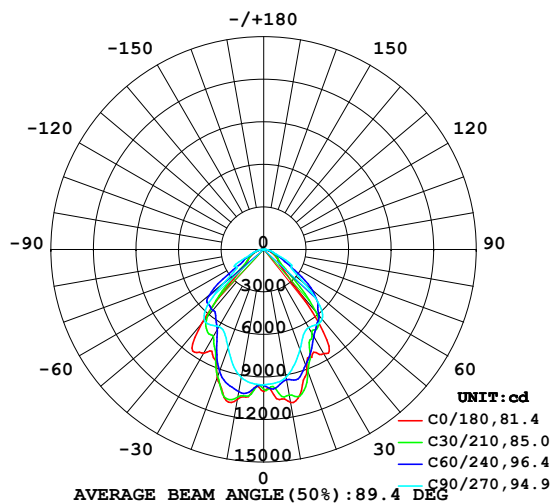


LUMINAIRE PHOTOMETRIC TEST REPORT

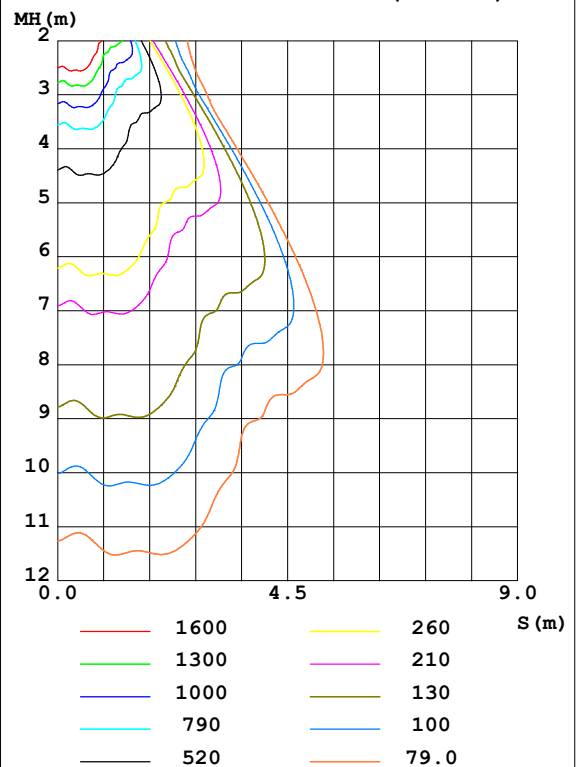
Test:U:230.3V I:0.6443A P:145.5W PF:0.9805 Freq:49.99Hz Lamp Flux:18859.2x1 lm		
NAME: ST01-150W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 129.64 lm/W			
MODEL		I _{max} (cd)	11050	S/MH (C0/180)	1.25
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH (C90/270)	0.96
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	18859	η UP,DN(C0-180)	0.4,49.0
NOMINAL FLUX(lm)	18859.2	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.5,50.1
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:

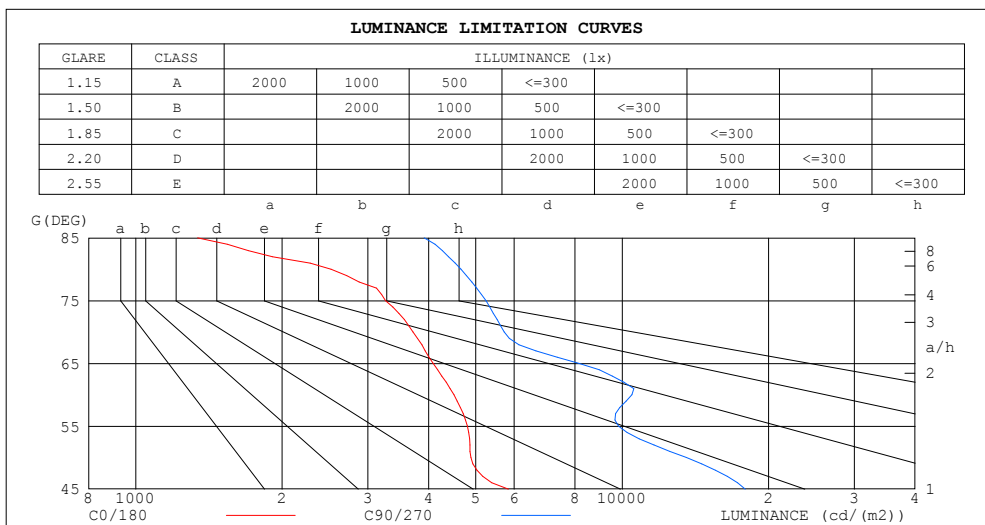
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1097	1030	914.5	1056	1073	1035	916.0	989.7	0- 10	955.4	955.4	5.07,5.07
20	895.8	941.1	750.5	939.6	960.2	939.8	737.1	910.5	10- 20	2740	3695	19.6,19.6
30	848.5	643.7	637.1	659.2	844.6	635.3	629.6	626.9	20- 30	3585	7280	38.6,38.6
40	388.9	561.2	641.8	552.7	679.2	538.8	651.8	581.9	30- 40	4221	11501	61,61
50	138.4	405.2	384.0	322.6	169.1	437.1	367.1	400.3	40- 50	3516	15017	79.6,79.6
60	99.40	116.9	230.9	119.1	118.5	125.9	239.7	118.0	50- 60	1860	16877	89.5,89.5
70	56.04	72.79	86.34	75.28	72.64	79.71	89.71	74.21	60- 70	1106	17983	95.4,95.4
80	19.30	29.62	35.72	31.66	33.71	34.30	36.26	30.79	70- 80	560.1	18543	98.3,98.3
90	0.3422	0.8565	0.7415	1.039	3.332	1.640	0.9622	1.257	80- 90	152.6	18696	99.1,99.1
100	0.5313	0.8459	0.9250	0.8149	0.8071	1.610	1.473	1.484	90-100	10.90	18706	99.2,99.2
110	1.075	1.203	1.389	1.224	1.575	2.081	2.075	1.831	100-110	13.71	18720	99.3,99.3
120	1.733	1.871	1.959	1.917	2.496	2.956	2.738	2.659	110-120	18.90	18739	99.4,99.4
130	2.645	2.411	2.603	2.548	3.505	3.651	3.472	3.370	120-130	23.79	18763	99.5,99.5
140	3.191	3.104	3.347	3.257	4.312	4.311	4.255	4.026	130-140	26.21	18789	99.6,99.6
150	4.024	3.992	4.125	4.056	4.964	5.075	5.012	5.092	140-150	25.66	18815	99.8,99.8
160	5.100	4.692	4.935	4.805	5.856	5.701	5.635	5.851	150-160	22.78	18837	99.9,99.9
170	5.903	5.651	5.582	5.801	6.292	6.158	5.967	6.213	160-170	15.86	18853	100,100
180	6.697	6.287	6.014	6.393	6.714	6.268	6.031	6.397	170-180	5.841	18859	100,100
DEG	LUMINOUS INTENSITY:×10cd									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:0.6443A P:145.5W PF:0.9805 Freq:49.99Hz Lamp Flux:18859.2x1 lm		
NAME: ST01-150W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1339	3915
80	2520	4665
75	3264	5244
70	3716	5724
65	4084	6148
60	4508	6673
55	4806	7030
50	4884	7147
45	5832	8705

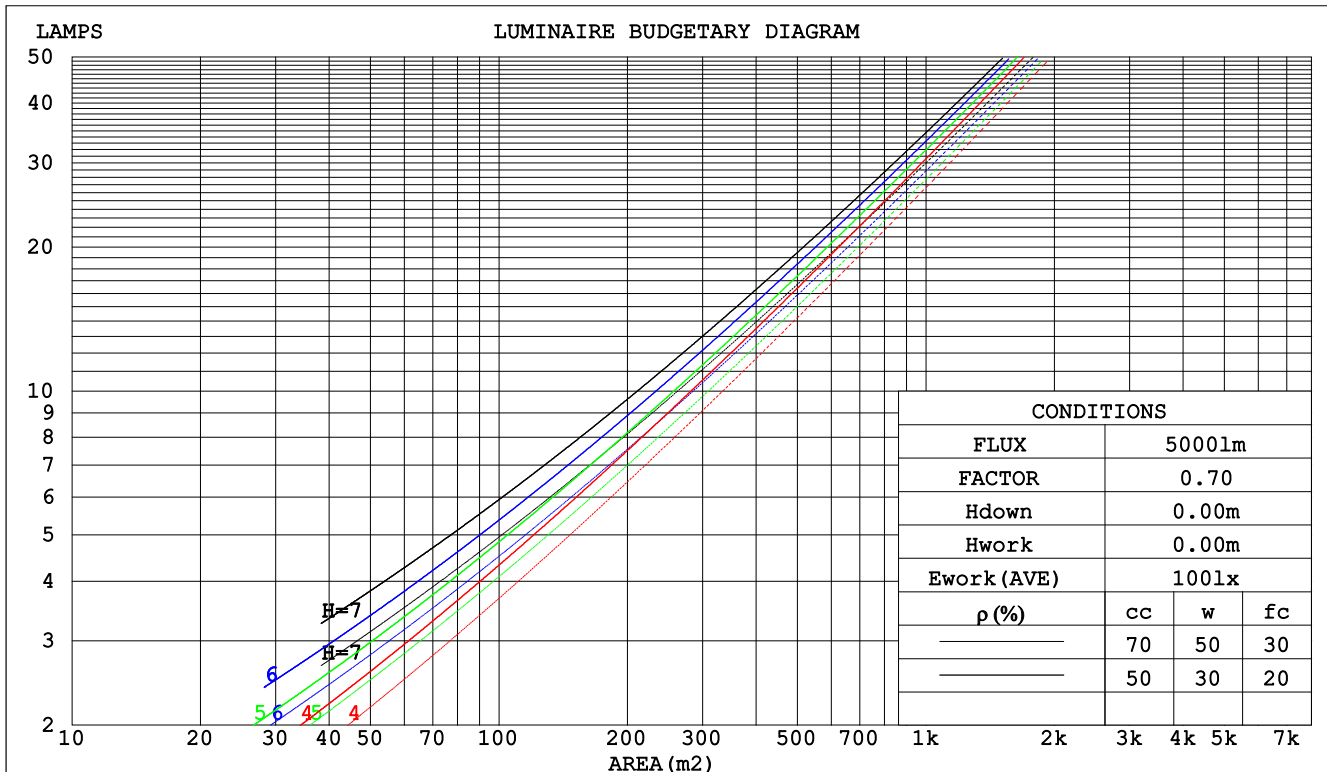
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2019-08-22

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:0.6443A P:145.5W PF:0.9805 Freq:49.99Hz Lamp Flux:18859.2x1 lm		
NAME: ST01-150W-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	1.04	1.01	.98	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	.84	.78	.73	.82	.76	.72	.79	.74	.70	.76	.72	.69	.67
4.0	.78	.70	.64	.76	.69	.64	.74	.68	.63	.72	.66	.62	.70	.65	.61	.59
5.0	.71	.63	.57	.70	.62	.57	.67	.61	.56	.65	.60	.55	.64	.59	.55	.53
6.0	.64	.57	.51	.64	.56	.51	.62	.55	.50	.60	.54	.50	.59	.53	.49	.47
7.0	.59	.51	.46	.58	.51	.46	.57	.50	.45	.55	.49	.45	.54	.49	.45	.43
8.0	.54	.47	.42	.54	.46	.41	.52	.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	.35
10.0	.47	.40	.35	.46	.39	.35	.45	.39	.34	.44	.38	.34	.43	.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:0.6443A P:145.5W PF:0.9805 Freq:49.99Hz Lamp Flux:18859.2x1 lm		
NAME: ST01-150W-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	.250	.142	.045	.243	.138	.044	.229	.131	.042	.217	.125	.040	.205	.119	.038		
2.0	.239	.131	.040	.233	.128	.040	.222	.123	.038	.211	.118	.037	.201	.114	.036		
3.0	.226	.120	.036	.220	.118	.036	.210	.114	.035	.201	.110	.034	.192	.106	.033		
4.0	.212	.110	.032	.207	.108	.032	.198	.105	.031	.190	.102	.031	.182	.099	.030		
5.0	.199	.101	.029	.195	.100	.029	.187	.097	.029	.179	.095	.028	.172	.092	.028		
6.0	.187	.094	.027	.183	.093	.027	.176	.090	.026	.170	.088	.026	.163	.086	.026		
7.0	.176	.087	.025	.173	.086	.025	.167	.084	.024	.161	.082	.024	.155	.080	.024		
8.0	.166	.081	.023	.163	.080	.023	.158	.079	.022	.152	.077	.022	.147	.076	.022		
9.0	.157	.076	.021	.155	.075	.021	.149	.074	.021	.145	.072	.021	.140	.071	.021		
10.0	.149	.072	.020	.147	.071	.020	.142	.070	.020	.138	.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	.133	.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	.088	.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	.043	.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:0.6443A P:145.5W PF:0.9805 Freq:49.99Hz Lamp Flux:18859.2x1 lm										
NAME: ST01-150W-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	7.5	8.8	7.7	9.0	9.2	11.0	12.3	11.3	12.5	12.7
3H	8.0	9.2	8.3	9.4	9.7	11.5	12.7	11.8	12.9	13.2
4H	8.2	9.4	8.6	9.6	9.9	11.7	12.8	12.0	13.1	13.3
6H	8.4	9.4	8.7	9.7	10.0	11.8	12.9	12.1	13.1	13.4
8H	8.4	9.4	8.7	9.7	10.0	11.8	12.9	12.2	13.1	13.4
12H	8.3	9.3	8.7	9.6	9.9	11.9	12.8	12.2	13.1	13.4
4H 2H	7.9	9.0	8.2	9.3	9.5	10.9	12.1	11.2	12.3	12.6
3H	8.6	9.6	9.0	9.9	10.2	11.6	12.6	11.9	12.9	13.2
4H	9.0	9.9	9.3	10.2	10.5	11.9	12.8	12.3	13.1	13.4
6H	9.2	10.0	9.6	10.3	10.7	12.1	12.9	12.5	13.3	13.6
8H	9.2	9.9	9.6	10.3	10.7	12.2	12.9	12.6	13.3	13.7
12H	9.2	9.9	9.6	10.3	10.7	12.3	12.9	12.7	13.3	13.7
8H 4H	9.2	9.9	9.6	10.3	10.7	11.9	12.6	12.3	13.0	13.4
6H	9.5	10.1	10.0	10.5	11.0	12.2	12.8	12.7	13.2	13.7
8H	9.6	10.1	10.1	10.6	11.0	12.4	12.9	12.8	13.3	13.8
12H	9.6	10.1	10.1	10.5	11.0	12.5	12.9	13.0	13.4	13.9
12H 4H	9.2	9.9	9.6	10.2	10.7	11.9	12.5	12.3	12.9	13.3
6H	9.6	10.1	10.0	10.5	11.0	12.2	12.8	12.7	13.2	13.7
8H	9.7	10.1	10.2	10.6	11.1	12.4	12.8	12.9	13.3	13.8
Variations with the observer position at spacings:										
S = 1.0H	+ 1.2 / - 1.6					+ 0.8 / - 1.1				
1.5H	+ 2.0 / - 1.5					+ 1.0 / - 0.8				
2.0H	+ 1.0 / - 0.6					+ 2.3 / - 2.0				

CIE Pub.117, 18859 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 10.2)

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:0.6443A P:145.5W PF:0.9805 Freq:49.99Hz Lamp Flux:18859.2x1 lm		
NAME: ST01-150W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:

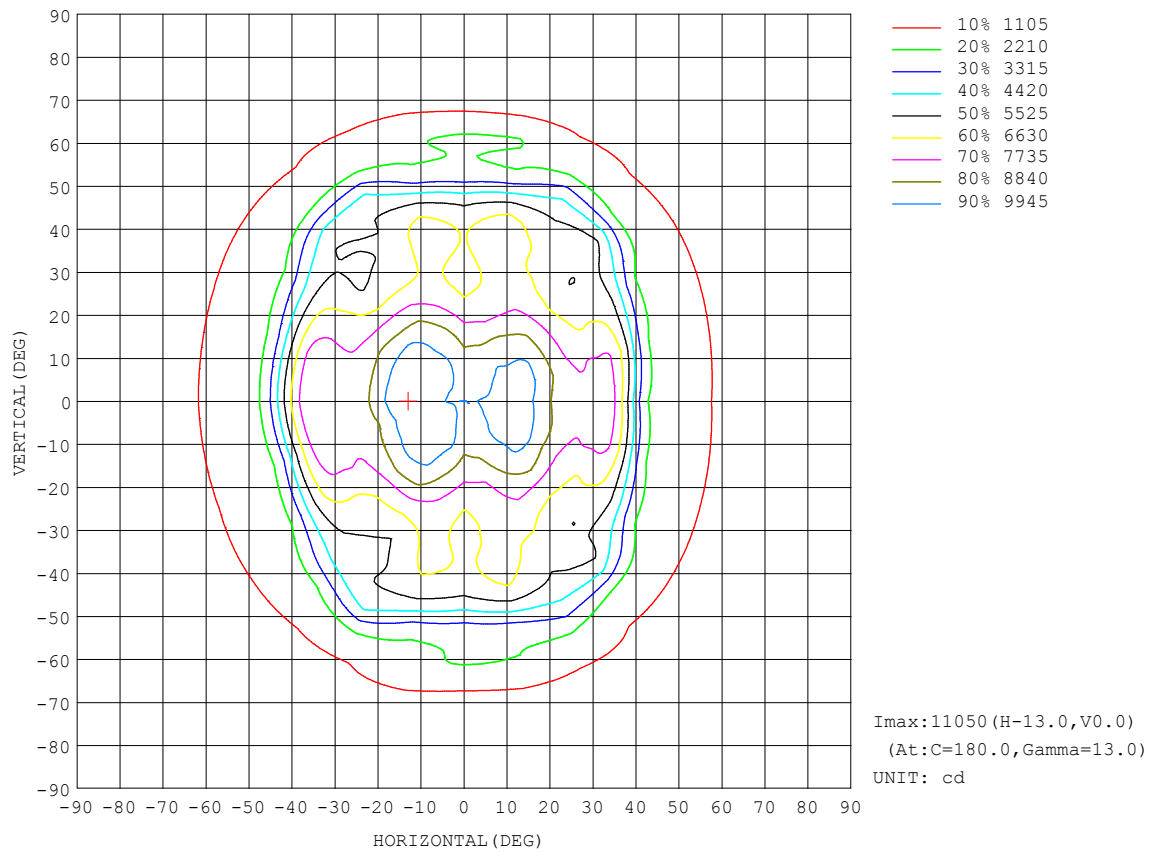
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	67	57	51	66	57	51	65	57	51	46
0.80	77	67	61	76	67	61	74	66	61	55
1.00	85	76	70	83	75	69	81	76	69	63
1.25	91	82	77	89	82	76	87	80	75	69
1.50	95	87	82	94	86	81	91	85	80	74
2.00	100	94	89	99	93	88	95	90	86	79
2.50	103	97	93	101	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	99	97	88
5.00	111	107	104	109	105	102	104	101	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:0.6443A P:145.5W PF:0.9805 Freq:49.99Hz Lamp Flux:18859.2x1 lm		
NAME: ST01-150W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:

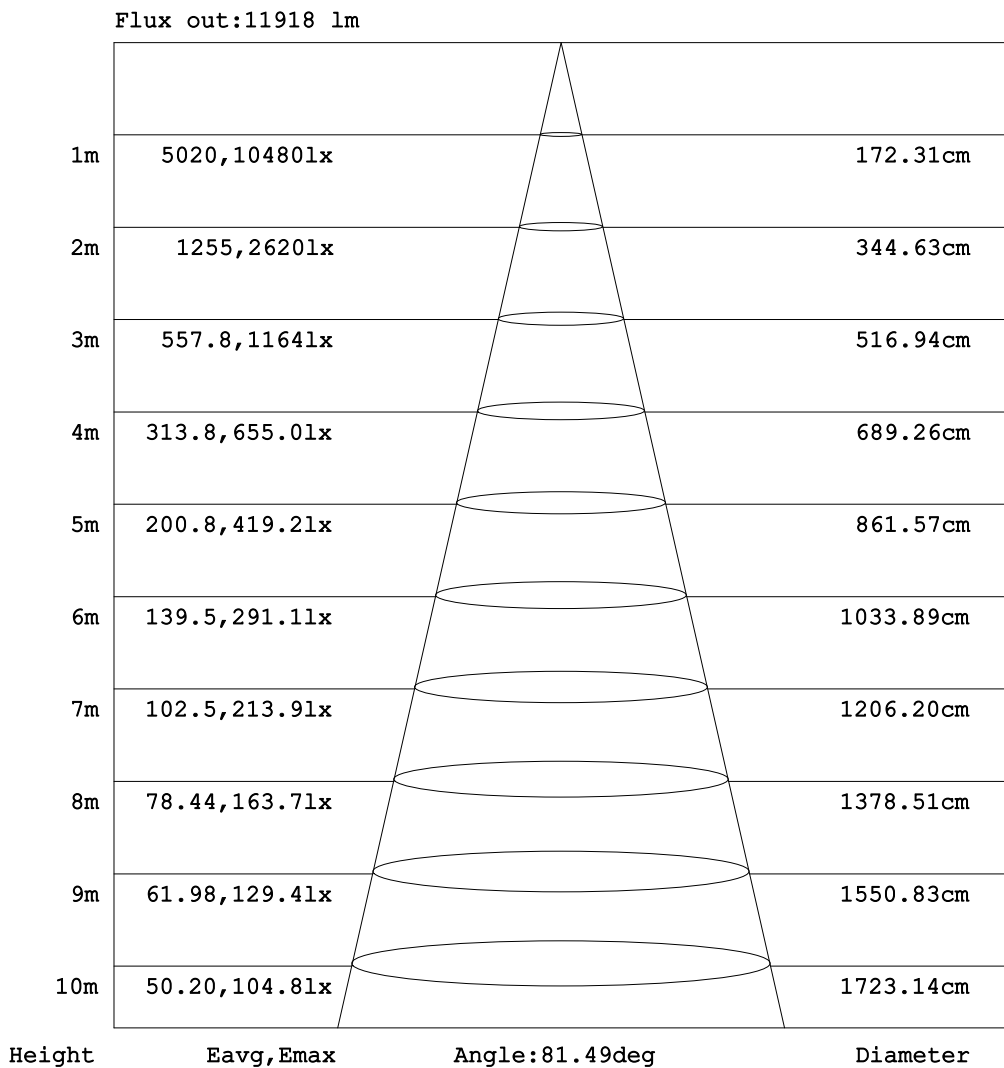


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2019-08-22

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:0.6443A P:145.5W PF:0.9805 Freq:49.99Hz Lamp Flux:18859.2x1 lm		
NAME: ST01-150W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:



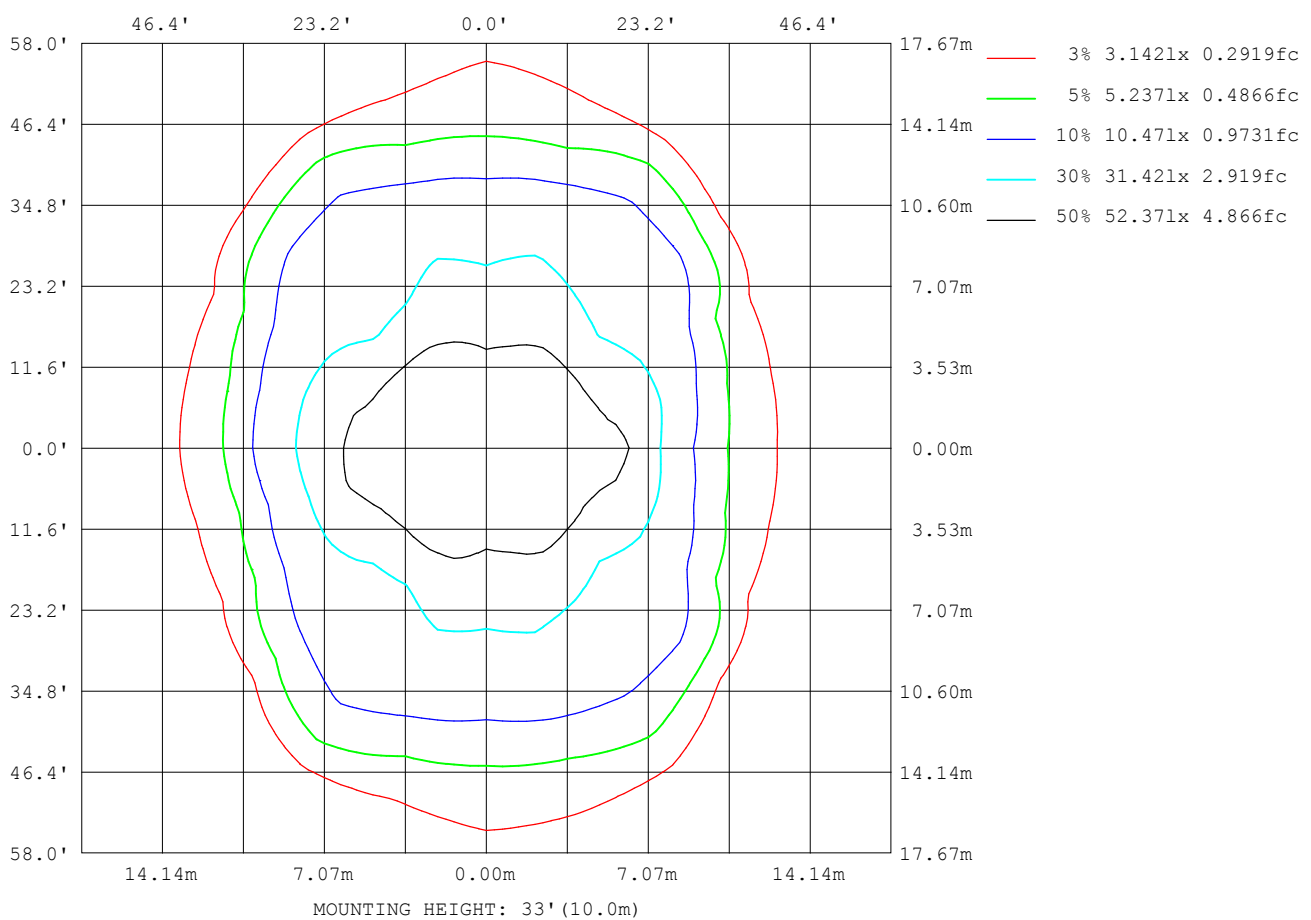
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.6443A P:145.5W PF:0.9805 Freq:49.99Hz Lamp Flux:18859.2x1 lm		
NAME: ST01-150W-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:0.6443A P:145.5W PF:0.9805 Freq:49.99Hz Lamp Flux:18859.2x1 lm		
NAME: ST01-150W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:

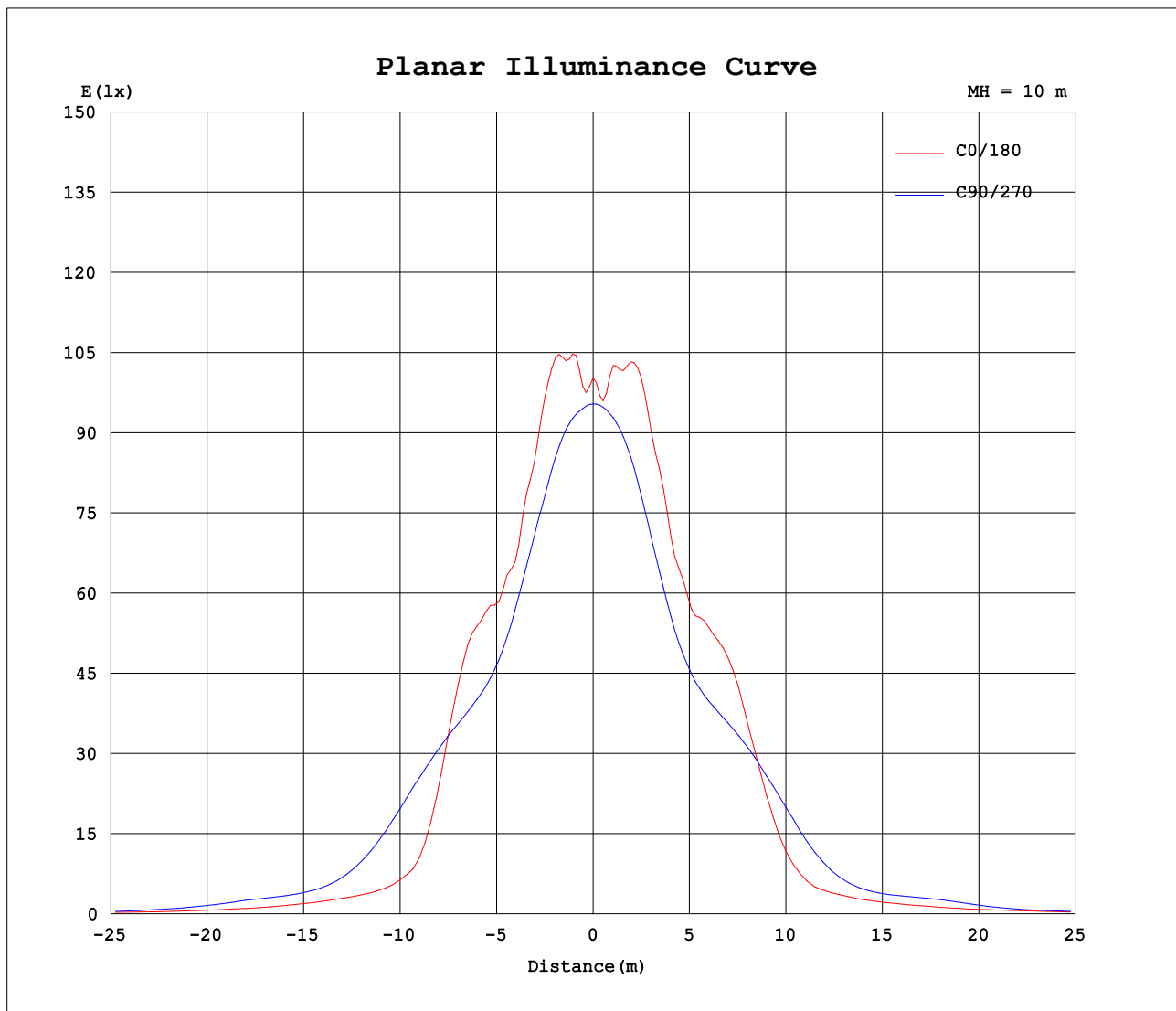
AvgL	cd/m2
L_0~180 (65) av	4608
L_0~180 (75) av	3938
L_0~180 (85) av	2658
L_90~270 (65) av	8028
L_90~270 (75) av	5341
L_90~270 (85) av	3879
L_45 (65) av	5266
L_45 (75) av	4656
L_45 (85) av	3494

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:0.6443A P:145.5W PF:0.9805 Freq:49.99Hz Lamp Flux:18859.2x1 lm		
NAME: ST01-150W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:

Table--1

UNIT: ×10cd

γ \ C (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1003	998	988	969	959	955	954	954	953	951	950	954	1003	998	988	969	959	955	954
5	1057	1030	988	962	982	964	946	978	1025	1040	1039	1035	1018	1028	1024	1019	997	967	947
10	1097	1074	1042	1030	933	945	914	1002	1024	1056	1092	1094	1073	1074	1057	1035	1018	980	916
15	1032	1048	1052	997	944	856	841	936	1013	1070	1044	1025	1081	1077	1077	1049	984	931	841
20	896	919	914	941	867	763	751	838	941	940	930	893	960	956	951	940	913	831	737
25	816	812	765	782	791	708	667	752	795	787	810	811	842	833	803	789	785	725	654
30	849	809	679	644	710	690	637	700	655	659	766	845	845	820	712	635	657	681	630
35	779	785	667	569	652	685	648	694	559	577	748	840	873	841	698	540	591	702	650
40	389	480	572	561	608	693	642	677	534	553	603	593	679	661	618	539	560	719	652
45	182	199	319	570	543	637	558	604	552	484	340	264	334	337	413	553	550	632	566
50	138	143	165	405	449	438	384	431	517	323	170	157	169	171	220	437	500	405	367
55	122	124	128	171	298	255	249	245	334	167	132	132	137	137	145	212	311	228	233
60	99.4	103	109	117	177	221	231	202	159	119	114	112	119	118	120	126	169	210	240
65	76.1	80.3	87.0	95.3	114	152	152	165	105	97.6	91.9	89.4	95.6	95.6	98.9	102	121	155	147
70	56.0	59.9	64.9	72.8	81.6	85.7	86.3	86.5	80.8	75.3	69.5	67.4	72.6	72.8	76.2	79.7	86.1	87.8	89.7
75	37.3	40.2	45.0	50.8	54.9	59.1	59.9	58.9	55.1	53.0	49.4	47.7	52.6	52.8	55.6	56.6	58.9	60.1	62.1
80	19.3	20.7	25.7	29.6	32.7	35.8	35.7	34.6	32.9	31.7	30.1	29.7	33.7	33.7	34.0	34.3	35.1	35.5	36.3
85	5.15	6.60	8.84	12.0	14.6	15.7	15.0	15.6	14.9	13.9	12.0	11.2	15.3	14.9	15.3	15.3	16.0	14.9	14.8
90	0.34	0.46	0.61	0.86	1.16	1.34	0.74	1.29	1.05	1.04	0.98	1.21	3.33	2.61	2.15	1.64	1.71	1.69	0.96
95	0.41	0.52	0.69	0.89	1.03	0.82	0.71	0.72	0.92	0.84	0.65	0.47	0.57	0.76	1.11	1.50	1.68	1.38	1.19
100	0.53	0.61	0.74	0.85	0.91	0.94	0.93	0.87	0.84	0.81	0.70	0.54	0.81	1.10	1.45	1.61	1.59	1.53	1.47
105	0.74	0.79	0.87	0.97	1.11	1.17	1.15	1.13	1.07	0.94	0.82	0.68	1.23	1.47	1.62	1.71	1.91	1.84	1.77
110	1.08	1.07	1.12	1.20	1.35	1.43	1.39	1.39	1.36	1.22	1.06	0.94	1.58	1.74	1.85	2.08	2.20	2.17	2.08
115	1.39	1.35	1.40	1.53	1.62	1.69	1.68	1.67	1.67	1.54	1.43	1.25	1.90	2.05	2.30	2.50	2.58	2.50	2.40
120	1.73	1.71	1.77	1.87	1.90	1.98	1.96	1.97	1.96	1.92	1.77	1.65	2.50	2.67	2.74	2.96	2.94	2.85	2.74
125	2.17	2.15	2.19	2.17	2.15	2.28	2.27	2.28	2.25	2.27	2.20	2.02	2.93	3.12	3.26	3.36	3.29	3.20	3.10
130	2.64	2.60	2.52	2.41	2.46	2.58	2.60	2.58	2.61	2.55	2.61	2.49	3.50	3.68	3.72	3.65	3.69	3.58	3.47
135	2.97	2.89	2.77	2.70	2.84	2.90	2.97	2.91	3.00	2.86	2.89	2.89	4.03	4.08	4.00	3.94	4.08	3.97	3.86
140	3.19	3.10	3.05	3.10	3.24	3.26	3.35	3.27	3.37	3.26	3.17	3.14	4.31	4.29	4.24	4.31	4.45	4.37	4.25
145	3.51	3.44	3.47	3.56	3.62	3.62	3.73	3.63	3.73	3.67	3.56	3.44	4.54	4.53	4.62	4.70	4.80	4.75	4.63
150	4.02	3.97	3.99	3.99	3.97	4.00	4.13	4.06	4.09	4.06	3.99	3.85	4.96	4.97	5.06	5.08	5.15	5.13	5.01
155	4.62	4.58	4.45	4.36	4.34	4.42	4.52	4.52	4.51	4.43	4.40	4.36	5.50	5.42	5.42	5.42	5.51	5.47	5.36
160	5.10	5.05	4.82	4.69	4.76	4.85	4.93	5.02	4.99	4.81	4.80	4.85	5.86	5.73	5.66	5.70	5.79	5.74	5.63
165	5.49	5.42	5.19	5.13	5.16	5.22	5.29	5.46	5.48	5.26	5.19	5.23	6.05	5.90	5.83	5.95	6.01	5.92	5.83
170	5.90	5.83	5.70	5.65	5.54	5.54	5.58	5.82	5.88	5.80	5.65	5.63	6.29	6.13	6.07	6.16	6.15	6.03	5.97
175	6.40	6.32	6.21	6.06	5.84	5.81	5.82	6.09	6.18	6.23	6.23	6.15	6.61	6.48	6.37	6.29	6.18	6.08	6.05
180	6.70	6.60	6.46	6.29	6.08	6.04	6.01	6.26	6.35	6.39	6.50	6.57	6.71	6.59	6.47	6.27	6.10	6.02	6.03

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:0.6443A P:145.5W PF:0.9805 Freq:49.99Hz Lamp Flux:18859.2x1 lm		
NAME: ST01-150W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:

Table--2

UNIT: ×10cd

C (DEG) γ (DEG)	285	300	315	330	345													
0	954	953	951	950	954													
5	959	976	963	953	965													
10	940	922	990	1023	1033													
15	851	920	959	1033	1047													
20	757	830	911	925	917													
25	698	763	766	783	788													
30	693	691	627	678	786													
35	724	640	561	650	786													
40	741	615	582	586	525													
45	646	571	599	338	215													
50	405	471	400	169	146													
55	218	278	175	131	127													
60	223	156	118	112	106													
65	151	109	97.1	90.0	82.5													
70	86.9	82.9	74.2	67.8	62.0													
75	59.1	56.1	52.2	48.1	43.0													
80	34.0	33.0	30.8	28.7	24.0													
85	14.3	14.4	12.6	10.8	8.48													
90	1.56	1.49	1.26	0.85	0.65													
95	1.22	1.53	1.44	1.06	0.77													
100	1.45	1.41	1.48	1.35	1.10													
105	1.77	1.65	1.57	1.50	1.41													
110	2.08	1.99	1.83	1.85	1.72													
115	2.39	2.36	2.21	2.02	2.05													
120	2.72	2.70	2.66	2.47	2.43													
125	3.06	2.97	3.08	3.03	3.02													
130	3.40	3.30	3.37	3.55	3.64													
135	3.74	3.69	3.64	3.85	4.04													
140	4.11	4.12	4.03	4.10	4.25													
145	4.48	4.54	4.54	4.51	4.54													
150	4.86	4.94	5.09	5.11	5.07													
155	5.23	5.31	5.55	5.67	5.66													
160	5.56	5.65	5.85	5.96	6.01													
165	5.84	5.95	6.05	6.06	6.12													
170	6.06	6.20	6.21	6.19	6.31													
175	6.21	6.35	6.34	6.40	6.57													
180	6.24	6.36	6.40	6.50	6.56													

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	10027	9984	9878	9689	9589	9546	9544	9540	9529	9507
3.0	9911	9739	9708	9869	9838	9581	9498	9648	9909	10053
6.0	10654	10556	10187	9612	9710	9665	9428	9860	10335	10415
9.0	10816	10592	10458	10174	9371	9561	9248	10031	10286	10461
12.0	10913	10892	10593	10156	9406	9153	8893	9854	10192	10763
15.0	10315	10483	10523	9972	9442	8557	8414	9361	10127	10696
18.0	9444	9547	9863	9801	8999	7970	7878	8779	9800	9985
21.0	8500	8924	8831	9166	8522	7490	7324	8194	9175	9163
24.0	8330	8042	8078	8201	8081	7156	6800	7677	8267	8279
27.0	8174	7825	7189	7216	7562	6987	6473	7260	7318	7146
30.0	8485	8089	6790	6437	7095	6902	6371	6996	6550	6592
33.0	8527	8099	6768	5749	6734	6845	6414	6937	5945	5898
36.0	7171	7482	6585	5577	6430	6863	6505	6937	5504	5730
39.0	4694	5563	6072	5574	6209	6917	6474	6852	5380	5562
42.0	2574	3348	4818	5612	5726	6868	6219	6539	5339	5410
45.0	1819	1990	3192	5703	5434	6374	5583	6039	5522	4835
48.0	1484	1576	2097	4936	4862	5275	4590	5106	5438	3977
51.0	1351	1381	1544	3491	4268	3922	3478	3859	4929	2808
54.0	1254	1275	1331	2015	3329	2790	2654	2705	3807	1894
57.0	1131	1164	1207	1393	2366	2297	2329	2122	2485	1385
60.0	994.0	1033	1092	1169	1770	2210	2309	2023	1591	1191
63.0	852.8	895.7	960.8	1037	1399	1918	1912	1989	1199	1061
66.0	718.5	759.0	824.7	909.3	1046	1328	1320	1451	995.2	932.7
69.0	600.2	638.2	690.9	773.7	866.1	931.7	926.7	954.0	852.3	798.3
72.0	485.8	520.3	571.8	636.7	708.8	744.9	754.3	745.9	708.9	661.9
75.0	372.5	401.9	450.3	507.7	549.2	590.8	598.6	589.4	550.9	530.2
78.0	264.0	297.8	333.2	377.7	407.9	449.7	450.3	439.6	411.0	400.1
81.0	157.5	180.3	220.8	259.6	289.0	314.2	313.0	302.2	290.2	277.5
84.0	71.17	89.00	116.0	152.7	181.2	191.4	189.0	189.0	183.7	170.1
87.0	16.53	25.36	40.09	59.36	77.75	94.26	75.92	92.42	82.17	76.62
90.0	3.422	4.562	6.139	8.565	11.62	13.41	7.415	12.90	10.51	10.39
93.0	3.836	4.938	6.626	8.896	11.14	10.22	6.343	9.093	9.541	8.173
96.0	4.326	5.361	7.054	8.820	9.647	8.148	7.462	7.054	8.796	8.354
99.0	5.014	5.877	7.332	8.451	8.948	9.051	8.778	8.352	8.214	8.191
102.0	6.044	6.654	7.763	8.740	10.03	10.28	10.24	9.694	9.122	8.385
105.0	7.446	7.855	8.662	9.706	11.06	11.73	11.51	11.26	10.73	9.436
108.0	9.142	9.300	10.02	10.99	12.52	13.23	12.80	12.83	12.35	10.91
111.0	12.02	11.53	11.61	12.64	14.05	14.76	14.46	14.46	14.20	13.03
114.0	13.66	12.92	13.34	14.65	15.63	16.31	16.18	16.15	16.09	14.74
117.0	15.09	14.80	15.43	16.67	17.31	17.99	17.97	17.89	17.87	16.89
120.0	17.33	17.09	17.74	18.71	19.04	19.82	19.59	19.72	19.60	19.17
123.0	19.87	19.63	20.22	20.59	20.50	21.64	21.42	21.56	21.34	21.40
126.0	22.65	22.40	22.68	22.19	22.02	23.37	23.35	23.35	23.20	23.30
129.0	25.56	25.18	24.63	23.62	23.88	25.16	25.36	25.18	25.34	24.95
132.0	28.01	27.37	26.23	25.16	26.06	27.07	27.45	27.12	27.68	26.63
135.0	29.74	28.89	27.67	27.03	28.39	29.05	29.66	29.14	30.00	28.62
138.0	31.10	30.13	29.22	29.35	30.77	31.11	31.94	31.21	32.25	30.93
141.0	32.39	31.48	31.18	31.92	33.15	33.29	34.24	33.37	34.38	33.42
144.0	34.30	33.52	33.70	34.68	35.38	35.45	36.50	35.54	36.57	35.92
147.0	36.98	36.27	36.68	37.42	37.56	37.70	38.88	38.00	38.66	38.29
150.0	40.24	39.69	39.86	39.92	39.65	39.98	41.25	40.60	40.88	40.56
153.0	43.88	43.46	42.80	42.17	41.84	42.44	43.57	43.21	43.30	42.79
156.0	47.29	46.88	45.30	44.25	44.25	45.08	46.07	46.19	45.98	45.04
159.0	50.17	49.70	47.52	46.21	46.78	47.66	48.56	49.27	48.91	47.26
162.0	52.55	51.99	49.60	48.52	49.19	50.07	50.89	52.07	51.97	49.75
165.0	54.86	54.16	51.91	51.29	51.63	52.23	52.91	54.55	54.80	52.61
168.0	57.39	56.52	54.79	54.41	53.94	54.19	54.75	56.82	57.35	55.86
171.0	59.95	59.24	58.14	57.50	56.05	55.97	56.34	58.82	59.53	59.17
174.0	63.08	62.32	61.26	59.92	57.87	57.59	57.78	60.45	61.27	61.68
177.0	65.73	64.74	63.40	61.64	59.43	59.11	59.10	61.75	62.74	63.30
180.0	66.97	66.04	64.57	62.87	60.76	60.35	60.14	62.57	63.53	63.93
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	9497	9542	10027	9984	9878	9689	9589	9546	9544	9540
3.0	10172	10104	9638	9668	9682	9728	9671	9590	9519	9546
6.0	10403	10372	10435	10437	10399	10342	10118	9713	9441	9602
9.0	10797	10855	10556	10559	10453	10337	10232	9811	9260	9506
12.0	10964	10928	11024	10992	10826	10485	10042	9698	8918	9102
15.0	10435	10252	10811	10766	10770	10492	9836	9306	8408	8509
18.0	9761	9631	10002	9957	10039	10045	9503	8736	7782	7903
21.0	8930	8644	9259	9234	9305	9054	8910	8083	7168	7403
24.0	8227	8268	8486	8399	8340	8160	8143	7444	6659	7052
27.0	7660	8209	8075	8021	7693	7280	7285	6977	6360	6881
30.0	7662	8446	8446	8203	7121	6353	6574	6809	6296	6930

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	7520	8652	8668	8367	7109	5759	6146	6899	6402	7108
36.0	7341	8100	8608	8308	6892	5355	5784	7092	6538	7298
39.0	6489	6558	7338	7185	6446	5381	5580	7210	6562	7434
42.0	5082	4462	5406	5370	5386	5507	5574	7012	6299	7209
45.0	3404	2635	3336	3367	4126	5526	5495	6316	5658	6458
48.0	2168	1750	2051	2158	2862	5023	5404	5068	4526	5116
51.0	1582	1504	1615	1619	1943	3936	4732	3568	3275	3534
54.0	1386	1344	1415	1425	1513	2421	3579	2494	2455	2378
57.0	1249	1247	1306	1301	1324	1539	2263	2120	2255	2060
60.0	1138	1121	1185	1181	1203	1259	1689	2102	2397	2230
63.0	1009	985.9	1050	1047	1078	1109	1476	1984	2006	2041
66.0	873.6	848.3	909.8	909.8	944.2	980.5	1093	1334	1283	1256
69.0	737.8	714.8	769.6	771.5	806.9	843.5	909.9	944.5	959.0	934.2
72.0	613.2	596.8	647.1	649.7	674.2	704.4	749.5	764.2	784.6	755.4
75.0	493.8	477.1	526.5	528.4	556.0	565.5	589.0	601.2	620.7	591.3
78.0	371.6	357.7	402.6	404.4	423.5	432.3	441.5	450.9	464.2	436.6
81.0	265.8	255.6	309.6	305.8	307.3	300.1	310.3	309.0	316.3	296.4
84.0	152.0	146.6	183.5	185.1	184.9	189.3	196.6	187.0	187.9	179.9
87.0	67.81	66.40	90.52	90.14	92.47	85.49	88.63	84.00	70.82	78.23
90.0	9.827	12.12	33.32	26.10	21.45	16.40	17.10	16.94	9.622	15.63
93.0	6.130	4.449	5.240	7.053	9.878	14.11	16.37	16.25	10.81	14.20
96.0	6.588	4.830	5.963	8.102	11.82	15.41	16.69	13.65	12.39	12.32
99.0	6.929	5.186	7.337	10.11	13.91	16.09	15.79	14.74	14.13	13.81
102.0	7.328	5.792	9.733	12.64	15.41	16.20	16.54	16.44	15.96	15.77
105.0	8.213	6.778	12.30	14.74	16.24	17.15	19.10	18.39	17.70	17.70
108.0	9.588	8.253	14.44	16.37	17.44	18.94	20.53	20.33	19.51	19.56
111.0	11.15	9.940	16.31	17.86	19.07	21.91	22.78	22.32	21.39	21.39
114.0	13.48	11.74	18.30	19.72	21.64	24.15	25.05	24.32	23.31	23.27
117.0	15.61	14.30	20.90	23.08	25.17	26.77	27.18	26.35	25.35	25.25
120.0	17.66	16.50	24.96	26.70	27.42	29.56	29.37	28.48	27.38	27.22
123.0	20.21	18.53	27.38	29.07	30.55	32.16	31.50	30.62	29.48	29.23
126.0	22.85	21.07	30.35	32.32	33.64	34.25	33.68	32.77	31.69	31.27
129.0	25.33	23.90	33.87	35.67	36.45	35.95	36.05	35.04	33.95	33.36
132.0	27.31	26.68	37.51	38.69	38.53	37.59	38.47	37.34	36.26	35.39
135.0	28.89	28.88	40.35	40.78	40.01	39.42	40.77	39.71	38.55	37.44
138.0	30.44	30.50	42.26	42.21	41.37	41.56	43.05	42.11	40.98	39.62
141.0	32.39	31.93	43.50	43.25	43.08	43.88	45.21	44.44	43.29	41.79
144.0	34.75	33.66	44.74	44.65	45.34	46.24	47.28	46.76	45.58	44.02
147.0	37.34	35.89	46.76	46.89	47.96	48.54	49.35	49.04	47.85	46.31
150.0	39.86	38.49	49.64	49.68	50.58	50.75	51.53	51.28	50.12	48.60
153.0	42.34	41.42	52.84	52.42	52.95	52.87	53.66	53.39	52.27	50.86
156.0	44.82	44.62	56.00	54.97	54.82	54.80	55.70	55.31	54.19	52.98
159.0	47.26	47.65	58.04	56.83	56.23	56.49	57.40	56.93	55.86	54.99
162.0	49.58	50.14	59.42	57.96	57.20	58.06	58.85	58.22	57.20	56.78
165.0	51.93	52.30	60.53	58.99	58.30	59.49	60.06	59.23	58.32	58.43
168.0	54.48	54.66	61.97	60.31	59.63	60.80	61.00	59.91	59.16	59.80
171.0	57.72	57.16	63.48	61.98	61.27	61.96	61.66	60.46	59.90	60.96
174.0	61.26	60.31	65.52	64.18	63.15	62.81	61.85	60.77	60.40	61.93
177.0	63.96	63.55	66.89	65.69	64.39	62.99	61.65	60.66	60.53	62.42
180.0	65.02	65.67	67.14	65.91	64.70	62.68	61.01	60.17	60.31	62.43
G/C	300.0	315.0	330.0	345.0						
0.0	9529	9507	9497	9542						
3.0	9666	9800	9822	9738						
6.0	9709	9491	9565	9961						
9.0	9319	9717	10253	10343						
12.0	9190	9907	10133	10611						
15.0	9200	9588	10328	10470						
18.0	8691	9480	9821	9676						
21.0	8157	8835	8904	9000						
24.0	7769	8004	8173	7942						
27.0	7310	7038	7059	7758						
30.0	6909	6269	6776	7857						
33.0	6579	5669	6577	7854						
36.0	6364	5502	6418	7634						
39.0	6273	5701	6138	6053						
42.0	5905	5954	4985	3737						
45.0	5710	5987	3385	2148						
48.0	5235	5129	2072	1619						
51.0	4451	3397	1588	1402						
54.0	3243	2019	1357	1299						
57.0	2053	1378	1236	1189						
60.0	1564	1180	1123	1056						
63.0	1275	1058	991.5	917.5						
66.0	1026	926.2	854.7	780.6						

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]

69.0	876.3	787.7	719.8	657.1
72.0	719.7	650.0	599.7	541.6
75.0	561.1	522.3	480.8	429.7
78.0	418.1	391.6	359.8	324.1
81.0	289.7	269.8	242.0	206.2
84.0	180.3	158.6	139.0	107.3
87.0	76.02	64.74	57.96	43.34
90.0	14.88	12.57	8.540	6.514
93.0	15.24	13.58	9.426	7.011
96.0	14.98	14.68	11.20	8.169
99.0	13.95	14.98	13.02	10.22
102.0	15.16	14.80	14.15	12.37
105.0	16.49	15.70	15.05	14.11
108.0	18.47	17.67	16.34	15.94
111.0	20.70	18.96	19.35	18.39
114.0	22.91	21.27	19.54	20.59
117.0	24.99	23.86	21.80	21.62
120.0	26.96	26.59	24.65	24.30
123.0	28.59	29.27	27.98	27.64
126.0	30.26	31.47	31.50	31.46
129.0	32.25	33.18	34.68	35.24
132.0	34.47	34.72	36.93	38.46
135.0	36.89	36.36	38.49	40.44
138.0	39.47	38.54	39.95	41.69
141.0	42.01	41.20	41.62	42.94
144.0	44.47	44.29	44.14	44.65
147.0	47.06	47.65	47.44	47.31
150.0	49.42	50.92	51.12	50.75
153.0	51.66	53.74	54.79	54.46
156.0	53.82	56.21	57.54	57.58
159.0	55.83	57.99	59.30	59.58
162.0	57.74	59.36	60.16	60.62
165.0	59.52	60.46	60.64	61.20
168.0	61.13	61.50	61.32	62.16
171.0	62.45	62.45	62.28	63.66
174.0	63.31	63.23	63.59	65.30
177.0	63.64	63.69	64.60	66.02
180.0	63.58	63.97	64.96	65.64

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: