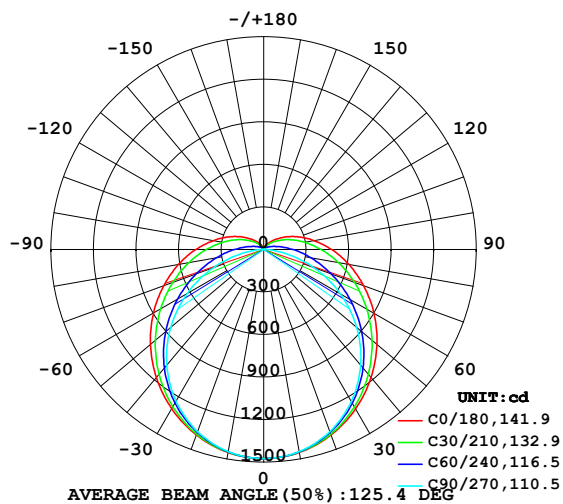


LUMINAIRE PHOTOMETRIC TEST REPORT

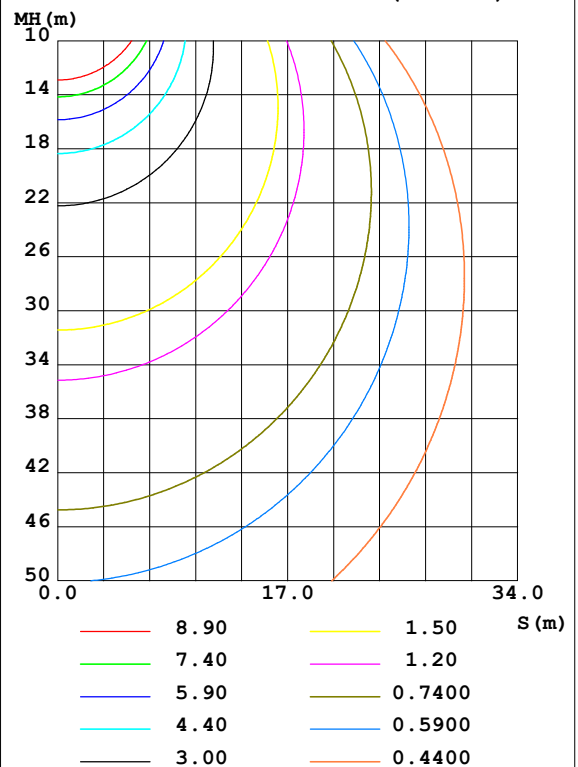
Test:U:230.4V I:0.1575A P:35.43W PF:0.9763 Freq:49.99Hz Lamp Flux:5719.2x1 lm		
NAME: Ti60L-CC-36-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 161.41 lm/W			
MODEL		I _{max} (cd)	1475	S/MH (C0/180)	1.31
NOMINAL POWER(W)	36	LOR(%)	100.0	S/MH (C90/270)	1.25
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	5719.2	η UP,DN(C0-180)	5.9,44.1
NOMINAL FLUX(lm)	5719.2	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	5.9,44.1
LAMPS INSIDE	1	η up (%)	11.8	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	230	η down (%)	88.2	CIBSE SHR MAX	1.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC
Test Date: 2020-04-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 53.0%
Test Distance: 10.380m [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	1453	1450	1447	1450	1453	1450	1447	1450	0- 10	139.6	139.6	2.44,2.44
20	1392	1379	1367	1379	1392	1379	1367	1379	10- 20	401.0	540.6	9.45,9.45
30	1297	1266	1237	1266	1297	1266	1237	1266	20- 30	612.1	1153	20.2,20.2
40	1178	1119	1064	1119	1178	1119	1064	1119	30- 40	749.3	1902	33.3,33.3
50	1043	951.3	856.8	951.3	1043	951.3	856.8	951.3	40- 50	801.0	2703	47.3,47.3
60	898.4	774.9	624.2	774.9	898.4	774.9	624.2	774.9	50- 60	769.4	3472	60.7,60.7
70	751.0	603.8	376.7	603.8	751.0	603.8	376.7	603.8	60- 70	669.3	4142	72.4,72.4
80	609.3	448.8	140.9	448.8	609.3	448.8	140.9	448.8	70- 80	526.7	4668	81.6,81.6
90	478.6	318.1	2.884	318.1	478.6	318.1	2.884	318.1	80- 90	378.3	5047	88.2,88.2
100	363.4	215.4	4.088	215.4	363.4	215.4	4.088	215.4	90-100	261.1	5308	92.8,92.8
110	263.5	134.6	5.676	134.6	263.5	134.6	5.676	134.6	100-110	174.2	5482	95.9,95.9
120	178.6	84.77	7.347	84.77	178.6	84.77	7.347	84.77	110-120	109.1	5591	97.8,97.8
130	112.6	47.40	8.965	47.40	112.6	47.40	8.965	47.40	120-130	62.91	5654	98.9,98.9
140	66.06	28.66	10.57	28.66	66.06	28.66	10.57	28.66	130-140	33.34	5687	99.4,99.4
150	37.29	19.69	12.21	19.69	37.29	19.69	12.21	19.69	140-150	17.12	5704	99.7,99.7
160	22.52	16.37	13.70	16.37	22.52	16.37	13.70	16.37	150-160	8.828	5713	99.9,99.9
170	16.19	15.15	14.57	15.15	16.19	15.15	14.57	15.15	160-170	4.492	5718	100,100
180	13.99	15.01	15.14	15.01	13.99	15.01	15.14	15.01	170-180	1.427	5719	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2301.4 lm

%lum = 40.2%

%lamp = 40.2%

Conical surface Flux(120deg): 3472.4 lm

%lum = 60.7%

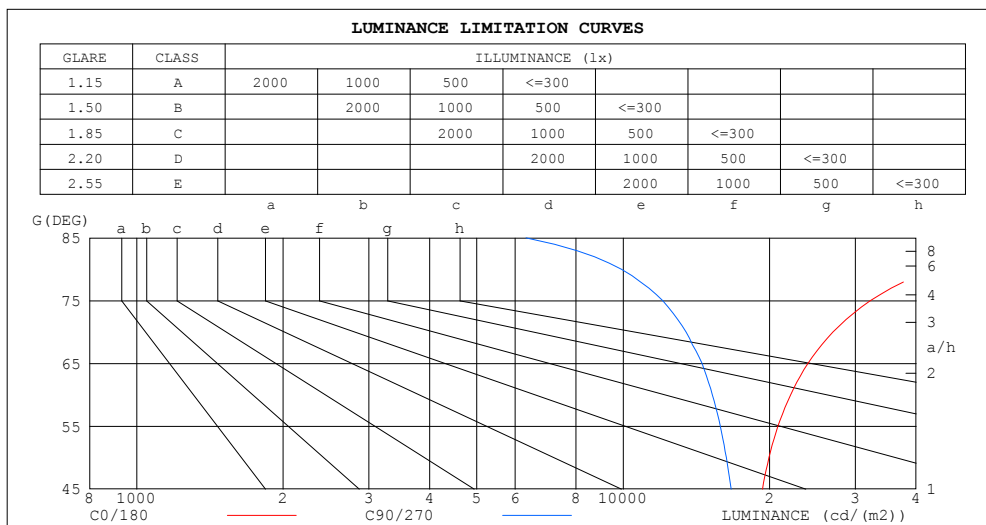
%lamp = 60.7%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:53.0%
 Test Distance:10.380m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.4V I:0.1575A P:35.43W PF:0.9763 Freq:49.99Hz Lamp Flux:5719.2x1 lm		
NAME: Ti60L-CC-36-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	76528	6309
80	43134	9920
75	32245	12052
70	26994	13461
65	23978	14519
60	22087	15258
55	20819	15832
50	19947	16292
45	19339	16669

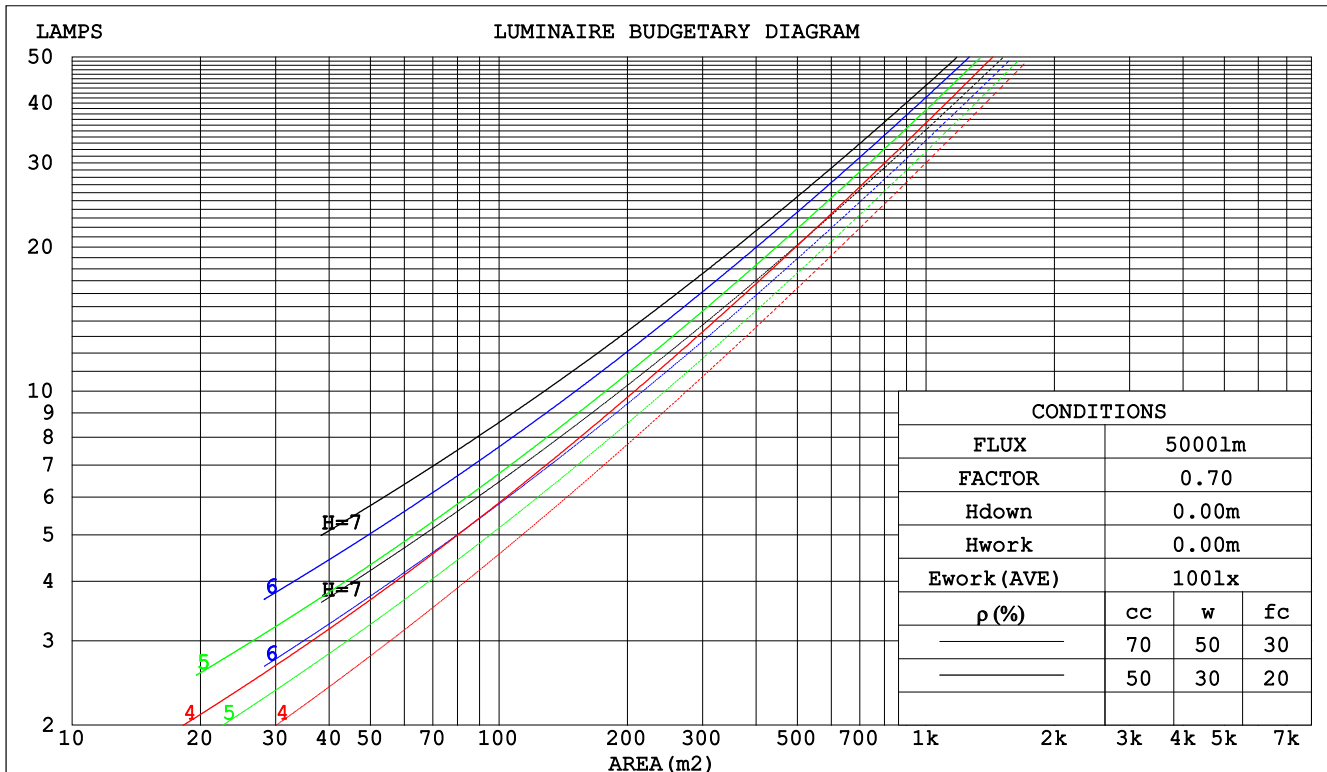
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC
Test Date: 2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 53.0%
Test Distance: 10.380m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.4V I:0.1575A P:35.43W PF:0.9763 Freq:49.99Hz Lamp Flux:5719.2x1 lm		
NAME: Ti60L-CC-36-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.16	1.16	1.16	1.12	1.12	1.12	1.05	1.05	1.05	.98	.98	.98	.91	.91	.91	.88
1.0	.98	.93	.88	.94	.90	.85	.88	.84	.80	.82	.79	.76	.76	.74	.72	.69
2.0	.84	.76	.70	.81	.74	.68	.75	.70	.65	.70	.66	.61	.66	.62	.58	.55
3.0	.73	.64	.57	.71	.62	.56	.66	.59	.53	.61	.56	.51	.57	.53	.48	.46
4.0	.64	.55	.48	.62	.53	.47	.58	.51	.45	.54	.48	.43	.51	.45	.41	.38
5.0	.57	.48	.41	.55	.47	.40	.52	.44	.38	.49	.42	.37	.46	.40	.35	.33
6.0	.51	.42	.35	.50	.41	.35	.47	.39	.33	.44	.37	.32	.41	.35	.31	.29
7.0	.46	.37	.31	.45	.36	.30	.42	.35	.29	.40	.33	.28	.38	.32	.27	.25
8.0	.42	.33	.27	.41	.33	.27	.39	.31	.26	.36	.30	.25	.34	.29	.24	.22
9.0	.39	.30	.25	.38	.30	.24	.35	.28	.23	.34	.27	.23	.32	.26	.22	.20
10.0	.36	.27	.22	.35	.27	.22	.33	.26	.21	.31	.25	.21	.29	.24	.20	.18



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:53.0%
 Test Distance:10.380m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:230.4V I:0.1575A P:35.43W PF:0.9763 Freq:49.99Hz Lamp Flux:5719.2x1 lm		
NAME: Ti60L-CC-36-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	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	.373	.212	.067	.362	.207	.066	.342	.196	.063	.323	.187	.060	.306	.178	.057		
2.0	.327	.179	.055	.317	.175	.054	.299	.166	.052	.282	.158	.050	.267	.151	.048		
3.0	.292	.156	.047	.284	.152	.046	.267	.145	.044	.252	.138	.042	.238	.132	.041		
4.0	.264	.137	.040	.256	.134	.040	.242	.128	.038	.228	.122	.037	.215	.117	.036		
5.0	.241	.123	.036	.234	.120	.035	.220	.115	.034	.208	.110	.033	.196	.105	.032		
6.0	.221	.111	.032	.215	.108	.031	.203	.104	.030	.191	.099	.029	.181	.095	.028		
7.0	.204	.101	.029	.198	.099	.028	.187	.095	.027	.177	.091	.026	.167	.087	.026		
8.0	.190	.093	.026	.184	.091	.026	.174	.087	.025	.165	.084	.024	.156	.080	.023		
9.0	.177	.086	.024	.172	.084	.024	.163	.081	.023	.154	.077	.022	.146	.074	.021		
10.0	.166	.079	.022	.161	.078	.022	.153	.075	.021	.145	.072	.020	.137	.069	.020		

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	.280	.280	.280	.239	.239	.239	.163	.163	.163	.094	.094	.094	.030	.030	.030	
1.0	.275	.246	.220	.235	.211	.189	.161	.145	.131	.093	.084	.076	.030	.027	.025	
2.0	.268	.223	.185	.229	.192	.160	.157	.133	.111	.091	.077	.065	.029	.025	.021	
3.0	.260	.206	.163	.223	.178	.141	.153	.123	.099	.088	.072	.058	.028	.023	.019	
4.0	.252	.193	.148	.217	.167	.128	.149	.116	.090	.086	.068	.054	.028	.022	.018	
5.0	.245	.183	.138	.210	.158	.120	.145	.111	.085	.084	.065	.050	.027	.021	.017	
6.0	.237	.175	.130	.204	.152	.114	.141	.106	.080	.082	.062	.048	.026	.020	.016	
7.0	.230	.168	.125	.198	.146	.109	.137	.102	.077	.079	.060	.046	.026	.020	.015	
8.0	.223	.163	.121	.192	.141	.106	.133	.099	.075	.077	.058	.045	.025	.019	.015	
9.0	.217	.158	.118	.187	.137	.103	.130	.096	.073	.076	.057	.044	.024	.019	.014	
10.0	.211	.154	.115	.182	.133	.101	.126	.094	.071	.074	.056	.043	.024	.018	.014	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:53.0%
 Test Distance:10.380m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.4V I:0.1575A P:35.43W PF:0.9763 Freq:49.99Hz Lamp Flux:5719.2x1 lm										
NAME: Ti60L-CC-36-1200K-40H					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: ERVAN					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	16.9	18.3	17.3	18.7	19.2	15.3	16.8	15.8	17.2	17.6
3H	19.4	20.7	19.8	21.1	21.6	16.8	18.1	17.3	18.6	19.1
4H	20.7	22.0	21.2	22.4	22.9	17.4	18.6	17.8	19.1	19.6
6H	22.2	23.4	22.7	23.9	24.4	17.7	18.9	18.2	19.4	19.9
8H	23.0	24.2	23.5	24.7	25.2	17.8	19.0	18.4	19.5	20.0
12H	24.0	25.1	24.5	25.6	26.1	17.9	19.0	18.4	19.5	20.0
4H 2H	17.5	18.7	17.9	19.2	19.7	16.3	17.6	16.8	18.0	18.5
3H	20.2	21.3	20.7	21.8	22.3	18.0	19.1	18.6	19.6	20.2
4H	21.7	22.7	22.3	23.3	23.8	18.8	19.8	19.3	20.3	20.9
6H	23.4	24.3	24.0	24.9	25.5	19.3	20.2	19.9	20.8	21.4
8H	24.4	25.2	25.0	25.8	26.4	19.5	20.4	20.1	20.9	21.6
12H	25.5	26.3	26.1	26.8	27.5	19.6	20.4	20.2	21.0	21.6
8H 4H	22.1	22.9	22.6	23.5	24.1	19.7	20.5	20.3	21.1	21.7
6H	24.1	24.8	24.7	25.4	26.1	20.6	21.3	21.2	21.9	22.6
8H	25.2	25.9	25.9	26.5	27.2	21.0	21.6	21.6	22.2	22.9
12H	26.6	27.1	27.2	27.8	28.5	21.2	21.8	21.9	22.5	23.2
12H 4H	22.1	22.9	22.7	23.5	24.1	20.0	20.7	20.6	21.3	22.0
6H	24.2	24.8	24.8	25.4	26.1	21.1	21.7	21.7	22.4	23.1
8H	25.4	26.0	26.1	26.7	27.4	21.6	22.2	22.3	22.8	23.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117, 5719 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 6.1$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.4V I:0.1575A P:35.43W PF:0.9763 Freq:49.99Hz Lamp Flux:5719.2x1 lm		
NAME: Ti60L-CC-36-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

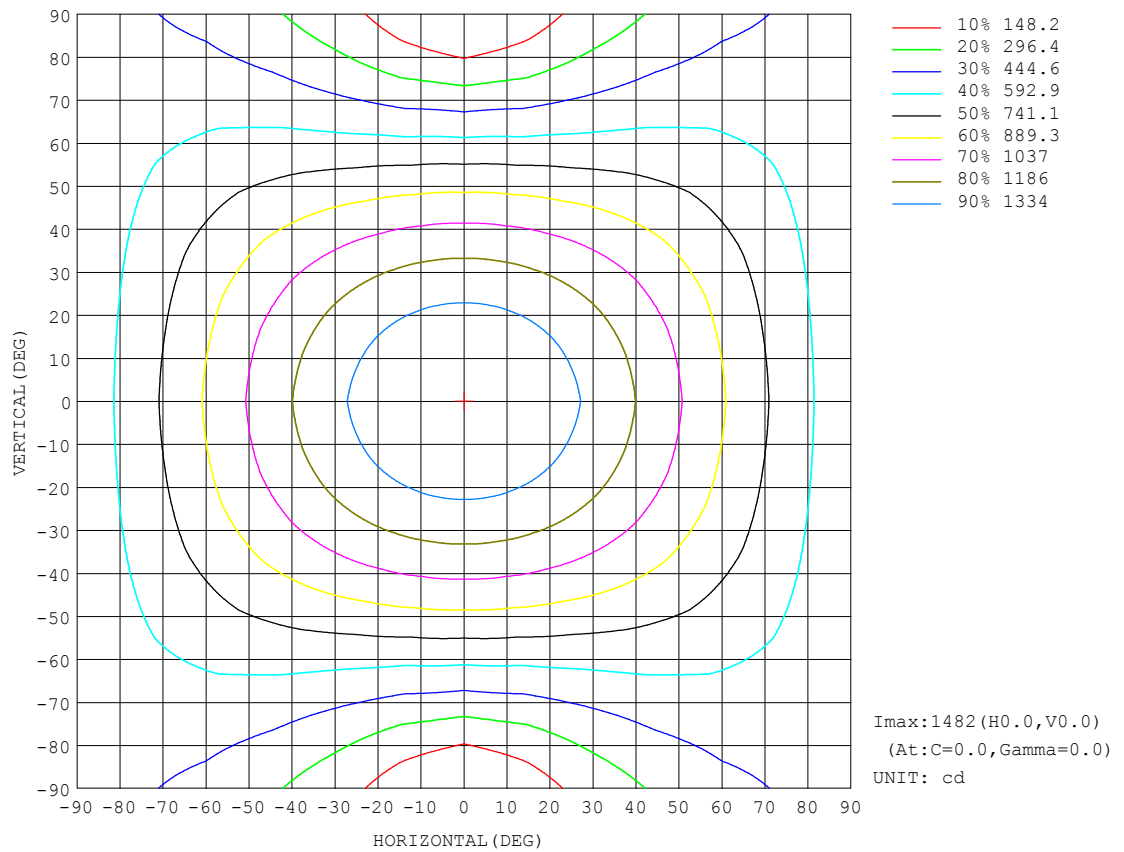
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	51	38	31	50	38	31	48	37	31	24
0.80	60	47	39	59	47	39	56	45	38	31
1.00	68	55	47	66	54	47	63	55	46	38
1.25	75	63	54	73	61	54	69	59	52	44
1.50	80	68	60	77	67	59	73	64	57	48
2.00	87	76	68	84	75	67	79	71	65	55
2.50	91	82	74	88	80	73	83	76	70	59
3.00	95	86	79	92	84	77	86	80	74	62
4.00	99	92	86	96	89	84	90	84	80	67
5.00	102	96	90	99	93	88	92	88	83	70
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: QC
 Test Date: 2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 53.0%
 Test Distance: 10.380m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.4V I:0.1575A P:35.43W PF:0.9763 Freq:49.99Hz Lamp Flux:5719.2x1 lm		
NAME: Ti60L-CC-36-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

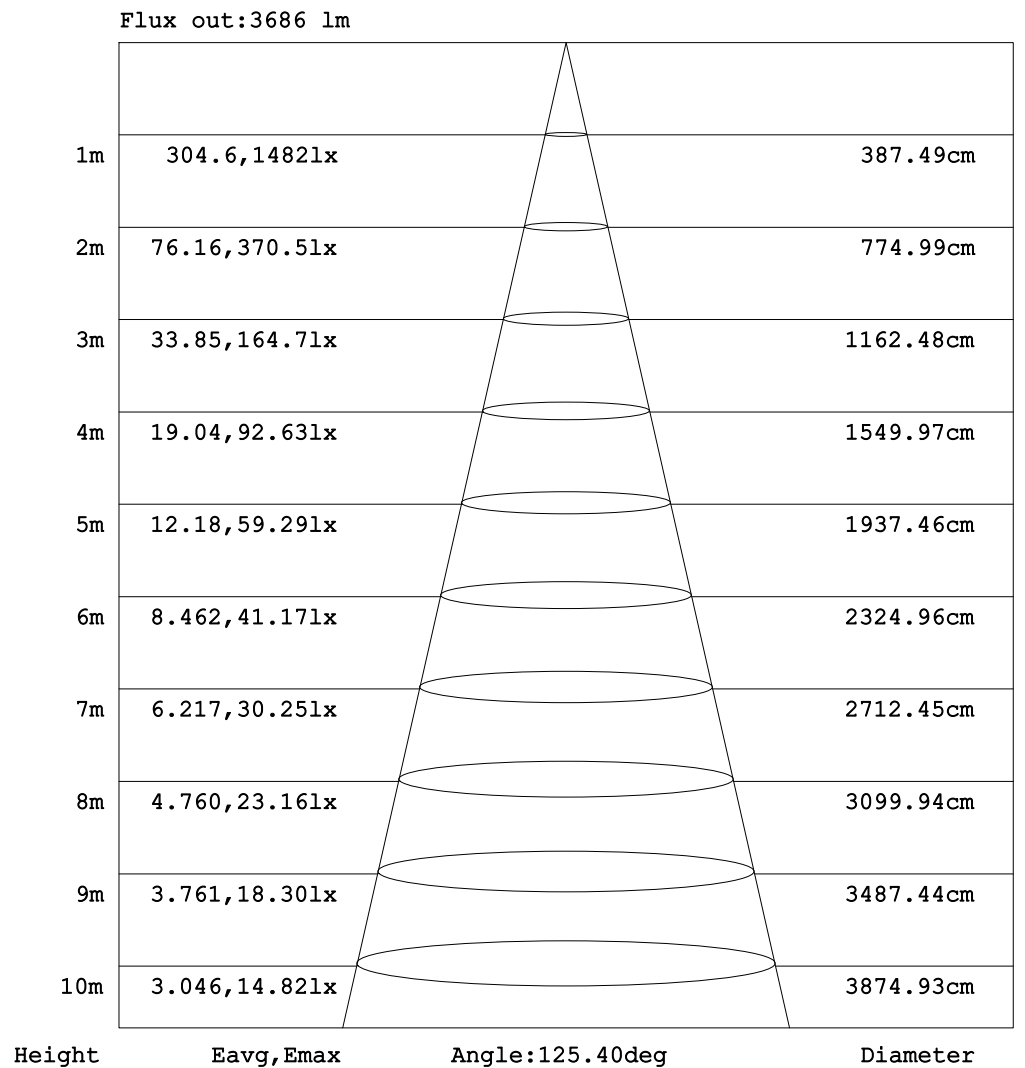


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.4V I:0.1575A P:35.43W PF:0.9763 Freq:49.99Hz Lamp Flux:5719.2x1 lm		
NAME: Ti60L-CC-36-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



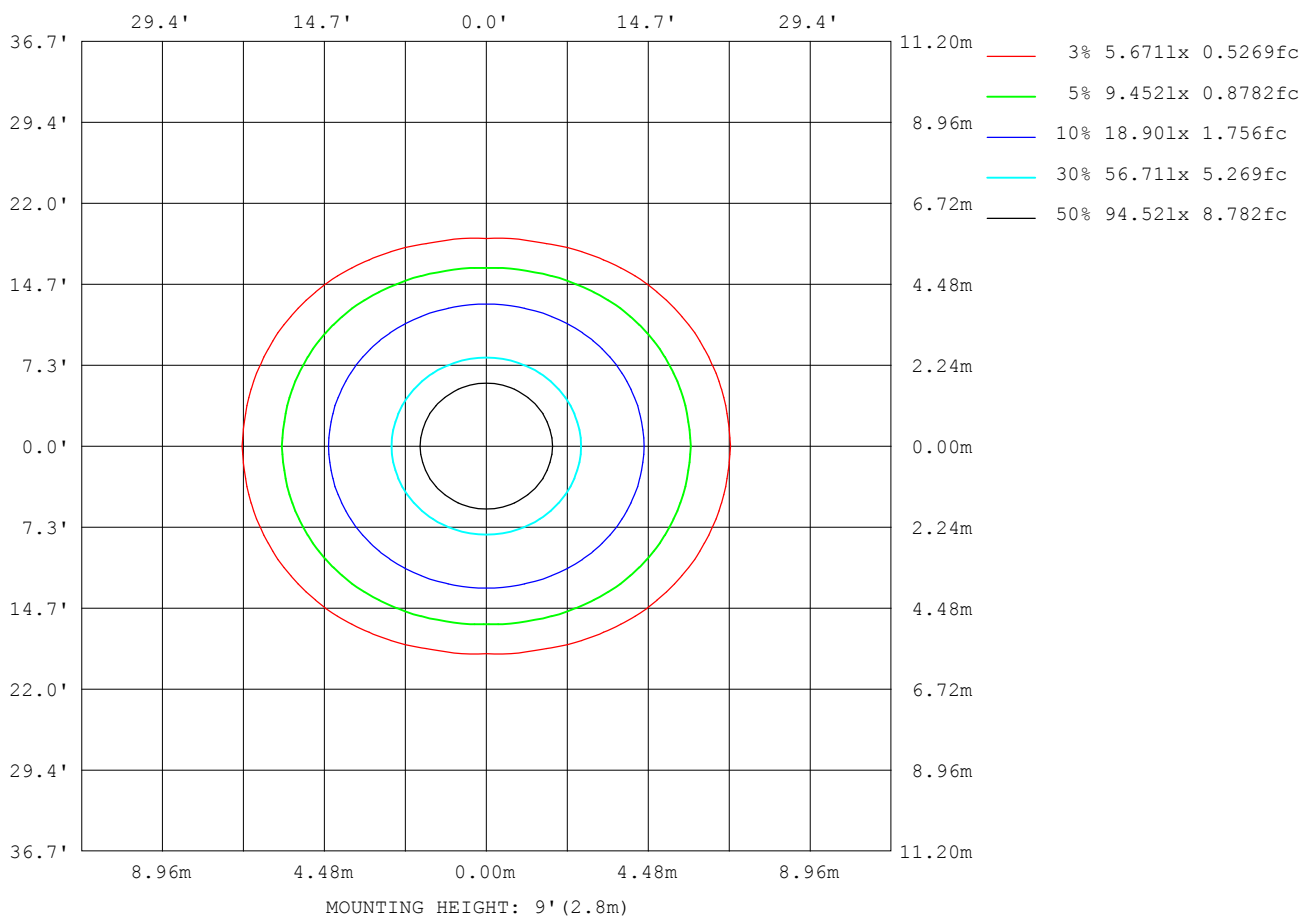
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 53.0%
 Test Distance: 10.380m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:230.4V I:0.1575A P:35.43W PF:0.9763 Freq:49.99Hz Lamp Flux:5719.2x1 lm		
NAME: Ti60L-CC-36-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-04-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:230.4V I:0.1575A P:35.43W PF:0.9763 Freq:49.99Hz Lamp Flux:5719.2x1 lm		
NAME: Ti60L-CC-36-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

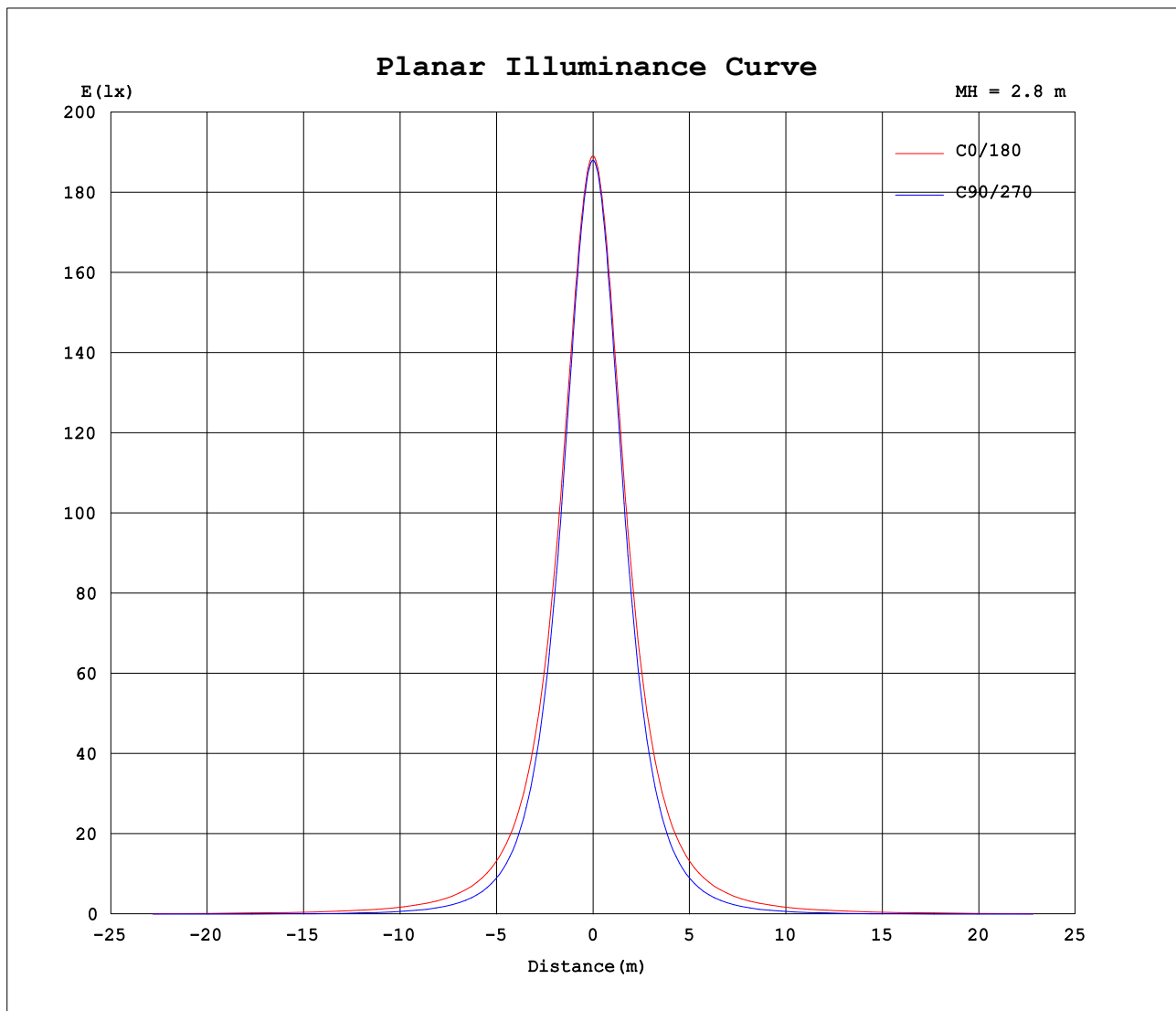
AvgL	cd/m2
L_0~180 (65) av	23857
L_0~180 (75) av	32082
L_0~180 (85) av	76142
L_90~270 (65) av	14529
L_90~270 (75) av	12060
L_90~270 (85) av	6313
L_45 (65) av	19907
L_45 (75) av	24757
L_45 (85) av	53292

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:53.0%
 Test Distance:10.380m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC
Test Date: 2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 53.0%
Test Distance: 10.380m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.4V I:0.1575A P:35.43W PF:0.9763 Freq:49.99Hz Lamp Flux:5719.2x1 lm																		
NAME: Ti60L-CC-36-1200K-40H									TYPE:					WEIGHT:				
SPEC.:									DIM.:					SERIAL No.:				
MFR.: ERVAN									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	1475	1475	1475	1475	1475	1475	1475	1475	1475	1475	1475	1475	1475	1475	1475	1475	1475	1475	1475
5	1469	1469	1469	1469	1468	1468	1468	1468	1468	1469	1469	1469	1469	1469	1469	1469	1468	1468	1468
10	1453	1453	1452	1450	1449	1448	1447	1448	1449	1450	1452	1453	1453	1453	1452	1450	1449	1448	1447
15	1427	1426	1424	1420	1417	1414	1414	1414	1417	1420	1424	1426	1427	1426	1424	1420	1417	1414	1414
20	1392	1390	1385	1379	1373	1368	1367	1368	1373	1379	1385	1390	1392	1390	1385	1379	1373	1368	1367
25	1348	1345	1338	1327	1317	1310	1308	1310	1317	1327	1338	1345	1348	1345	1338	1327	1317	1310	1308
30	1297	1293	1282	1266	1251	1241	1237	1241	1251	1266	1282	1293	1297	1293	1282	1266	1251	1241	1237
35	1240	1234	1218	1196	1175	1161	1156	1161	1175	1196	1218	1234	1240	1234	1218	1196	1175	1161	1156
40	1178	1170	1149	1119	1091	1071	1064	1071	1091	1119	1149	1170	1178	1170	1149	1119	1091	1071	1064
45	1112	1102	1075	1037	999	973	964	973	999	1037	1075	1102	1112	1102	1075	1037	999	973	964
50	1043	1030	998	951	903	869	857	869	903	951	998	1030	1043	1030	998	951	903	869	857
55	971	957	919	863	803	758	743	758	803	863	919	957	971	957	919	863	803	758	743
60	898	882	839	775	702	645	624	645	702	775	839	882	898	882	839	775	702	645	624
65	824	807	760	688	603	530	502	530	603	688	760	807	824	807	760	688	603	530	502
70	751	732	682	604	508	416	377	416	508	604	682	732	751	732	682	604	508	416	377
75	679	660	607	524	417	309	255	309	417	524	607	660	679	660	607	524	417	309	255
80	609	590	536	449	337	214	141	214	337	449	536	590	609	590	536	449	337	214	141
85	543	523	467	380	266	138	45.0	138	266	380	467	523	543	523	467	380	266	138	45.0
90	479	459	405	318	206	82.9	2.88	82.9	206	318	405	459	479	459	405	318	206	82.9	2.88
95	419	400	347	263	157	49.3	3.40	49.3	157	263	347	400	419	400	347	263	157	49.3	3.40
100	363	345	295	215	118	29.7	4.09	29.7	118	215	295	345	363	345	295	215	118	29.7	4.09
105	312	294	247	174	87.0	20.7	4.87	20.7	87.0	174	247	294	312	294	247	174	87.0	20.7	4.87
110	264	247	204	135	65.9	16.1	5.68	16.1	65.9	135	204	247	264	247	204	135	65.9	16.1	5.68
115	219	204	166	108	49.9	13.6	6.51	13.6	49.9	108	166	204	219	204	166	108	49.9	13.6	6.51
120	179	166	129	84.8	37.7	12.2	7.35	12.2	37.7	84.8	129	166	179	166	129	84.8	37.7	12.2	7.35
125	143	132	104	63.2	29.2	11.7	8.16	11.7	29.2	63.2	104	132	143	132	104	63.2	29.2	11.7	8.16
130	113	102	78.9	47.4	23.6	11.6	8.97	11.6	23.6	47.4	78.9	102	113	102	78.9	47.4	23.6	11.6	8.97
135	86.9	77.8	58.8	36.4	20.0	11.8	9.77	11.8	20.0	36.4	58.8	77.8	86.9	77.8	58.8	36.4	20.0	11.8	9.77
140	66.1	60.1	43.5	28.7	17.7	12.1	10.6	12.1	17.7	28.7	43.5	60.1	66.1	60.1	43.5	28.7	17.7	12.1	10.6
145	49.7	45.2	32.7	23.3	16.2	12.6	11.4	12.6	16.2	23.3	32.7	45.2	49.7	45.2	32.7	23.3	16.2	12.6	11.4
150	37.3	32.5	25.4	19.7	15.5	13.1	12.2	13.1	15.5	19.7	25.4	32.5	37.3	32.5	25.4	19.7	15.5	13.1	12.2
155	28.5	24.4	20.7	17.5	15.2	13.7	13.0	13.7	15.2	17.5	20.7	24.4	28.5	24.4	20.7	17.5	15.2	13.7	13.0
160	22.5	19.2	17.7	16.4	15.2	14.1	13.7	14.1	15.2	16.4	17.7	19.2	22.5	19.2	17.7	16.4	15.2	14.1	13.7
165	18.6	16.5	16.0	15.7	15.0	14.5	14.2	14.5	15.0	15.7	16.0	16.5	18.6	16.5	16.0	15.7	15.0	14.5	14.2
170	16.2	15.0	15.3	15.2	15.0	14.7	14.6	14.7	15.0	15.2	15.3	15.0	16.2	15.0	15.3	15.2	15.0	14.7	14.6
175	13.9	14.6	15.0	15.0	15.1	15.1	14.9	15.1	15.1	15.0	15.0	14.6	13.9	14.6	15.0	15.0	15.1	15.1	14.9
180	14.0	14.7	15.1	15.0	15.2	15.2	15.1	15.2	15.2	15.0	15.1	14.7	14.0	14.7	15.1	15.0	15.2	15.2	15.1

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-04-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.4V I:0.1575A P:35.43W PF:0.9763 Freq:49.99Hz Lamp Flux:5719.2x1 lm		
NAME: Ti60L-CC-36-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345													
0	1475	1475	1475	1475	1475													
5	1468	1468	1469	1469	1469													
10	1448	1449	1450	1452	1453													
15	1414	1417	1420	1424	1426													
20	1368	1373	1379	1385	1390													
25	1310	1317	1327	1338	1345													
30	1241	1251	1266	1282	1293													
35	1161	1175	1196	1218	1234													
40	1071	1091	1119	1149	1170													
45	973	999	1037	1075	1102													
50	869	903	951	998	1030													
55	758	803	863	919	957													
60	645	702	775	839	882													
65	530	603	688	760	807													
70	416	508	604	682	732													
75	309	417	524	607	660													
80	214	337	449	536	590													
85	138	266	380	467	523													
90	82.9	206	318	405	459													
95	49.3	157	263	347	400													
100	29.7	118	215	295	345													
105	20.7	87.0	174	247	294													
110	16.1	65.9	135	204	247													
115	13.6	49.9	108	166	204													
120	12.2	37.7	84.8	129	166													
125	11.7	29.2	63.2	104	132													
130	11.6	23.6	47.4	78.9	102													
135	11.8	20.0	36.4	58.8	77.8													
140	12.1	17.7	28.7	43.5	60.1													
145	12.6	16.2	23.3	32.7	45.2													
150	13.1	15.5	19.7	25.4	32.5													
155	13.7	15.2	17.5	20.7	24.4													
160	14.1	15.2	16.4	17.7	19.2													
165	14.5	15.0	15.7	16.0	16.5													
170	14.7	15.0	15.2	15.3	15.0													
175	15.1	15.1	15.0	15.0	14.6													
180	15.2	15.2	15.0	15.1	14.7													

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:53.0%
 Test Distance:10.380m [K=1.0000]
 Remarks:

Photometric Data Table [cd]

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	1475	1475	1475	1475	1475	1475	1475	1475	1475	1475
3.0	1473	1473	1473	1473	1472	1472	1472	1472	1472	1473
6.0	1467	1467	1466	1466	1465	1465	1465	1465	1465	1466
9.0	1457	1457	1456	1455	1454	1453	1453	1453	1454	1455
12.0	1444	1443	1442	1440	1438	1436	1435	1436	1438	1440
15.0	1427	1426	1424	1420	1417	1414	1414	1414	1417	1420
18.0	1407	1405	1402	1397	1392	1388	1387	1388	1392	1397
21.0	1384	1382	1377	1370	1362	1358	1356	1358	1362	1370
24.0	1357	1355	1348	1338	1329	1323	1320	1323	1329	1338
27.0	1328	1325	1316	1304	1292	1284	1281	1284	1292	1304
30.0	1297	1293	1282	1266	1251	1241	1237	1241	1251	1266
33.0	1264	1258	1244	1225	1207	1194	1189	1194	1207	1225
36.0	1228	1221	1205	1181	1159	1143	1138	1143	1159	1181
39.0	1191	1183	1163	1135	1108	1090	1083	1090	1108	1135
42.0	1152	1143	1120	1087	1055	1033	1025	1033	1055	1087
45.0	1112	1102	1075	1037	999.3	973.2	964.3	973.2	999.3	1037
48.0	1071	1059	1029	985.9	942.1	911.3	900.7	911.3	942.1	985.9
51.0	1029	1016	982.4	933.8	883.2	847.0	834.6	847.0	883.2	933.8
54.0	985.9	971.8	935.0	881.1	823.3	780.9	766.3	780.9	823.3	881.1
57.0	942.3	927.1	887.3	828.0	762.7	713.3	696.0	713.3	762.7	828.0
60.0	898.4	882.2	839.3	774.9	702.3	644.8	624.2	644.8	702.3	774.9
63.0	854.0	837.1	791.7	722.5	642.6	576.0	551.2	576.0	642.6	722.5
66.0	809.7	792.0	744.3	670.8	583.7	507.2	476.6	507.2	583.7	670.8
69.0	765.5	747.1	697.6	620.3	526.3	438.7	401.4	438.7	526.3	620.3
72.0	721.9	703.0	651.8	571.2	470.6	371.8	327.5	371.8	470.6	571.2
75.0	678.9	659.7	607.3	523.9	417.5	309.3	255.2	309.3	417.5	523.9
78.0	636.8	617.3	563.8	478.4	367.6	250.7	184.8	250.7	367.6	478.4
81.0	595.7	575.9	521.8	434.6	321.6	197.2	119.8	197.2	321.6	434.6
84.0	555.5	535.8	481.2	392.8	279.2	151.3	61.82	151.3	279.2	392.8
87.0	516.9	496.8	442.2	354.3	240.5	112.8	17.92	112.8	240.5	354.3
90.0	478.6	459.1	404.8	318.1	205.7	82.93	2.884	82.93	205.7	318.1
93.0	442.0	423.3	369.4	284.6	175.1	60.71	3.150	60.71	175.1	284.6
96.0	407.4	388.0	336.2	253.3	148.4	44.50	3.516	44.50	148.4	253.3
99.0	374.3	355.5	304.8	224.5	125.3	32.67	3.947	32.67	125.3	224.5
102.0	342.2	324.0	275.0	197.9	105.1	25.43	4.392	25.43	105.1	197.9
105.0	311.6	294.0	246.6	173.8	86.98	20.68	4.867	20.68	86.98	173.8
108.0	282.3	265.3	220.4	151.8	74.04	17.52	5.347	17.52	74.04	151.8
111.0	254.3	238.0	195.7	128.9	62.07	15.48	5.842	15.48	62.07	128.9
114.0	227.8	212.5	172.8	113.8	52.63	14.02	6.346	14.02	52.63	113.8
117.0	202.6	188.1	151.3	97.29	44.53	12.90	6.850	12.90	44.53	97.29
120.0	178.6	165.8	129.3	84.77	37.68	12.23	7.347	12.23	37.68	84.77
123.0	156.8	145.1	113.6	71.27	32.18	11.85	7.838	11.85	32.18	71.27
126.0	136.7	126.1	98.82	59.52	27.85	11.67	8.329	11.67	27.85	59.52
129.0	118.4	108.3	83.96	50.15	24.50	11.63	8.804	11.63	24.50	50.15
132.0	101.8	91.87	69.74	42.52	21.94	11.68	9.281	11.68	21.94	42.52
135.0	86.94	77.84	58.77	36.42	19.96	11.82	9.772	11.82	19.96	36.42
138.0	73.81	66.53	48.97	31.45	18.45	11.99	10.25	11.99	18.45	31.45
141.0	62.46	56.88	40.95	27.43	17.32	12.20	10.72	12.20	17.32	27.43
144.0	52.66	48.02	34.53	24.23	16.45	12.49	11.22	12.49	16.45	24.23
147.0	44.27	39.37	29.40	21.69	15.80	12.79	11.71	12.79	15.80	21.69
150.0	37.29	32.51	25.42	19.69	15.46	13.12	12.21	13.12	15.46	19.69
153.0	31.64	27.24	22.39	18.18	15.27	13.45	12.70	13.45	15.27	18.18
156.0	27.13	23.19	20.01	17.19	15.16	13.77	13.15	13.77	15.16	17.19
159.0	23.53	20.06	18.20	16.55	15.15	14.05	13.57	14.05	15.15	16.55
162.0	20.76	17.69	16.85	16.02	15.10	14.29	13.92	14.29	15.10	16.02
165.0	18.64	16.47	16.00	15.67	15.05	14.48	14.21	14.48	15.05	15.67
168.0	17.08	15.47	15.57	15.33	14.98	14.64	14.43	14.64	14.98	15.33
171.0	15.88	14.84	15.24	15.09	14.98	14.79	14.66	14.79	14.98	15.09
174.0	14.11	14.59	15.09	15.00	15.10	15.03	14.88	15.03	15.10	15.00
177.0	13.78	14.56	14.96	14.96	15.15	15.14	15.02	15.14	15.15	14.96
180.0	13.99	14.74	15.06	15.01	15.23	15.24	15.14	15.24	15.23	15.01
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	1475	1475	1475	1475	1475	1475	1475	1475	1475	1475
3.0	1473	1473	1473	1473	1473	1473	1472	1472	1472	1472
6.0	1466	1467	1467	1467	1466	1466	1465	1465	1465	1465
9.0	1456	1457	1457	1457	1456	1455	1454	1453	1453	1453
12.0	1442	1443	1444	1443	1442	1440	1438	1436	1435	1436
15.0	1424	1426	1427	1426	1424	1420	1417	1414	1414	1414
18.0	1402	1405	1407	1405	1402	1397	1392	1388	1387	1388
21.0	1377	1382	1384	1382	1377	1370	1362	1358	1356	1358
24.0	1348	1355	1357	1355	1348	1338	1329	1323	1320	1323
27.0	1316	1325	1328	1325	1316	1304	1292	1284	1281	1284
30.0	1282	1293	1297	1293	1282	1266	1251	1241	1237	1241

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 53.0%
 Test Distance: 10.380m [K=1.0000]
 Remarks:

Photometric Data Table [cd]

33.0	1244	1258	1264	1258	1244	1225	1207	1194	1189	1194
36.0	1205	1221	1228	1221	1205	1181	1159	1143	1138	1143
39.0	1163	1183	1191	1183	1163	1135	1108	1090	1083	1090
42.0	1120	1143	1152	1143	1120	1087	1055	1033	1025	1033
45.0	1075	1102	1112	1102	1075	1037	999.3	973.2	964.3	973.2
48.0	1029	1059	1071	1059	1029	985.9	942.1	911.3	900.7	911.3
51.0	982.4	1016	1029	1016	982.4	933.8	883.2	847.0	834.6	847.0
54.0	935.0	971.8	985.9	971.8	935.0	881.1	823.3	780.9	766.3	780.9
57.0	887.3	927.1	942.3	927.1	887.3	828.0	762.7	713.3	696.0	713.3
60.0	839.3	882.2	898.4	882.2	839.3	774.9	702.3	644.8	624.2	644.8
63.0	791.7	837.1	854.0	837.1	791.7	722.5	642.6	576.0	551.2	576.0
66.0	744.3	792.0	809.7	792.0	744.3	670.8	583.7	507.2	476.6	507.2
69.0	697.6	747.1	765.5	747.1	697.6	620.3	526.3	438.7	401.4	438.7
72.0	651.8	703.0	721.9	703.0	651.8	571.2	470.6	371.8	327.5	371.8
75.0	607.3	659.7	678.9	659.7	607.3	523.9	417.5	309.3	255.2	309.3
78.0	563.8	617.3	636.8	617.3	563.8	478.4	367.6	250.7	184.8	250.7
81.0	521.8	575.9	595.7	575.9	521.8	434.6	321.6	197.2	119.8	197.2
84.0	481.2	535.8	555.5	535.8	481.2	392.8	279.2	151.3	61.82	151.3
87.0	442.2	496.8	516.9	496.8	442.2	354.3	240.5	112.8	17.92	112.8
90.0	404.8	459.1	478.6	459.1	404.8	318.1	205.7	82.93	2.884	82.93
93.0	369.4	423.3	442.0	423.3	369.4	284.6	175.1	60.71	3.150	60.71
96.0	336.2	388.0	407.4	388.0	336.2	253.3	148.4	44.50	3.516	44.50
99.0	304.8	355.5	374.3	355.5	304.8	224.5	125.3	32.67	3.947	32.67
102.0	275.0	324.0	342.2	324.0	275.0	197.9	105.1	25.43	4.392	25.43
105.0	246.6	294.0	311.6	294.0	246.6	173.8	86.98	20.68	4.867	20.68
108.0	220.4	265.3	282.3	265.3	220.4	151.8	74.04	17.52	5.347	17.52
111.0	195.7	238.0	254.3	238.0	195.7	128.9	62.07	15.48	5.842	15.48
114.0	172.8	212.5	227.8	212.5	172.8	113.8	52.63	14.02	6.346	14.02
117.0	151.3	188.1	202.6	188.1	151.3	97.29	44.53	12.90	6.850	12.90
120.0	129.3	165.8	178.6	165.8	129.3	84.77	37.68	12.23	7.347	12.23
123.0	113.6	145.1	156.8	145.1	113.6	71.27	32.18	11.85	7.838	11.85
126.0	98.82	126.1	136.7	126.1	98.82	59.52	27.85	11.67	8.329	11.67
129.0	83.96	108.3	118.4	108.3	83.96	50.15	24.50	11.63	8.804	11.63
132.0	69.74	91.87	101.8	91.87	69.74	42.52	21.94	11.68	9.281	11.68
135.0	58.77	77.84	86.94	77.84	58.77	36.42	19.96	11.82	9.772	11.82
138.0	48.97	66.53	73.81	66.53	48.97	31.45	18.45	11.99	10.25	11.99
141.0	40.95	56.88	62.46	56.88	40.95	27.43	17.32	12.20	10.72	12.20
144.0	34.53	48.02	52.66	48.02	34.53	24.23	16.45	12.49	11.22	12.49
147.0	29.40	39.37	44.27	39.37	29.40	21.69	15.80	12.79	11.71	12.79
150.0	25.42	32.51	37.29	32.51	25.42	19.69	15.46	13.12	12.21	13.12
153.0	22.39	27.24	31.64	27.24	22.39	18.18	15.27	13.45	12.70	13.45
156.0	20.01	23.19	27.13	23.19	20.01	17.19	15.16	13.77	13.15	13.77
159.0	18.20	20.06	23.53	20.06	18.20	16.55	15.15	14.05	13.57	14.05
162.0	16.85	17.69	20.76	17.69	16.85	16.02	15.10	14.29	13.92	14.29
165.0	16.00	16.47	18.64	16.47	16.00	15.67	15.05	14.48	14.21	14.48
168.0	15.57	15.47	17.08	15.47	15.57	15.33	14.98	14.64	14.43	14.64
171.0	15.24	14.84	15.88	14.84	15.24	15.09	14.98	14.79	14.66	14.79
174.0	15.09	14.59	14.11	14.59	15.09	15.00	15.10	15.03	14.88	15.03
177.0	14.99	14.56	13.78	14.56	14.99	14.96	15.15	15.14	15.02	15.14
180.0	15.06	14.74	13.99	14.74	15.06	15.01	15.23	15.24	15.14	15.24
G/C	300.0	315.0	330.0	345.0						
0.0	1475	1475	1475	1475						
3.0	1472	1473	1473	1473						
6.0	1465	1466	1466	1467						
9.0	1454	1455	1456	1457						
12.0	1438	1440	1442	1443						
15.0	1417	1420	1424	1426						
18.0	1392	1397	1402	1405						
21.0	1362	1370	1377	1382						
24.0	1329	1338	1348	1355						
27.0	1292	1304	1316	1325						
30.0	1251	1266	1282	1293						
33.0	1207	1225	1244	1258						
36.0	1159	1181	1205	1221						
39.0	1108	1135	1163	1183						
42.0	1055	1087	1120	1143						
45.0	999.3	1037	1075	1102						
48.0	942.1	985.9	1029	1059						
51.0	883.2	933.8	982.4	1016						
54.0	823.3	881.1	935.0	971.8						
57.0	762.7	828.0	887.3	927.1						
60.0	702.3	774.9	839.3	882.2						
63.0	642.6	722.5	791.7	837.1						
66.0	583.7	670.8	744.3	792.0						

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 53.0%
 Test Distance: 10.380m [K=1.0000]
 Remarks:

Photometric Data Table [cd]

69.0	526.3	620.3	697.6	747.1
72.0	470.6	571.2	651.8	703.0
75.0	417.5	523.9	607.3	659.7
78.0	367.6	478.4	563.8	617.3
81.0	321.6	434.6	521.8	575.9
84.0	279.2	392.8	481.2	535.8
87.0	240.5	354.3	442.2	496.8
90.0	205.7	318.1	404.8	459.1
93.0	175.1	284.6	369.4	423.3
96.0	148.4	253.3	336.2	388.0
99.0	125.3	224.5	304.8	355.5
102.0	105.1	197.9	275.0	324.0
105.0	86.98	173.8	246.6	294.0
108.0	74.04	151.8	220.4	265.3
111.0	62.07	128.9	195.7	238.0
114.0	52.63	113.8	172.8	212.5
117.0	44.53	97.29	151.3	188.1
120.0	37.68	84.77	129.3	165.8
123.0	32.18	71.27	113.6	145.1
126.0	27.85	59.52	98.82	126.1
129.0	24.50	50.15	83.96	108.3
132.0	21.94	42.52	69.74	91.87
135.0	19.96	36.42	58.77	77.84
138.0	18.45	31.45	48.97	66.53
141.0	17.32	27.43	40.95	56.88
144.0	16.45	24.23	34.53	48.02
147.0	15.80	21.69	29.40	39.37
150.0	15.46	19.69	25.42	32.51
153.0	15.27	18.18	22.39	27.24
156.0	15.16	17.19	20.01	23.19
159.0	15.15	16.55	18.20	20.06
162.0	15.10	16.02	16.85	17.69
165.0	15.05	15.67	16.00	16.47
168.0	14.98	15.33	15.57	15.47
171.0	14.98	15.09	15.24	14.84
174.0	15.10	15.00	15.09	14.59
177.0	15.15	14.96	14.99	14.56
180.0	15.23	15.01	15.06	14.74

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 53.0%
 Test Distance: 10.380m [K=1.0000]
 Remarks: