
SPEC.:	DIM.: 4FT	SERIAL No.:
MFR.: WS	SUR.:1.13*0.05	Shielding Angle:

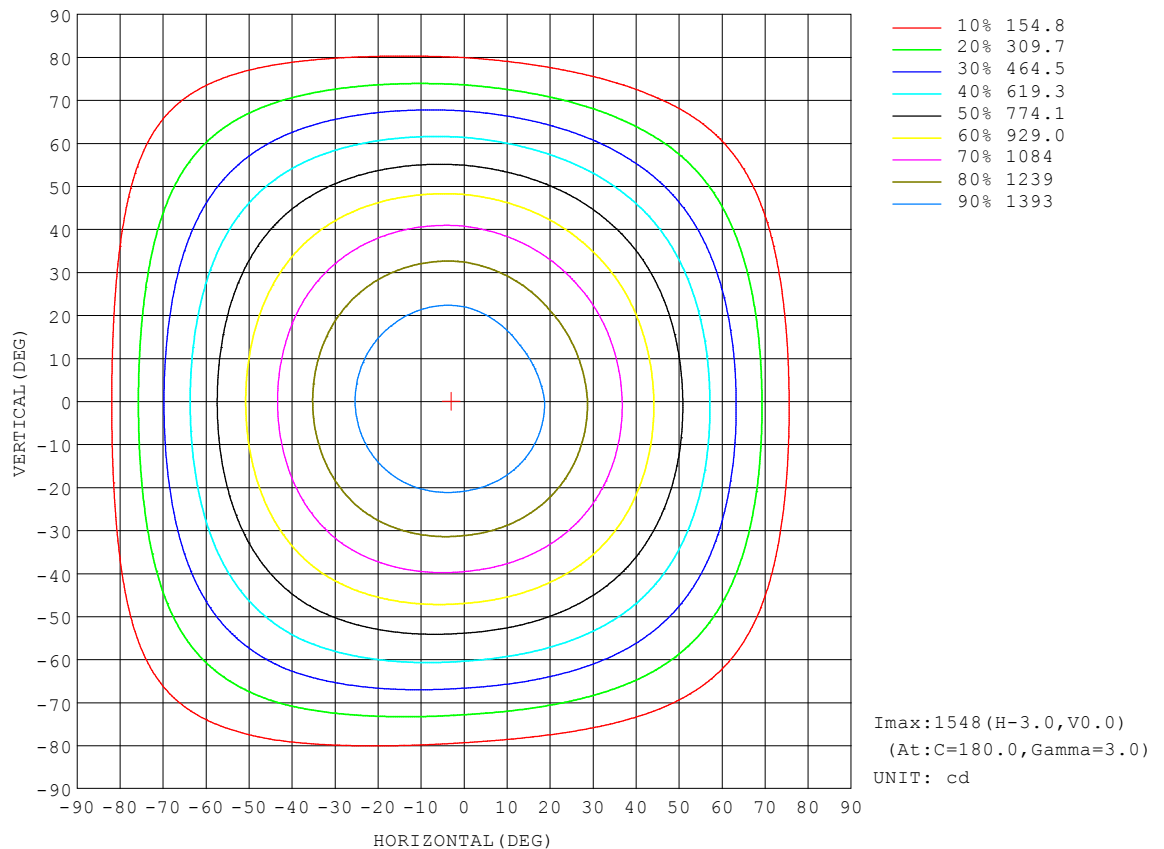
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	49	38	31	47	37	30	44	35	29	22
0.80	58	47	40	56	45	39	51	43	37	28
1.00	66	55	48	63	53	47	58	51	44	34
1.25	73	63	55	70	60	54	63	56	50	39
1.50	79	68	61	75	66	59	67	60	55	42
2.00	86	77	70	81	73	67	73	67	62	47
2.50	90	82	75	85	78	72	76	71	66	50
3.00	93	86	80	88	82	77	79	74	70	53
4.00	97	91	86	92	87	82	82	78	75	56
5.00	100	95	90	94	90	86	84	81	78	58
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:0.4230A P:51.10W PF:0.9900 Freq:60.00Hz Lamp Flux:6290.52x1 lm		
NAME: WL-21LSUD4FT50WB2D1HV-35K-3.7-WH	TYPE:35K 3.7	WEIGHT:
SPEC.:	DIM.: 4FT	SERIAL No.:
MFR.: WS	SUR.:1.13*0.05	Shielding Angle:

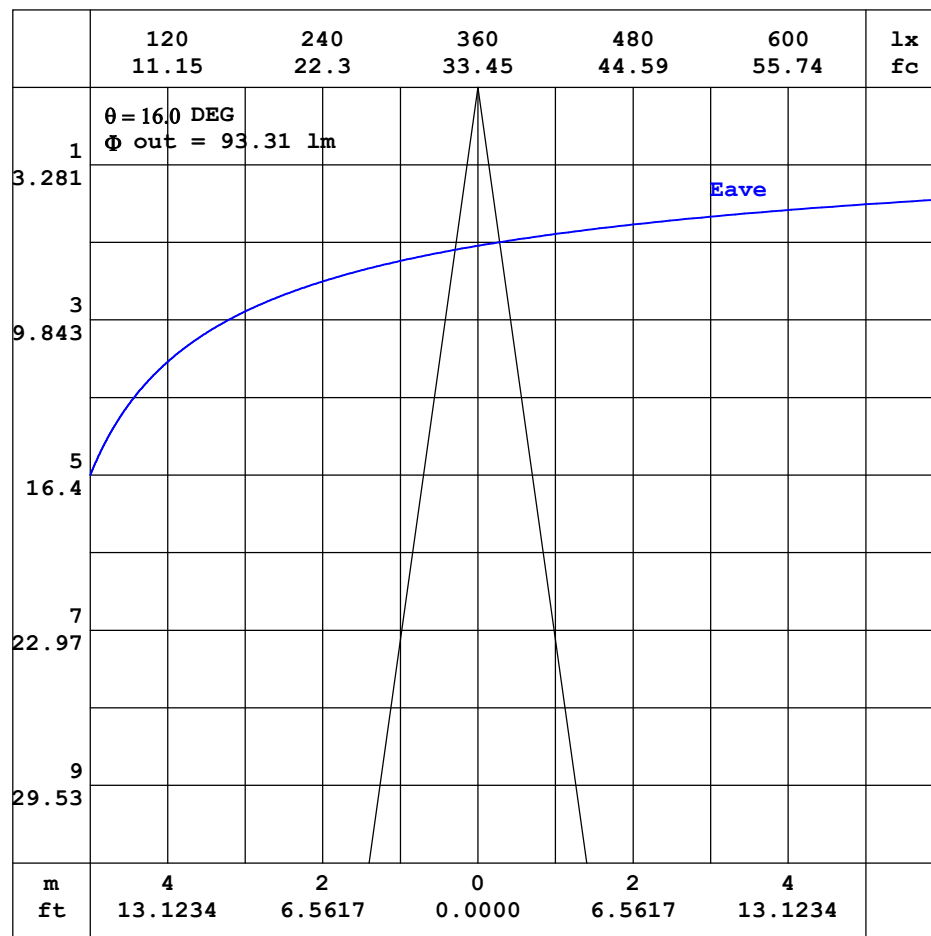


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

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:0.4230A P:51.10W PF:0.9900 Freq:60.00Hz Lamp Flux:6290.52x1 lm		
NAME: WL-21LSUD4FT50WB2D1HV-35K-3.7-WH	TYPE:35K 3.7	WEIGHT:
SPEC.:	DIM.: 4FT	SERIAL No.:
MFR.: WS	SUR.:1.13*0.05	Shielding Angle:



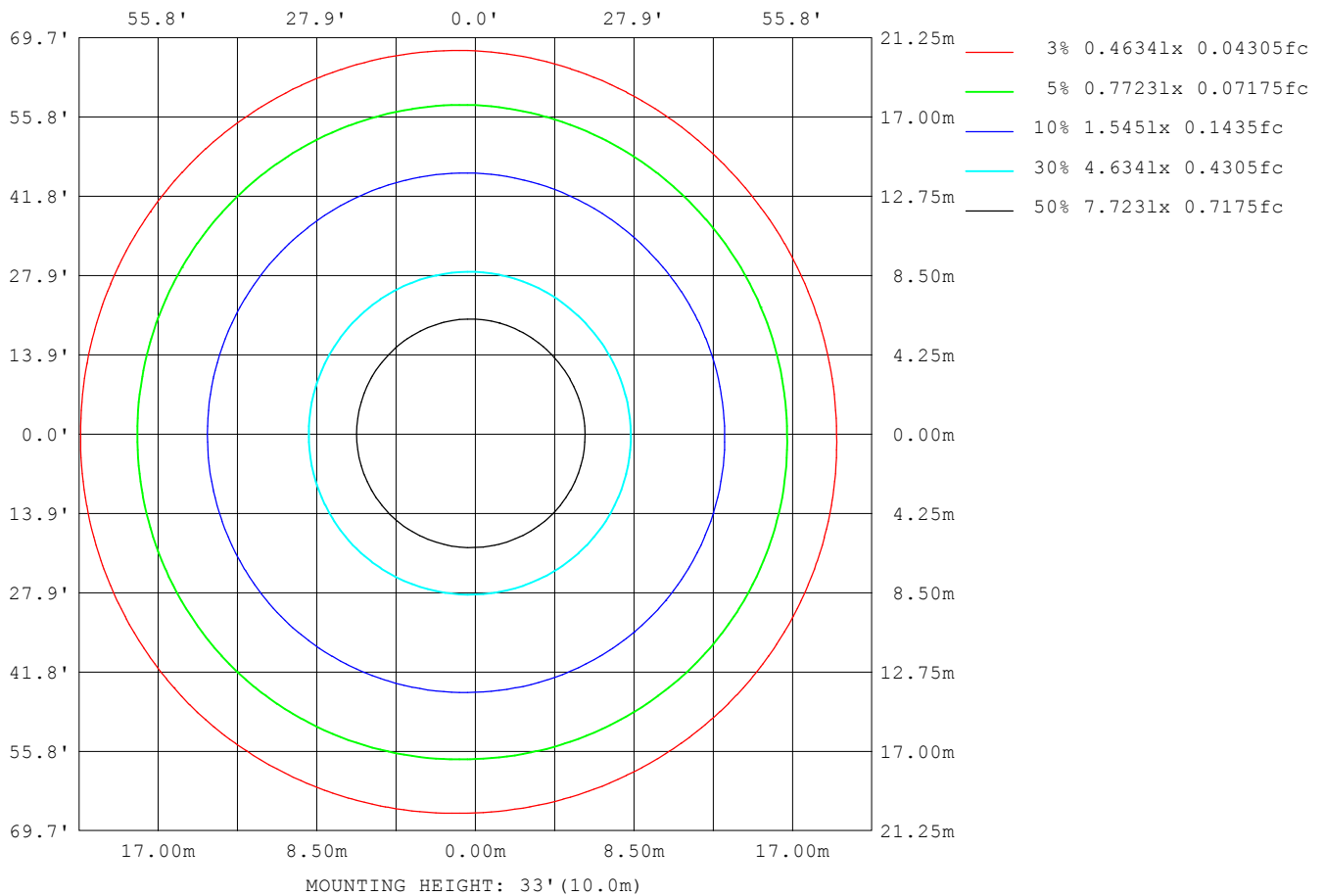
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.4230A P:51.10W PF:0.9900 Freq:60.00Hz Lamp Flux:6290.52x1 lm		
NAME: WL-21LSUD4FT50WB2D1HV-35K-3.7-WH	TYPE:35K 3.7	WEIGHT:
SPEC.:	DIM.: 4FT	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:0.4230A P:51.10W PF:0.9900 Freq:60.00Hz Lamp Flux:6290.52x1 lm		
NAME: WL-21LSUD4FT50WB2D1HV-35K-3.7-WH	TYPE:35K 3.7	WEIGHT:
SPEC.:	DIM.: 4FT	SERIAL No.:
MFR.: WS	SUR.:1.13*0.05	Shielding Angle:

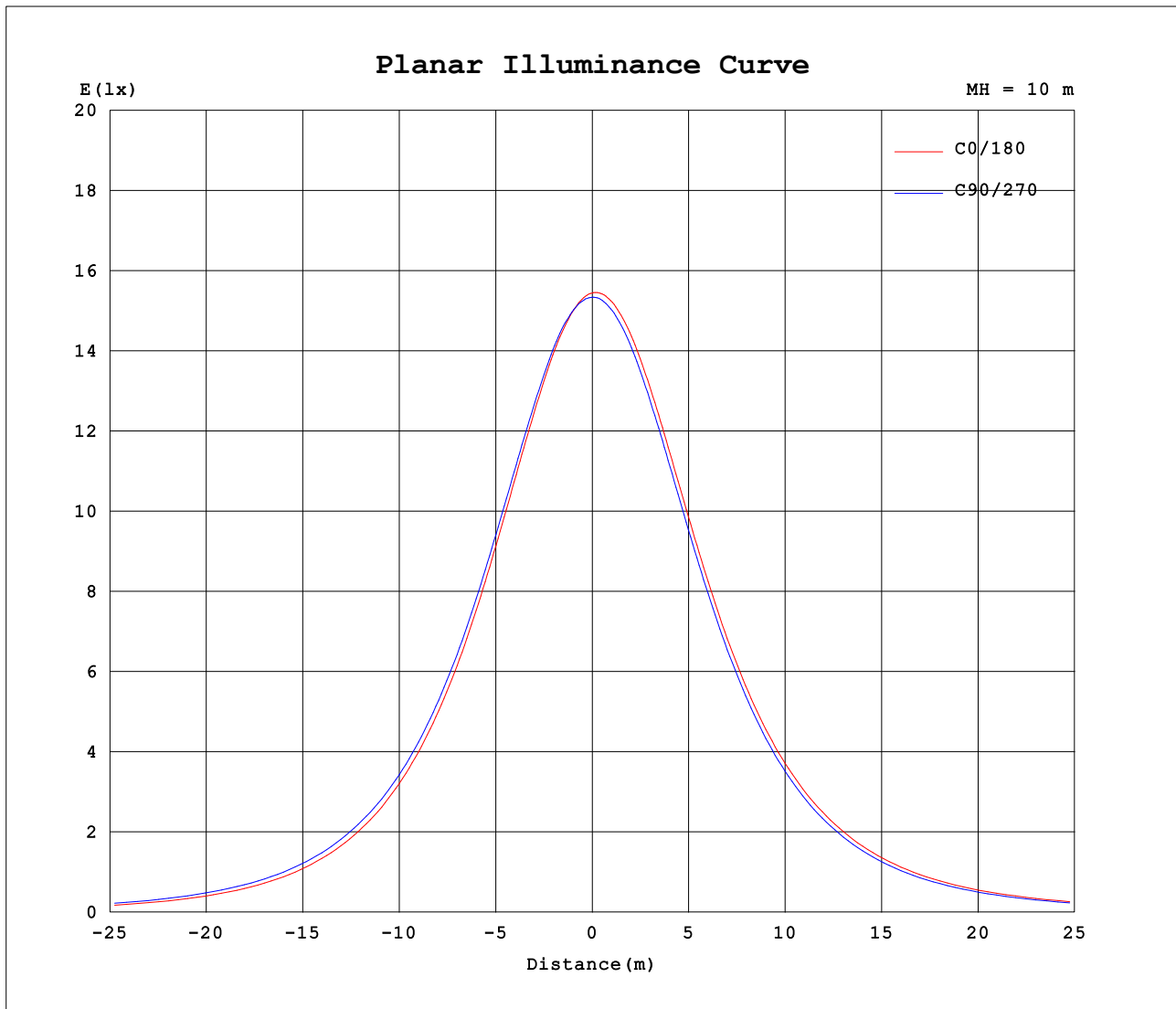
AvgL	cd/m2
L_0~180 (65) av	23829
L_0~180 (75) av	19189
L_0~180 (85) av	10977
L_90~270 (65) av	24486
L_90~270 (75) av	20511
L_90~270 (85) av	11031
L_45 (65) av	24341
L_45 (75) av	20063
L_45 (85) av	11537

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:0.4230A P:51.10W PF:0.9900 Freq:60.00Hz Lamp Flux:6290.52x1 lm		
NAME: WL-21LSUD4FT50WB2D1HV-35K-3.7-WH	TYPE:35K 3.7	WEIGHT:
SPEC.:	DIM.: 4FT	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	1545	1544	1543	1543	1542	1541	1541	1540	1540	1539	1538	1538	1537	1537	1536	1536	1535	1535	1534
5	1526	1525	1525	1525	1524	1524	1524	1524	1523	1523	1523	1523	1524	1524	1524	1524	1525	1525	1525
10	1491	1491	1491	1492	1492	1492	1492	1493	1493	1494	1495	1495	1496	1497	1498	1499	1500	1501	1502
15	1440	1441	1441	1442	1443	1444	1445	1446	1447	1448	1449	1449	1451	1452	1453	1454	1456	1457	1459
20	1376	1377	1377	1378	1379	1380	1381	1383	1384	1386	1387	1389	1391	1393	1395	1397	1399	1402	1404
25	1301	1302	1303	1304	1305	1307	1308	1310	1312	1314	1316	1318	1320	1323	1326	1328	1331	1335	1338
30	1215	1216	1217	1219	1220	1222	1224	1226	1229	1231	1233	1236	1239	1242	1245	1248	1252	1256	1260
35	1119	1121	1123	1124	1127	1129	1131	1134	1136	1139	1142	1145	1148	1151	1155	1158	1162	1166	1171
40	1018	1020	1022	1024	1026	1028	1031	1034	1037	1040	1043	1046	1050	1054	1058	1062	1066	1071	1076
45	909	912	914	916	919	922	925	928	931	934	938	941	945	949	953	957	962	966	972
50	794	797	800	803	806	809	812	816	820	823	827	831	835	839	843	848	852	858	863
55	673	677	680	684	688	691	695	699	703	707	711	715	719	723	728	732	737	743	748
60	547	551	555	559	563	568	572	576	581	585	589	594	598	602	607	612	617	623	629
65	420	424	428	433	437	441	446	450	455	460	464	469	474	478	483	489	494	500	506
70	291	295	299	303	308	312	317	322	327	332	336	341	346	351	357	362	368	374	381
75	168	172	176	180	184	189	193	198	203	207	212	217	222	227	233	238	244	250	256
80	66.7	68.5	70.5	72.8	75.4	78.3	81.4	84.8	88.5	92.5	96.9	102	107	112	117	123	128	134	140
85	8.15	8.57	9.19	10.0	11.0	12.2	13.6	15.2	17.0	19.0	21.2	23.6	26.1	28.9	31.9	35.0	38.4	41.9	45.7
90	8.25	8.26	8.22	8.14	8.03	7.87	7.68	7.45	7.19	6.88	6.16	5.42	4.71	4.04	3.45	2.96	2.60	2.41	2.41
95	35.7	35.6	35.7	35.8	36.1	36.4	36.9	37.5	38.1	38.9	40.8	42.7	44.5	46.2	47.8	49.0	50.0	50.5	50.5
100	90.0	90.9	91.8	92.7	93.5	94.4	95.2	96.1	96.9	97.7	99.3	101	102	104	104	105	105	105	105
105	151	151	152	152	153	153	154	155	155	156	158	159	160	162	163	163	164	164	163
110	211	211	212	212	212	213	213	214	214	215	216	218	219	220	221	222	222	222	221
115	271	272	272	273	273	273	274	274	275	275	276	277	278	279	279	279	279	279	278
120	330	331	331	332	332	333	333	334	334	334	335	336	337	337	337	337	337	337	336
125	388	389	389	390	390	391	391	392	392	392	393	394	394	395	395	395	395	394	393
130	444	444	445	446	446	446	447	447	448	448	449	449	450	450	451	451	450	450	449
135	497	497	498	498	499	499	499	500	500	500	501	502	502	503	503	503	503	503	502
140	547	547	547	548	548	548	549	549	549	549	550	551	551	552	552	552	552	552	551
145	592	593	593	593	594	594	594	594	595	595	595	596	596	597	597	597	597	596	596
150	633	634	634	634	634	635	635	635	635	635	636	636	636	637	637	637	636	636	635
155	669	669	670	670	670	670	670	670	670	670	671	671	671	671	671	671	671	670	670
160	699	699	699	699	700	700	700	700	700	700	700	700	700	700	700	699	699	699	698
165	722	722	722	723	723	723	723	723	723	723	723	723	723	722	722	722	722	721	721
170	738	738	739	739	739	739	739	739	739	739	739	738	738	738	738	737	737	737	736
175	747	747	747	747	747	747	748	748	748	747	747	747	747	747	747	746	746	746	745
180	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746

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:0.4230A P:51.10W PF:0.9900 Freq:60.00Hz Lamp Flux:6290.52x1 lm		
NAME: WL-21LSUD4FT50WB2D1HV-35K-3.7-WH	TYPE:35K 3.7	WEIGHT:
SPEC.:	DIM.: 4FT	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	1533	1532	1531	1530	1529	1529	1528	1528	1528	1529	1531	1533	1535	1537	1539	1541	1543	1545	1545
5	1525	1525	1525	1526	1526	1526	1527	1528	1528	1531	1533	1535	1538	1540	1542	1544	1546	1548	1547
10	1503	1504	1505	1507	1508	1510	1511	1513	1515	1517	1520	1522	1524	1527	1529	1531	1532	1534	1534
15	1462	1464	1467	1470	1473	1476	1479	1482	1485	1488	1490	1493	1495	1497	1499	1501	1502	1503	1503
20	1408	1411	1415	1419	1422	1426	1430	1433	1437	1440	1443	1446	1449	1451	1453	1455	1456	1457	1457
25	1342	1347	1351	1356	1360	1365	1369	1373	1377	1381	1384	1387	1390	1392	1394	1396	1397	1398	1398
30	1265	1270	1275	1281	1286	1291	1296	1301	1306	1309	1313	1316	1318	1321	1323	1324	1325	1326	1326
35	1177	1183	1189	1195	1201	1207	1213	1218	1223	1227	1230	1233	1236	1238	1240	1241	1242	1242	1242
40	1082	1088	1095	1102	1108	1115	1121	1127	1132	1136	1139	1142	1145	1147	1148	1149	1150	1151	1150
45	978	986	993	1000	1007	1014	1021	1028	1034	1038	1041	1044	1046	1048	1050	1051	1051	1052	1051
50	870	878	886	893	901	908	916	922	929	933	936	939	941	943	944	945	945	945	945
55	756	764	772	781	789	797	804	811	818	822	825	827	829	830	831	832	832	831	831
60	637	646	654	663	671	680	688	695	701	705	708	710	711	712	712	712	712	711	711
65	515	523	532	541	549	558	566	573	579	583	585	587	588	589	589	589	588	587	587
70	389	398	406	415	423	431	439	446	453	456	458	460	461	461	461	461	460	459	459
75	265	273	281	290	298	306	313	319	325	328	330	331	332	332	332	331	330	329	328
80	148	155	163	170	177	183	190	195	200	203	204	205	206	206	205	204	203	202	202
85	50.7	55.8	60.9	66.0	70.9	75.7	80.1	84.2	87.9	89.3	90.2	90.7	90.8	90.6	90.1	89.4	88.5	87.5	87.4
90	3.61	4.98	6.49	8.07	9.69	11.3	12.9	14.3	15.6	15.8	15.8	15.7	15.4	15.1	14.7	14.2	13.7	13.2	13.2
95	47.7	44.5	40.8	37.0	32.9	28.7	24.6	20.6	16.8	14.7	12.9	11.4	10.2	9.21	8.53	8.11	7.94	8.01	8.30
100	102	98.5	94.7	90.6	86.2	81.6	76.9	72.2	67.5	62.8	58.3	54.0	50.0	46.5	43.4	40.8	38.8	37.5	39.2
105	160	157	153	149	145	140	135	131	126	121	117	113	109	105	102	99.4	97.4	96.0	97.6
110	218	215	211	207	203	198	194	189	185	181	177	173	170	167	165	163	161	160	161
115	275	272	269	265	261	257	252	248	244	240	237	233	230	227	225	223	222	221	222
120	333	330	327	323	319	316	312	308	304	300	297	293	290	288	285	284	282	281	282
125	391	388	385	381	378	374	370	367	363	359	356	353	350	347	345	343	341	340	342
130	446	444	441	437	434	430	427	423	420	416	413	410	407	405	403	401	400	399	400
135	500	497	494	491	488	484	481	477	474	471	468	465	462	460	458	456	455	454	455
140	549	546	544	541	537	534	531	528	525	522	519	516	514	512	510	508	507	506	507
145	594	591	589	586	583	581	578	575	572	569	567	565	562	560	559	558	556	556	557
150	634	632	629	627	625	622	620	617	615	612	610	608	606	605	603	602	601	601	602
155	668	666	665	663	661	659	657	655	653	651	649	647	646	645	643	643	642	641	642
160	697	696	694	693	691	690	688	686	685	683	682	681	680	678	678	677	676	676	676
165	720	719	718	717	716	714	713	712	711	710	709	708	707	706	705	705	704	704	705
170	736	735	734	734	733	732	732	731	730	730	729	728	728	727	727	727	726	726	727
175	745	745	745	744	744	744	743	743	743	742	742	742	741	741	741	741	741	741	741
180	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746

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:0.4230A P:51.10W PF:0.9900 Freq:60.00Hz Lamp Flux:6290.52x1 lm																		
NAME: WL-21LSUD4FT50WB2D1HV-35K-3.7-WH									TYPE:35K 3.7					WEIGHT:				
SPEC.:									DIM.: 4FT					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	1545	1544	1544	1543	1542	1541	1540	1539	1538	1538	1537	1537	1536	1536	1535	1535	1534	1533	1532
5	1547	1546	1545	1544	1543	1542	1540	1538	1537	1536	1535	1534	1533	1532	1530	1529	1528	1525	1523
10	1533	1532	1531	1530	1528	1526	1524	1522	1521	1519	1518	1516	1514	1512	1510	1508	1506	1503	1499
15	1502	1501	1500	1498	1497	1495	1493	1490	1489	1487	1485	1482	1480	1477	1475	1472	1469	1465	1460
20	1456	1455	1454	1452	1451	1448	1446	1444	1441	1439	1437	1434	1431	1428	1425	1421	1418	1412	1407
25	1397	1396	1395	1393	1391	1388	1386	1383	1381	1378	1375	1372	1369	1366	1362	1358	1354	1348	1341
30	1325	1324	1322	1321	1318	1316	1313	1311	1308	1305	1302	1299	1295	1291	1287	1283	1278	1271	1264
35	1242	1241	1240	1238	1236	1234	1231	1228	1225	1222	1219	1215	1211	1207	1202	1197	1192	1185	1177
40	1150	1149	1148	1146	1144	1142	1139	1136	1133	1130	1126	1122	1118	1113	1108	1103	1097	1089	1081
45	1051	1050	1048	1047	1045	1042	1039	1036	1033	1030	1026	1022	1017	1013	1007	1002	996	987	979
50	945	944	942	941	939	936	933	930	927	923	919	914	910	904	899	893	886	878	869
55	831	830	829	828	826	823	821	818	814	810	806	801	796	791	785	778	771	763	754
60	711	711	710	709	707	705	703	700	697	693	688	683	678	672	666	659	652	643	633
65	587	586	585	584	583	581	578	576	572	568	564	559	554	549	542	536	529	519	509
70	458	458	457	456	454	452	450	447	444	440	436	431	426	421	415	408	401	392	382
75	328	327	326	325	324	322	320	318	315	311	307	303	298	293	287	281	274	265	255
80	201	201	200	199	198	196	194	192	189	186	182	178	174	169	164	158	152	144	136
85	87.2	86.9	86.4	85.7	84.8	83.8	82.4	80.8	78.3	75.5	72.5	69.3	65.8	62.2	58.4	54.5	50.5	46.0	41.4
90	13.3	13.3	13.4	13.3	13.2	13.1	12.8	12.5	11.3	10.0	8.73	7.41	6.11	4.88	3.74	2.74	1.91	2.21	2.68
95	8.82	9.56	10.5	11.7	13.1	14.7	16.4	18.4	21.1	24.0	26.9	29.9	32.9	35.7	38.4	41.0	43.2	44.3	45.0
100	41.5	44.5	47.9	51.7	55.8	60.1	64.5	69.0	72.5	75.9	79.2	82.3	85.3	88.2	90.9	93.3	95.6	97.3	98.7
105	99.9	103	106	110	114	118	122	126	129	132	135	138	141	143	146	148	150	152	154
110	163	166	168	172	175	178	182	185	188	191	193	195	198	200	202	204	206	208	209
115	224	226	229	232	235	238	242	245	247	249	251	253	255	257	258	260	262	264	266
120	284	286	289	292	295	298	301	304	306	308	309	311	312	314	315	317	318	320	322
125	343	346	348	351	354	357	360	363	364	366	367	369	370	371	373	374	376	378	380
130	401	403	406	408	411	414	416	419	421	422	424	425	426	428	429	430	431	434	436
135	457	459	461	463	465	468	471	473	475	476	477	479	480	481	483	484	485	487	489
140	509	510	512	514	517	519	522	524	525	527	528	529	531	532	533	534	535	537	539
145	558	559	561	563	565	567	569	571	572	573	574	575	576	577	578	579	580	582	584
150	603	604	605	607	609	611	613	614	615	616	617	618	618	619	620	621	622	623	625
155	643	644	645	646	648	649	651	652	653	654	654	655	655	656	657	657	658	659	661
160	677	678	679	680	681	682	683	685	685	686	686	686	687	687	688	688	689	690	691
165	705	706	707	707	708	709	710	711	711	711	712	712	712	712	712	713	713	714	715
170	727	727	728	728	729	730	730	731	731	731	731	731	731	731	731	731	731	732	732
175	741	741	742	742	742	743	743	744	743	743	743	743	743	743	743	743	743	743	743
180	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746

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:0.4230A P:51.10W PF:0.9900 Freq:60.00Hz Lamp Flux:6290.52x1 lm																	
NAME: WL-21LSUD4FT50WB2D1HV-35K-3.7-WH									TYPE:35K 3.7						WEIGHT:		
SPEC.:									DIM.: 4FT						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	1531	1530	1529	1529	1528	1528	1528	1528	1529	1531	1532	1534	1536	1539	1542				
5	1521	1519	1517	1515	1513	1512	1511	1511	1512	1513	1514	1516	1518	1520	1523				
10	1496	1493	1489	1486	1484	1481	1479	1479	1479	1479	1480	1481	1483	1485	1488				
15	1455	1451	1447	1443	1439	1435	1432	1431	1430	1430	1430	1431	1433	1435	1437				
20	1401	1396	1390	1385	1380	1376	1372	1370	1369	1368	1368	1368	1369	1371	1373				
25	1335	1328	1322	1316	1310	1305	1300	1297	1295	1294	1294	1294	1295	1296	1298				
30	1257	1249	1242	1235	1229	1223	1217	1214	1212	1210	1209	1209	1209	1210	1212				
35	1169	1161	1153	1146	1139	1132	1126	1122	1119	1117	1116	1115	1115	1116	1117				
40	1073	1065	1056	1048	1041	1034	1027	1023	1020	1017	1015	1014	1014	1015	1016				
45	970	961	952	944	936	928	921	917	913	910	908	907	906	907	908				
50	860	851	842	833	825	817	810	805	801	798	795	794	793	792	793				
55	744	735	726	717	708	700	693	688	683	680	677	675	673	672	673				
60	624	614	604	595	586	577	569	564	559	555	552	549	548	547	547				
65	499	489	479	469	460	451	442	437	432	428	425	422	420	419	419				
70	371	361	351	341	331	322	313	308	303	299	295	293	291	290	290				
75	245	235	225	215	205	196	188	183	178	174	171	169	167	167	167				
80	127	118	110	102	93.8	86.4	79.6	75.2	71.5	68.6	66.5	65.0	64.3	64.4	65.2				
85	36.9	32.5	28.2	24.1	20.2	16.6	13.4	11.2	9.47	8.11	7.13	6.55	6.36	6.56	7.16				
90	3.30	4.03	4.84	5.70	6.57	7.44	8.25	8.57	8.80	8.96	9.04	9.04	8.96	8.80	8.57				
95	45.5	45.8	45.9	45.7	45.4	44.9	44.3	43.8	43.2	42.5	41.6	40.7	39.6	38.4	37.1				
100	100.0	101	102	102	102	102	102	102	101	100	99.1	97.8	96.2	94.4	92.3				
105	155	157	158	159	160	160	161	161	160	160	159	158	156	155	153				
110	211	213	214	215	216	217	218	218	218	217	217	216	215	214	213				
115	268	270	271	273	274	276	277	277	277	277	277	276	275	274	273				
120	325	327	329	331	332	334	335	336	336	336	336	335	334	333	332				
125	382	384	386	388	390	392	393	393	394	394	393	393	392	391	390				
130	438	440	442	444	445	447	448	449	449	449	449	448	448	447	445				
135	491	493	495	496	498	499	500	501	501	501	501	501	500	499	498				
140	541	542	544	545	547	548	549	550	550	550	550	550	549	549	548				
145	585	587	588	590	591	593	594	594	595	595	595	595	594	594	593				
150	626	628	629	631	632	633	634	635	635	636	636	635	635	635	634				
155	662	663	665	666	667	668	669	670	670	670	671	671	670	670	670				
160	692	693	694	695	696	697	698	699	699	700	700	700	700	699	699				
165	716	717	718	719	720	720	721	722	722	722	723	723	723	723	722				
170	733	734	735	735	736	737	738	738	738	738	739	739	739	739	738				
175	744	744	745	745	746	746	746	746	747	747	747	747	747	747	747				
180	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746				

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: