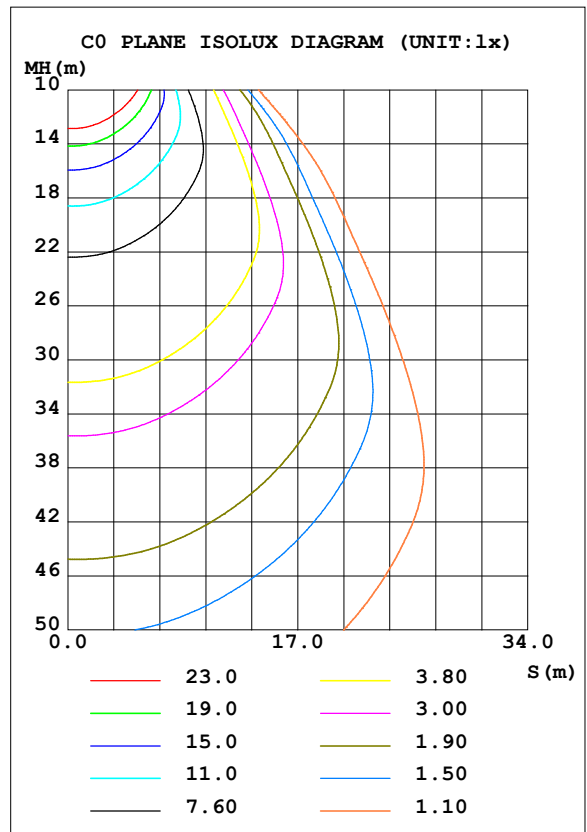
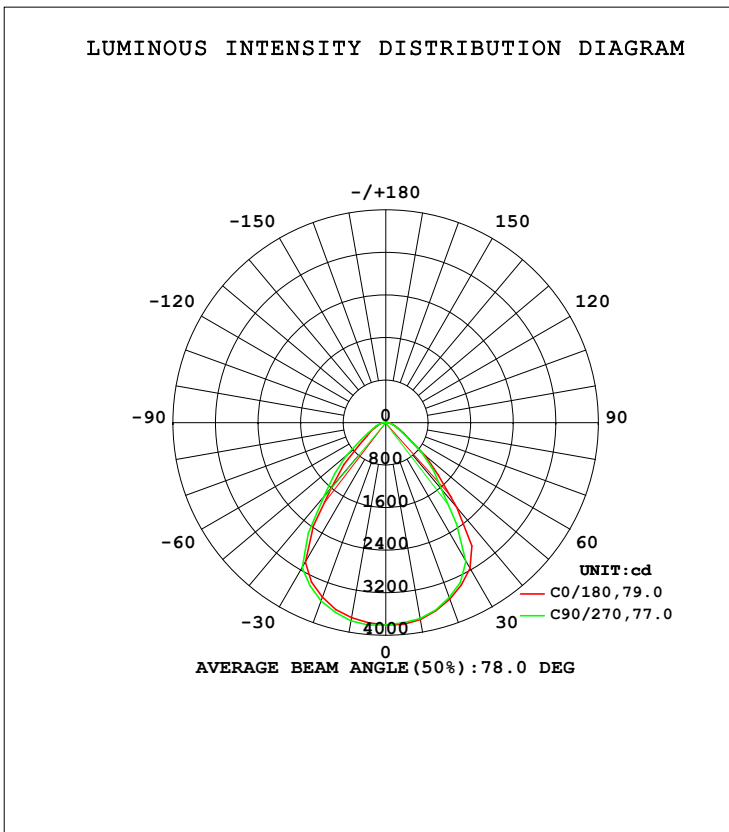


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.18V I:0.2973A P:64.441W PF:0.9846 Freq:49.99Hz Lamp Flux:6438.79x1 lm		
NAME: VENICE-192100	TYPE:LED	WEIGHT:
SPEC.:6000K	DIM.:	SERIAL No.:01
MANUFACTURE:BBT LIGHTING	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 99.92 lm/W			
MODEL	PL6060-VENICE-72W	I _{max} (cd)	3819	S/MH (C0/180)	1.10
NOMINAL POWER (W)	72	LOR (%)	100.0	S/MH (C90/270)	1.13
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	6438.8	η UP, DN (C0-180)	0.1, 50.6
NOMINAL FLUX (lm)	6438.79	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.1, 49.2
LAMPS INSIDE	1	η up (%)	0.2	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	220.0	η down (%)	99.8	CIBSE SHR MAX	1.15



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: King
 Test Date: 2023-06-08

γ Range: 0 - 120DEG
 γ Interval: 5.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity: 65.0%
 Test Distance: 9.950m [K=1.0251]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

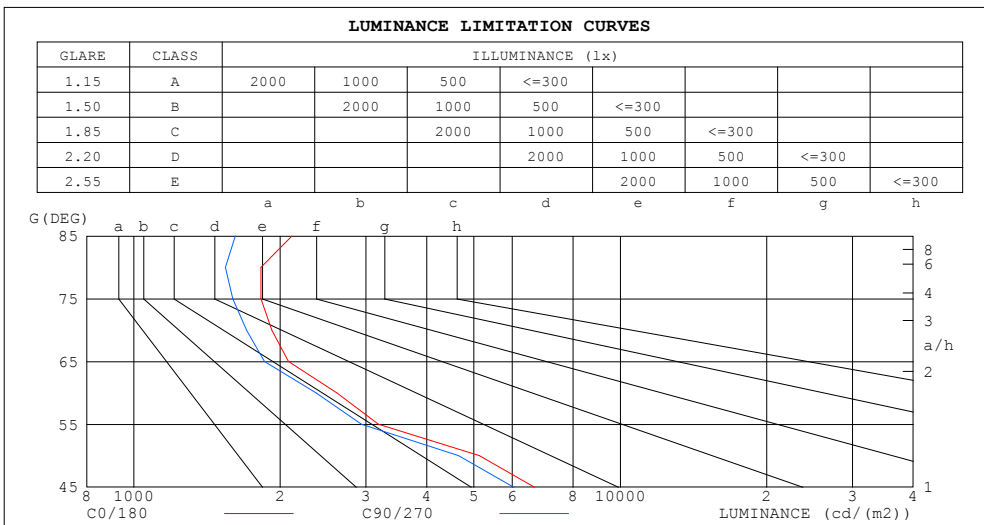
γ	C0	C90	C180	C270				γ	Φ zone	Φ total	%lum,lamp
10	3758	3741	3725	3785				0- 10	360.8	360.8	5.6,5.6
20	3530	3496	3493	3566				10- 20	1031	1392	21.6,21.6
30	3165	3015	3029	3147				20- 30	1534	2926	45.4,45.4
40	2083	1635	1587	1808				30- 40	1542	4468	69.4,69.4
50	978.9	887.6	665.7	986.3				40- 50	1005	5473	85,85
60	388.3	351.9	323.1	387.7				50- 60	503.9	5977	92.8,92.8
70	195.1	173.1	175.9	192.7				60- 70	257.2	6234	96.8,96.8
80	94.15	79.55	84.03	95.48				70- 80	141.9	6376	99,99
90	7.607	1.231	1.129	8.773				80- 90	52.05	6428	99.8,99.8
100	1.362	1.626	1.975	1.835				90-100	2.445	6431	99.9,99.9
110	2.374	2.996	3.840	3.437				100-110	2.498	6433	99.9,99.9
120	4.457	5.362	6.925	6.047				110-120	4.318	6437	100,100
130	0	0	0	0				120-130	1.317	6439	100,100
140	0	0	0	0				130-140	0	6439	100,100
150	0	0	0	0				140-150	0	6439	100,100
160	0	0	0	0				150-160	0	6439	100,100
170	0	0	0	0				160-170	0	6439	100,100
180	0	0	0	0				170-180	0	6439	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:King
 Test Date:2023-06-08

γ Range: 0 - 120DEG
 γ Interval: 5.0DEG
 γ Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity:65.0%
 Test Distance:9.950m [K=1.0251]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.18V I:0.2973A P:64.441W PF:0.9846 Freq:49.99Hz Lamp Flux:6438.79x1 lm		
NAME: VENICE-192100	TYPE:LED	WEIGHT:
SPEC.:6000K	DIM.:	SERIAL No.:01
MANUFACTURE:BBT LIGHTING	SUR.:	Shielding Angle:



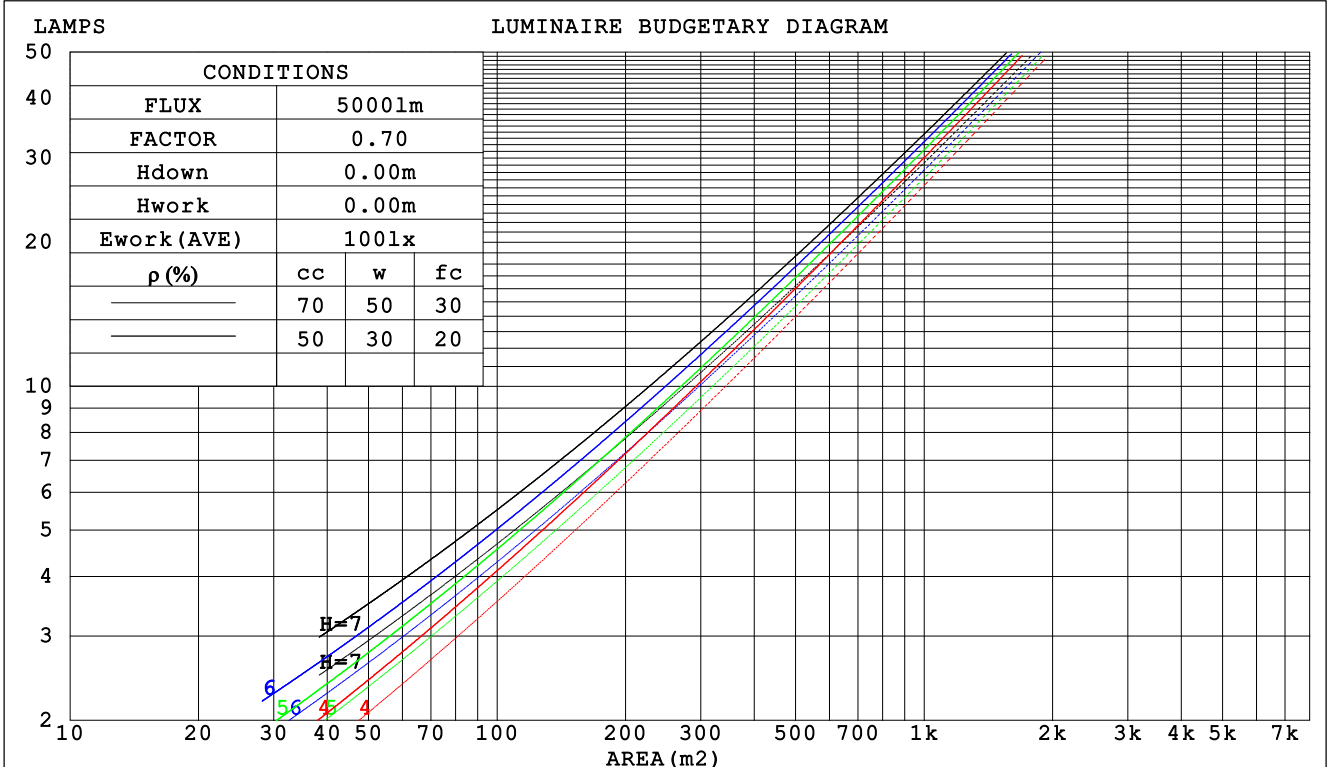
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:King
 Test Date:2023-06-08

γ Range: 0 - 120DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity:65.0%
 Test Distance:9.950m [K=1.0251]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.18V I:0.2973A P:64.441W PF:0.9846 Freq:49.99Hz Lamp Flux:6438.79x1 lm		
NAME: VENICE-192100	TYPE:LED	WEIGHT:
SPEC.:6000K	DIM.:	SERIAL No.:01
MANUFACTURE:BBT LIGHTING	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	1.02	1.02	1.02	.00
1.0	1.08	1.05	1.02	1.06	1.03	.00	1.01	.99	.97	.98	.96	.94	.94	.92	.91	.89
2.0	.97	.92	.88	.96	.91	.87	.92	.88	.85	.89	.86	.83	.86	.83	.81	.79
3.0	.88	.82	.77	.87	.81	.76	.84	.79	.75	.81	.77	.74	.79	.75	.72	.71
4.0	.81	.73	.68	.79	.73	.68	.77	.71	.67	.75	.70	.66	.73	.68	.65	.63
5.0	.74	.66	.61	.73	.66	.60	.71	.65	.60	.69	.63	.59	.67	.62	.59	.57
6.0	.68	.60	.55	.67	.60	.55	.65	.59	.54	.63	.58	.54	.62	.57	.53	.51
7.0	.62	.55	.50	.62	.54	.49	.60	.54	.49	.59	.53	.49	.57	.52	.49	.47
8.0	.58	.50	.45	.57	.50	.45	.56	.49	.45	.55	.49	.45	.53	.48	.44	.43
9.0	.53	.46	.41	.53	.46	.41	.52	.46	.41	.51	.45	.41	.50	.45	.41	.39
10.0	.50	.43	.38	.49	.43	.38	.48	.42	.38	.48	.42	.38	.47	.41	.38	.36



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:King
 Test Date:2023-06-08

γ Range: 0 - 120DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity:65.0%
 Test Distance:9.950m [K=1.0251]
 Remarks:

WEC AND CCEC

Test:U:220.18V I:0.2973A P:64.441W PF:0.9846 Freq:49.99Hz Lamp Flux:6438.79x1 lm		
NAME: VENICE-192100	TYPE:LED	WEIGHT:
SPEC.:6000K	DIM.:	SERIAL No.:01
MANUFACTURE:BBT LIGHTING	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.234	.133	.042	.227	.130	.041	.214	.123	.039	.203	.117	.037	.192	.111	.036	
2.0	.224	.123	.038	.218	.120	.037	.207	.115	.036	.197	.110	.035	.187	.106	.033	
3.0	.212	.113	.034	.207	.111	.033	.197	.107	.032	.188	.103	.032	.180	.099	.031	
4.0	.200	.104	.031	.195	.102	.030	.187	.099	.030	.179	.096	.029	.171	.093	.028	
5.0	.188	.096	.028	.184	.095	.028	.177	.092	.027	.170	.090	.027	.163	.087	.026	
6.0	.178	.089	.026	.174	.088	.025	.167	.086	.025	.161	.084	.025	.155	.082	.024	
7.0	.168	.083	.024	.165	.082	.023	.159	.080	.023	.153	.079	.023	.148	.077	.023	
8.0	.159	.078	.022	.156	.077	.022	.151	.075	.022	.146	.074	.021	.141	.072	.021	
9.0	.151	.073	.020	.148	.072	.020	.144	.071	.020	.139	.070	.020	.135	.068	.020	
10.0	.144	.069	.019	.141	.068	.019	.137	.067	.019	.133	.066	.019	.129	.065	.019	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.176	.158	.142	.151	.136	.122	.103	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.164	.134	.107	.141	.115	.093	.097	.080	.065	.056	.046	.038	.018	.015	.012	
3.0	.155	.115	.084	.133	.099	.073	.091	.069	.051	.053	.040	.030	.017	.013	.010	
4.0	.146	.101	.067	.125	.087	.058	.086	.061	.041	.050	.036	.024	.016	.012	.008	
5.0	.138	.090	.055	.119	.078	.048	.082	.055	.034	.047	.032	.020	.015	.010	.007	
6.0	.131	.081	.046	.113	.071	.040	.078	.049	.028	.045	.029	.017	.015	.009	.006	
7.0	.125	.074	.039	.108	.064	.034	.074	.045	.024	.043	.027	.014	.014	.009	.005	
8.0	.119	.068	.033	.103	.059	.029	.071	.042	.021	.041	.025	.012	.013	.008	.004	
9.0	.114	.063	.029	.098	.055	.025	.068	.039	.018	.040	.023	.011	.013	.007	.004	
10.0	.109	.059	.026	.094	.051	.023	.065	.036	.016	.038	.021	.010	.012	.007	.003	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:King
 Test Date:2023-06-08

γ Range: 0 - 120DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity:65.0%
 Test Distance:9.950m [K=1.0251]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.18V I:0.2973A P:64.441W PF:0.9846 Freq:49.99Hz Lamp Flux:6438.79x1 lm										
NAME: VENICE-192100					TYPE:LED			WEIGHT:		
SPEC.:6000K					DIM.:			SERIAL No.:01		
MANUFACTURE:BBT LIGHTING					SUR.:			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	16.2	17.5	16.5	17.6	17.8	15.7	17.0	16.0	17.2	17.4
3H	16.6	17.7	16.8	17.9	18.1	16.1	17.2	16.3	17.4	17.6
4H	16.7	17.8	17.0	18.0	18.3	16.2	17.3	16.5	17.5	17.8
6H	16.9	17.9	17.2	18.2	18.4	16.4	17.4	16.7	17.6	17.9
8H	17.0	18.0	17.3	18.3	18.5	16.4	17.4	16.8	17.7	18.0
12H	17.1	18.0	17.4	18.3	18.6	16.5	17.4	16.8	17.7	18.0
4H 2H	16.2	17.3	16.5	17.5	17.8	15.8	16.9	16.1	17.1	17.3
3H	16.7	17.6	17.1	17.9	18.2	16.3	17.2	16.6	17.5	17.8
4H	17.0	17.9	17.4	18.2	18.5	16.5	17.4	16.9	17.7	18.0
6H	17.3	18.1	17.7	18.4	18.8	16.8	17.6	17.2	17.9	18.3
8H	17.5	18.2	17.9	18.5	18.9	16.9	17.6	17.4	18.0	18.4
12H	17.6	18.3	18.1	18.6	19.0	17.0	17.7	17.5	18.0	18.4
8H 4H	17.1	17.8	17.5	18.1	18.5	16.6	17.3	17.0	17.7	18.1
6H	17.5	18.1	18.0	18.5	18.9	17.0	17.6	17.5	18.0	18.4
8H	17.8	18.3	18.2	18.7	19.1	17.2	17.7	17.7	18.2	18.6
12H	18.0	18.4	18.5	18.9	19.3	17.4	17.8	17.9	18.3	18.8
12H 4H	17.1	17.7	17.5	18.1	18.5	16.6	17.3	17.0	17.6	18.0
6H	17.5	18.0	18.0	18.5	18.9	17.1	17.6	17.5	18.0	18.4
8H	17.8	18.3	18.3	18.7	19.2	17.3	17.8	17.8	18.2	18.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 1.3					+ 0.9 / - 1.2				
1.5H	+ 1.5 / - 1.2					+ 0.9 / - 1.2				
2.0H	+ 2.4 / - 1.3					+ 2.4 / - 1.5				

CIE Pub.117, 6439 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 6.5$)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:King
Test Date:2023-06-08

γ Range: 0 - 120DEG
 γ Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:65.0%
Test Distance:9.950m [K=1.0251]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.18V I:0.2973A P:64.441W PF:0.9846 Freq:49.99Hz Lamp Flux:6438.79x1 lm		
NAME: VENICE-192100	TYPE:LED	WEIGHT:
SPEC.:6000K	DIM.:	SERIAL No.:01
MANUFACTURE:BBT LIGHTING	SUR.:	Shielding Angle:

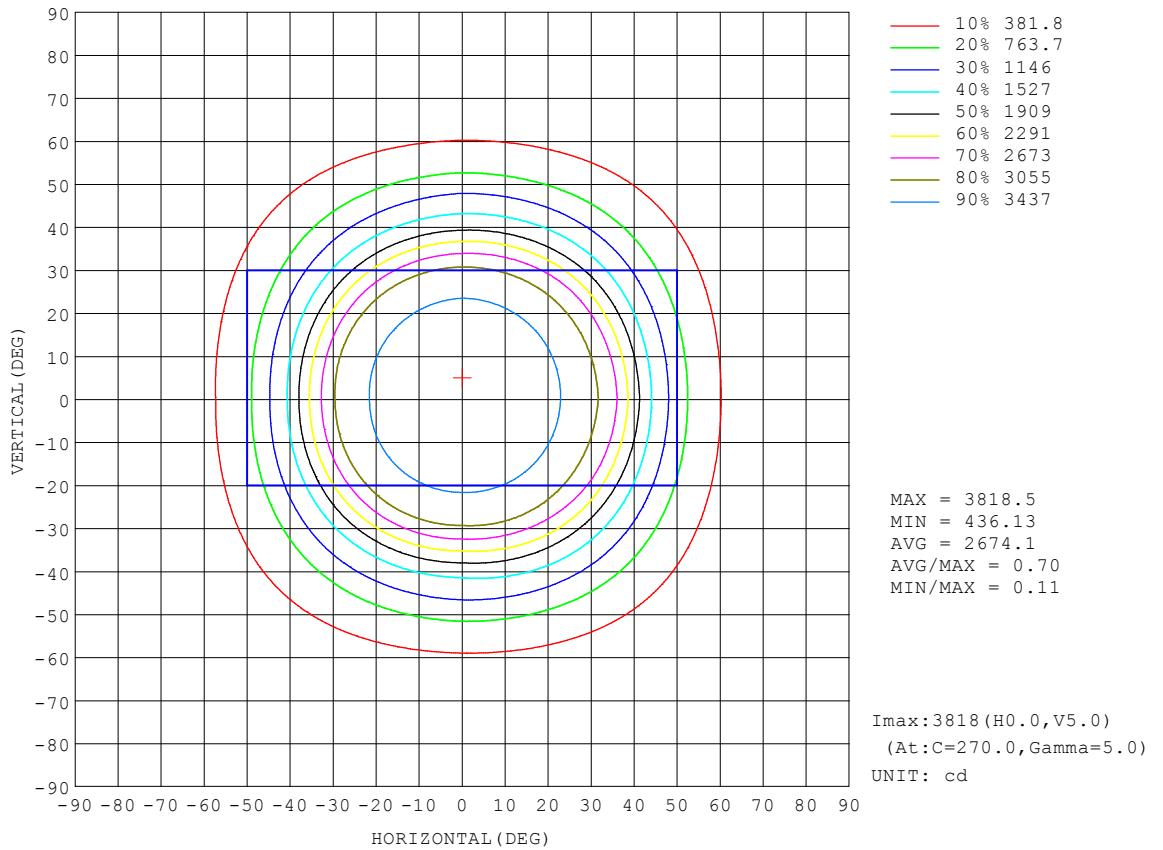
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	72	63	58	72	63	58	71	63	58	53
0.80	82	73	67	81	73	67	79	72	67	62
1.00	88	80	75	87	80	75	86	80	74	69
1.25	94	87	82	93	86	81	91	85	80	75
1.50	98	91	86	97	90	86	94	89	85	79
2.00	103	97	92	101	96	91	98	94	90	84
2.50	105	100	96	104	99	95	100	96	93	86
3.00	108	103	99	106	101	98	102	98	96	88
4.00	110	106	103	108	105	102	104	101	99	91
5.00	112	109	106	110	107	104	106	103	101	93
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:King
Test Date:2023-06-08

γ Range: 0 - 120DEG
 γ Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:65.0%
Test Distance:9.950m [K=1.0251]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.18V I:0.2973A P:64.441W PF:0.9846 Freq:49.99Hz Lamp Flux:6438.79x1 lm		
NAME:VENICE-192100	TYPE:LED	WEIGHT:
SPEC.:6000K	DIM.:	SERIAL No.:01
MANUFACTURE:BBT LIGHTING	SUR.:	Shielding Angle:

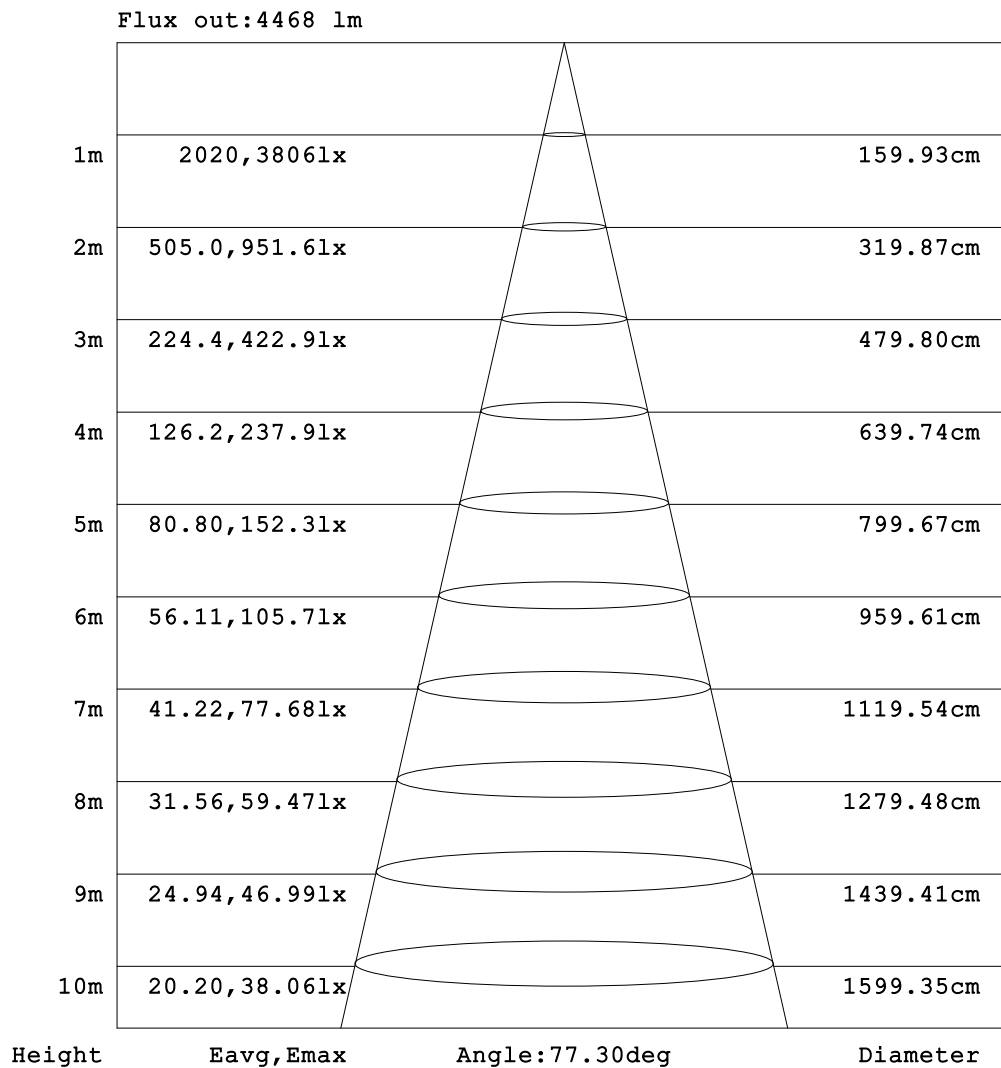


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: King
 Test Date: 2023-06-08

γ Range: 0 - 120DEG
 γ Interval: 5.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity: 65.0%
 Test Distance: 9.950m [K=1.0251]
 Remarks:

AAI Figure

Test:U:220.18V I:0.2973A P:64.441W PF:0.9846 Freq:49.99Hz Lamp Flux:6438.79x1 lm		
NAME: VENICE-192100	TYPE:LED	WEIGHT:
SPEC.:6000K	DIM.:	SERIAL No.:01
MANUFACTURE:BBT LIGHTING	SUR.:	Shielding Angle:



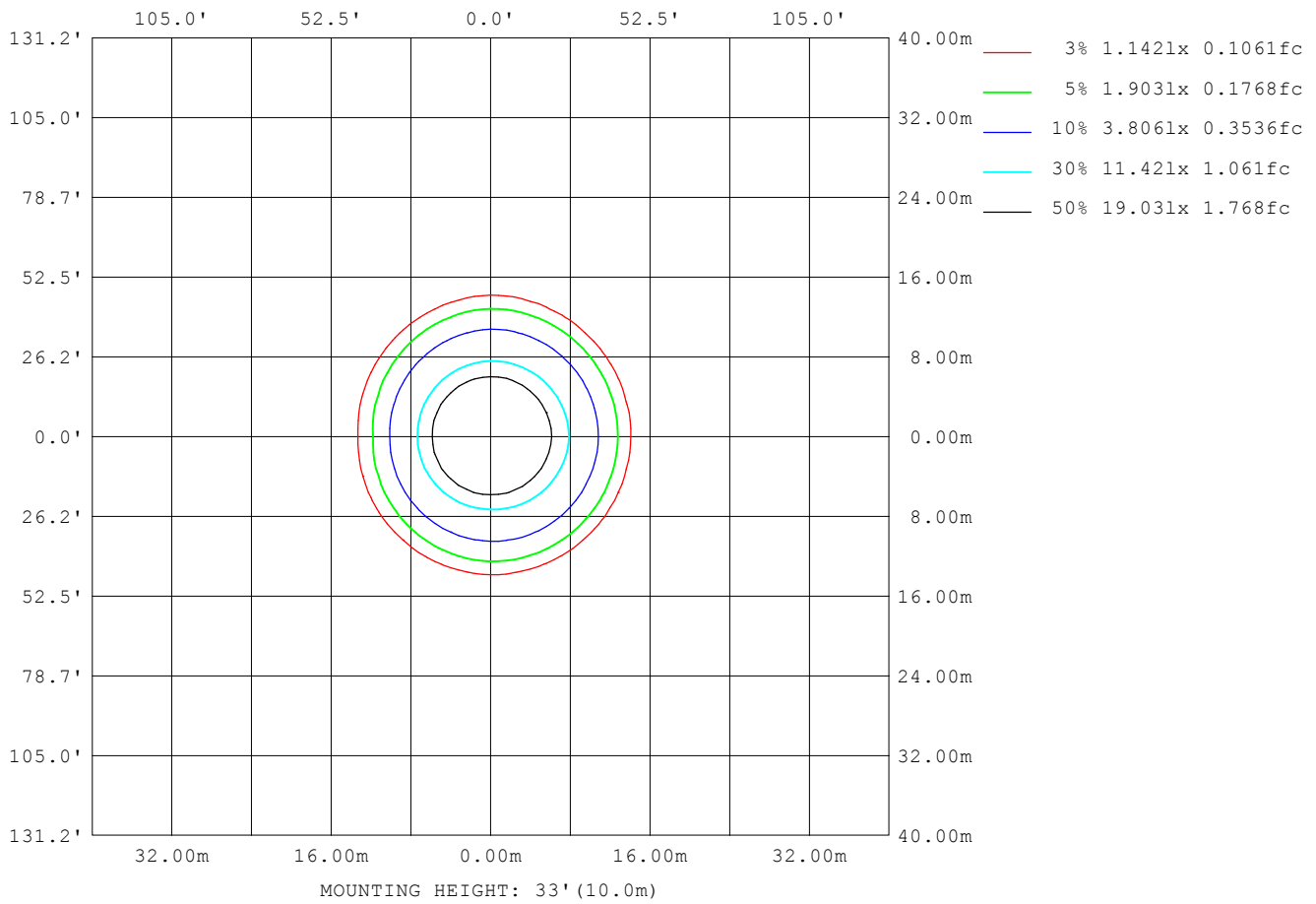
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:King
 Test Date:2023-06-08

γ Range: 0 - 120DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity:65.0%
 Test Distance:9.950m [K=1.0251]
 Remarks:

ISOLUX DIAGRAM

Test:U:220.18V I:0.2973A P:64.441W PF:0.9846 Freq:49.99Hz Lamp Flux:6438.79x1 lm		
NAME: VENICE-192100	TYPE:LED	WEIGHT:
SPEC.:6000K	DIM.:	SERIAL No.:01
MANUFACTURE:BBT LIGHTING	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:King
 Test Date:2023-06-08

γ Range: 0 - 120DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity:65.0%
 Test Distance:9.950m [K=1.0251]
 Remarks:

LED Avg.L Report

Test:U:220.18V I:0.2973A P:64.441W PF:0.9846 Freq:49.99Hz Lamp Flux:6438.79x1 lm		
NAME:VENICE-192100	TYPE:LED	WEIGHT:
SPEC.:6000K	DIM.:	SERIAL No.:01
MANUFACTURE:BBT LIGHTING	SUR.:	Shielding Angle:

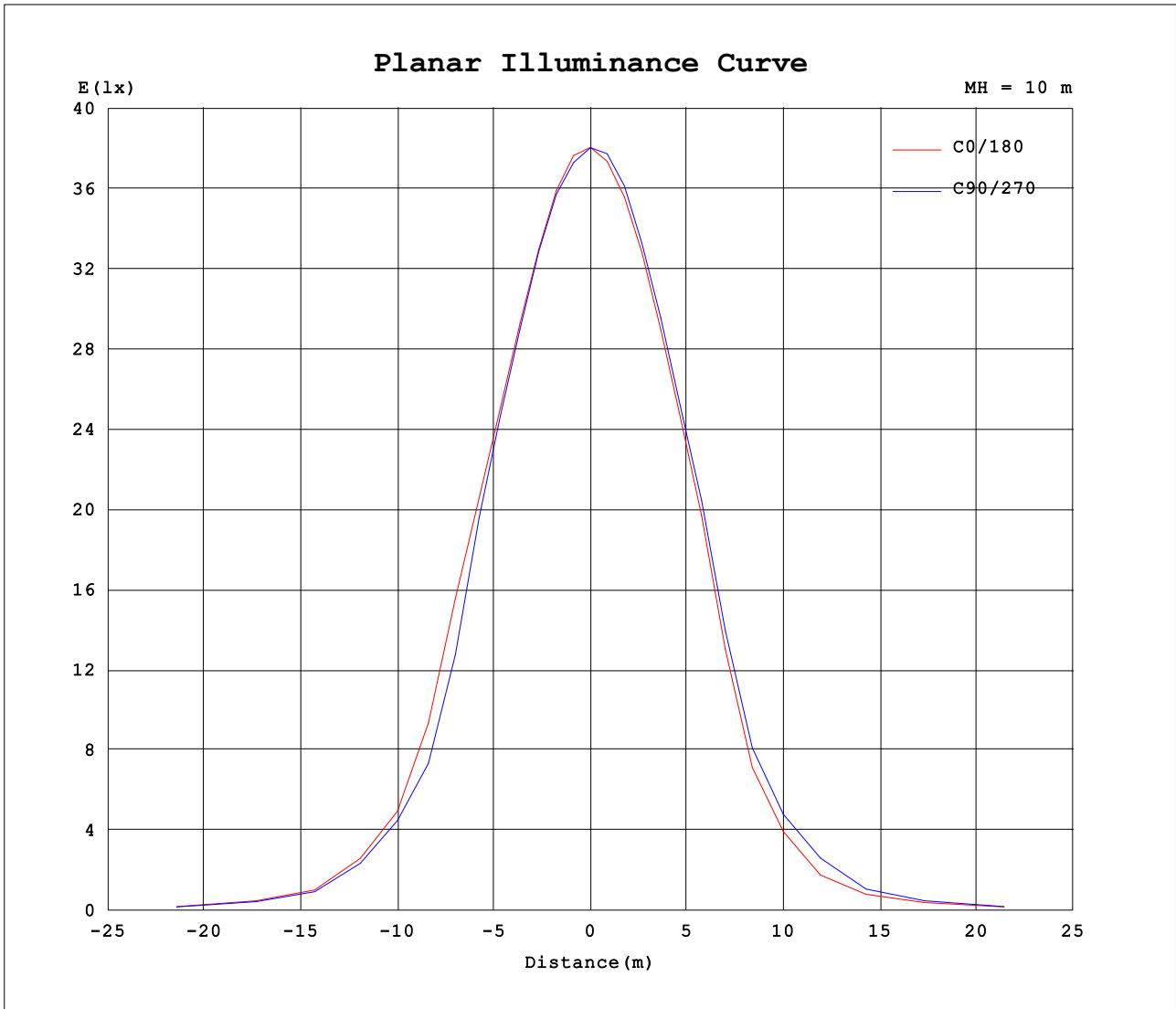
AvgL	cd/m2
L_0~180 (65) av	1964
L_0~180 (75) av	1738
L_0~180 (85) av	1880
L_90~270 (65) av	1965
L_90~270 (75) av	1712
L_90~270 (85) av	1912
L_45 (65) av	1957
L_45 (75) av	1717
L_45 (85) av	1885

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
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γ Range: 0 - 120DEG
 γ Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:65.0%
Test Distance:9.950m [K=1.0251]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: King
 Test Date: 2023-06-08

γ Range: 0 - 120DEG
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 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity: 65.0%
 Test Distance: 9.950m [K=1.0251]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.18V I:0.2973A P:64.441W PF:0.9846 Freq:49.99Hz Lamp Flux:6438.79x1 lm		
NAME: VENICE-192100	TYPE:LED	WEIGHT:
SPEC.:6000K	DIM.:	SERIAL No.:01
MANUFACTURE:BBT LIGHTING	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	3805	3805	3805	3805															
5	3808	3775	3779	3819															
10	3758	3741	3725	3785															
15	3657	3649	3640	3692															
20	3530	3496	3493	3566															
25	3368	3317	3306	3382															
30	3165	3015	3029	3147															
35	2830	2322	2370	2539															
40	2083	1635	1587	1808															
45	1400	1269	1115	1362															
50	979	888	666	986															
55	542	500	432	566															
60	388	352	323	388															
65	261	233	232	260															
70	195	173	176	193															
75	140	123	127	140															
80	94.2	79.5	84.0	95.5															
85	54.8	41.9	42.6	57.1															
90	7.61	1.23	1.13	8.77															
95	1.09	1.27	1.45	1.33															
100	1.36	1.63	1.97	1.83															
105	1.77	2.21	2.72	2.50															
110	2.37	3.00	3.84	3.44															
115	3.24	4.05	5.26	4.64															
120	4.46	5.36	6.92	6.05															
125	0.00	0.00	0.00	0.00															
130	0.00	0.00	0.00	0.00															
135	0.00	0.00	0.00	0.00															
140	0.00	0.00	0.00	0.00															
145	0.00	0.00	0.00	0.00															
150	0.00	0.00	0.00	0.00															
155	0.00	0.00	0.00	0.00															
160	0.00	0.00	0.00	0.00															
165	0.00	0.00	0.00	0.00															
170	0.00	0.00	0.00	0.00															
175	0.00	0.00	0.00	0.00															
180	0.00	0.00	0.00	0.00															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:King
 Test Date:2023-06-08

γ Range: 0 - 120DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity:65.0%
 Test Distance:9.950m [K=1.0251]
 Remarks: