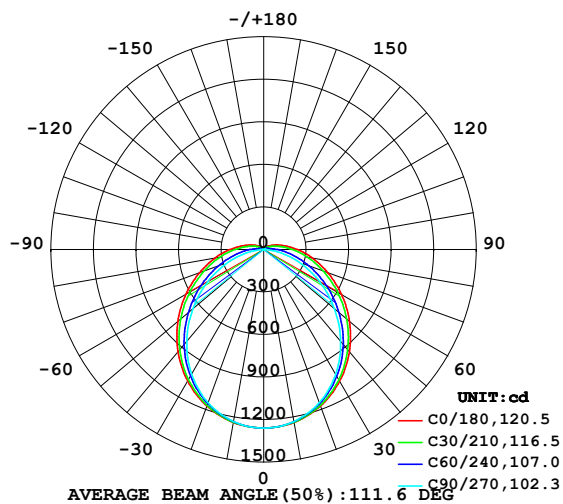


LUMINAIRE PHOTOMETRIC TEST REPORT

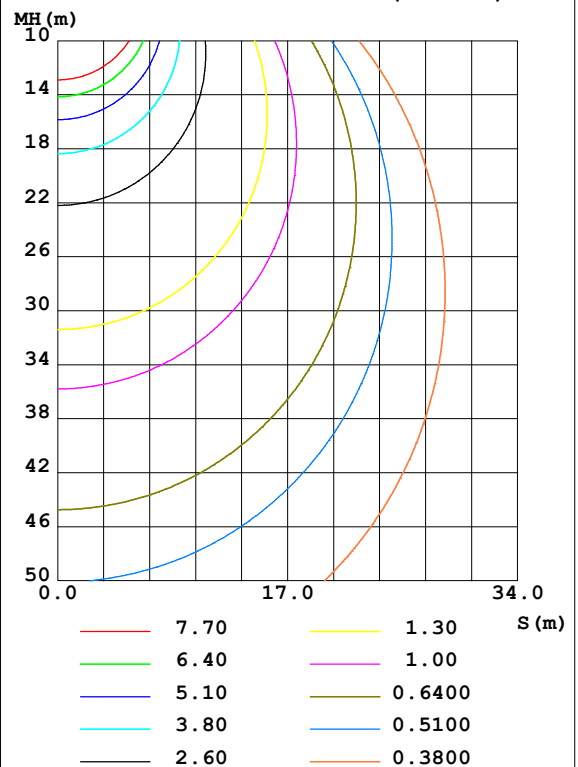
Test:U:230.5V I:0.1084A P:23.70W PF:0.9488 Freq:49.99Hz Lamp Flux:4052.04x1 lm		
NAME: T602-24W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 170.95 lm/W			
MODEL		I _{max} (cd)	1260	S/MH (C0/180)	1.27
NOMINAL POWER (W)	24	LOR (%)	100.0	S/MH (C90/270)	1.21
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	4052.0	η UP, DN (C0-180)	3.3, 46.7
NOMINAL FLUX (lm)	4052.04	CIE CLASS	DIRECT	η UP, DN (C180-360)	3.3, 46.7
LAMPS INSIDE	1	η up (%)	6.6	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	93.4	CIBSE SHR MAX	1.35

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: 2020-06-01

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	1238	1235	1232	1235	1238	1235	1232	1235	0- 10	119.1	119.1	2.94,2.94
20	1174	1163	1149	1163	1174	1163	1149	1163	10- 20	339.8	458.9	11.3,11.3
30	1073	1048	1017	1048	1073	1048	1017	1048	20- 30	511.0	970.0	23.9,23.9
40	941.1	900.1	845.5	900.1	941.1	900.1	845.5	900.1	30- 40	609.9	1580	39,39
50	790.3	733.0	652.4	733.0	790.3	733.0	652.4	733.0	40- 50	627.9	2208	54.5,54.5
60	633.9	561.6	456.4	561.6	633.9	561.6	456.4	561.6	50- 60	573.1	2781	68.6,68.6
70	482.3	400.8	267.0	400.8	482.3	400.8	267.0	400.8	60- 70	465.3	3246	80.1,80.1
80	348.0	261.7	97.97	261.7	348.0	261.7	97.97	261.7	70- 80	331.8	3578	88.3,88.3
90	236.9	156.3	2.056	156.3	236.9	156.3	2.056	156.3	80- 90	204.8	3783	93.4,93.4
100	152.4	84.35	2.743	84.35	152.4	84.35	2.743	84.35	90-100	117.8	3901	96.3,96.3
110	93.20	46.34	3.854	46.34	93.20	46.34	3.854	46.34	100-110	65.88	3966	97.9,97.9
120	55.79	26.23	5.057	26.23	55.79	26.23	5.057	26.23	110-120	36.34	4003	98.8,98.8
130	33.71	16.26	6.288	16.26	33.71	16.26	6.288	16.26	120-130	20.27	4023	99.3,99.3
140	18.43	12.28	7.576	12.28	18.43	12.28	7.576	12.28	130-140	12.06	4035	99.6,99.6
150	14.64	11.04	8.764	11.04	14.64	11.04	8.764	11.04	140-150	7.653	4043	99.8,99.8
160	12.15	11.01	9.775	11.01	12.15	11.01	9.775	11.01	150-160	5.124	4048	99.9,99.9
170	10.76	10.93	10.40	10.93	10.76	10.93	10.40	10.93	160-170	3.074	4051	100,100
180	10.92	10.92	10.81	10.92	10.92	10.92	10.81	10.92	170-180	1.036	4052	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1896.5 lm

%lum = 46.8%

%lamp = 46.8%

Conical surface Flux(120deg): 2780.9 lm

%lum = 68.6%

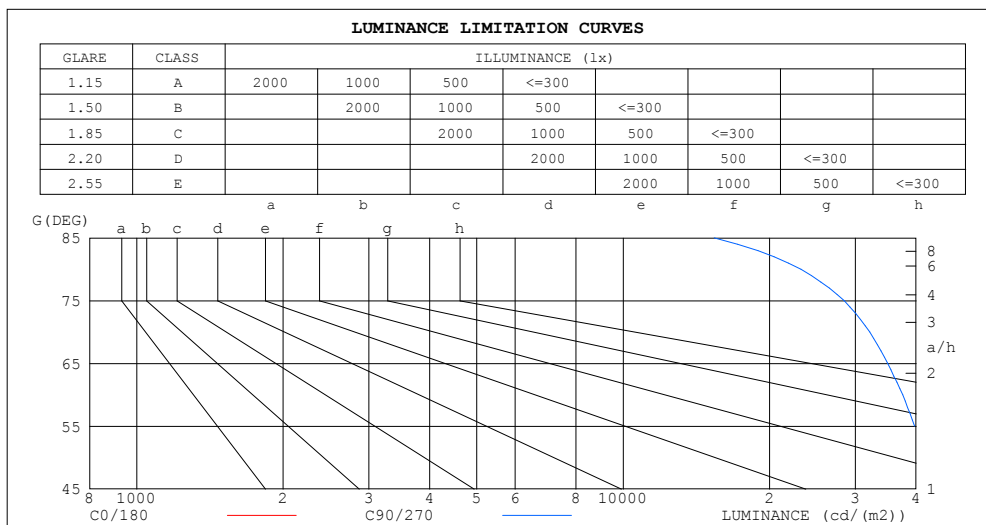
%lamp = 68.6%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2020-06-01

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:230.5V I:0.1084A P:23.70W PF:0.9488 Freq:49.99Hz Lamp Flux:4052.04x1 lm		
NAME: T602-24W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	139465	15399
80	84189	23207
75	66971	28452
70	59254	32112
65	55281	34991
60	53268	37550
55	52178	39716
50	51657	41748
45	51521	43654

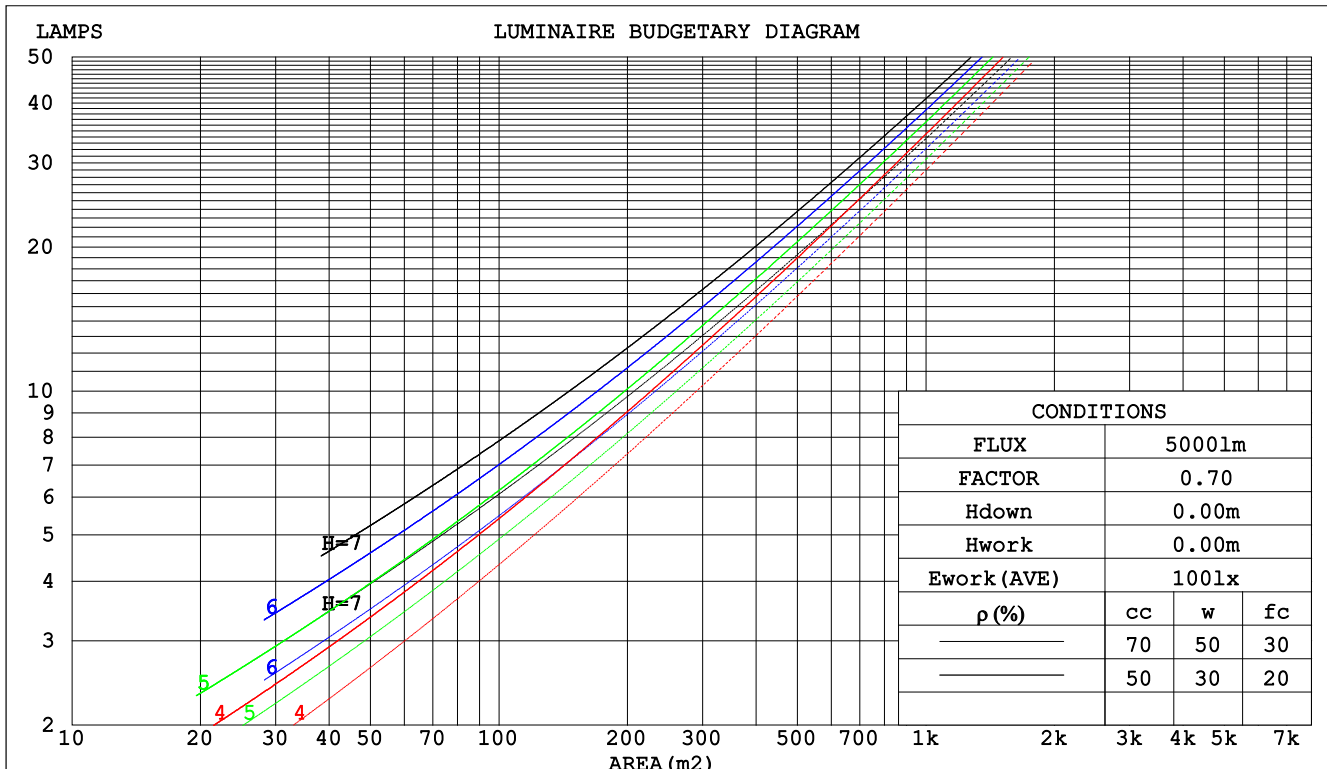
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-06-01

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:230.5V I:0.1084A P:23.70W PF:0.9488 Freq:49.99Hz Lamp Flux:4052.04x1 lm		
NAME: T602-24W	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						Coefficients of Utilization(CU)									
0.0	1.17	1.17	1.17	1.14	1.14	1.14	1.07	1.07	1.07	1.01	1.01	1.01	.96	.96	.96	.93
1.0	1.00	.95	.91	.97	.93	.89	.92	.88	.85	.87	.84	.81	.82	.80	.78	.75
2.0	.87	.79	.73	.84	.78	.72	.80	.74	.69	.75	.71	.67	.71	.67	.64	.61
3.0	.76	.67	.60	.74	.66	.59	.70	.63	.58	.66	.60	.56	.63	.58	.54	.51
4.0	.67	.58	.51	.65	.57	.50	.62	.55	.49	.59	.53	.47	.56	.51	.46	.44
5.0	.60	.51	.44	.58	.50	.43	.55	.48	.42	.53	.46	.41	.50	.45	.40	.38
6.0	.54	.45	.38	.53	.44	.38	.50	.42	.37	.48	.41	.36	.45	.40	.35	.33
7.0	.49	.40	.34	.48	.39	.33	.45	.38	.33	.43	.37	.32	.42	.36	.31	.29
8.0	.44	.36	.30	.43	.35	.30	.42	.34	.29	.40	.33	.28	.38	.32	.28	.26
9.0	.41	.32	.27	.40	.32	.27	.38	.31	.26	.37	.30	.26	.35	.29	.25	.23
10.0	.38	.30	.24	.37	.29	.24	.35	.28	.24	.34	.28	.23	.33	.27	.23	.21



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2020-06-01

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:230.5V I:0.1084A P:23.70W PF:0.9488 Freq:49.99Hz Lamp Flux:4052.04x1 lm		
NAME: T602-24W	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	.348	.198	.063	.339	.193	.061	.322	.185	.059	.306	.176	.057	.291	.169	.054		
2.0	.312	.171	.052	.304	.167	.052	.288	.160	.050	.274	.154	.048	.261	.148	.047		
3.0	.282	.150	.045	.275	.147	.044	.261	.141	.043	.248	.136	.042	.236	.131	.040		
4.0	.257	.133	.039	.250	.131	.039	.238	.126	.038	.226	.122	.037	.216	.117	.036		
5.0	.235	.120	.035	.229	.118	.034	.218	.114	.033	.208	.110	.033	.198	.106	.032		
6.0	.217	.109	.031	.212	.107	.031	.202	.103	.030	.192	.100	.029	.184	.097	.029		
7.0	.201	.099	.028	.196	.098	.028	.187	.095	.027	.179	.092	.027	.171	.089	.026		
8.0	.187	.091	.026	.183	.090	.025	.175	.087	.025	.167	.085	.024	.160	.082	.024		
9.0	.175	.085	.024	.171	.083	.023	.164	.081	.023	.157	.078	.022	.150	.076	.022		
10.0	.164	.079	.022	.161	.078	.022	.154	.075	.021	.147	.073	.021	.141	.071	.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	.241	.241	.241	.206	.206	.206	.141	.141	.141	.081	.081	.081	.026	.026	.026	
1.0	.234	.207	.182	.200	.178	.157	.137	.122	.109	.079	.071	.063	.025	.023	.020	
2.0	.226	.183	.147	.194	.158	.127	.133	.109	.089	.077	.063	.052	.025	.021	.017	
3.0	.218	.166	.124	.187	.143	.108	.129	.100	.076	.074	.058	.045	.024	.019	.015	
4.0	.211	.153	.109	.181	.132	.095	.124	.092	.067	.072	.054	.039	.023	.018	.013	
5.0	.203	.143	.099	.174	.124	.086	.120	.086	.061	.070	.051	.036	.022	.017	.012	
6.0	.196	.135	.091	.168	.117	.079	.116	.082	.056	.067	.048	.033	.022	.016	.011	
7.0	.189	.128	.085	.162	.111	.074	.112	.078	.053	.065	.046	.031	.021	.015	.010	
8.0	.182	.122	.081	.157	.106	.071	.108	.074	.050	.063	.044	.030	.020	.014	.010	
9.0	.176	.117	.078	.151	.102	.068	.105	.072	.048	.061	.042	.029	.020	.014	.010	
10.0	.170	.113	.075	.147	.098	.065	.102	.069	.046	.059	.041	.028	.019	.013	.009	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2020-06-01

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:230.5V I:0.1084A P:23.70W PF:0.9488 Freq:49.99Hz Lamp Flux:4052.04x1 lm										
NAME: T602-24W					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	21.5	22.9	21.8	23.3	23.6	20.0	21.5	20.4	21.8	22.2
3H	23.6	25.0	24.0	25.3	25.7	21.3	22.7	21.7	23.0	23.4
4H	24.7	26.0	25.1	26.4	26.8	21.8	23.1	22.2	23.5	23.9
6H	25.9	27.1	26.3	27.5	27.9	22.1	23.4	22.6	23.7	24.2
8H	26.5	27.7	27.0	28.1	28.6	22.2	23.4	22.7	23.8	24.2
12H	27.3	28.4	27.7	28.8	29.3	22.2	23.4	22.7	23.8	24.2
4H 2H	22.0	23.3	22.4	23.7	24.1	20.9	22.2	21.3	22.6	23.0
3H	24.4	25.5	24.8	25.9	26.4	22.4	23.6	22.9	24.0	24.4
4H	25.7	26.7	26.1	27.1	27.6	23.1	24.1	23.6	24.6	25.0
6H	27.1	28.0	27.6	28.5	29.0	23.5	24.5	24.0	24.9	25.4
8H	27.9	28.7	28.4	29.2	29.7	23.7	24.5	24.2	25.0	25.5
12H	28.7	29.5	29.3	30.0	30.6	23.7	24.5	24.3	25.0	25.6
8H 4H	26.0	26.8	26.5	27.3	27.8	23.8	24.7	24.3	25.1	25.7
6H	27.6	28.4	28.2	28.9	29.5	24.5	25.3	25.1	25.8	26.4
8H	28.6	29.3	29.2	29.8	30.4	24.8	25.5	25.4	26.0	26.6
12H	29.8	30.3	30.3	30.9	31.5	25.0	25.6	25.6	26.1	26.7
12H 4H	26.0	26.8	26.5	27.3	27.8	24.0	24.8	24.5	25.3	25.8
6H	27.7	28.4	28.3	28.9	29.5	24.9	25.6	25.5	26.1	26.7
8H	28.8	29.4	29.4	29.9	30.6	25.3	25.9	25.9	26.4	27.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117, 4052 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 4.9$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-06-01

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:230.5V I:0.1084A P:23.70W PF:0.9488 Freq:49.99Hz Lamp Flux:4052.04x1 lm		
NAME: T602-24W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

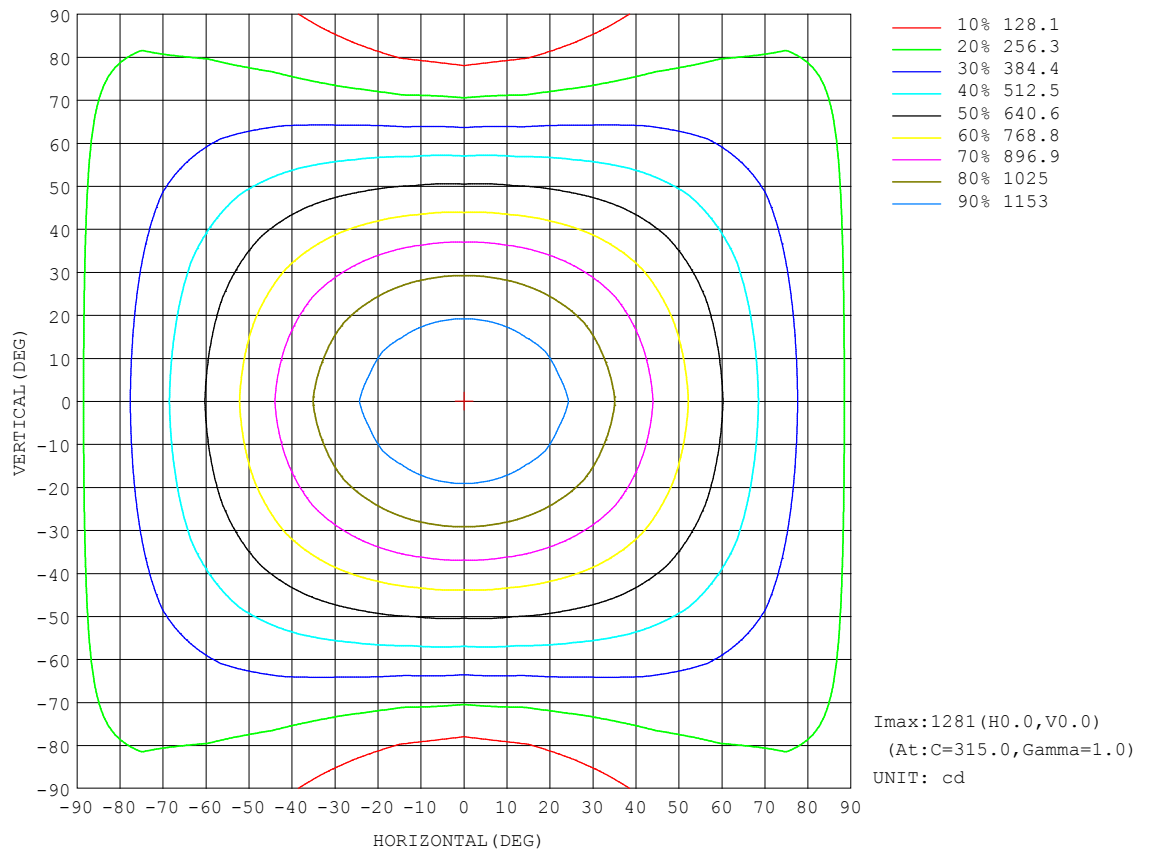
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	54	42	35	53	42	35	52	41	35	28
0.80	64	52	44	62	51	44	60	50	43	36
1.00	72	60	52	70	59	52	68	60	51	43
1.25	79	67	59	77	66	59	74	64	58	50
1.50	84	73	65	82	72	64	78	69	63	54
2.00	90	81	73	88	79	73	84	76	71	61
2.50	95	86	79	92	84	78	87	81	75	65
3.00	98	90	84	95	88	82	90	84	79	69
4.00	102	96	90	99	93	88	94	89	85	74
5.00	105	99	94	102	97	92	96	92	88	77
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: 2020-06-01

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:230.5V I:0.1084A P:23.70W PF:0.9488 Freq:49.99Hz Lamp Flux:4052.04x1 lm		
NAME: T602-24W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

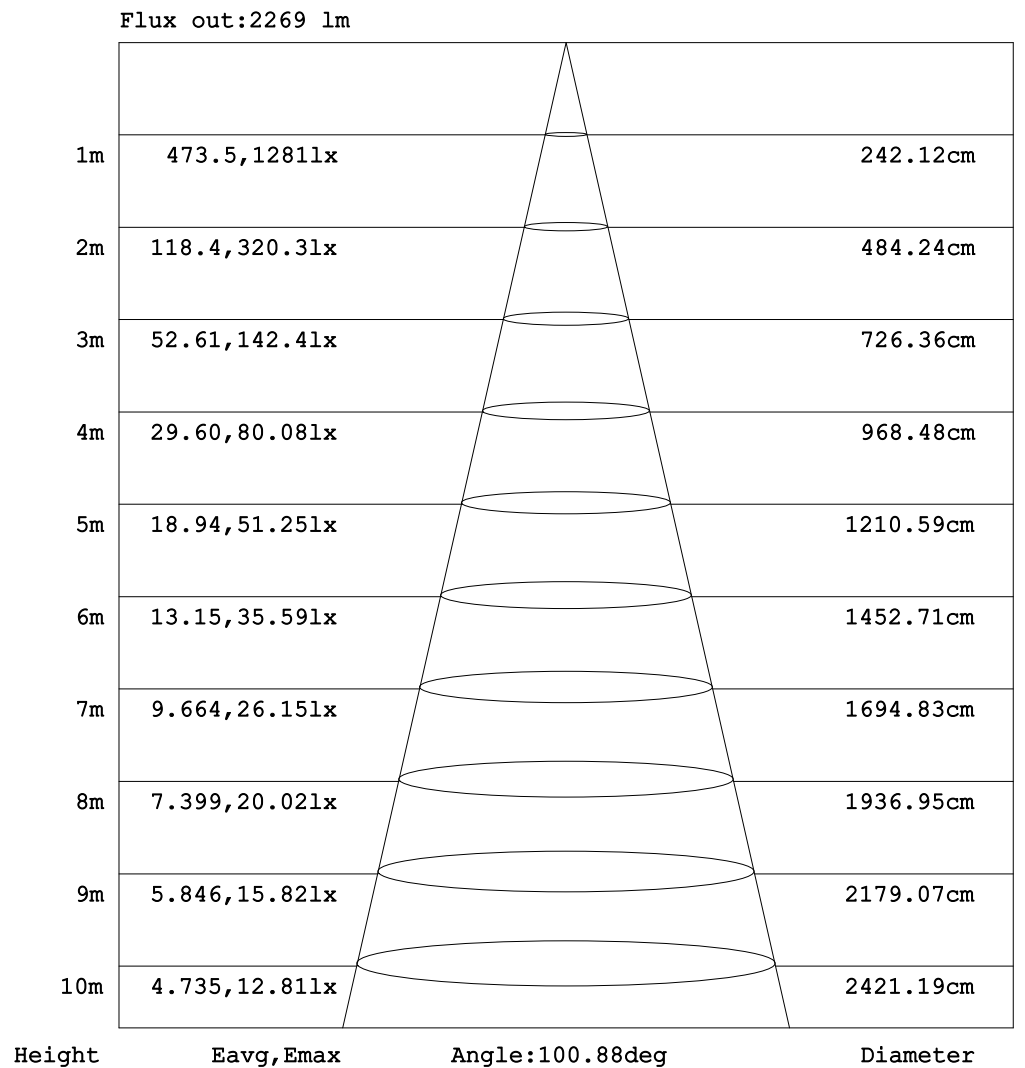


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-06-01

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:230.5V I:0.1084A P:23.70W PF:0.9488 Freq:49.99Hz Lamp Flux:4052.04x1 lm		
NAME: T602-24W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



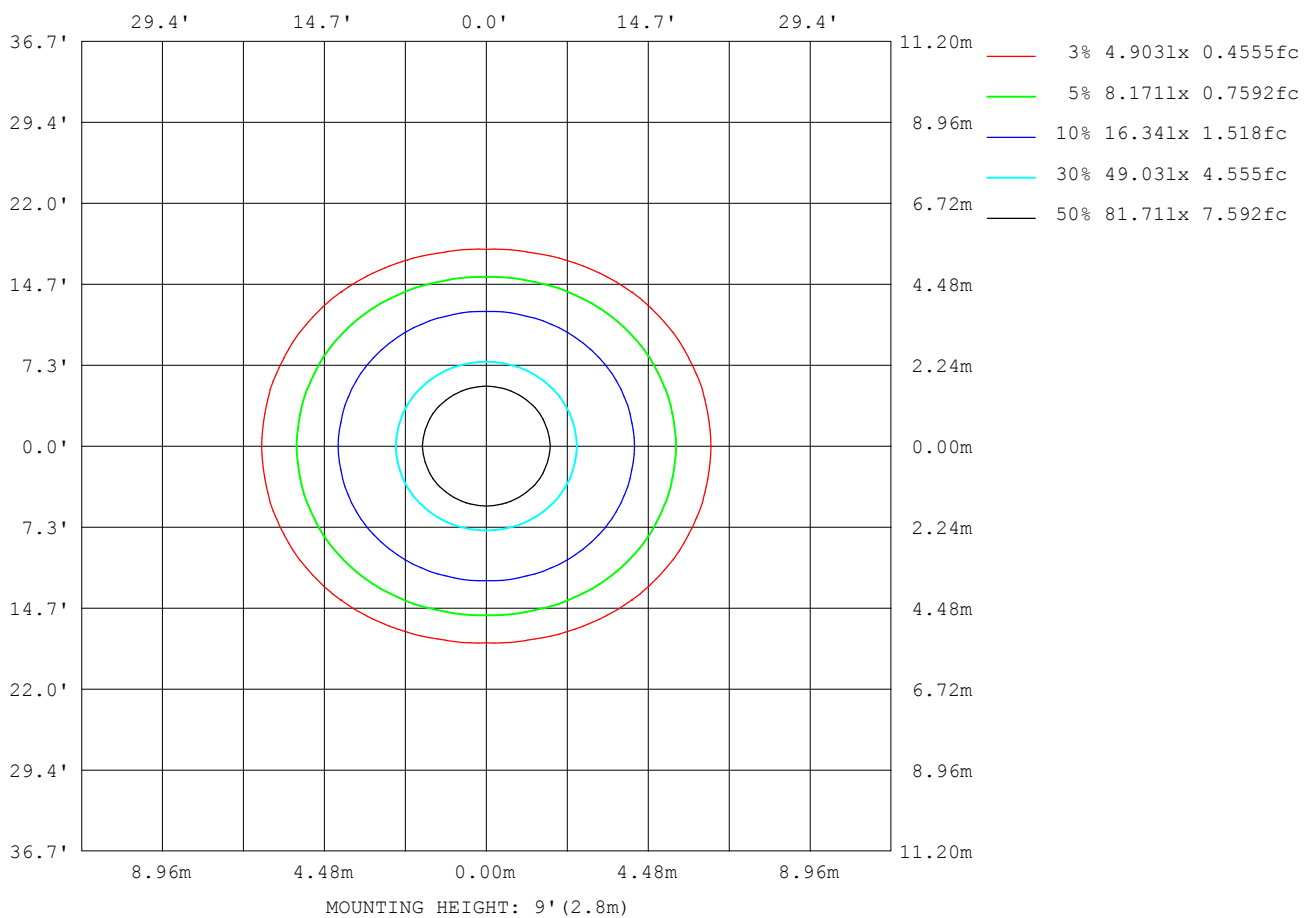
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-06-01

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:230.5V I:0.1084A P:23.70W PF:0.9488 Freq:49.99Hz Lamp Flux:4052.04x1 lm		
NAME: T602-24W	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: 2020-06-01

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:230.5V I:0.1084A P:23.70W PF:0.9488 Freq:49.99Hz Lamp Flux:4052.04x1 lm		
NAME: T602-24W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

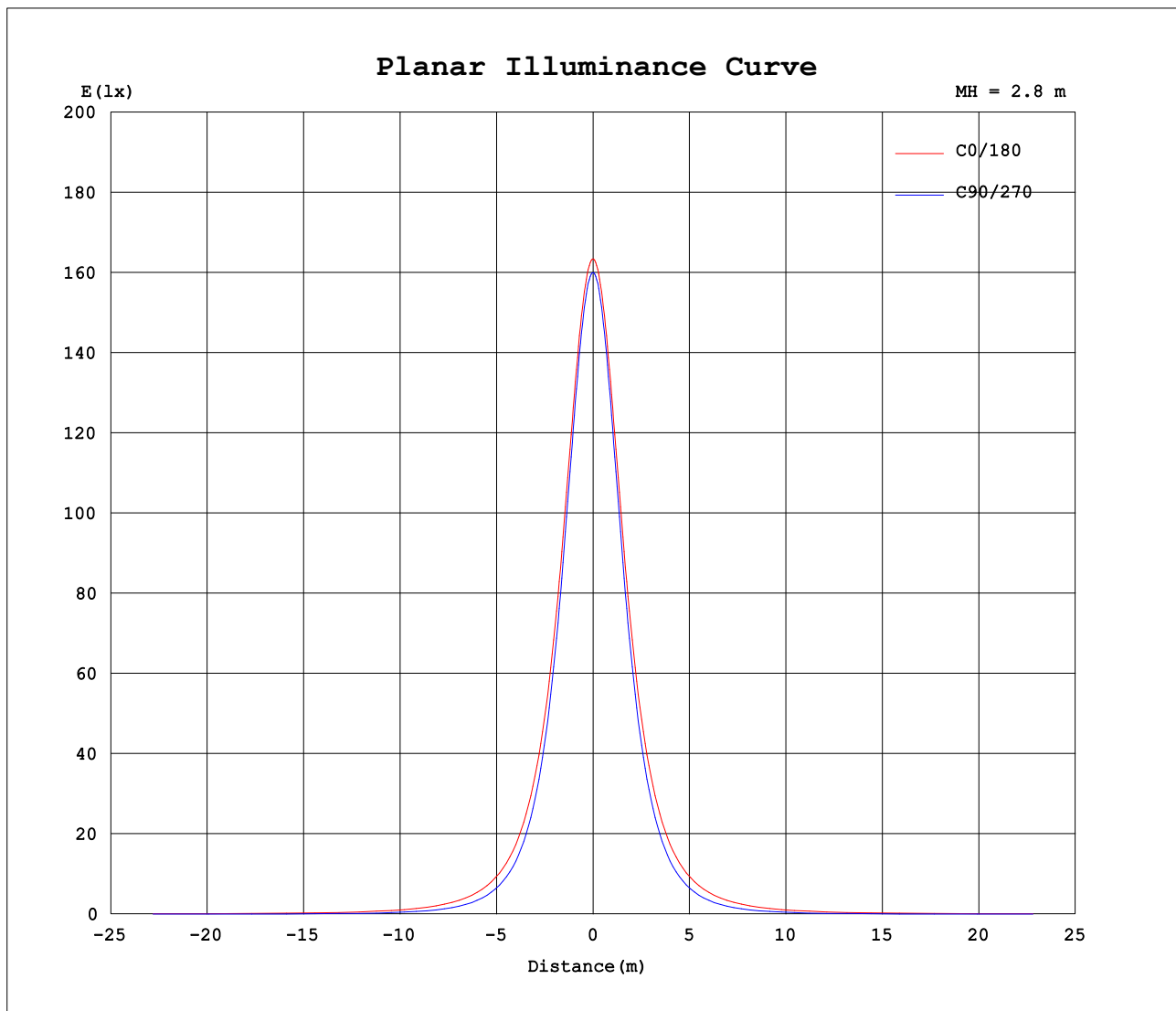
AvgL	cd/m2
L_0~180 (65) av	54369
L_0~180 (75) av	65866
L_0~180 (85) av	137165
L_90~270 (65) av	35150
L_90~270 (75) av	28582
L_90~270 (85) av	15469
L_45 (65) av	46794
L_45 (75) av	52410
L_45 (85) av	96942

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2020-06-01

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: 2020-06-01

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:230.5V I:0.1084A P:23.70W PF:0.9488 Freq:49.99Hz Lamp Flux:4052.04x1 lm																		
NAME: T602-24W									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	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260
5	1254	1254	1254	1254	1253	1253	1253	1253	1253	1254	1254	1254	1254	1254	1254	1254	1253	1253	1253
10	1238	1238	1237	1235	1233	1233	1232	1233	1233	1235	1237	1238	1238	1238	1237	1235	1233	1233	1232
15	1212	1211	1209	1205	1201	1198	1197	1198	1201	1205	1209	1211	1212	1211	1209	1205	1201	1198	1197
20	1174	1173	1169	1163	1156	1151	1149	1151	1156	1163	1169	1173	1174	1173	1169	1163	1156	1151	1149
25	1127	1126	1120	1111	1099	1092	1089	1092	1099	1111	1120	1126	1127	1126	1120	1111	1099	1092	1089
30	1073	1071	1061	1048	1033	1021	1017	1021	1033	1048	1061	1071	1073	1071	1061	1048	1033	1021	1017
35	1010	1007	995	978	957	941	935	941	957	978	995	1007	1010	1007	995	978	957	941	935
40	941	938	922	900	874	853	846	853	874	900	922	938	941	938	922	900	874	853	846
45	867	864	845	818	785	760	750	760	785	818	845	864	867	864	845	818	785	760	750
50	790	787	765	733	694	664	652	664	694	733	765	787	790	787	765	733	694	664	652
55	712	708	683	647	603	567	554	567	603	647	683	708	712	708	683	647	603	567	554
60	634	629	602	562	511	471	456	471	511	562	602	629	634	629	602	562	511	471	456
65	556	553	523	479	423	378	359	378	423	479	523	553	556	553	523	479	423	378	359
70	482	479	447	401	340	288	267	288	340	401	447	479	482	479	447	401	340	288	267
75	413	409	376	328	263	204	179	204	263	328	376	409	413	409	376	328	263	204	179
80	348	345	311	262	194	130	98.0	130	194	262	311	345	348	345	311	262	194	130	98.0
85	289	285	253	204	137	70.3	32.6	70.3	137	204	253	285	289	285	253	204	137	70.3	32.6
90	237	233	202	156	92.7	32.9	2.06	32.9	92.7	156	202	233	237	233	202	156	92.7	32.9	2.06
95	191	188	159	117	61.5	15.6	2.26	15.6	61.5	117	159	188	191	188	159	117	61.5	15.6	2.26
100	152	150	123	84.3	39.3	8.90	2.74	8.90	39.3	84.3	123	150	152	150	123	84.3	39.3	8.90	2.74
105	120	118	92.5	62.1	27.5	7.00	3.27	7.00	27.5	62.1	92.5	118	120	118	92.5	62.1	27.5	7.00	3.27
110	93.2	91.4	66.5	46.3	20.4	6.43	3.85	6.43	20.4	46.3	66.5	91.4	93.2	91.4	66.5	46.3	20.4	6.43	3.85
115	72.2	67.0	51.9	35.2	15.6	6.22	4.46	6.22	15.6	35.2	51.9	67.0	72.2	67.0	51.9	35.2	15.6	6.22	4.46
120	55.8	52.0	40.4	26.2	12.6	6.38	5.06	6.38	12.6	26.2	40.4	52.0	55.8	52.0	40.4	26.2	12.6	6.38	5.06
125	43.2	39.4	31.6	20.1	11.0	6.76	5.67	6.76	11.0	20.1	31.6	39.4	43.2	39.4	31.6	20.1	11.0	6.76	5.67
130	33.7	31.2	23.9	16.3	10.04	7.15	6.29	7.15	10.04	16.3	23.9	31.2	33.7	31.2	23.9	16.3	10.04	7.15	6.29
135	26.7	25.5	18.9	13.9	9.65	7.64	6.94	7.64	9.65	13.9	18.9	25.5	26.7	25.5	18.9	13.9	9.65	7.64	6.94
140	18.4	20.8	15.6	12.3	9.59	8.14	7.58	8.14	9.59	12.3	15.6	20.8	18.4	20.8	15.6	12.3	9.59	8.14	7.58
145	16.9	16.7	13.5	11.4	9.70	8.70	8.17	8.70	9.70	11.4	13.5	16.7	16.9	16.7	13.5	11.4	9.70	8.70	8.17
150	14.6	13.9	12.2	11.0	9.96	9.26	8.76	9.26	9.96	11.0	12.2	13.9	14.6	13.9	12.2	11.0	9.96	9.26	8.76
155	13.0	12.4	11.5	11.0	10.2	9.75	9.29	9.75	10.2	11.0	11.5	12.4	13.0	12.4	11.5	11.0	10.2	9.75	9.29
160	12.1	11.6	11.2	11.0	10.5	10.1	9.77	10.1	10.5	11.0	11.2	11.6	12.1	11.6	11.2	11.0	10.5	10.1	9.77
165	11.5	11.1	11.0	11.0	10.7	10.4	10.1	10.4	10.7	11.0	11.0	11.1	11.5	11.1	11.0	11.0	10.7	10.4	10.1
170	10.8	10.9	11.0	10.9	10.7	10.6	10.4	10.6	10.7	10.9	11.0	10.9	10.8	10.9	11.0	10.9	10.7	10.6	10.4
175	10.7	11.0	11.0	10.9	10.9	10.9	10.7	10.9	10.9	10.9	11.0	11.0	10.7	11.0	11.0	10.9	10.9	10.9	10.7
180	10.9	11.1	11.0	10.9	10.9	11.0	10.8	11.0	10.9	10.9	11.0	11.1	10.9	11.1	11.0	10.9	10.9	11.0	10.8

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-06-01

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:230.5V I:0.1084A P:23.70W PF:0.9488 Freq:49.99Hz Lamp Flux:4052.04x1 lm		
NAME: T602-24W	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	1260	1260	1260	1260	1260														
5	1253	1253	1254	1254	1254														
10	1233	1233	1235	1237	1238														
15	1198	1201	1205	1209	1211														
20	1151	1156	1163	1169	1173														
25	1092	1099	1111	1120	1126														
30	1021	1033	1048	1061	1071														
35	941	957	978	995	1007														
40	853	874	900	922	938														
45	760	785	818	845	864														
50	664	694	733	765	787														
55	567	603	647	683	708														
60	471	511	562	602	629														
65	378	423	479	523	553														
70	288	340	401	447	479														
75	204	263	328	376	409														
80	130	194	262	311	345														
85	70.3	137	204	253	285														
90	32.9	92.7	156	202	233														
95	15.6	61.5	117	159	188														
100	8.90	39.3	84.3	123	150														
105	7.00	27.5	62.1	92.5	118														
110	6.43	20.4	46.3	66.5	91.4														
115	6.22	15.6	35.2	51.9	67.0														
120	6.38	12.6	26.2	40.4	52.0														
125	6.76	11.0	20.1	31.6	39.4														
130	7.15	10.04	16.3	23.9	31.2														
135	7.64	9.65	13.9	18.9	25.5														
140	8.14	9.59	12.3	15.6	20.8														
145	8.70	9.70	11.4	13.5	16.7														
150	9.26	9.96	11.0	12.2	13.9														
155	9.75	10.2	11.0	11.5	12.4														
160	10.1	10.5	11.0	11.2	11.6														
165	10.4	10.7	11.0	11.0	11.1														
170	10.6	10.7	10.9	11.0	10.9														
175	10.9	10.9	10.9	11.0	11.0														
180	11.0	10.9	10.9	11.0	11.1														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2020-06-01

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	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260
3.0	1258	1258	1258	1258	1257	1258	1258	1258	1257	1258
6.0	1252	1252	1252	1251	1250	1250	1250	1250	1250	1251
9.0	1242	1242	1242	1240	1238	1238	1238	1238	1238	1240
12.0	1229	1229	1227	1225	1221	1221	1220	1221	1221	1225
15.0	1212	1211	1209	1205	1201	1198	1197	1198	1201	1205
18.0	1190	1190	1186	1181	1175	1171	1170	1171	1175	1181
21.0	1165	1165	1160	1154	1146	1140	1138	1140	1146	1154
24.0	1137	1137	1130	1122	1111	1104	1102	1104	1111	1122
27.0	1106	1105	1097	1087	1074	1065	1061	1065	1074	1087
30.0	1073	1071	1061	1048	1033	1021	1017	1021	1033	1048
33.0	1036	1033	1022	1007	988.0	973.9	968.7	973.9	988.0	1007
36.0	996.3	993.9	980.8	962.4	940.9	923.8	917.5	923.8	940.9	962.4
39.0	955.2	952.2	937.1	916.2	890.8	871.1	863.8	871.1	890.8	916.2
42.0	911.9	908.8	891.9	867.8	838.9	816.7	808.1	816.7	838.9	867.8
45.0	867.1	863.8	844.8	818.0	785.4	760.3	750.4	760.3	785.4	818.0
48.0	821.4	817.8	796.7	767.2	731.1	702.9	691.9	702.9	731.1	767.2
51.0	775.2	771.2	748.3	715.8	676.0	644.9	632.7	644.9	676.0	715.8
54.0	728.2	723.9	699.3	664.2	620.7	586.8	573.6	586.8	620.7	664.2
57.0	681.0	677.0	650.4	612.7	566.1	528.9	514.8	528.9	566.1	612.7
60.0	633.9	629.2	602.0	561.6	511.4	471.2	456.4	471.2	511.4	561.6
63.0	587.6	583.0	554.2	511.3	458.1	414.7	397.5	414.7	458.1	511.3
66.0	541.1	537.4	507.3	462.9	406.2	359.3	340.7	359.3	406.2	462.9
69.0	496.7	493.2	461.9	416.1	356.3	305.3	285.2	305.3	356.3	416.1
72.0	454.0	450.4	418.2	370.9	307.8	253.6	231.2	253.6	307.8	370.9
75.0	412.5	409.1	376.5	328.3	262.5	204.0	179.0	204.0	262.5	328.3
78.0	373.1	369.7	336.9	287.2	220.2	158.0	128.8	158.0	220.2	287.2
81.0	335.8	332.2	299.3	249.6	181.8	116.2	83.18	116.2	181.8	249.6
84.0	300.4	296.7	263.8	215.3	147.6	80.56	43.66	80.56	147.6	215.3
87.0	267.6	263.5	231.5	184.1	117.9	52.58	14.62	52.58	117.9	184.1
90.0	236.9	233.1	202.0	156.3	92.68	32.86	2.056	32.86	92.68	156.3
93.0	208.7	205.1	175.2	131.9	72.50	20.63	2.090	20.63	72.50	131.9
96.0	182.9	179.6	151.2	110.8	56.72	13.76	2.348	13.76	56.72	110.8
99.0	159.7	156.7	130.0	92.09	42.46	9.631	2.639	9.631	42.46	92.09
102.0	138.8	136.0	111.0	71.31	33.84	7.875	2.940	7.875	33.84	71.31
105.0	120.1	117.6	92.55	62.09	27.54	7.005	3.265	7.005	27.54	62.09
108.0	103.1	101.3	74.00	52.11	22.84	6.565	3.618	6.565	22.84	52.11
111.0	88.60	86.72	62.97	43.78	19.33	6.376	3.975	6.376	19.33	43.78
114.0	76.00	71.18	54.47	37.26	16.46	6.224	4.333	6.224	16.46	37.26
117.0	65.12	59.99	47.32	31.61	14.24	6.258	4.696	6.258	14.24	31.61
120.0	55.79	52.00	40.40	26.23	12.62	6.384	5.057	6.384	12.62	26.23
123.0	47.81	43.13	35.03	22.12	11.54	6.580	5.417	6.580	11.54	22.12
126.0	41.07	37.50	29.70	19.21	10.77	6.835	5.786	6.835	10.77	19.21
129.0	35.40	32.65	25.18	16.89	10.17	7.066	6.159	7.066	10.17	16.89
132.0	30.64	28.70	21.60	15.18	9.821	7.342	6.548	7.342	9.821	15.18
135.0	26.71	25.50	18.88	13.85	9.652	7.643	6.939	7.643	9.652	13.85
138.0	21.66	22.58	16.78	12.83	9.583	7.936	7.320	7.936	9.583	12.83
141.0	17.61	19.83	15.14	12.06	9.607	8.253	7.693	8.253	9.607	12.06
144.0	17.17	17.32	13.84	11.55	9.675	8.581	8.051	8.581	9.675	11.55
147.0	15.94	15.43	12.82	11.24	9.796	8.929	8.408	8.929	9.796	11.24
150.0	14.64	13.88	12.15	11.04	9.963	9.262	8.764	9.262	9.963	11.04
153.0	13.56	12.87	11.71	10.96	10.14	9.572	9.091	9.572	10.14	10.96
156.0	12.82	12.21	11.44	11.05	10.29	9.830	9.393	9.830	10.29	11.05
159.0	12.29	11.75	11.27	11.02	10.49	10.07	9.690	10.07	10.49	11.02
162.0	11.91	11.42	11.06	10.97	10.63	10.24	9.922	10.24	10.63	10.97
165.0	11.45	11.09	10.99	10.97	10.70	10.38	10.11	10.38	10.70	10.97
168.0	11.04	10.94	10.98	10.97	10.72	10.51	10.29	10.51	10.72	10.97
171.0	10.74	10.96	11.01	10.93	10.76	10.61	10.48	10.61	10.76	10.93
174.0	10.67	10.95	10.96	10.90	10.88	10.80	10.64	10.80	10.88	10.90
177.0	10.72	11.00	10.95	10.86	10.86	10.90	10.73	10.90	10.86	10.86
180.0	10.92	11.11	11.03	10.92	10.94	10.98	10.81	10.98	10.94	10.92
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260
3.0	1258	1258	1258	1258	1258	1258	1257	1258	1258	1258
6.0	1252	1252	1252	1252	1252	1251	1250	1250	1250	1250
9.0	1242	1242	1242	1242	1242	1240	1238	1238	1238	1238
12.0	1227	1229	1229	1229	1227	1225	1221	1221	1220	1221
15.0	1209	1211	1212	1211	1209	1205	1201	1198	1197	1198
18.0	1186	1190	1190	1190	1186	1181	1175	1171	1170	1171
21.0	1160	1165	1165	1165	1160	1154	1146	1140	1138	1140
24.0	1130	1137	1137	1137	1130	1122	1111	1104	1102	1104
27.0	1097	1105	1106	1105	1097	1087	1074	1065	1061	1065
30.0	1061	1071	1073	1071	1061	1048	1033	1021	1017	1021

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-06-01

v Range: 0 - 180DEG
 v 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	1022	1033	1036	1033	1022	1007	988.0	973.9	968.7	973.9
36.0	980.8	993.9	996.3	993.9	980.8	962.4	940.9	923.8	917.5	923.8
39.0	937.1	952.2	955.2	952.2	937.1	916.2	890.8	871.1	863.8	871.1
42.0	891.9	908.8	911.9	908.8	891.9	867.8	838.9	816.7	808.1	816.7
45.0	844.8	863.8	867.1	863.8	844.8	818.0	785.4	760.3	750.4	760.3
48.0	796.7	817.8	821.4	817.8	796.7	767.2	731.1	702.9	691.9	702.9
51.0	748.3	771.2	775.2	771.2	748.3	715.8	676.0	644.9	632.7	644.9
54.0	699.3	723.9	728.2	723.9	699.3	664.2	620.7	586.8	573.6	586.8
57.0	650.4	677.0	681.0	677.0	650.4	612.7	566.1	528.9	514.8	528.9
60.0	602.0	629.2	633.9	629.2	602.0	561.6	511.4	471.2	456.4	471.2
63.0	554.2	583.0	587.6	583.0	554.2	511.3	458.1	414.7	397.5	414.7
66.0	507.3	537.4	541.1	537.4	507.3	462.9	406.2	359.3	340.7	359.3
69.0	461.9	493.2	496.7	493.2	461.9	416.1	356.3	305.3	285.2	305.3
72.0	418.2	450.4	454.0	450.4	418.2	370.9	307.8	253.6	231.2	253.6
75.0	376.5	409.1	412.5	409.1	376.5	328.3	262.5	204.0	179.0	204.0
78.0	336.9	369.7	373.1	369.7	336.9	287.2	220.2	158.0	128.8	158.0
81.0	299.3	332.2	335.8	332.2	299.3	249.6	181.8	116.2	83.18	116.2
84.0	263.8	296.7	300.4	296.7	263.8	215.3	147.6	80.56	43.66	80.56
87.0	231.5	263.5	267.6	263.5	231.5	184.1	117.9	52.58	14.62	52.58
90.0	202.0	233.1	236.9	233.1	202.0	156.3	92.68	32.86	2.056	32.86
93.0	175.2	205.1	208.7	205.1	175.2	131.9	72.50	20.63	2.090	20.63
96.0	151.2	179.6	182.9	179.6	151.2	110.8	56.72	13.76	2.348	13.76
99.0	130.0	156.7	159.7	156.7	130.0	92.09	42.46	9.631	2.639	9.631
102.0	111.0	136.0	138.8	136.0	111.0	71.31	33.84	7.875	2.940	7.875
105.0	92.55	117.6	120.1	117.6	92.55	62.09	27.54	7.005	3.265	7.005
108.0	74.00	101.3	103.1	101.3	74.00	52.11	22.84	6.565	3.618	6.565
111.0	62.97	86.72	88.60	86.72	62.97	43.78	19.33	6.376	3.975	6.376
114.0	54.47	71.18	76.00	71.18	54.47	37.26	16.46	6.224	4.333	6.224
117.0	47.32	59.99	65.12	59.99	47.32	31.61	14.24	6.258	4.696	6.258
120.0	40.40	52.00	55.79	52.00	40.40	26.23	12.62	6.384	5.057	6.384
123.0	35.03	43.13	47.81	43.13	35.03	22.12	11.54	6.580	5.417	6.580
126.0	29.70	37.50	41.07	37.50	29.70	19.21	10.77	6.835	5.786	6.835
129.0	25.18	32.65	35.40	32.65	25.18	16.89	10.17	7.066	6.159	7.066
132.0	21.60	28.70	30.64	28.70	21.60	15.18	9.821	7.342	6.548	7.342
135.0	18.88	25.50	26.71	25.50	18.88	13.85	9.652	7.643	6.939	7.643
138.0	16.78	22.58	21.66	22.58	16.78	12.83	9.583	7.936	7.320	7.936
141.0	15.14	19.83	17.61	19.83	15.14	12.06	9.607	8.253	7.693	8.253
144.0	13.84	17.32	17.17	17.32	13.84	11.55	9.675	8.581	8.051	8.581
147.0	12.82	15.43	15.94	15.43	12.82	11.24	9.796	8.929	8.408	8.929
150.0	12.15	13.88	14.64	13.88	12.15	11.04	9.963	9.262	8.764	9.262
153.0	11.71	12.87	13.56	12.87	11.71	10.96	10.14	9.572	9.091	9.572
156.0	11.44	12.21	12.82	12.21	11.44	11.05	10.29	9.830	9.393	9.830
159.0	11.27	11.75	12.29	11.75	11.27	11.02	10.49	10.07	9.690	10.07
162.0	11.06	11.42	11.91	11.42	11.06	10.97	10.63	10.24	9.922	10.24
165.0	10.99	11.09	11.45	11.09	10.99	10.97	10.70	10.38	10.11	10.38
168.0	10.98	10.94	11.04	10.94	10.98	10.97	10.72	10.51	10.29	10.51
171.0	11.01	10.96	10.74	10.96	11.01	10.93	10.76	10.61	10.48	10.61
174.0	10.96	10.95	10.67	10.95	10.96	10.90	10.88	10.80	10.64	10.80
177.0	10.95	11.00	10.72	11.00	10.95	10.86	10.86	10.90	10.73	10.90
180.0	11.03	11.11	10.92	11.11	11.03	10.92	10.94	10.98	10.81	10.98
G/C	300.0	315.0	330.0	345.0						
0.0	1260	1260	1260	1260						
3.0	1257	1258	1258	1258						
6.0	1250	1251	1252	1252						
9.0	1238	1240	1242	1242						
12.0	1221	1225	1227	1229						
15.0	1201	1205	1209	1211						
18.0	1175	1181	1186	1190						
21.0	1146	1154	1160	1165						
24.0	1111	1122	1130	1137						
27.0	1074	1087	1097	1105						
30.0	1033	1048	1061	1071						
33.0	988.0	1007	1022	1033						
36.0	940.9	962.4	980.8	993.9						
39.0	890.8	916.2	937.1	952.2						
42.0	838.9	867.8	891.9	908.8						
45.0	785.4	818.0	844.8	863.8						
48.0	731.1	767.2	796.7	817.8						
51.0	676.0	715.8	748.3	771.2						
54.0	620.7	664.2	699.3	723.9						
57.0	566.1	612.7	650.4	677.0						
60.0	511.4	561.6	602.0	629.2						
63.0	458.1	511.3	554.2	583.0						
66.0	406.2	462.9	507.3	537.4						

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-06-01

v Range: 0 - 180DEG
 v 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	356.3	416.1	461.9	493.2
72.0	307.8	370.9	418.2	450.4
75.0	262.5	328.3	376.5	409.1
78.0	220.2	287.2	336.9	369.7
81.0	181.8	249.6	299.3	332.2
84.0	147.6	215.3	263.8	296.7
87.0	117.9	184.1	231.5	263.5
90.0	92.68	156.3	202.0	233.1
93.0	72.50	131.9	175.2	205.1
96.0	56.72	110.8	151.2	179.6
99.0	42.46	92.09	130.0	156.7
102.0	33.84	71.31	111.0	136.0
105.0	27.54	62.09	92.55	117.6
108.0	22.84	52.11	74.00	101.3
111.0	19.33	43.78	62.97	86.72
114.0	16.46	37.26	54.47	71.18
117.0	14.24	31.61	47.32	59.99
120.0	12.62	26.23	40.40	52.00
123.0	11.54	22.12	35.03	43.13
126.0	10.77	19.21	29.70	37.50
129.0	10.17	16.89	25.18	32.65
132.0	9.821	15.18	21.60	28.70
135.0	9.652	13.85	18.88	25.50
138.0	9.583	12.83	16.78	22.58
141.0	9.607	12.06	15.14	19.83
144.0	9.675	11.55	13.84	17.32
147.0	9.796	11.24	12.82	15.43
150.0	9.963	11.04	12.15	13.88
153.0	10.14	10.96	11.71	12.87
156.0	10.29	11.05	11.44	12.21
159.0	10.49	11.02	11.27	11.75
162.0	10.63	10.97	11.06	11.42
165.0	10.70	10.97	10.99	11.09
168.0	10.72	10.97	10.98	10.94
171.0	10.76	10.93	11.01	10.96
174.0	10.88	10.90	10.96	10.95
177.0	10.86	10.86	10.95	11.00
180.0	10.94	10.92	11.03	11.11

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-06-01

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: