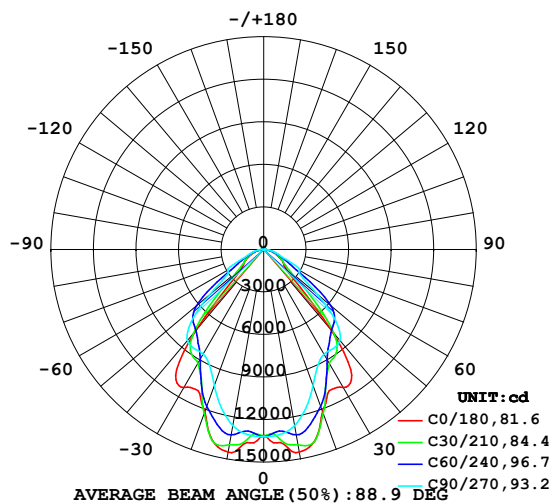


LUMINAIRE PHOTOMETRIC TEST REPORT

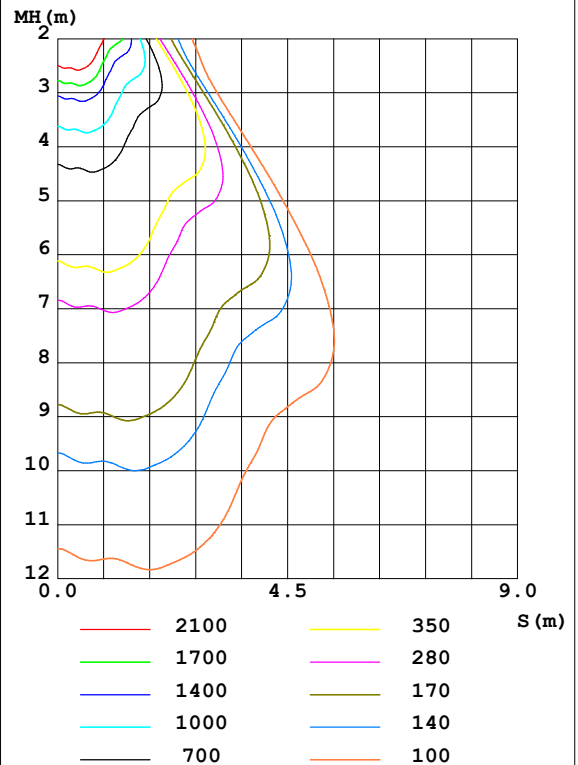
Test:U:231.6V I:0.8984A P:205.8W PF:0.9892 Freq:49.99Hz Lamp Flux:24893.1x1 lm		
NAME: ST01-200W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 120.93 lm/W			
MODEL		I _{max} (cd)	14520	S/MH (C0/180)	1.19
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH (C90/270)	0.95
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	24893	η UP,DN(C0-180)	0.4,49.6
NOMINAL FLUX(lm)	24893.1	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	0.90

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: 2019-08-21

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:

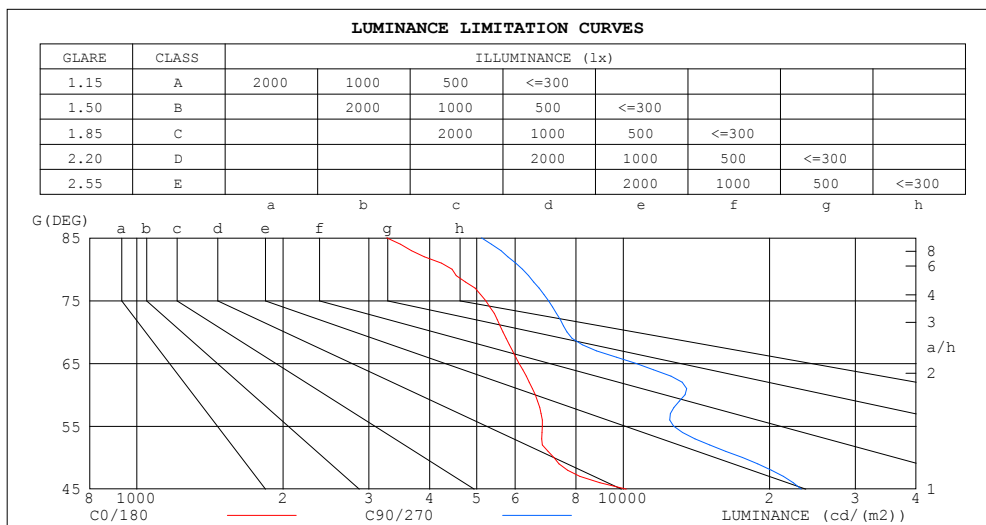
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1452	1372	1260	1372	1452	1372	1260	1372	0- 10	1277	1277	5.13,5.13
20	1218	1242	1021	1242	1218	1242	1021	1242	10- 20	3643	4920	19.8,19.8
30	1123	844.6	853.9	844.6	1123	844.6	853.9	844.6	20- 30	4770	9690	38.9,38.9
40	738.2	735.5	837.1	735.5	738.2	735.5	837.1	735.5	30- 40	5526	15215	61.1,61.1
50	204.2	511.5	498.4	511.5	204.2	511.5	498.4	511.5	40- 50	4596	19812	79.6,79.6
60	145.4	160.0	295.4	160.0	145.4	160.0	295.4	160.0	50- 60	2471	22282	89.5,89.5
70	85.45	99.89	115.6	99.89	85.45	99.89	115.6	99.89	60- 70	1457	23740	95.4,95.4
80	34.06	41.96	47.52	41.96	34.06	41.96	47.52	41.96	70- 80	740.3	24480	98.3,98.3
90	1.192	1.864	1.251	1.864	1.192	1.864	1.251	1.864	80- 90	198.9	24679	99.1,99.1
100	0.9648	1.467	1.545	1.467	0.9648	1.467	1.545	1.467	90-100	13.21	24692	99.2,99.2
110	1.767	2.138	2.276	2.138	1.767	2.138	2.276	2.138	100-110	17.95	24710	99.3,99.3
120	2.848	3.125	3.086	3.125	2.848	3.125	3.086	3.125	110-120	25.12	24735	99.4,99.4
130	4.132	3.939	3.993	3.939	4.132	3.939	3.993	3.939	120-130	31.38	24766	99.5,99.5
140	5.002	4.840	4.985	4.840	5.002	4.840	4.985	4.840	130-140	34.53	24801	99.6,99.6
150	5.943	5.991	5.986	5.991	5.943	5.991	5.986	5.991	140-150	33.79	24835	99.8,99.8
160	7.267	6.916	6.928	6.916	7.267	6.916	6.928	6.916	150-160	29.95	24865	99.9,99.9
170	8.082	7.788	7.562	7.788	8.082	7.788	7.562	7.788	160-170	20.83	24885	100,100
180	8.785	8.258	7.884	8.258	8.785	8.258	7.884	8.258	170-180	7.649	24893	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:2019-08-21

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:231.6V I:0.8984A P:205.8W PF:0.9892 Freq:49.99Hz Lamp Flux:24893.1x1 lm		
NAME: ST01-200W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3266	5112
80	4448	6205
75	5213	7023
70	5665	7665
65	6103	10621
60	6593	13397
55	6824	12697
50	7204	17581
45	10143	23239

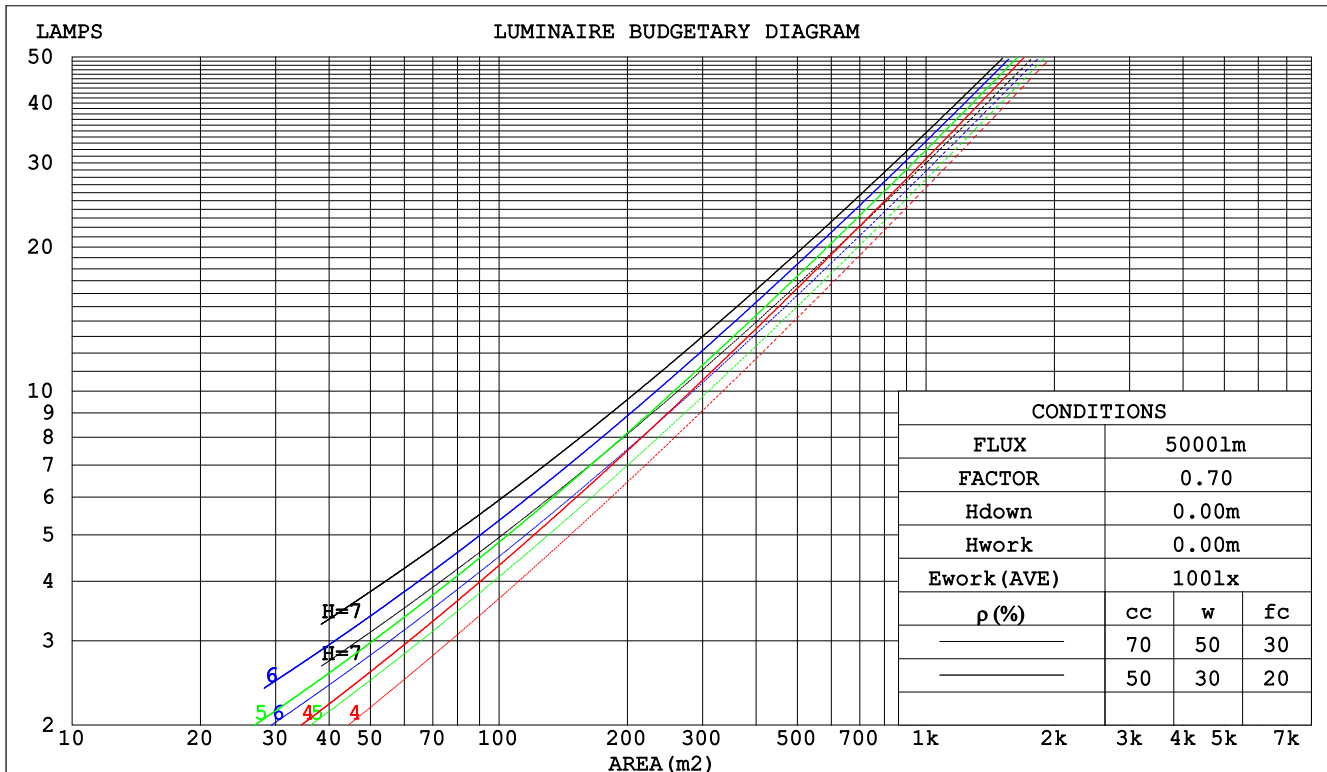
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2019-08-21

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:231.6V I:0.8984A P:205.8W PF:0.9892 Freq:49.99Hz Lamp Flux:24893.1x1 lm		
NAME: ST01-200W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	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	.67	.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:2019-08-21

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:231.6V I:0.8984A P:205.8W PF:0.9892 Freq:49.99Hz Lamp Flux:24893.1x1 lm		
NAME: ST01-200W-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	.040	.221	.123	.038	.210	.118	.037	.200	.113	.036		
3.0	.225	.120	.036	.220	.118	.035	.210	.114	.035	.200	.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	.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	.023	.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:2019-08-21

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:231.6V I:0.8984A P:205.8W PF:0.9892 Freq:49.99Hz Lamp Flux:24893.1x1 lm										
NAME: ST01-200W-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	8.0	9.3	8.2	9.5	9.7	10.9	12.2	11.1	12.4	12.6
3H	8.6	9.7	8.8	10.0	10.2	11.4	12.6	11.7	12.8	13.1
4H	8.8	10.0	9.1	10.2	10.5	11.6	12.7	11.9	13.0	13.2
6H	9.0	10.1	9.4	10.4	10.6	11.7	12.8	12.1	13.1	13.3
8H	9.1	10.1	9.4	10.4	10.7	11.8	12.8	12.1	13.1	13.4
12H	9.1	10.0	9.4	10.3	10.7	11.8	12.7	12.1	13.0	13.4
4H 2H	8.3	9.5	8.6	9.7	10.0	10.8	11.9	11.1	12.2	12.5
3H	9.1	10.1	9.5	10.4	10.7	11.5	12.5	11.9	12.8	13.1
4H	9.5	10.4	9.9	10.7	11.1	11.8	12.7	12.2	13.0	13.4
6H	9.8	10.6	10.2	11.0	11.3	12.1	12.9	12.5	13.2	13.6
8H	9.9	10.6	10.3	11.0	11.4	12.2	12.9	12.6	13.3	13.7
12H	9.9	10.6	10.4	11.0	11.4	12.2	12.9	12.6	13.3	13.7
8H 4H	9.7	10.4	10.1	10.8	11.2	11.9	12.6	12.3	13.0	13.3
6H	10.1	10.7	10.6	11.1	11.6	12.2	12.8	12.7	13.2	13.7
8H	10.3	10.8	10.7	11.2	11.7	12.3	12.9	12.8	13.3	13.8
12H	10.3	10.8	10.8	11.3	11.8	12.5	12.9	12.9	13.4	13.9
12H 4H	9.7	10.4	10.1	10.8	11.2	11.8	12.5	12.3	12.9	13.3
6H	10.2	10.7	10.6	11.1	11.6	12.2	12.7	12.7	13.2	13.6
8H	10.3	10.8	10.8	11.3	11.7	12.4	12.8	12.9	13.3	13.8
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 1.4					+ 0.8 / - 1.0				
1.5H	+ 1.6 / - 1.5					+ 0.9 / - 0.8				
2.0H	+ 0.7 / - 0.5					+ 2.1 / - 1.7				

CIE Pub.117, 24893 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 11.2)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2019-08-21

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:231.6V I:0.8984A P:205.8W PF:0.9892 Freq:49.99Hz Lamp Flux:24893.1x1 lm		
NAME: ST01-200W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:

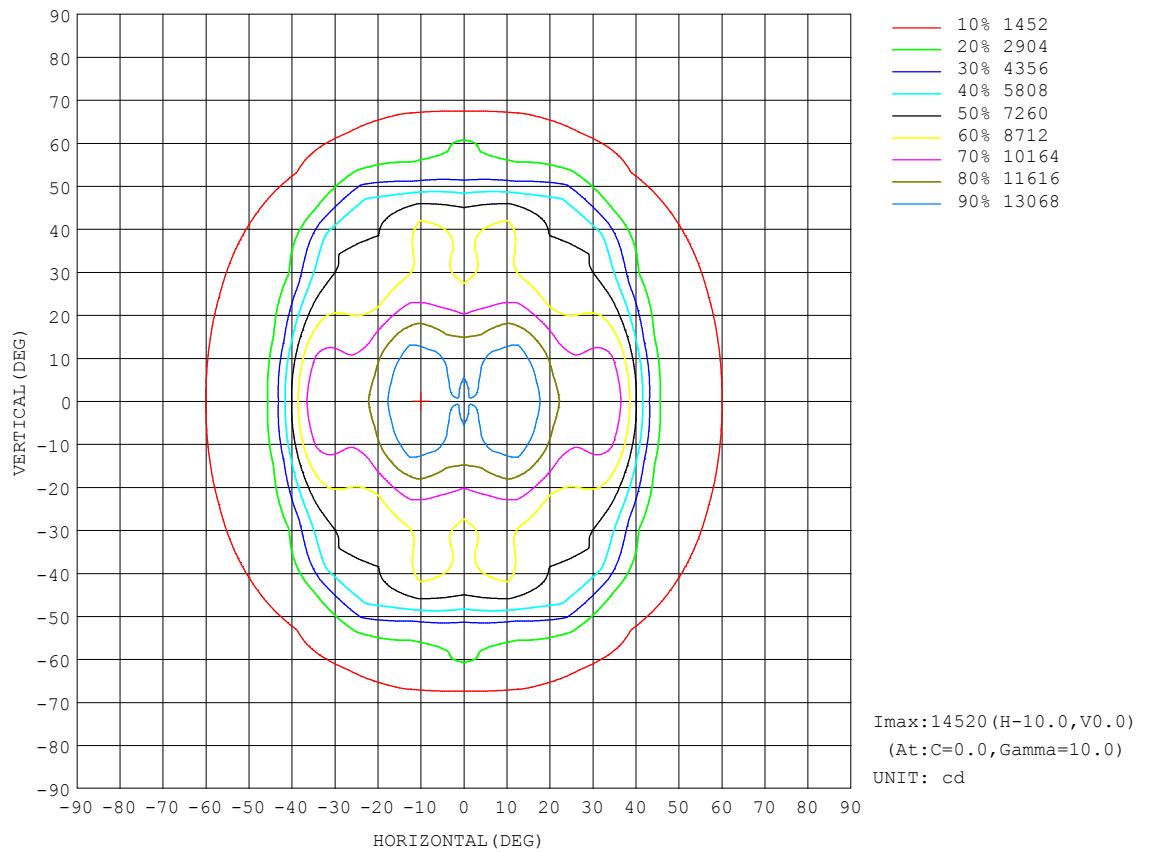
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	67	57	51	67	57	51	65	57	51	46
0.80	77	67	61	76	67	61	74	66	61	55
1.00	85	76	70	83	75	69	81	76	69	63
1.25	91	82	77	90	82	76	87	80	75	69
1.50	95	87	82	94	86	81	91	85	80	74
2.00	101	94	89	99	93	88	96	90	86	79
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	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: 2019-08-21

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:231.6V I:0.8984A P:205.8W PF:0.9892 Freq:49.99Hz Lamp Flux:24893.1x1 lm		
NAME: ST01-200W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:

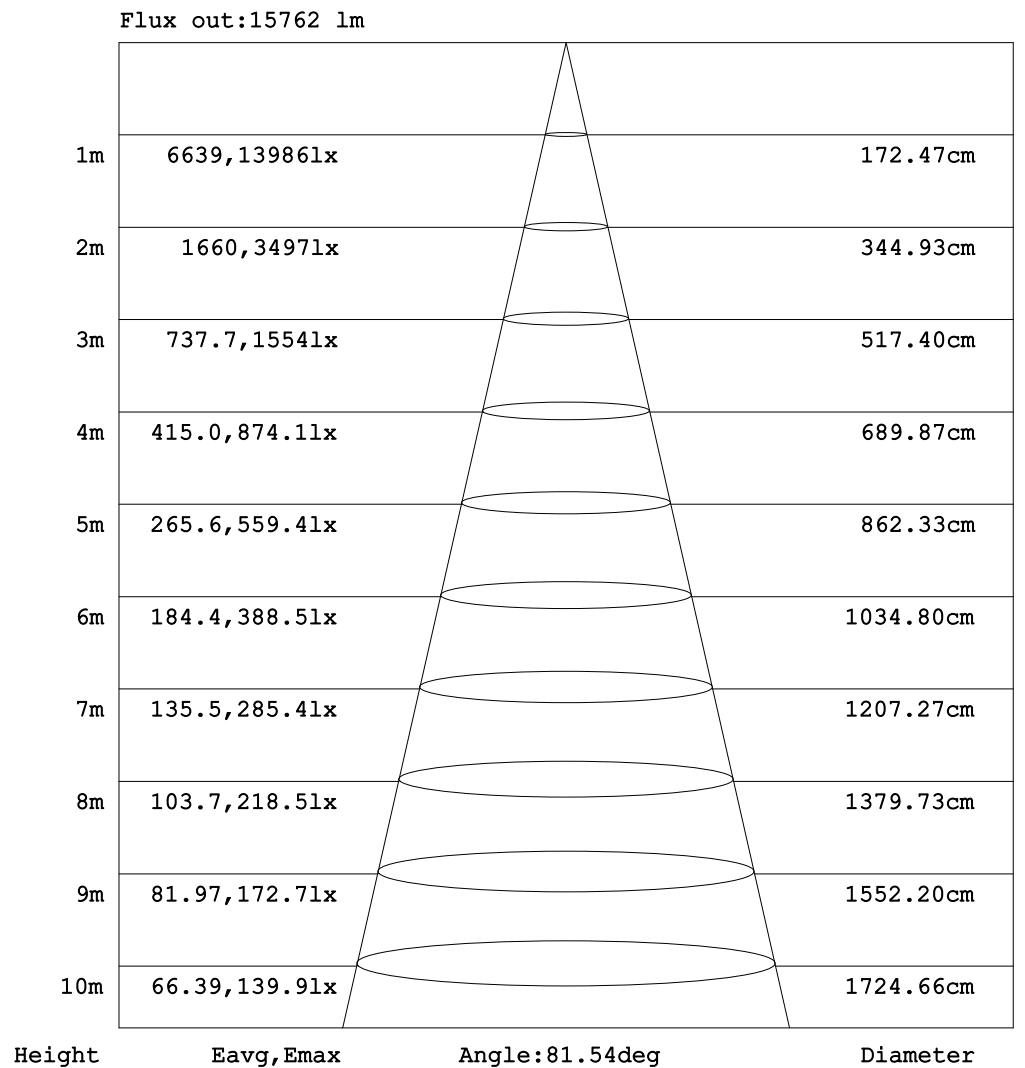


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2019-08-21

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:231.6V I:0.8984A P:205.8W PF:0.9892 Freq:49.99Hz Lamp Flux:24893.1x1 lm		
NAME: ST01-200W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:



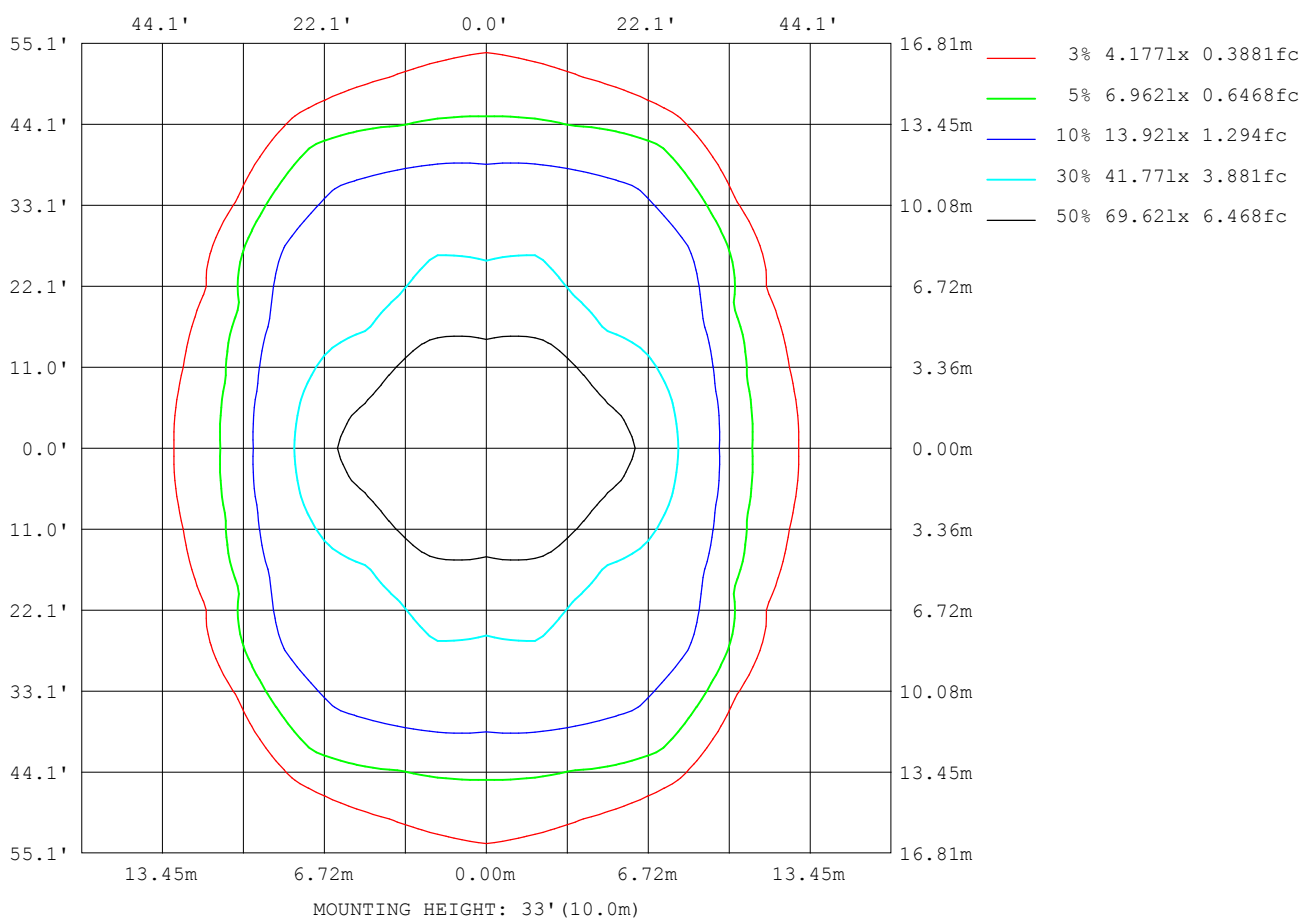
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2019-08-21

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:231.6V I:0.8984A P:205.8W PF:0.9892 Freq:49.99Hz Lamp Flux:24893.1x1 lm		
NAME: ST01-200W-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: 2019-08-21

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:231.6V I:0.8984A P:205.8W PF:0.9892 Freq:49.99Hz Lamp Flux:24893.1x1 lm		
NAME: ST01-200W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:

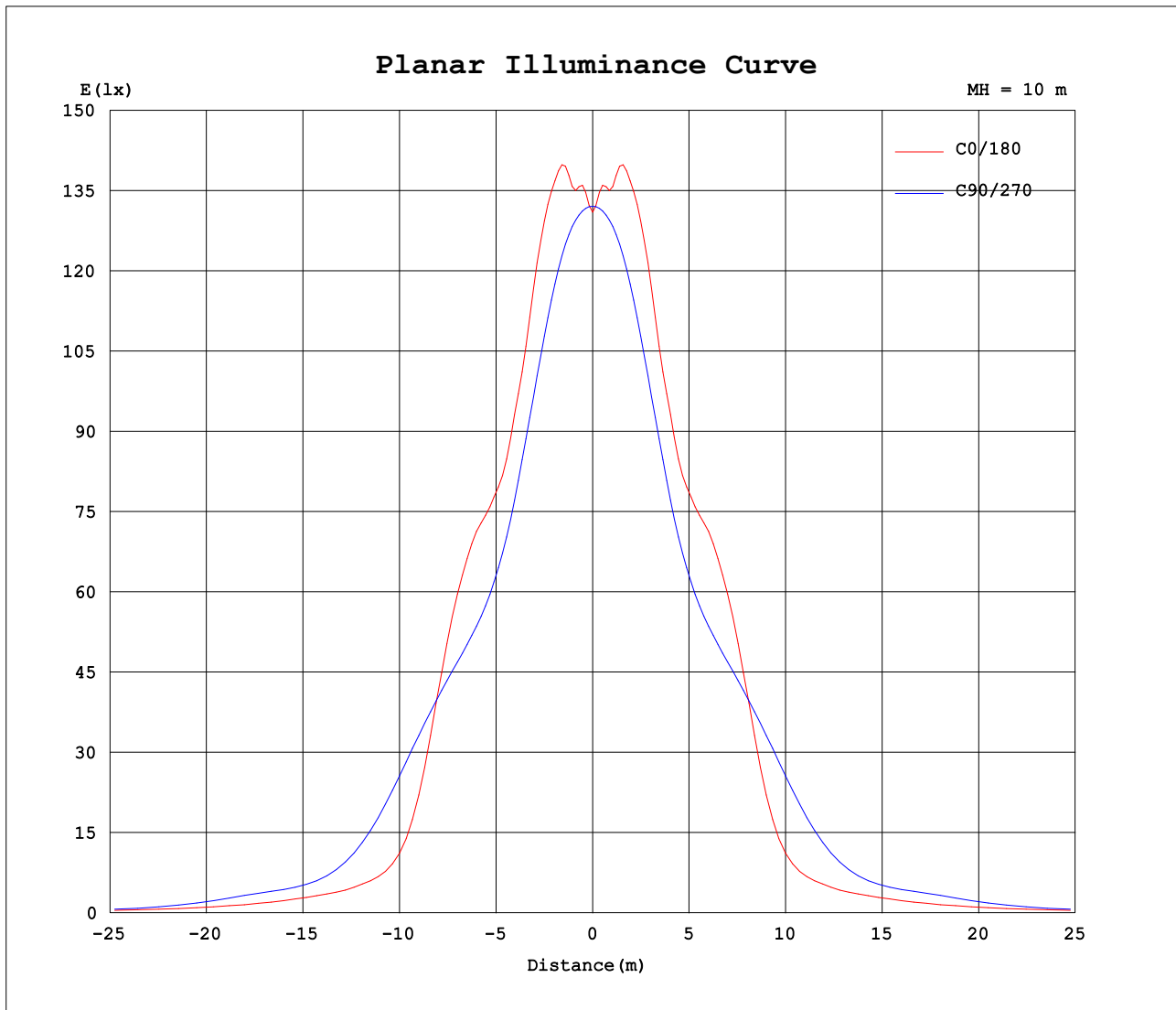
AvgL	cd/m2
L_0~180 (65) av	6103
L_0~180 (75) av	5213
L_0~180 (85) av	3266
L_90~270 (65) av	10621
L_90~270 (75) av	7023
L_90~270 (85) av	5112
L_45 (65) av	6969
L_45 (75) av	6158
L_45 (85) av	4511

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2019-08-21

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: 2019-08-21

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:231.6V I:0.8984A P:205.8W PF:0.9892 Freq:49.99Hz Lamp Flux:24893.1x1 lm		
NAME: ST01-200W-4000K-1500X350	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:

Table--1

UNIT: ×10cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1310	1307	1315	1319	1321	1321	1321	1321	1321	1319	1315	1307	1310	1307	1315	1319	1321	1321	1321
5	1366	1358	1344	1310	1286	1295	1310	1295	1286	1310	1344	1358	1366	1358	1344	1310	1286	1295	1310
10	1452	1427	1399	1372	1328	1243	1260	1243	1328	1372	1399	1427	1452	1427	1399	1372	1328	1243	1260
15	1395	1389	1399	1356	1275	1177	1156	1177	1275	1356	1399	1389	1395	1389	1399	1356	1275	1177	1156
20	1218	1220	1228	1242	1177	1080	1021	1080	1177	1242	1228	1220	1218	1220	1228	1242	1177	1080	1021
25	1099	1073	1036	1038	1045	962	904	962	1045	1038	1036	1073	1099	1073	1036	1038	1045	962	904
30	1123	1065	929	845	896	901	854	901	896	845	929	1065	1123	1065	929	845	896	901	854
35	1085	1040	893	748	807	910	854	910	807	748	893	1040	1085	1040	893	748	807	910	854
40	738	756	771	736	746	914	837	914	746	736	771	756	738	756	771	736	746	914	837
45	316	351	487	709	706	809	725	809	706	709	487	351	316	351	487	709	706	809	725
50	204	210	252	512	619	551	498	551	619	512	252	210	204	210	252	512	619	551	498
55	173	172	178	251	399	320	321	320	399	251	178	172	173	172	178	251	399	320	321
60	145	146	151	160	227	272	295	272	227	160	151	146	145	146	151	160	227	272	295
65	114	116	122	130	153	202	198	202	153	130	122	116	114	116	122	130	153	202	198
70	85.4	87.2	92.3	99.9	109	115	116	115	109	99.9	92.3	87.2	85.4	87.2	92.3	99.9	109	115	116
75	59.5	61.0	65.5	70.3	74.4	78.4	80.2	78.4	74.4	70.3	65.5	61.0	59.5	61.0	65.5	70.3	74.4	78.4	80.2
80	34.1	35.3	38.3	42.0	44.3	46.3	47.5	46.3	44.3	42.0	38.3	35.3	34.1	35.3	38.3	42.0	44.3	46.3	47.5
85	12.6	13.5	15.2	17.3	19.5	20.0	19.6	20.0	19.5	17.3	15.2	13.5	12.6	13.5	15.2	17.3	19.5	20.0	19.6
90	1.19	1.46	1.62	1.86	1.91	1.72	1.25	1.72	1.91	1.86	1.62	1.46	1.19	1.46	1.62	1.86	1.91	1.72	1.25
95	0.67	0.79	1.04	1.37	1.49	1.31	1.21	1.31	1.49	1.37	1.04	0.79	0.67	0.79	1.04	1.37	1.49	1.31	1.21
100	0.96	1.07	1.30	1.47	1.53	1.56	1.54	1.56	1.53	1.47	1.30	1.07	0.96	1.07	1.30	1.47	1.53	1.56	1.54
105	1.34	1.42	1.55	1.72	1.89	1.92	1.91	1.92	1.89	1.72	1.55	1.42	1.34	1.42	1.55	1.72	1.89	1.92	1.91
110	1.77	1.80	1.96	2.14	2.28	2.30	2.28	2.30	2.28	2.14	1.96	1.80	1.77	1.80	1.96	2.14	2.28	2.30	2.28
115	2.34	2.31	2.41	2.57	2.70	2.69	2.66	2.69	2.70	2.57	2.41	2.31	2.34	2.31	2.41	2.57	2.70	2.69	2.66
120	2.85	2.81	2.90	3.13	3.10	3.10	3.09	3.10	3.10	3.13	2.90	2.81	2.85	2.81	2.90	3.13	3.10	3.10	3.09
125	3.41	3.41	3.53	3.58	3.52	3.53	3.52	3.53	3.52	3.58	3.53	3.41	3.41	3.41	3.53	3.58	3.52	3.53	3.52
130	4.13	4.10	4.09	3.94	3.97	3.97	3.99	3.97	3.97	3.94	4.09	4.10	4.13	4.10	4.09	3.94	3.97	3.97	3.99
135	4.74	4.58	4.44	4.34	4.47	4.43	4.48	4.43	4.47	4.34	4.44	4.58	4.74	4.58	4.44	4.34	4.47	4.43	4.48
140	5.00	4.88	4.80	4.84	4.98	4.91	4.99	4.91	4.98	4.84	4.80	4.88	5.00	4.88	4.80	4.84	4.98	4.91	4.99
145	5.35	5.27	5.33	5.42	5.48	5.40	5.49	5.40	5.48	5.42	5.33	5.27	5.35	5.27	5.33	5.42	5.48	5.40	5.49
150	5.94	5.89	5.98	5.99	5.96	5.91	5.99	5.91	5.96	5.99	5.98	5.89	5.94	5.89	5.98	5.99	5.96	5.91	5.99
155	6.69	6.58	6.56	6.49	6.46	6.44	6.48	6.44	6.46	6.49	6.56	6.58	6.69	6.58	6.56	6.49	6.46	6.44	6.48
160	7.27	7.11	6.99	6.92	6.95	6.93	6.93	6.93	6.95	6.92	6.99	7.11	7.27	7.11	6.99	6.92	6.95	6.93	6.93
165	7.67	7.46	7.33	7.35	7.39	7.34	7.28	7.34	7.39	7.35	7.33	7.46	7.67	7.46	7.33	7.35	7.39	7.34	7.28
170	8.08	7.88	7.76	7.79	7.75	7.67	7.56	7.67	7.75	7.79	7.76	7.88	8.08	7.88	7.76	7.79	7.75	7.67	7.56
175	8.53	8.39	8.25	8.13	8.00	7.90	7.77	7.90	8.00	8.13	8.25	8.39	8.53	8.39	8.25	8.13	8.00	7.90	7.77
180	8.78	8.63	8.47	8.26	8.10	8.02	7.88	8.02	8.10	8.26	8.47	8.63	8.78	8.63	8.47	8.26	8.10	8.02	7.88

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2019-08-21

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:231.6V I:0.8984A P:205.8W PF:0.9892 Freq:49.99Hz Lamp Flux:24893.1x1 lm		
NAME: ST01-200W-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	1321	1321	1319	1315	1307														
5	1295	1286	1310	1344	1358														
10	1243	1328	1372	1399	1427														
15	1177	1275	1356	1399	1389														
20	1080	1177	1242	1228	1220														
25	962	1045	1038	1036	1073														
30	901	896	845	929	1065														
35	910	807	748	893	1040														
40	914	746	736	771	756														
45	809	706	709	487	351														
50	551	619	512	252	210														
55	320	399	251	178	172														
60	272	227	160	151	146														
65	202	153	130	122	116														
70	115	109	99.9	92.3	87.2														
75	78.4	74.4	70.3	65.5	61.0														
80	46.3	44.3	42.0	38.3	35.3														
85	20.0	19.5	17.3	15.2	13.5														
90	1.72	1.91	1.86	1.62	1.46														
95	1.31	1.49	1.37	1.04	0.79														
100	1.56	1.53	1.47	1.30	1.07														
105	1.92	1.89	1.72	1.55	1.42														
110	2.30	2.28	2.14	1.96	1.80														
115	2.69	2.70	2.57	2.41	2.31														
120	3.10	3.10	3.13	2.90	2.81														
125	3.53	3.52	3.58	3.53	3.41														
130	3.97	3.97	3.94	4.09	4.10														
135	4.43	4.47	4.34	4.44	4.58														
140	4.91	4.98	4.84	4.80	4.88														
145	5.40	5.48	5.42	5.33	5.27														
150	5.91	5.96	5.99	5.98	5.89														
155	6.44	6.46	6.49	6.56	6.58														
160	6.93	6.95	6.92	6.99	7.11														
165	7.34	7.39	7.35	7.33	7.46														
170	7.67	7.75	7.79	7.76	7.88														
175	7.90	8.00	8.13	8.25	8.39														
180	8.02	8.10	8.26	8.47	8.63														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2019-08-21

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	13098	13073	13148	13189	13207	13212	13209	13212	13207	13189
3.0	13660	13222	13010	12931	12987	13108	13174	13108	12987	12931
6.0	13807	13767	13687	13341	12883	12857	13043	12857	12883	13341
9.0	14516	14181	13942	13750	13203	12540	12750	12540	13203	13750
12.0	14413	14356	14138	13615	13234	12187	12241	12187	13234	13615
15.0	13953	13894	13992	13558	12751	11774	11562	11774	12751	13558
18.0	12940	12892	13001	13101	12162	11240	10766	11240	12162	13101
21.0	11926	11817	11967	11991	11558	10553	9939	10553	11558	11991
24.0	11130	10926	10744	10753	10753	9833	9222	9833	10753	10753
27.0	10999	10517	9844	9603	9817	9288	8755	9288	9817	9603
30.0	11230	10647	9287	8446	8965	9015	8539	9015	8965	8446
33.0	11232	10681	9098	7781	8360	9017	8516	9017	8360	7781
36.0	10457	10104	8788	7384	7929	9142	8537	9142	7929	7384
39.0	8366	8350	8092	7346	7552	9183	8453	9183	7552	7346
42.0	5379	5794	6688	7344	7304	8909	8085	8909	7304	7344
45.0	3163	3507	4867	7089	7059	8091	7247	8091	7059	7089
48.0	2268	2382	3229	6133	6666	6667	5954	6667	6666	6133
51.0	1945	1984	2289	4548	5853	4949	4510	4949	5853	4548
54.0	1766	1759	1877	2925	4493	3512	3431	3512	4493	2925
57.0	1630	1629	1653	1988	3089	2829	3002	2829	3089	1988
60.0	1454	1462	1510	1600	2269	2721	2954	2721	2269	1600
63.0	1265	1279	1340	1408	1821	2512	2510	2512	1821	1408
66.0	1079	1095	1159	1241	1402	1765	1738	1765	1402	1241
69.0	908.1	925.4	979.3	1060	1155	1251	1241	1251	1155	1060
72.0	750.2	766.8	813.8	876.8	953.1	991.6	1011	991.6	953.1	876.8
75.0	595.0	609.5	654.9	702.9	743.9	783.5	801.6	783.5	743.9	702.9
78.0	435.0	456.2	491.9	532.2	556.2	587.6	600.7	587.6	556.2	532.2
81.0	292.0	308.3	332.0	366.1	390.0	404.0	415.0	404.0	390.0	366.1
84.0	160.7	171.0	191.3	218.4	242.4	246.0	247.0	246.0	242.4	218.4
87.0	63.44	70.38	80.54	92.66	103.8	113.5	96.21	113.5	103.8	92.66
90.0	11.92	14.65	16.20	18.64	19.08	17.16	12.51	17.16	19.08	18.64
93.0	6.071	7.151	9.420	13.05	14.83	14.00	10.76	14.00	14.83	13.05
96.0	7.169	8.353	10.97	13.93	14.71	13.34	12.71	13.34	14.71	13.93
99.0	8.933	10.08	12.51	14.45	14.91	14.97	14.69	14.97	14.91	14.45
102.0	11.15	12.09	13.92	15.41	16.75	17.03	16.94	17.03	16.75	15.41
105.0	13.38	14.19	15.53	17.22	18.88	19.20	19.11	19.20	18.88	17.22
108.0	15.86	16.37	17.54	19.79	21.04	21.45	21.22	21.45	21.04	19.79
111.0	18.75	19.16	20.55	22.19	23.71	23.74	23.54	23.74	23.71	22.19
114.0	22.68	22.29	23.13	24.65	26.19	26.12	25.86	26.12	26.19	24.65
117.0	25.43	25.21	25.88	27.89	28.57	28.55	28.32	28.55	28.57	27.89
120.0	28.48	28.05	29.04	31.25	31.02	31.03	30.86	31.03	31.02	31.25
123.0	31.49	31.52	32.65	34.15	33.58	33.63	33.44	33.63	33.58	34.15
126.0	35.39	35.47	36.52	36.56	36.07	36.21	36.19	36.21	36.07	36.56
129.0	39.81	39.66	39.98	38.68	38.72	38.82	38.97	38.82	38.72	38.68
132.0	44.07	43.38	42.41	40.87	41.63	41.53	41.84	41.53	41.63	40.87
135.0	47.37	45.83	44.45	43.35	44.68	44.29	44.79	44.29	44.68	43.35
138.0	48.98	47.67	46.46	46.27	47.74	47.16	47.83	47.16	47.74	46.27
141.0	50.55	49.43	48.94	49.51	50.78	50.07	50.84	50.07	50.78	49.51
144.0	52.60	51.76	52.10	53.03	53.82	53.00	53.87	53.00	53.82	53.03
147.0	55.46	54.97	55.79	56.57	56.75	56.02	56.91	56.02	56.75	56.57
150.0	59.43	58.85	59.76	59.91	59.64	59.07	59.86	59.07	59.64	59.91
153.0	63.90	63.06	63.47	63.00	62.59	62.26	62.83	62.26	62.59	63.00
156.0	68.33	67.04	66.63	65.77	65.58	65.39	65.68	65.39	65.58	65.77
159.0	71.75	70.22	69.19	68.33	68.52	68.36	68.45	68.36	68.52	68.33
162.0	74.34	72.62	71.18	70.88	71.29	71.04	70.80	71.04	71.29	70.88
165.0	76.70	74.65	73.26	73.47	73.87	73.43	72.84	73.43	73.87	73.47
168.0	79.18	77.02	75.68	76.15	76.13	75.49	74.55	75.49	76.13	76.15
171.0	81.70	79.76	78.66	78.71	78.13	77.19	76.09	77.19	78.13	78.71
174.0	84.43	82.93	81.64	80.79	79.66	78.60	77.35	78.60	79.66	80.79
177.0	86.82	85.45	83.93	82.03	80.51	79.60	78.26	79.60	80.51	82.03
180.0	87.85	86.34	84.72	82.58	80.98	80.19	78.84	80.19	80.98	82.58
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	13148	13073	13098	13073	13148	13189	13207	13212	13209	13212
3.0	13010	13222	13660	13222	13010	12931	12987	13108	13174	13108
6.0	13687	13767	13807	13767	13687	13341	12883	12857	13043	12857
9.0	13942	14181	14516	14181	13942	13750	13203	12540	12750	12540
12.0	14138	14356	14413	14356	14138	13615	13234	12187	12241	12187
15.0	13992	13894	13953	13894	13992	13558	12751	11774	11562	11774
18.0	13001	12892	12940	12892	13001	13101	12162	11240	10766	11240
21.0	11967	11817	11926	11817	11967	11991	11558	10553	9939	10553
24.0	10744	10926	11130	10926	10744	10753	10753	9833	9222	9833
27.0	9844	10517	10999	10517	9844	9603	9817	9288	8755	9288
30.0	9287	10647	11230	10647	9287	8446	8965	9015	8539	9015

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2019-08-21

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	9098	10681	11232	10681	9098	7781	8360	9017	8516	9017
36.0	8788	10104	10457	10104	8788	7384	7929	9142	8537	9142
39.0	8092	8350	8366	8350	8092	7346	7552	9183	8453	9183
42.0	6688	5794	5379	5794	6688	7344	7304	8909	8085	8909
45.0	4867	3507	3163	3507	4867	7089	7059	8091	7247	8091
48.0	3229	2382	2268	2382	3229	6133	6666	6667	5954	6667
51.0	2289	1984	1945	1984	2289	4548	5853	4949	4510	4949
54.0	1877	1759	1766	1759	1877	2925	4493	3512	3431	3512
57.0	1653	1629	1630	1629	1653	1988	3089	2829	3002	2829
60.0	1510	1462	1454	1462	1510	1600	2269	2721	2954	2721
63.0	1340	1279	1265	1279	1340	1408	1821	2512	2510	2512
66.0	1159	1095	1079	1095	1159	1241	1402	1765	1738	1765
69.0	979.3	925.4	908.1	925.4	979.3	1060	1155	1251	1241	1251
72.0	813.8	766.8	750.2	766.8	813.8	876.8	953.1	991.6	1011	991.6
75.0	654.9	609.5	595.0	609.5	654.9	702.9	743.9	783.5	801.6	783.5
78.0	491.9	456.2	435.0	456.2	491.9	532.2	556.2	587.6	600.7	587.6
81.0	332.0	308.3	292.0	308.3	332.0	366.1	390.0	404.0	415.0	404.0
84.0	191.3	171.0	160.7	171.0	191.3	218.4	242.4	246.0	247.0	246.0
87.0	80.54	70.38	63.44	70.38	80.54	92.66	103.8	113.5	96.21	113.5
90.0	16.20	14.65	11.92	14.65	16.20	18.64	19.08	17.16	12.51	17.16
93.0	9.420	7.151	6.071	7.151	9.420	13.05	14.83	14.00	10.76	14.00
96.0	10.97	8.353	7.169	8.353	10.97	13.93	14.71	13.34	12.71	13.34
99.0	12.51	10.08	8.933	10.08	12.51	14.45	14.91	14.97	14.69	14.97
102.0	13.92	12.09	11.15	12.09	13.92	15.41	16.75	17.03	16.94	17.03
105.0	15.53	14.19	13.38	14.19	15.53	17.22	18.88	19.20	19.11	19.20
108.0	17.54	16.37	15.86	16.37	17.54	19.79	21.04	21.45	21.22	21.45
111.0	20.55	19.16	18.75	19.16	20.55	22.19	23.71	23.74	23.54	23.74
114.0	23.13	22.29	22.68	22.29	23.13	24.65	26.19	26.12	25.86	26.12
117.0	25.88	25.21	25.43	25.21	25.88	27.89	28.57	28.55	28.32	28.55
120.0	29.04	28.05	28.48	28.05	29.04	31.25	31.02	31.03	30.86	31.03
123.0	32.65	31.52	31.49	31.52	32.65	34.15	33.58	33.63	33.44	33.63
126.0	36.52	35.47	35.39	35.47	36.52	36.56	36.07	36.21	36.19	36.21
129.0	39.98	39.66	39.81	39.66	39.98	38.68	38.72	38.82	38.97	38.82
132.0	42.41	43.38	44.07	43.38	42.41	40.87	41.63	41.53	41.84	41.53
135.0	44.45	45.83	47.37	45.83	44.45	43.35	44.68	44.29	44.79	44.29
138.0	46.46	47.67	48.98	47.67	46.46	46.27	47.74	47.16	47.83	47.16
141.0	48.94	49.43	50.55	49.43	48.94	49.51	50.78	50.07	50.84	50.07
144.0	52.10	51.76	52.60	51.76	52.10	53.03	53.82	53.00	53.87	53.00
147.0	55.79	54.97	55.46	54.97	55.79	56.57	56.75	56.02	56.91	56.02
150.0	59.76	58.85	59.43	58.85	59.76	59.91	59.64	59.07	59.86	59.07
153.0	63.47	63.06	63.90	63.06	63.47	63.00	62.59	62.26	62.83	62.26
156.0	66.63	67.04	68.33	67.04	66.63	65.77	65.58	65.39	65.68	65.39
159.0	69.19	70.22	71.75	70.22	69.19	68.33	68.52	68.36	68.45	68.36
162.0	71.18	72.62	74.34	72.62	71.18	70.88	71.29	71.04	70.80	71.04
165.0	73.26	74.65	76.70	74.65	73.26	73.47	73.87	73.43	72.84	73.43
168.0	75.68	77.02	79.18	77.02	75.68	76.15	76.13	75.49	74.55	75.49
171.0	78.66	79.76	81.70	79.76	78.66	78.71	78.13	77.19	76.09	77.19
174.0	81.64	82.93	84.43	82.93	81.64	80.79	79.66	78.60	77.35	78.60
177.0	83.93	85.45	86.82	85.45	83.93	82.03	80.51	79.60	78.26	79.60
180.0	84.72	86.34	87.85	86.34	84.72	82.58	80.98	80.19	78.84	80.19
G/C	300.0	315.0	330.0	345.0						
0.0	13207	13189	13148	13073						
3.0	12987	12931	13010	13222						
6.0	12883	13341	13687	13767						
9.0	13203	13750	13942	14181						
12.0	13234	13615	14138	14356						
15.0	12751	13558	13992	13894						
18.0	12162	13101	13001	12892						
21.0	11558	11991	11967	11817						
24.0	10753	10753	10744	10926						
27.0	9817	9603	9844	10517						
30.0	8965	8446	9287	10647						
33.0	8360	7781	9098	10681						
36.0	7929	7384	8788	10104						
39.0	7552	7346	8092	8350						
42.0	7304	7344	6688	5794						
45.0	7059	7089	4867	3507						
48.0	6666	6133	3229	2382						
51.0	5853	4548	2289	1984						
54.0	4493	2925	1877	1759						
57.0	3089	1988	1653	1629						
60.0	2269	1600	1510	1462						
63.0	1821	1408	1340	1279						
66.0	1402	1241	1159	1095						

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2019-08-21

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	1155	1060	979.3	925.4
72.0	953.1	876.8	813.8	766.8
75.0	743.9	702.9	654.9	609.5
78.0	556.2	532.2	491.9	456.2
81.0	390.0	366.1	332.0	308.3
84.0	242.4	218.4	191.3	171.0
87.0	103.8	92.66	80.54	70.38
90.0	19.08	18.64	16.20	14.65
93.0	14.83	13.05	9.420	7.151
96.0	14.71	13.93	10.97	8.353
99.0	14.91	14.45	12.51	10.08
102.0	16.75	15.41	13.92	12.09
105.0	18.88	17.22	15.53	14.19
108.0	21.04	19.79	17.54	16.37
111.0	23.71	22.19	20.55	19.16
114.0	26.19	24.65	23.13	22.29
117.0	28.57	27.89	25.88	25.21
120.0	31.02	31.25	29.04	28.05
123.0	33.58	34.15	32.65	31.52
126.0	36.07	36.56	36.52	35.47
129.0	38.72	38.68	39.98	39.66
132.0	41.63	40.87	42.41	43.38
135.0	44.68	43.35	44.45	45.83
138.0	47.74	46.27	46.46	47.67
141.0	50.78	49.51	48.94	49.43
144.0	53.82	53.03	52.10	51.76
147.0	56.75	56.57	55.79	54.97
150.0	59.64	59.91	59.76	58.85
153.0	62.59	63.00	63.47	63.06
156.0	65.58	65.77	66.63	67.04
159.0	68.52	68.33	69.19	70.22
162.0	71.29	70.88	71.18	72.62
165.0	73.87	73.47	73.26	74.65
168.0	76.13	76.15	75.68	77.02
171.0	78.13	78.71	78.66	79.76
174.0	79.66	80.79	81.64	82.93
177.0	80.51	82.03	83.93	85.45
180.0	80.98	82.58	84.72	86.34

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2019-08-21

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: