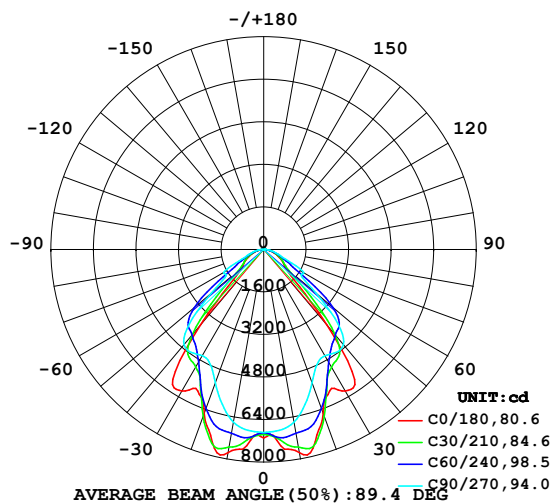


LUMINAIRE PHOTOMETRIC TEST REPORT

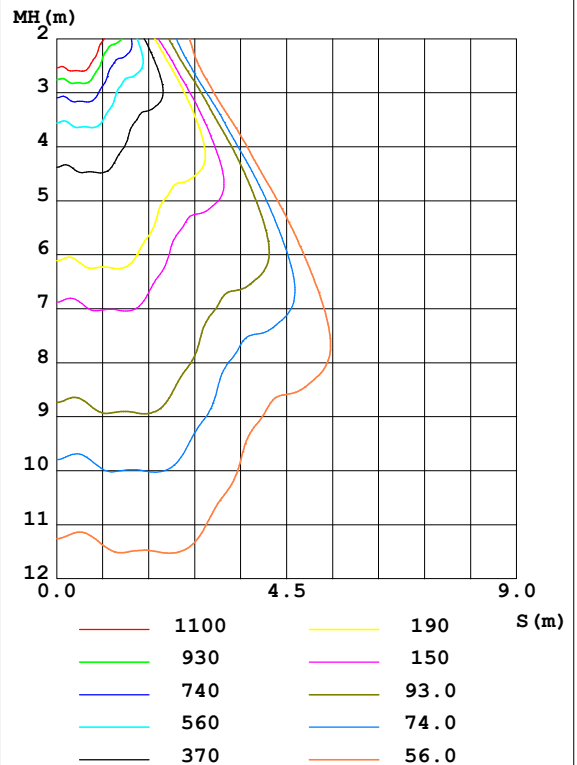
Test:U:230.3V I:0.4577A P:101.7W PF:0.9642 Freq:49.99Hz Lamp Flux:13479.9x1 lm		
NAME: ST01-100W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 132.61 lm/W			
MODEL		I _{max} (cd)	7899	S/MH (C0/180)	1.17
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH (C90/270)	0.97
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	13480	η UP,DN(C0-180)	0.4,49.6
NOMINAL FLUX(lm)	13479.9	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.4,49.6
LAMPS INSIDE	1	η up(%)	0.9	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	230	η down(%)	99.1	CIBSE SHR MAX	0.85

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:2019-08-22

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:

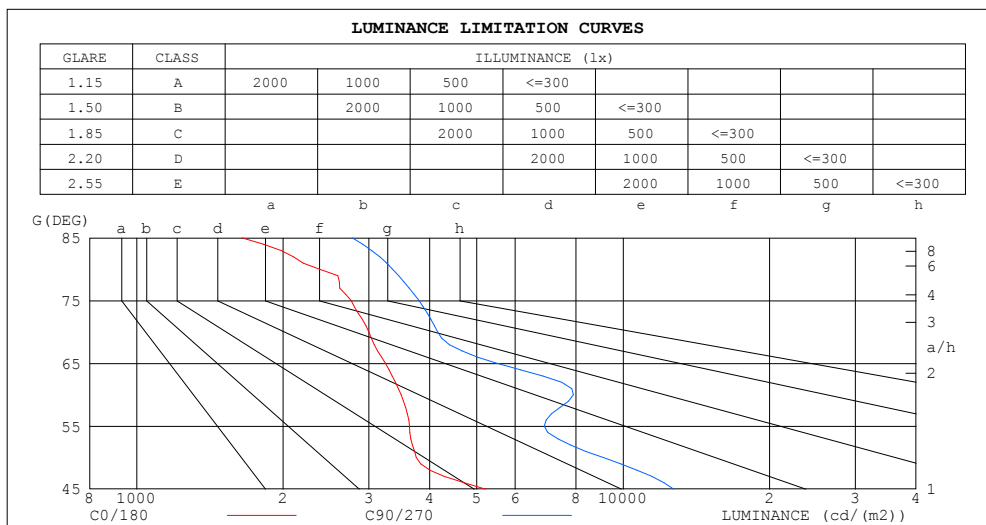
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	7767	7372	6587	7372	7767	7372	6587	7372	0- 10	685.7	685.7	5.09,5.09
20	6558	6664	5337	6664	6558	6664	5337	6664	10- 20	1963	2649	19.7,19.7
30	6142	4585	4619	4585	6142	4585	4619	4585	20- 30	2574	5223	38.7,38.7
40	3699	4060	4671	4060	3699	4060	4671	4060	30- 40	3041	8265	61.3,61.3
50	1065	2733	2577	2733	1065	2733	2577	2733	40- 50	2493	10758	79.8,79.8
60	770.6	851.0	1741	851.0	770.6	851.0	1741	851.0	50- 60	1314	12072	89.6,89.6
70	452.6	537.1	626.8	537.1	452.6	537.1	626.8	537.1	60- 70	786.1	12858	95.4,95.4
80	181.9	226.1	257.1	226.1	181.9	226.1	257.1	226.1	70- 80	397.6	13256	98.3,98.3
90	3.469	10.43	6.085	10.43	3.469	10.43	6.085	10.43	80- 90	107.8	13364	99.1,99.1
100	4.913	8.263	8.529	8.263	4.913	8.263	8.529	8.263	90-100	7.535	13371	99.2,99.2
110	9.418	11.70	12.33	11.70	9.418	11.70	12.33	11.70	100-110	9.729	13381	99.3,99.3
120	15.36	16.77	16.69	16.77	15.36	16.77	16.69	16.77	110-120	13.53	13394	99.4,99.4
130	21.96	21.39	21.59	21.39	21.96	21.39	21.59	21.39	120-130	16.95	13411	99.5,99.5
140	26.74	26.13	27.01	26.13	26.74	26.13	27.01	26.13	130-140	18.67	13430	99.6,99.6
150	31.76	32.47	32.46	32.47	31.76	32.47	32.46	32.47	140-150	18.24	13448	99.8,99.8
160	38.86	37.57	37.58	37.57	38.86	37.57	37.58	37.57	150-160	16.21	13464	99.9,99.9
170	43.33	42.42	41.10	42.42	43.33	42.42	41.10	42.42	160-170	11.30	13476	100,100
180	47.45	45.19	42.88	45.19	47.45	45.19	42.88	45.19	170-180	4.163	13480	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2019-08-22

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:230.3V I:0.4577A P:101.7W PF:0.9642 Freq:49.99Hz Lamp Flux:13479.9x1 lm		
NAME: ST01-100W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1646	2773
80	2375	3357
75	2759	3805
70	3001	4156
65	3246	5507
60	3495	7898
55	3638	6887
50	3757	9090
45	5207	12699

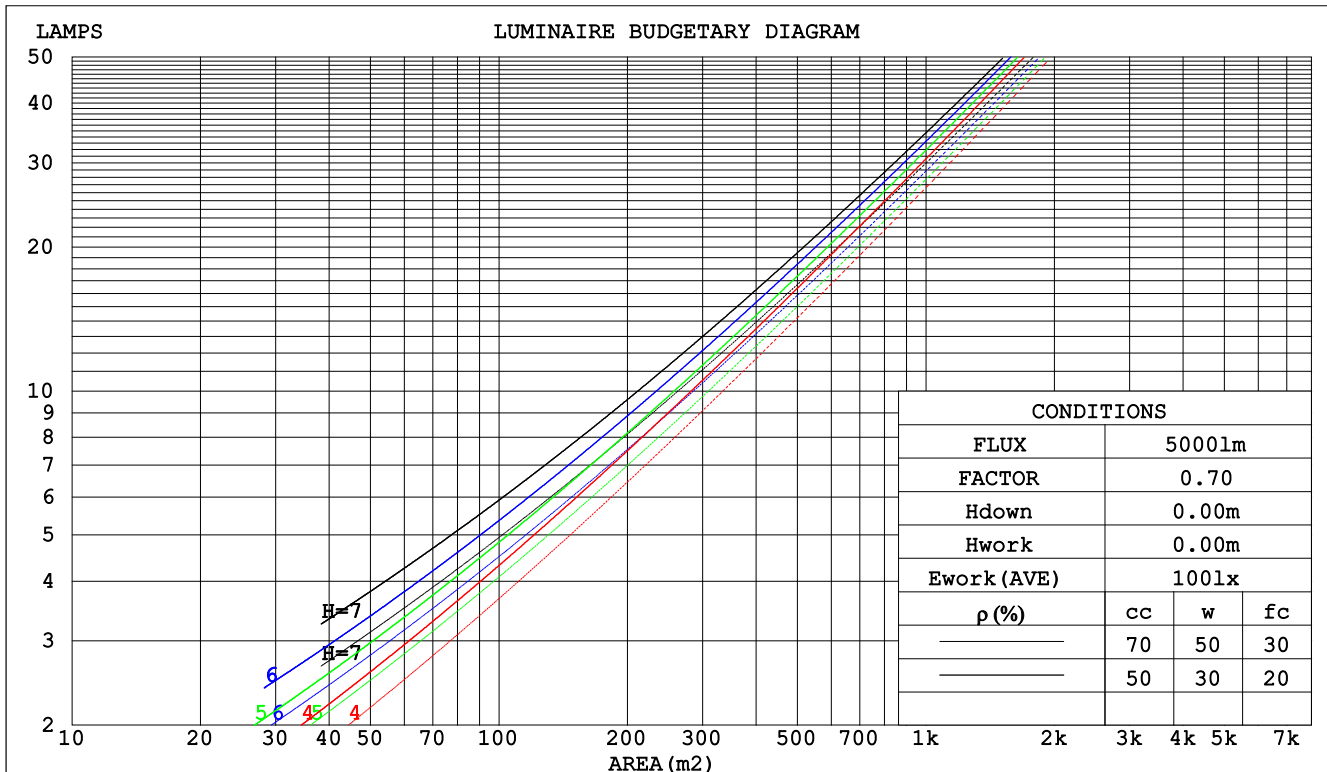
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC
Test Date: 2019-08-22

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:230.3V I:0.4577A P:101.7W PF:0.9642 Freq:49.99Hz Lamp Flux:13479.9x1 lm		
NAME: ST01-100W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.07	1.03	1.00	1.05	1.01	.99	1.00	.98	.95	.96	.94	.92	.93	.91	.89	.87
2.0	.96	.90	.85	.94	.89	.84	.90	.86	.82	.87	.83	.80	.84	.81	.78	.76
3.0	.86	.79	.74	.85	.78	.73	.82	.76	.72	.79	.74	.70	.76	.72	.69	.67
4.0	.78	.70	.65	.77	.70	.64	.74	.68	.63	.72	.67	.62	.70	.65	.61	.59
5.0	.71	.63	.57	.70	.62	.57	.68	.61	.56	.66	.60	.56	.64	.59	.55	.53
6.0	.65	.57	.51	.64	.56	.51	.62	.55	.50	.60	.54	.50	.59	.53	.49	.48
7.0	.59	.51	.46	.58	.51	.46	.57	.50	.45	.55	.49	.45	.54	.49	.45	.43
8.0	.55	.47	.42	.54	.47	.42	.53	.46	.41	.51	.45	.41	.50	.45	.41	.39
9.0	.50	.43	.38	.50	.43	.38	.49	.42	.38	.48	.42	.37	.47	.41	.37	.36
10.0	.47	.40	.35	.46	.39	.35	.45	.39	.35	.44	.39	.34	.44	.38	.34	.33



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2019-08-22

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:230.3V I:0.4577A P:101.7W PF:0.9642 Freq:49.99Hz Lamp Flux:13479.9x1 lm		
NAME: ST01-100W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	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	.249	.142	.045	.242	.138	.044	.229	.131	.042	.216	.125	.040	.205	.119	.038		
2.0	.239	.131	.040	.233	.128	.039	.221	.123	.038	.210	.118	.037	.200	.113	.036		
3.0	.225	.120	.036	.220	.118	.035	.210	.114	.035	.200	.110	.034	.191	.106	.033		
4.0	.212	.110	.032	.207	.108	.032	.198	.105	.031	.189	.102	.031	.182	.099	.030		
5.0	.199	.101	.029	.195	.100	.029	.187	.097	.029	.179	.094	.028	.172	.092	.028		
6.0	.187	.094	.027	.183	.092	.027	.176	.090	.026	.169	.088	.026	.163	.086	.025		
7.0	.176	.087	.025	.173	.086	.025	.166	.084	.024	.160	.082	.024	.155	.080	.024		
8.0	.166	.081	.023	.163	.080	.023	.157	.079	.022	.152	.077	.022	.147	.075	.022		
9.0	.157	.076	.021	.154	.075	.021	.149	.074	.021	.144	.072	.021	.140	.071	.021		
10.0	.149	.071	.020	.146	.071	.020	.142	.069	.020	.137	.068	.019	.133	.067	.019		

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	.197	.197	.197	.168	.168	.168	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.183	.163	.146	.156	.140	.125	.107	.096	.087	.062	.056	.050	.020	.018	.016	
2.0	.172	.139	.111	.147	.120	.096	.101	.083	.067	.058	.048	.039	.019	.016	.013	
3.0	.163	.121	.087	.139	.104	.076	.096	.072	.053	.055	.042	.031	.018	.014	.010	
4.0	.154	.107	.071	.132	.092	.061	.091	.064	.043	.053	.038	.026	.017	.012	.008	
5.0	.147	.096	.059	.126	.083	.051	.087	.058	.036	.050	.034	.021	.016	.011	.007	
6.0	.140	.087	.050	.120	.076	.043	.083	.053	.031	.048	.031	.018	.016	.010	.006	
7.0	.134	.080	.043	.115	.070	.038	.079	.049	.027	.046	.029	.016	.015	.009	.005	
8.0	.128	.075	.038	.110	.065	.033	.076	.045	.024	.044	.027	.014	.014	.009	.005	
9.0	.122	.070	.034	.105	.060	.030	.073	.042	.021	.042	.025	.013	.014	.008	.004	
10.0	.117	.065	.031	.101	.057	.027	.070	.040	.019	.041	.024	.011	.013	.008	.004	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2019-08-22

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:230.3V I:0.4577A P:101.7W PF:0.9642 Freq:49.99Hz Lamp Flux:13479.9x1 lm										
NAME: ST01-100W-4000K-1500X350					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: EVRAN					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	7.9	9.2	8.1	9.4	9.6	11.0	12.3	11.2	12.5	12.7
3H	8.5	9.6	8.8	9.9	10.1	11.5	12.6	11.8	12.9	13.1
4H	8.7	9.9	9.0	10.1	10.4	11.6	12.8	12.0	13.0	13.3
6H	8.9	10.0	9.3	10.3	10.5	11.8	12.8	12.1	13.1	13.4
8H	9.0	10.0	9.3	10.3	10.6	11.8	12.8	12.2	13.1	13.4
12H	9.0	10.0	9.3	10.2	10.6	11.8	12.8	12.2	13.1	13.4
4H 2H	8.2	9.4	8.5	9.6	9.9	10.9	12.0	11.2	12.3	12.6
3H	9.0	10.0	9.4	10.3	10.6	11.6	12.5	11.9	12.8	13.1
4H	9.4	10.3	9.8	10.6	11.0	11.9	12.7	12.2	13.1	13.4
6H	9.7	10.5	10.1	10.9	11.2	12.1	12.9	12.5	13.3	13.6
8H	9.8	10.5	10.2	10.9	11.3	12.2	12.9	12.6	13.3	13.7
12H	9.8	10.5	10.3	10.9	11.3	12.2	12.9	12.7	13.3	13.7
8H 4H	9.6	10.3	10.0	10.7	11.1	11.9	12.6	12.3	13.0	13.4
6H	10.0	10.6	10.5	11.1	11.5	12.2	12.8	12.7	13.2	13.7
8H	10.2	10.7	10.7	11.1	11.6	12.4	12.9	12.8	13.3	13.8
12H	10.3	10.7	10.7	11.2	11.7	12.5	12.9	13.0	13.4	13.9
12H 4H	9.6	10.3	10.1	10.7	11.1	11.9	12.5	12.3	12.9	13.3
6H	10.1	10.6	10.6	11.1	11.5	12.2	12.8	12.7	13.2	13.7
8H	10.3	10.7	10.7	11.2	11.7	12.4	12.8	12.9	13.3	13.8
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 1.5					+ 0.9 / - 1.1				
1.5H	+ 1.6 / - 1.4					+ 0.9 / - 0.9				
2.0H	+ 0.7 / - 0.5					+ 2.2 / - 2.0				

CIE Pub.117, 13480 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 9.0)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2019-08-22

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:230.3V I:0.4577A P:101.7W PF:0.9642 Freq:49.99Hz Lamp Flux:13479.9x1 lm		
NAME: ST01-100W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:

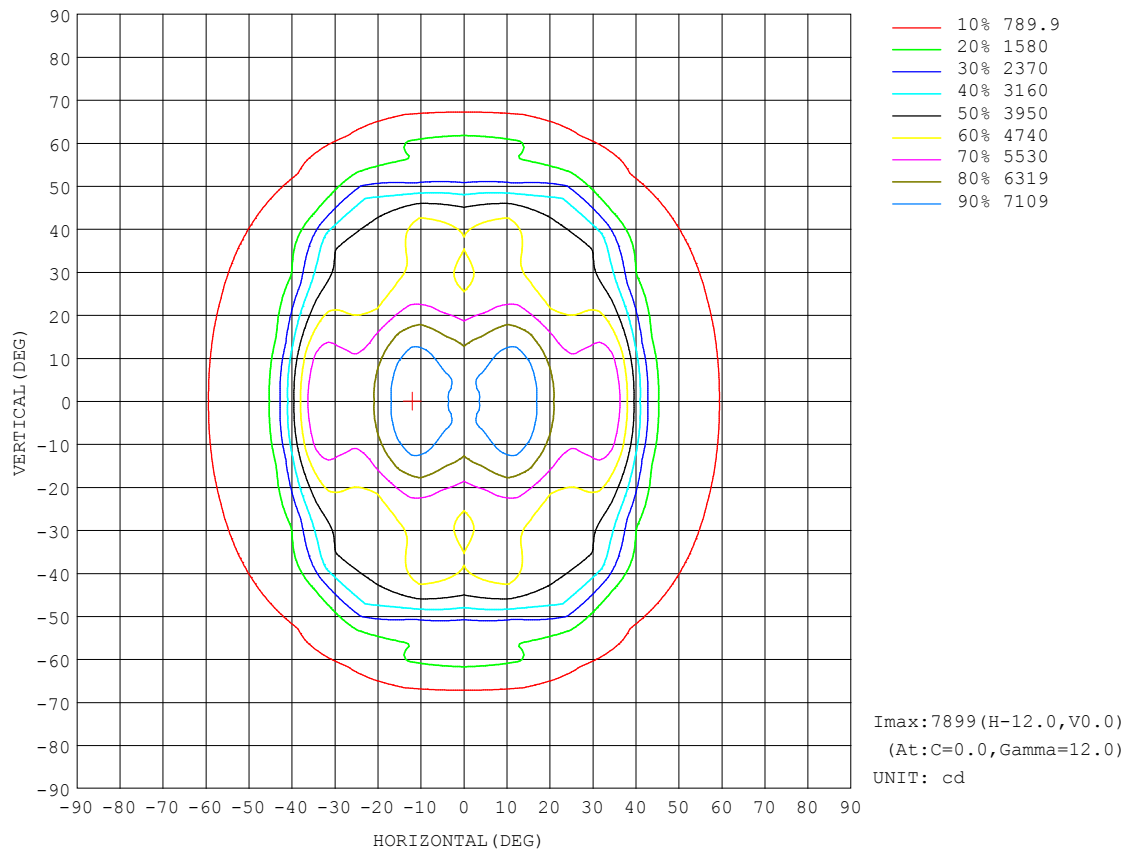
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	67	58	52	67	57	52	66	57	51	46
0.80	77	68	61	76	67	61	74	66	61	55
1.00	85	76	70	84	75	70	82	76	69	63
1.25	91	83	77	90	82	76	87	80	76	69
1.50	95	87	82	94	86	81	91	85	80	74
2.00	101	94	89	99	93	88	96	90	86	80
2.50	103	97	93	102	96	92	98	93	90	82
3.00	106	101	96	104	99	95	100	96	93	85
4.00	109	105	101	107	103	100	103	100	97	88
5.00	111	107	104	109	105	102	104	102	99	90
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: 2019-08-22

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:230.3V I:0.4577A P:101.7W PF:0.9642 Freq:49.99Hz Lamp Flux:13479.9x1 lm		
NAME: ST01-100W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:

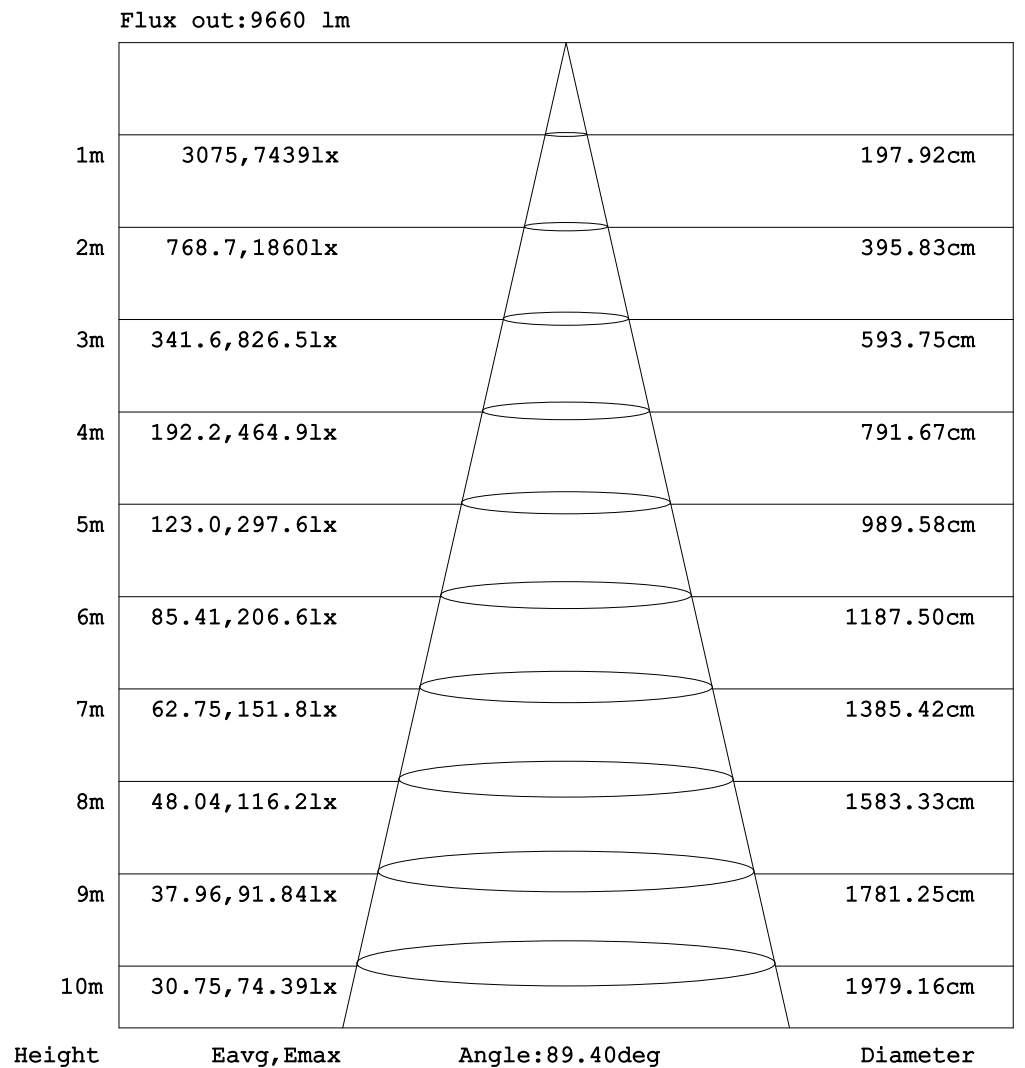


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2019-08-22

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:230.3V I:0.4577A P:101.7W PF:0.9642 Freq:49.99Hz Lamp Flux:13479.9x1 lm		
NAME: ST01-100W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:



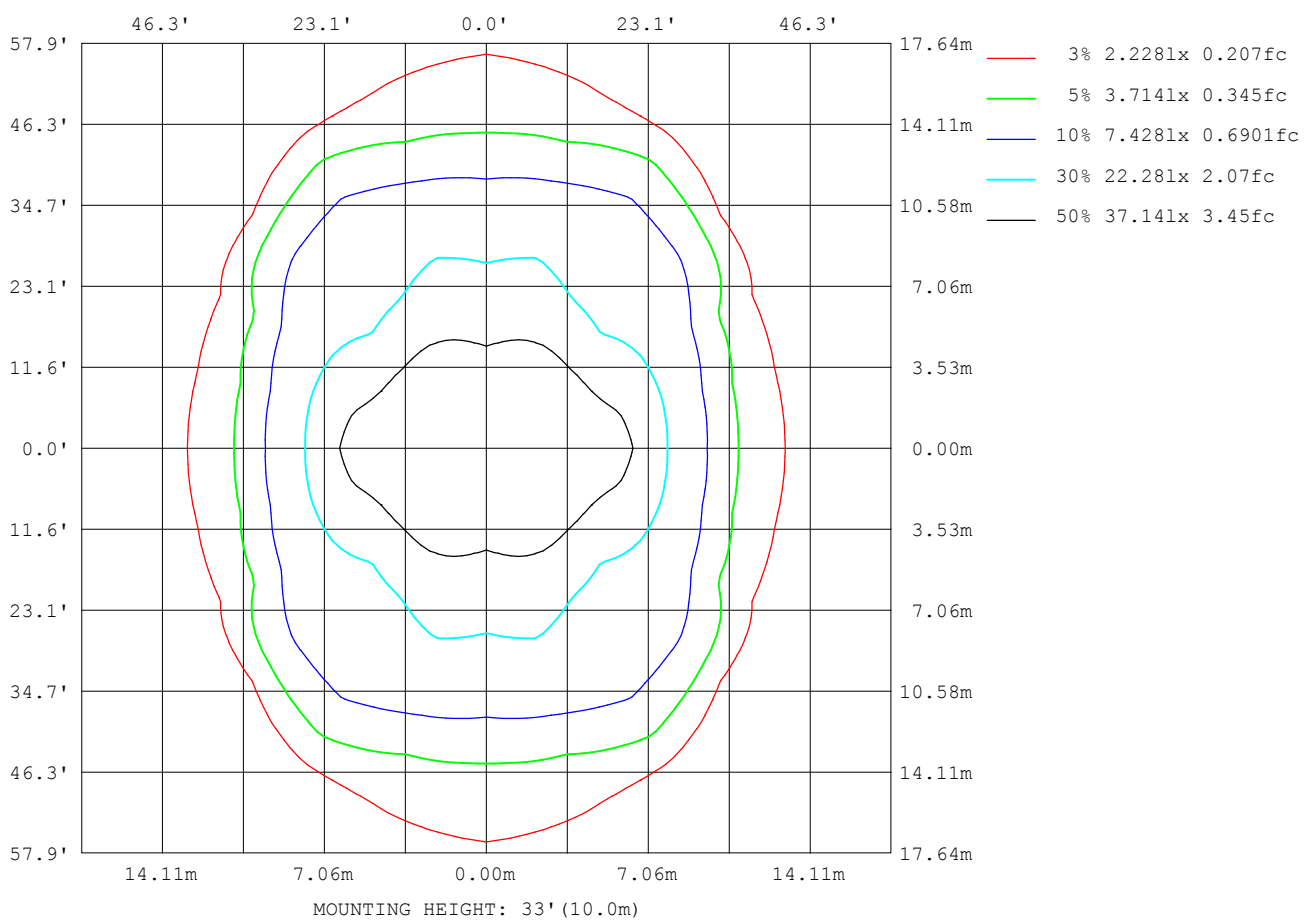
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2019-08-22

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:230.3V I:0.4577A P:101.7W PF:0.9642 Freq:49.99Hz Lamp Flux:13479.9x1 lm		
NAME: ST01-100W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2019-08-22

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:230.3V I:0.4577A P:101.7W PF:0.9642 Freq:49.99Hz Lamp Flux:13479.9x1 lm		
NAME: ST01-100W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:

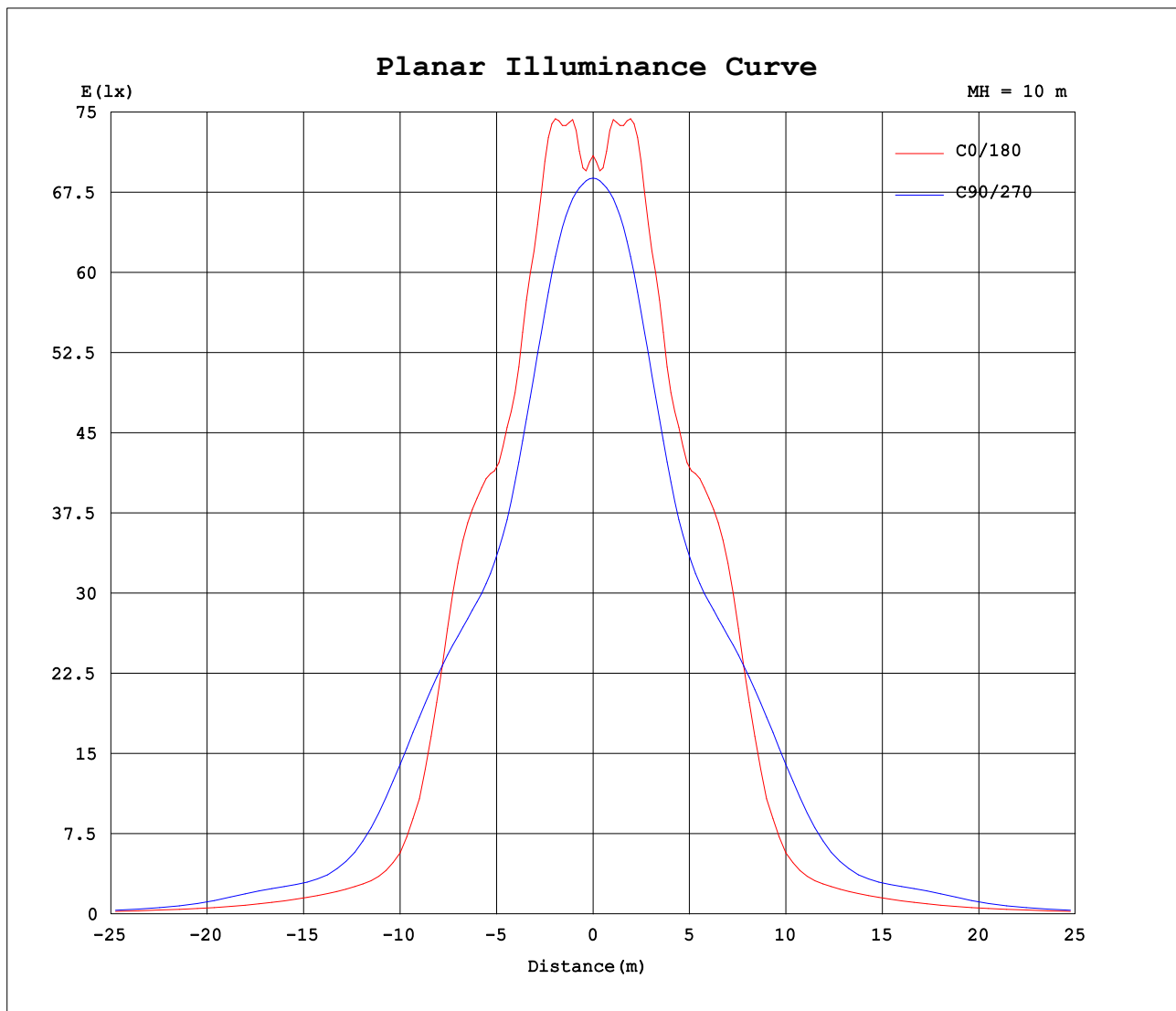
AvgL	cd/m2
L_0~180 (65) av	3246
L_0~180 (75) av	2759
L_0~180 (85) av	1646
L_90~270 (65) av	5507
L_90~270 (75) av	3805
L_90~270 (85) av	2773
L_45 (65) av	3746
L_45 (75) av	3294
L_45 (85) av	2480

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2019-08-22

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: 2019-08-22

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:230.3V I:0.4577A P:101.7W PF:0.9642 Freq:49.99Hz Lamp Flux:13479.9x1 lm		
NAME: ST01-100W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	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	7094	7009	6959	6919	6899	6885	6884	6885	6899	6919	6959	7009	7094	7009	6959	6919	6899	6885	6884
5	7415	7307	7194	7131	7107	6950	6826	6950	7107	7131	7194	7307	7415	7307	7194	7131	7107	6950	6826
10	7767	7678	7549	7372	7014	6904	6587	6904	7014	7372	7549	7678	7767	7678	7549	7372	7014	6904	6587
15	7486	7507	7551	7332	6897	6377	6034	6377	6897	7332	7551	7507	7486	7507	7551	7332	6897	6377	6034
20	6558	6581	6678	6664	6364	5712	5337	5712	6364	6664	6678	6581	6558	6581	6678	6664	6364	5712	5337
25	5878	5815	5647	5591	5609	5183	4766	5183	5609	5591	5647	5815	5878	5815	5647	5591	5609	5183	4766
30	6142	5864	5119	4585	4900	5006	4619	5006	4900	4585	5119	5864	6142	5864	5119	4585	4900	5006	4619
35	5972	5793	4929	4082	4455	5111	4733	5111	4455	4082	4929	5793	5972	5793	4929	4082	4455	5111	4733
40	3699	3938	4163	4060	4204	5135	4671	5135	4204	4060	4163	3938	3699	3938	4163	4060	4204	5135	4671
45	1624	1763	2522	3940	4029	4475	3960	4475	4029	3940	2522	1763	1624	1763	2522	3940	4029	4475	3960
50	1065	1095	1245	2733	3423	2899	2577	2899	3423	2733	1245	1095	1065	1095	1245	2733	3423	2899	2577
55	920	925	946	1227	2094	1689	1742	1689	2094	1227	946	925	920	925	946	1227	2094	1689	1742
60	771	781	811	851	1191	1614	1741	1614	1191	851	811	781	771	781	811	851	1191	1614	1741
65	605	618	654	698	792	1075	1026	1075	792	698	654	618	605	618	654	698	792	1075	1026
70	453	465	495	537	589	618	627	618	589	537	495	465	453	465	495	537	589	618	627
75	315	325	350	376	400	422	434	422	400	376	350	325	315	325	350	376	400	422	434
80	182	191	210	226	238	250	257	250	238	226	210	191	182	191	210	226	238	250	257
85	63.3	72.1	83.8	95.3	107	108	107	108	107	95.3	83.8	72.1	63.3	72.1	83.8	95.3	107	108	107
90	3.47	6.45	8.48	10.4	11.4	10.5	6.09	10.5	11.4	10.4	8.48	6.45	3.47	6.45	8.48	10.4	11.4	10.5	6.09
95	3.57	4.43	6.04	8.01	8.87	7.38	6.71	7.38	8.87	8.01	6.04	4.43	3.57	4.43	6.04	8.01	8.87	7.38	6.71
100	4.91	5.86	7.36	8.26	8.37	8.57	8.53	8.57	8.37	8.26	7.36	5.86	4.91	5.86	7.36	8.26	8.37	8.57	8.53
105	7.02	7.64	8.47	9.21	10.4	10.5	10.4	10.5	10.4	9.21	8.47	7.64	7.02	7.64	8.47	9.21	10.4	10.5	10.4
110	9.42	9.65	10.3	11.7	12.3	12.5	12.3	12.5	12.3	11.7	10.3	9.65	9.42	9.65	10.3	11.7	12.3	12.5	12.3
115	11.8	12.3	13.1	13.9	14.6	14.6	14.4	14.6	14.6	13.9	13.1	12.3	11.8	12.3	13.1	13.9	14.6	14.6	14.4
120	15.4	15.1	15.7	16.8	16.9	16.8	16.7	16.8	16.9	16.8	15.7	15.1	15.4	15.1	15.7	16.8	16.9	16.8	16.7
125	18.2	18.4	19.0	19.4	19.0	19.1	19.1	19.1	19.0	19.4	19.0	18.4	18.2	18.4	19.0	19.4	19.0	19.1	19.1
130	22.0	22.1	22.1	21.4	21.4	21.5	21.6	21.5	21.4	21.4	22.1	22.1	22.0	22.1	22.1	21.4	21.4	21.5	21.6
135	25.1	24.9	24.1	23.4	24.2	24.0	24.3	24.0	24.2	23.4	24.1	24.9	25.1	24.9	24.1	23.4	24.2	24.0	24.3
140	26.7	26.4	26.0	26.1	27.0	26.6	27.0	26.6	27.0	26.1	26.0	26.4	26.7	26.4	26.0	26.1	27.0	26.6	27.0
145	28.5	28.4	28.7	29.3	29.7	29.2	29.7	29.2	29.7	29.3	28.7	28.4	28.5	28.4	28.7	29.3	29.7	29.2	29.7
150	31.8	31.8	32.3	32.5	32.3	32.0	32.5	32.0	32.3	32.5	32.3	31.8	31.8	31.8	32.3	32.5	32.3	32.0	32.5
155	35.9	35.7	35.6	35.3	35.0	34.8	35.1	34.8	35.0	35.3	35.6	35.7	35.9	35.7	35.6	35.3	35.0	34.8	35.1
160	38.9	38.6	37.9	37.6	37.7	37.5	37.6	37.5	37.7	37.6	37.9	38.6	38.9	38.6	37.9	37.6	37.7	37.5	37.6
165	40.9	40.5	39.7	39.9	40.2	39.8	39.6	39.8	40.2	39.9	39.7	40.5	40.9	40.5	39.7	39.9	40.2	39.8	39.6
170	43.3	42.7	42.1	42.4	42.3	41.6	41.1	41.6	42.3	42.4	42.1	42.7	43.3	42.7	42.1	42.4	42.3	41.6	41.1
175	46.0	45.6	45.0	44.4	43.7	43.0	42.3	43.0	43.7	44.4	45.0	45.6	46.0	45.6	45.0	44.4	43.7	43.0	42.3
180	47.5	47.1	46.3	45.2	44.4	43.7	42.9	43.7	44.4	45.2	46.3	47.1	47.5	47.1	46.3	45.2	44.4	43.7	42.9

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2019-08-22

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:230.3V I:0.4577A P:101.7W PF:0.9642 Freq:49.99Hz Lamp Flux:13479.9x1 lm		
NAME: ST01-100W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	6885	6899	6919	6959	7009														
5	6950	7107	7131	7194	7307														
10	6904	7014	7372	7549	7678														
15	6377	6897	7332	7551	7507														
20	5712	6364	6664	6678	6581														
25	5183	5609	5591	5647	5815														
30	5006	4900	4585	5119	5864														
35	5111	4455	4082	4929	5793														
40	5135	4204	4060	4163	3938														
45	4475	4029	3940	2522	1763														
50	2899	3423	2733	1245	1095														
55	1689	2094	1227	946	925														
60	1614	1191	851	811	781														
65	1075	792	698	654	618														
70	618	589	537	495	465														
75	422	400	376	350	325														
80	250	238	226	210	191														
85	108	107	95.3	83.8	72.1														
90	10.5	11.4	10.4	8.48	6.45														
95	7.38	8.87	8.01	6.04	4.43														
100	8.57	8.37	8.26	7.36	5.86														
105	10.5	10.4	9.21	8.47	7.64														
110	12.5	12.3	11.7	10.3	9.65														
115	14.6	14.6	13.9	13.1	12.3														
120	16.8	16.9	16.8	15.7	15.1														
125	19.1	19.0	19.4	19.0	18.4														
130	21.5	21.4	21.4	22.1	22.1														
135	24.0	24.2	23.4	24.1	24.9														
140	26.6	27.0	26.1	26.0	26.4														
145	29.2	29.7	29.3	28.7	28.4														
150	32.0	32.3	32.5	32.3	31.8														
155	34.8	35.0	35.3	35.6	35.7														
160	37.5	37.7	37.6	37.9	38.6														
165	39.8	40.2	39.9	39.7	40.5														
170	41.6	42.3	42.4	42.1	42.7														
175	43.0	43.7	44.4	45.0	45.6														
180	43.7	44.4	45.2	46.3	47.1														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2019-08-22

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	7094	7009	6959	6919	6899	6885	6884	6885	6899	6919
3.0	7007	7006	7042	7057	7012	6911	6857	6911	7012	7057
6.0	7552	7449	7301	7159	7119	6967	6801	6967	7119	7159
9.0	7654	7584	7517	7319	7041	6952	6666	6952	7041	7319
12.0	7899	7838	7654	7390	6989	6744	6403	6744	6989	7390
15.0	7486	7507	7551	7332	6897	6377	6034	6377	6897	7332
18.0	6966	6983	7064	7033	6611	5972	5619	5972	6611	7033
21.0	6291	6367	6447	6476	6237	5585	5198	5585	6237	6476
24.0	5972	5881	5833	5842	5782	5264	4841	5264	5782	5842
27.0	5863	5739	5321	5132	5296	5065	4656	5065	5296	5132
30.0	6142	5864	5119	4585	4900	5006	4619	5006	4900	4585
33.0	6206	5947	4994	4171	4609	5054	4683	5054	4609	4171
36.0	5668	5564	4868	4049	4393	5140	4750	5140	4393	4049
39.0	4220	4417	4408	4039	4254	5162	4719	5162	4254	4039
42.0	2630	2929	3588	4104	4127	4982	4488	4982	4127	4104
45.0	1624	1763	2522	3940	4029	4475	3960	4475	4029	3940
48.0	1183	1221	1618	3375	3742	3598	3153	3598	3742	3375
51.0	1034	1042	1156	2386	3215	2564	2324	2564	3215	2386
54.0	944.9	948.4	989.5	1475	2385	1840	1813	1840	2385	1475
57.0	864.9	872.2	889.9	1002	1596	1582	1711	1582	1596	1002
60.0	770.6	780.9	810.6	851.0	1191	1614	1741	1614	1191	851.0
63.0	671.3	683.7	718.7	758.6	956.3	1409	1372	1409	956.3	758.6
66.0	571.8	585.5	621.9	666.8	738.3	926.7	901.1	926.7	738.3	666.8
69.0	480.2	492.4	525.3	569.6	623.1	668.2	670.2	668.2	623.1	569.6
72.0	396.7	409.2	436.0	471.5	513.7	536.5	548.7	536.5	513.7	471.5
75.0	314.9	325.1	349.7	376.0	400.0	422.1	434.3	422.1	400.0	376.0
78.0	239.3	244.7	263.9	284.6	297.8	316.4	325.1	316.4	297.8	284.6
81.0	151.7	163.8	181.6	198.4	210.3	217.9	225.3	217.9	210.3	198.4
84.0	84.05	92.60	105.0	119.4	132.0	132.2	134.5	132.2	132.0	119.4
87.0	35.07	38.81	45.21	52.13	58.37	62.53	52.56	62.53	58.37	52.13
90.0	3.469	6.446	8.482	10.43	11.36	10.50	6.085	10.50	11.36	10.43
93.0	3.301	4.115	5.516	7.652	9.007	8.528	6.068	8.528	9.007	7.652
96.0	3.727	4.646	6.326	8.138	8.650	7.377	7.049	7.377	8.650	8.138
99.0	4.548	5.516	7.141	8.254	8.250	8.238	8.160	8.238	8.250	8.254
102.0	5.740	6.560	7.768	8.448	8.996	9.287	9.321	9.287	8.996	8.448
105.0	7.019	7.637	8.466	9.208	10.37	10.48	10.39	10.48	10.37	9.208
108.0	8.338	8.794	9.442	10.54	11.41	11.70	11.47	11.70	11.41	10.54
111.0	9.978	10.14	10.72	12.07	12.81	12.94	12.73	12.94	12.81	12.07
114.0	11.17	11.58	12.64	13.36	14.19	14.20	14.02	14.20	14.19	13.36
117.0	13.64	13.77	13.97	15.04	15.52	15.50	15.37	15.50	15.52	15.04
120.0	15.36	15.13	15.67	16.77	16.88	16.81	16.69	16.81	16.88	16.77
123.0	16.82	16.95	17.63	18.45	18.16	18.21	18.12	18.21	18.16	18.45
126.0	18.95	19.12	19.73	19.85	19.45	19.61	19.57	19.61	19.45	19.85
129.0	21.16	21.40	21.61	21.01	20.92	21.02	21.07	21.02	20.92	21.01
132.0	23.44	23.45	23.05	22.15	22.52	22.48	22.64	22.48	22.52	22.15
135.0	25.13	24.88	24.15	23.43	24.17	23.97	24.26	23.97	24.17	23.43
138.0	26.14	25.86	25.18	24.97	25.85	25.52	25.91	25.52	25.85	24.97
141.0	27.03	26.75	26.45	26.73	27.50	27.08	27.54	27.08	27.50	26.73
144.0	28.02	27.92	28.11	28.63	29.11	28.66	29.15	28.66	29.11	28.63
147.0	29.63	29.63	30.09	30.58	30.73	30.31	30.80	30.31	30.73	30.58
150.0	31.76	31.77	32.27	32.47	32.31	31.97	32.46	31.97	32.31	32.47
153.0	34.23	34.13	34.34	34.19	33.90	33.64	34.04	33.64	33.90	34.19
156.0	36.61	36.36	36.10	35.76	35.54	35.35	35.61	35.35	35.54	35.76
159.0	38.35	38.14	37.53	37.13	37.18	37.01	37.10	37.01	37.18	37.13
162.0	39.74	39.41	38.63	38.50	38.75	38.52	38.44	38.52	38.75	38.50
165.0	40.95	40.46	39.72	39.92	40.20	39.83	39.57	39.83	40.20	39.92
168.0	42.34	41.74	41.06	41.42	41.52	40.97	40.54	40.97	41.52	41.42
171.0	43.88	43.27	42.71	42.92	42.66	41.96	41.38	41.96	42.66	42.92
174.0	45.54	45.09	44.50	44.14	43.52	42.79	42.07	42.79	43.52	44.14
177.0	46.91	46.54	45.82	44.86	44.09	43.41	42.59	43.41	44.09	44.86
180.0	47.45	47.12	46.33	45.19	44.37	43.71	42.88	43.71	44.37	45.19
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	6959	7009	7094	7009	6959	6919	6899	6885	6884	6885
3.0	7042	7006	7007	7042	7057	7012	6911	6857	6911	6911
6.0	7301	7449	7552	7449	7301	7159	7119	6967	6801	6967
9.0	7517	7584	7654	7584	7517	7319	7041	6952	6666	6952
12.0	7654	7838	7899	7838	7654	7390	6989	6744	6403	6744
15.0	7551	7507	7486	7507	7551	7332	6897	6377	6034	6377
18.0	7064	6983	6966	6983	7064	7033	6611	5972	5619	5972
21.0	6447	6367	6291	6367	6447	6476	6237	5585	5198	5585
24.0	5833	5881	5972	5833	5842	5782	5264	4841	4841	5264
27.0	5321	5739	5863	5739	5321	5132	5296	5065	4656	5065
30.0	5119	5864	6142	5864	5119	4585	4900	5006	4619	5006

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC
Test Date: 2019-08-22

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	4994	5947	6206	5947	4994	4171	4609	5054	4683	5054
36.0	4868	5564	5668	5564	4868	4049	4393	5140	4750	5140
39.0	4408	4417	4220	4417	4408	4039	4254	5162	4719	5162
42.0	3588	2929	2630	2929	3588	4104	4127	4982	4488	4982
45.0	2522	1763	1624	1763	2522	3940	4029	4475	3960	4475
48.0	1618	1221	1183	1221	1618	3375	3742	3598	3153	3598
51.0	1156	1042	1034	1042	1156	2386	3215	2564	2324	2564
54.0	989.5	948.4	944.9	948.4	989.5	1475	2385	1840	1813	1840
57.0	889.9	872.2	864.9	872.2	889.9	1002	1596	1582	1711	1582
60.0	810.6	780.9	770.6	780.9	810.6	851.0	1191	1614	1741	1614
63.0	718.7	683.7	671.3	683.7	718.7	758.6	956.3	1409	1372	1409
66.0	621.9	585.5	571.8	585.5	621.9	666.8	738.3	926.7	901.1	926.7
69.0	525.3	492.4	480.2	492.4	525.3	569.6	623.1	668.2	670.2	668.2
72.0	436.0	409.2	396.7	409.2	436.0	471.5	513.7	536.5	548.7	536.5
75.0	349.7	325.1	314.9	325.1	349.7	376.0	400.0	422.1	434.3	422.1
78.0	263.9	244.7	239.3	244.7	263.9	284.6	297.8	316.4	325.1	316.4
81.0	181.6	163.8	151.7	163.8	181.6	198.4	210.3	217.9	225.3	217.9
84.0	105.0	92.60	84.05	92.60	105.0	119.4	132.0	132.2	134.5	132.2
87.0	45.21	38.81	35.07	38.81	45.21	52.13	58.37	62.53	52.56	62.53
90.0	8.482	6.446	3.469	6.446	8.482	10.43	11.36	10.50	6.085	10.50
93.0	5.516	4.115	3.301	4.115	5.516	7.652	9.007	8.528	6.068	8.528
96.0	6.326	4.646	3.727	4.646	6.326	8.138	8.650	7.377	7.049	7.377
99.0	7.141	5.516	4.548	5.516	7.141	8.254	8.250	8.238	8.160	8.238
102.0	7.768	6.560	5.740	6.560	7.768	8.448	8.996	9.287	9.321	9.287
105.0	8.466	7.637	7.019	7.637	8.466	9.208	10.37	10.48	10.39	10.48
108.0	9.442	8.794	8.338	8.794	9.442	10.54	11.41	11.70	11.47	11.70
111.0	10.72	10.14	9.978	10.14	10.72	12.07	12.81	12.94	12.73	12.94
114.0	12.64	11.58	11.17	11.58	12.64	13.36	14.19	14.20	14.02	14.20
117.0	13.97	13.77	13.64	13.77	13.97	15.04	15.52	15.50	15.37	15.50
120.0	15.67	15.13	15.36	15.13	15.67	16.77	16.88	16.81	16.69	16.81
123.0	17.63	16.95	16.82	16.95	17.63	18.45	18.16	18.21	18.12	18.21
126.0	19.73	19.12	18.95	19.12	19.73	19.85	19.45	19.61	19.57	19.61
129.0	21.61	21.40	21.16	21.40	21.61	21.01	20.92	21.02	21.07	21.02
132.0	23.05	23.45	23.44	23.45	23.05	22.15	22.52	22.48	22.64	22.48
135.0	24.15	24.88	25.13	24.88	24.15	23.43	24.17	23.97	24.26	23.97
138.0	25.18	25.86	26.14	25.86	25.18	24.97	25.85	25.52	25.91	25.52
141.0	26.45	26.75	27.03	26.75	26.45	26.73	27.50	27.08	27.54	27.08
144.0	28.11	27.92	28.02	27.92	28.11	28.63	29.11	28.66	29.15	28.66
147.0	30.09	29.63	29.63	29.63	30.09	30.58	30.73	30.31	30.80	30.31
150.0	32.27	31.77	31.76	31.77	32.27	32.47	32.31	31.97	32.46	31.97
153.0	34.34	34.13	34.23	34.13	34.34	34.19	33.90	33.64	34.04	33.64
156.0	36.10	36.36	36.61	36.36	36.10	35.76	35.54	35.35	35.61	35.35
159.0	37.53	38.14	38.35	38.14	37.53	37.13	37.18	37.01	37.10	37.01
162.0	38.63	39.41	39.74	39.41	38.63	38.50	38.75	38.52	38.44	38.52
165.0	39.72	40.46	40.95	40.46	39.72	39.92	40.20	39.83	39.57	39.83
168.0	41.06	41.74	42.34	41.74	41.06	41.42	41.52	40.97	40.54	40.97
171.0	42.71	43.27	43.88	43.27	42.71	42.92	42.66	41.96	41.38	41.96
174.0	44.50	45.09	45.54	45.09	44.50	44.14	43.52	42.79	42.07	42.79
177.0	45.82	46.54	46.91	46.54	45.82	44.86	44.09	43.41	42.59	43.41
180.0	46.33	47.12	47.45	47.12	46.33	45.19	44.37	43.71	42.88	43.71
G/C	300.0	315.0	330.0	345.0						
0.0	6899	6919	6959	7009						
3.0	7012	7057	7042	7006						
6.0	7119	7159	7301	7449						
9.0	7041	7319	7517	7584						
12.0	6989	7390	7654	7838						
15.0	6897	7332	7551	7507						
18.0	6611	7033	7064	6983						
21.0	6237	6476	6447	6367						
24.0	5782	5842	5833	5881						
27.0	5296	5132	5321	5739						
30.0	4900	4585	5119	5864						
33.0	4609	4171	4994	5947						
36.0	4393	4049	4868	5564						
39.0	4254	4039	4408	4417						
42.0	4127	4104	3588	2929						
45.0	4029	3940	2522	1763						
48.0	3742	3375	1618	1221						
51.0	3215	2386	1156	1042						
54.0	2385	1475	989.5	948.4						
57.0	1596	1002	889.9	872.2						
60.0	1191	851.0	810.6	780.9						
63.0	956.3	758.6	718.7	683.7						
66.0	738.3	666.8	621.9	585.5						

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2019-08-22

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	623.1	569.6	525.3	492.4
72.0	513.7	471.5	436.0	409.2
75.0	400.0	376.0	349.7	325.1
78.0	297.8	284.6	263.9	244.7
81.0	210.3	198.4	181.6	163.8
84.0	132.0	119.4	105.0	92.60
87.0	58.37	52.13	45.21	38.81
90.0	11.36	10.43	8.482	6.446
93.0	9.007	7.652	5.516	4.115
96.0	8.650	8.138	6.326	4.646
99.0	8.250	8.254	7.141	5.516
102.0	8.996	8.448	7.768	6.560
105.0	10.37	9.208	8.466	7.637
108.0	11.41	10.54	9.442	8.794
111.0	12.81	12.07	10.72	10.14
114.0	14.19	13.36	12.64	11.58
117.0	15.52	15.04	13.97	13.77
120.0	16.88	16.77	15.67	15.13
123.0	18.16	18.45	17.63	16.95
126.0	19.45	19.85	19.73	19.12
129.0	20.92	21.01	21.61	21.40
132.0	22.52	22.15	23.05	23.45
135.0	24.17	23.43	24.15	24.88
138.0	25.85	24.97	25.18	25.86
141.0	27.50	26.73	26.45	26.75
144.0	29.11	28.63	28.11	27.92
147.0	30.73	30.58	30.09	29.63
150.0	32.31	32.47	32.27	31.77
153.0	33.90	34.19	34.34	34.13
156.0	35.54	35.76	36.10	36.36
159.0	37.18	37.13	37.53	38.14
162.0	38.75	38.50	38.63	39.41
165.0	40.20	39.92	39.72	40.46
168.0	41.52	41.42	41.06	41.74
171.0	42.66	42.92	42.71	43.27
174.0	43.52	44.14	44.50	45.09
177.0	44.09	44.86	45.82	46.54
180.0	44.37	45.19	46.33	47.12

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2019-08-22

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: