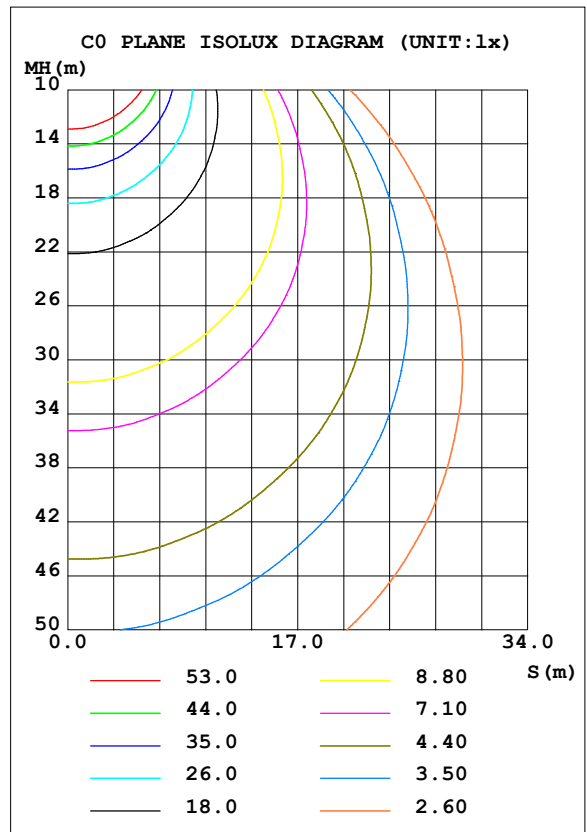
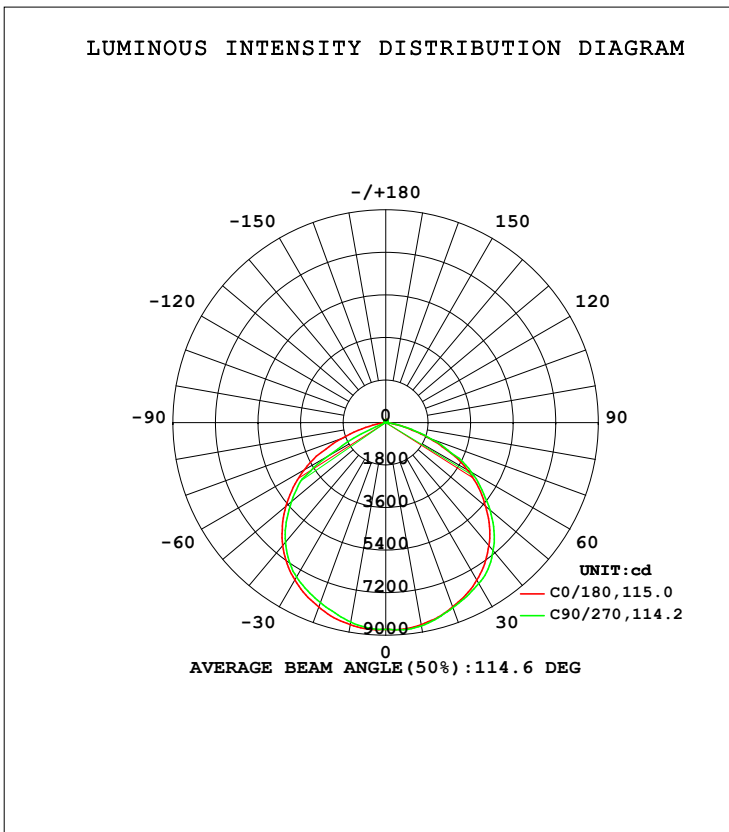


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 124.16 lm/W			
MODEL	200W	I <sub>max</sub> (cd)	8792	S/MH (C0/180)	1.31
NOMINAL POWER (W)	200	LOR (%)	100.0	S/MH (C90/270)	1.29
RATED VOLTAGE (V)	277	TOTAL FLUX (lm)	24734	η UP, DN (C0-180)	0.8, 51.2
NOMINAL FLUX (lm)	24734	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.9, 47.2
LAMPS INSIDE	1	η up (%)	1.6	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	η down (%)	98.4	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 01 November 2018

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 8.250m [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	8674	8724	8731	8718	8681	8631	8566	8594	0- 10	833.1	833.1	3.37,3.37
20	8295	8309	8337	8321	8305	8150	8104	8116	10- 20	2396	3229	13.1,13.1
30	7701	7686	7869	7682	7688	7488	7550	7474	20- 30	3674	6903	27.9,27.9
40	6792	6912	7071	6882	6786	6649	6609	6653	30- 40	4541	11444	46.3,46.3
50	5518	5750	5768	5742	5514	5441	5200	5409	40- 50	4794	16238	65.7,65.6
60	3983	4097	4188	4116	3968	3780	2733	3732	50- 60	4241	20479	82.8,82.8
70	1970	2265	2068	2278	2027	1818	46.71	1708	60- 70	2765	23244	94,94
80	335.0	375.0	389.3	385.9	359.3	256.3	13.00	184.0	70- 80	1002	24246	98,98
90	17.98	21.14	22.65	20.88	19.87	19.81	17.70	18.21	80- 90	83.97	24330	98.4,98.4
100	29.43	28.86	19.04	27.86	35.04	34.16	30.89	33.75	90-100	25.80	24356	98.5,98.5
110	47.26	44.40	36.09	43.11	54.90	50.85	46.10	49.97	100-110	40.15	24396	98.6,98.6
120	65.65	61.82	56.57	60.00	73.76	67.46	64.63	66.51	110-120	55.21	24452	98.9,98.9
130	80.31	76.22	73.03	73.06	88.52	80.81	81.38	80.17	120-130	64.62	24516	99.1,99.1
140	90.09	88.64	85.55	84.27	97.78	91.51	93.10	91.01	130-140	65.67	24582	99.4,99.4
150	99.67	101.2	97.52	94.63	104.9	100.3	100.1	99.77	140-150	59.54	24641	99.6,99.6
160	110.7	112.1	107.2	104.0	114.1	107.9	108.6	107.6	150-160	48.24	24690	99.8,99.8
170	124.9	120.8	118.2	114.1	126.3	118.2	120.1	116.6	160-170	32.28	24722	100,100
180	129.3	124.2	126.3	121.2	129.8	123.8	126.8	120.9	170-180	11.66	24734	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 13858 lm

%lum = 56.0%

%lamp = 56.0%

Conical surface Flux(120deg): 20479 lm

%lum = 82.8%

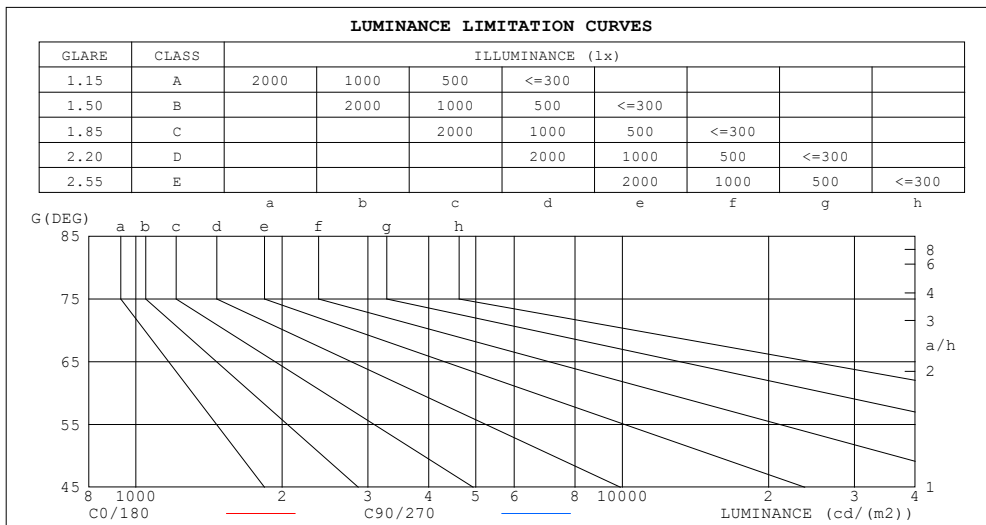
%lamp = 82.8%

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:01 November 2018

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity:65.0%  
 Test Distance:8.250m [K=1.0000]  
 Remarks:

**LUMINANCE LIMITATION CURVES**

<b>NAME:</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPEC.:</b>	<b>DIM.:</b>	<b>SERIAL No.:</b>
<b>MFR.:</b>	<b>SUR.:</b>	<b>Shielding Angle:</b>



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	35795	47613
80	194279	223643
75	399526	438757
70	580181	603192
65	725783	729607
60	802113	835582
55	842638	866008
50	864410	895193
45	883951	914739

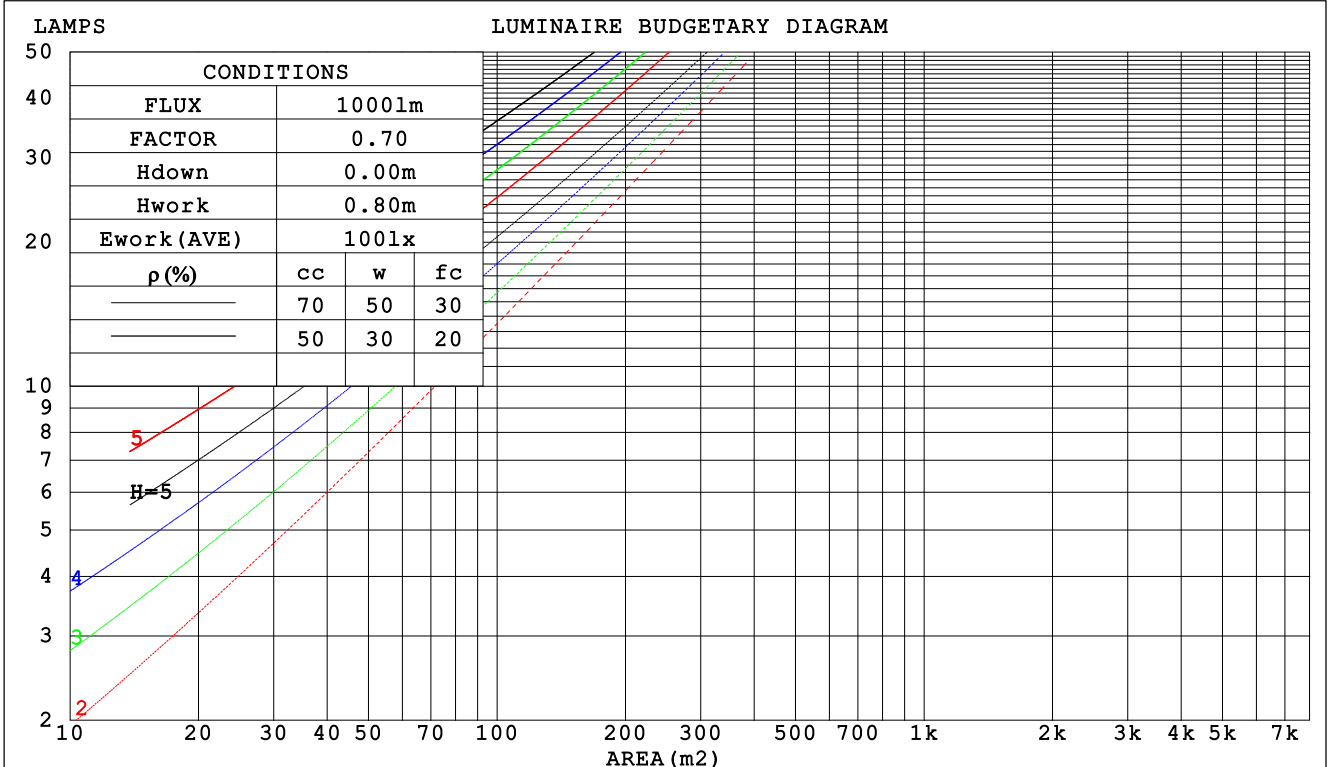
C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 01 November 2018

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 8.250m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.98
1.0	1.05	1.01	.98	1.03	.99	.96	.98	.95	.93	.94	.92	.90	.90	.88	.87	.85
2.0	.92	.86	.81	.90	.84	.79	.86	.82	.77	.83	.79	.75	.80	.76	.73	.71
3.0	.81	.74	.67	.80	.72	.67	.76	.70	.65	.73	.68	.64	.71	.66	.63	.60
4.0	.72	.64	.57	.71	.63	.57	.68	.61	.56	.65	.60	.55	.63	.58	.54	.52
5.0	.64	.56	.49	.63	.55	.49	.61	.54	.48	.59	.52	.48	.57	.51	.47	.45
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.53	.47	.42	.51	.46	.41	.39
7.0	.52	.44	.38	.52	.43	.38	.50	.43	.37	.48	.42	.37	.47	.41	.37	.35
8.0	.48	.39	.34	.47	.39	.34	.46	.38	.33	.44	.38	.33	.43	.37	.33	.31
9.0	.44	.36	.30	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.29	.28
10.0	.40	.33	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.27	.25



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 01 November 2018

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 8.250m [K=1.0000]  
 Remarks:

**WEC AND CCEC**

<b>NAME:</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPEC.:</b>	<b>DIM.:</b>	<b>SERIAL No.:</b>
<b>MFR.:</b>	<b>SUR.:</b>	<b>Shielding Angle:</b>

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Wall Exitance Coefficients (WEC)</b>									
0.0																
1.0	.278	.158	.050	.271	.154	.049	.257	.147	.047	.244	.141	.045	.232	.134	.043	
2.0	.270	.148	.045	.264	.145	.045	.252	.140	.043	.240	.135	.042	.230	.130	.041	
3.0	.255	.136	.041	.249	.133	.040	.238	.129	.039	.228	.125	.038	.219	.121	.037	
4.0	.238	.124	.036	.233	.122	.036	.223	.119	.035	.214	.115	.035	.206	.112	.034	
5.0	.222	.113	.033	.218	.112	.033	.209	.109	.032	.201	.106	.032	.193	.103	.031	
6.0	.208	.104	.030	.203	.103	.030	.196	.100	.029	.188	.098	.029	.182	.096	.028	
7.0	.194	.096	.027	.190	.095	.027	.183	.093	.027	.177	.091	.026	.171	.089	.026	
8.0	.182	.089	.025	.179	.088	.025	.172	.086	.025	.166	.084	.024	.161	.083	.024	
9.0	.171	.083	.023	.168	.082	.023	.162	.080	.023	.157	.079	.023	.152	.077	.022	
10.0	.161	.077	.021	.158	.077	.021	.153	.075	.021	.148	.074	.021	.144	.072	.021	

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Ceiling Cavity Exitance Coefficients (CCEC)</b>									
0.0	.203	.203	.203	.173	.173	.173	.118	.118	.118	.068	.068	.068	.022	.022	.022	
1.0	.191	.169	.149	.163	.145	.129	.112	.100	.089	.064	.058	.052	.021	.019	.017	
2.0	.182	.145	.113	.156	.124	.098	.107	.086	.068	.062	.050	.040	.020	.016	.013	
3.0	.174	.127	.089	.149	.109	.077	.103	.076	.054	.059	.044	.032	.019	.014	.010	
4.0	.167	.113	.073	.143	.098	.063	.099	.068	.044	.057	.040	.026	.018	.013	.009	
5.0	.160	.103	.061	.137	.089	.053	.095	.062	.038	.055	.037	.022	.018	.012	.007	
6.0	.153	.095	.053	.132	.082	.046	.091	.057	.033	.053	.034	.019	.017	.011	.006	
7.0	.146	.088	.047	.126	.076	.041	.087	.053	.029	.051	.031	.017	.016	.010	.006	
8.0	.140	.082	.042	.121	.071	.037	.084	.050	.026	.049	.029	.015	.016	.010	.005	
9.0	.134	.077	.038	.116	.067	.034	.080	.047	.024	.047	.028	.014	.015	.009	.005	
10.0	.129	.073	.036	.111	.063	.031	.077	.045	.022	.045	.026	.013	.015	.009	.004	

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:01 November 2018

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity:65.0%  
 Test Distance:8.250m [K=1.0000]  
 Remarks:

**UGR(Unified Glare Rating) Table**

NAME:		TYPE:					WEIGHT:				
SPEC.:		DIM.:					SERIAL No.:				
MFR.:		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		25.4	26.8	25.7	27.0	27.3	25.5	27.0	25.8	27.2	27.4
	3H	26.5	27.8	26.8	28.1	28.4	26.6	28.0	27.0	28.2	28.5
	4H	26.7	28.0	27.1	28.3	28.6	26.9	28.2	27.2	28.5	28.7
	6H	26.7	27.9	27.1	28.2	28.5	26.9	28.1	27.3	28.4	28.7
	8H	26.7	27.8	27.1	28.2	28.5	26.9	28.1	27.3	28.4	28.7
	12H	26.7	27.7	27.0	28.1	28.4	26.9	28.0	27.2	28.3	28.6
	4H 2H	25.9	27.2	26.3	27.5	27.8	26.0	27.3	26.4	27.6	27.9
	3H	27.2	28.3	27.6	28.6	29.0	27.3	28.4	27.7	28.7	29.1
	4H	27.5	28.5	27.9	28.8	29.2	27.7	28.7	28.1	29.0	29.4
	6H	27.6	28.4	28.0	28.8	29.2	27.7	28.6	28.2	29.0	29.4
	8H	27.5	28.3	28.0	28.7	29.1	27.7	28.5	28.1	28.9	29.3
	12H	27.5	28.2	27.9	28.6	29.1	27.7	28.4	28.1	28.8	29.3
	8H 4H	27.6	28.4	28.0	28.8	29.2	27.7	28.5	28.2	28.9	29.4
	6H	27.7	28.3	28.1	28.8	29.2	27.9	28.5	28.3	29.0	29.4
	8H	27.7	28.2	28.1	28.7	29.2	27.8	28.4	28.3	28.9	29.4
	12H	27.6	28.1	28.1	28.6	29.1	27.8	28.3	28.3	28.8	29.3
	12H 4H	27.6	28.3	28.0	28.7	29.1	27.7	28.4	28.2	28.9	29.3
	6H	27.7	28.2	28.1	28.7	29.2	27.8	28.4	28.3	28.9	29.4
	8H	27.6	28.1	28.1	28.6	29.1	27.8	28.3	28.3	28.8	29.3
Variations with the observer position at spacings:											
S = 1.0H		+ 0.3 / - 0.3					+ 0.2 / - 0.3				
1.5H		+ 0.3 / - 0.5					+ 0.2 / - 0.5				
2.0H		+ 0.3 / - 0.4					+ 0.4 / - 0.4				

CIE Pub.117, 24734 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 11.1)

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:01 November 2018

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity:65.0%  
 Test Distance:8.250m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

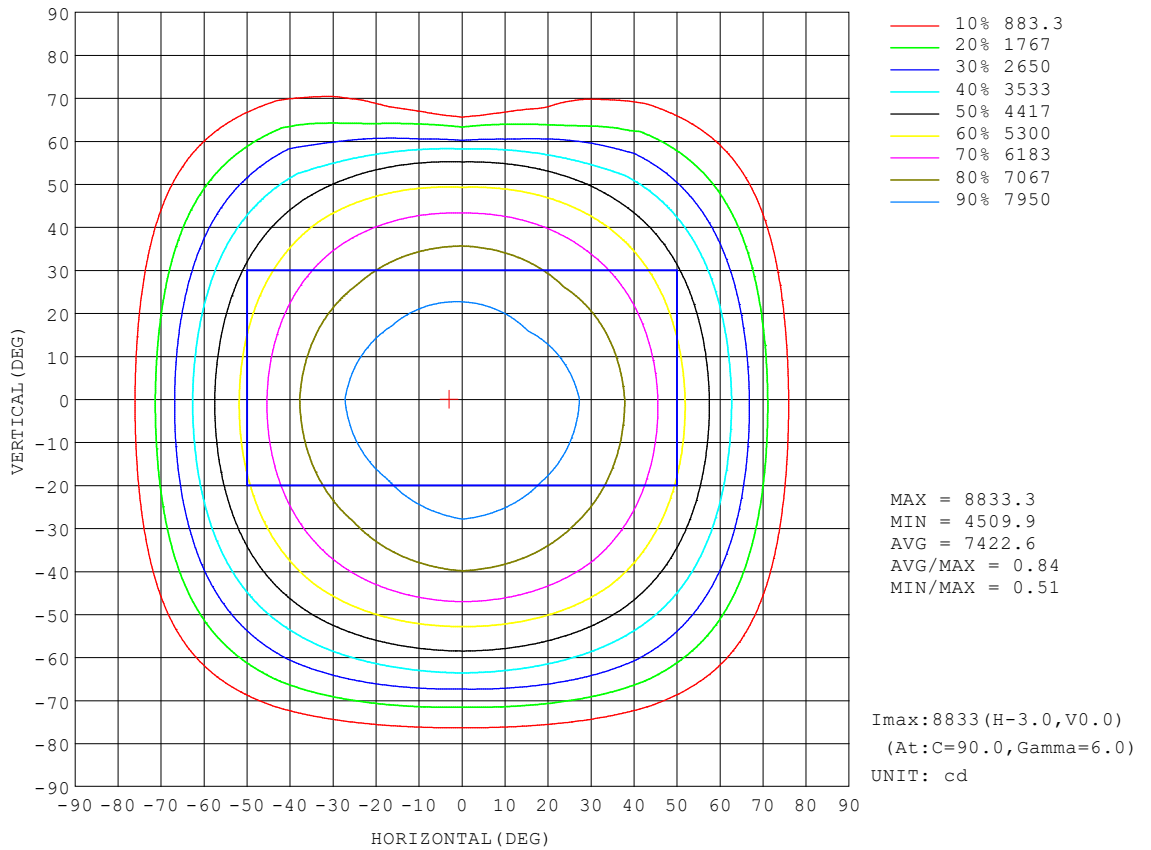
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	47	40	57	46	40	56	46	39	33
0.80	68	57	50	67	57	50	65	56	49	42
1.00	77	67	60	76	66	59	74	67	59	52
1.25	85	75	68	83	74	67	80	72	66	59
1.50	90	80	74	88	79	73	85	77	72	64
2.00	96	88	82	94	87	82	91	85	80	72
2.50	100	93	87	98	91	86	94	89	84	76
3.00	103	97	92	101	95	91	97	92	88	80
4.00	107	102	98	105	100	96	100	96	93	84
5.00	109	105	101	107	103	100	102	99	96	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 01 November 2018

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 8.250m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

<b>NAME:</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPEC.:</b>	<b>DIM.:</b>	<b>SERIAL No.:</b>
<b>MFR.:</b>	<b>SUR.:</b>	<b>Shielding Angle:</b>



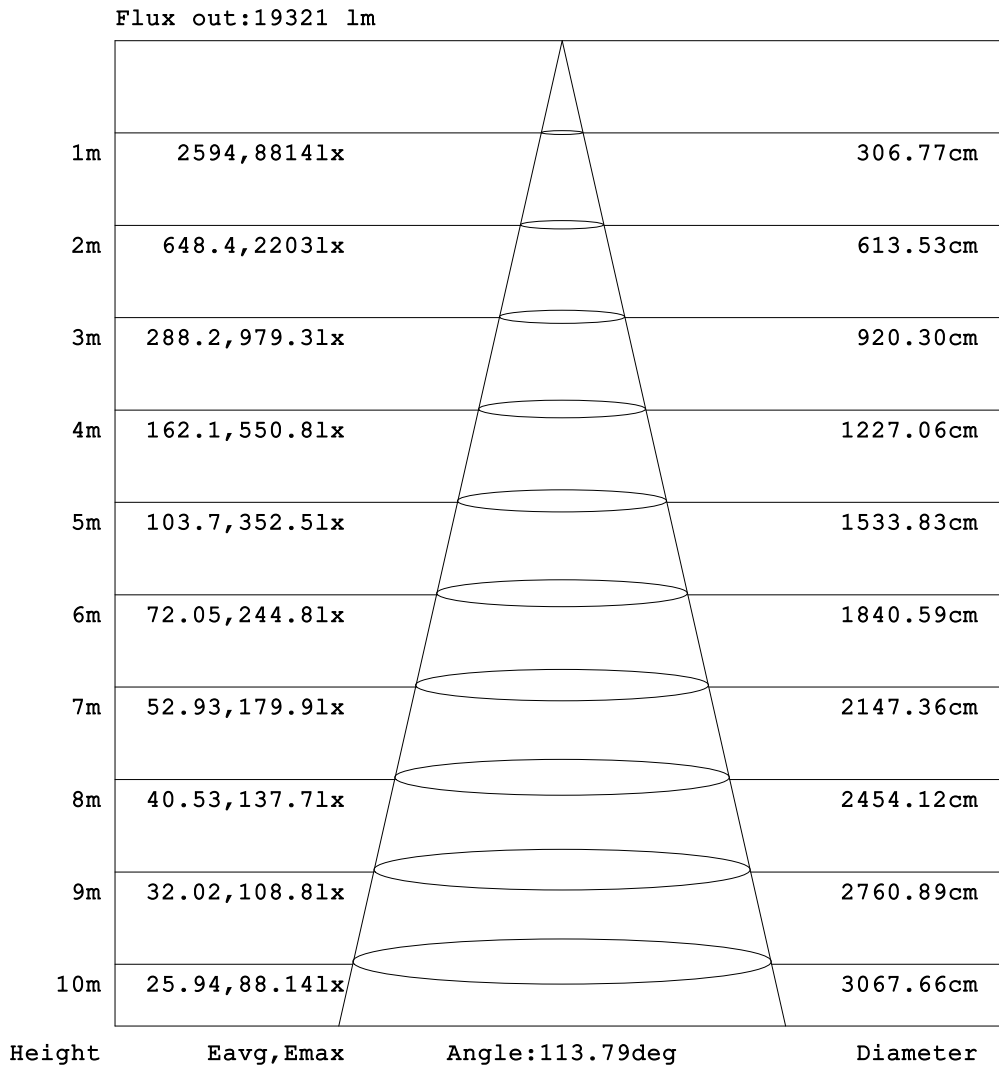
C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 01 November 2018

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 8.250m [K=1.0000]  
 Remarks:



**AAI Figure**

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



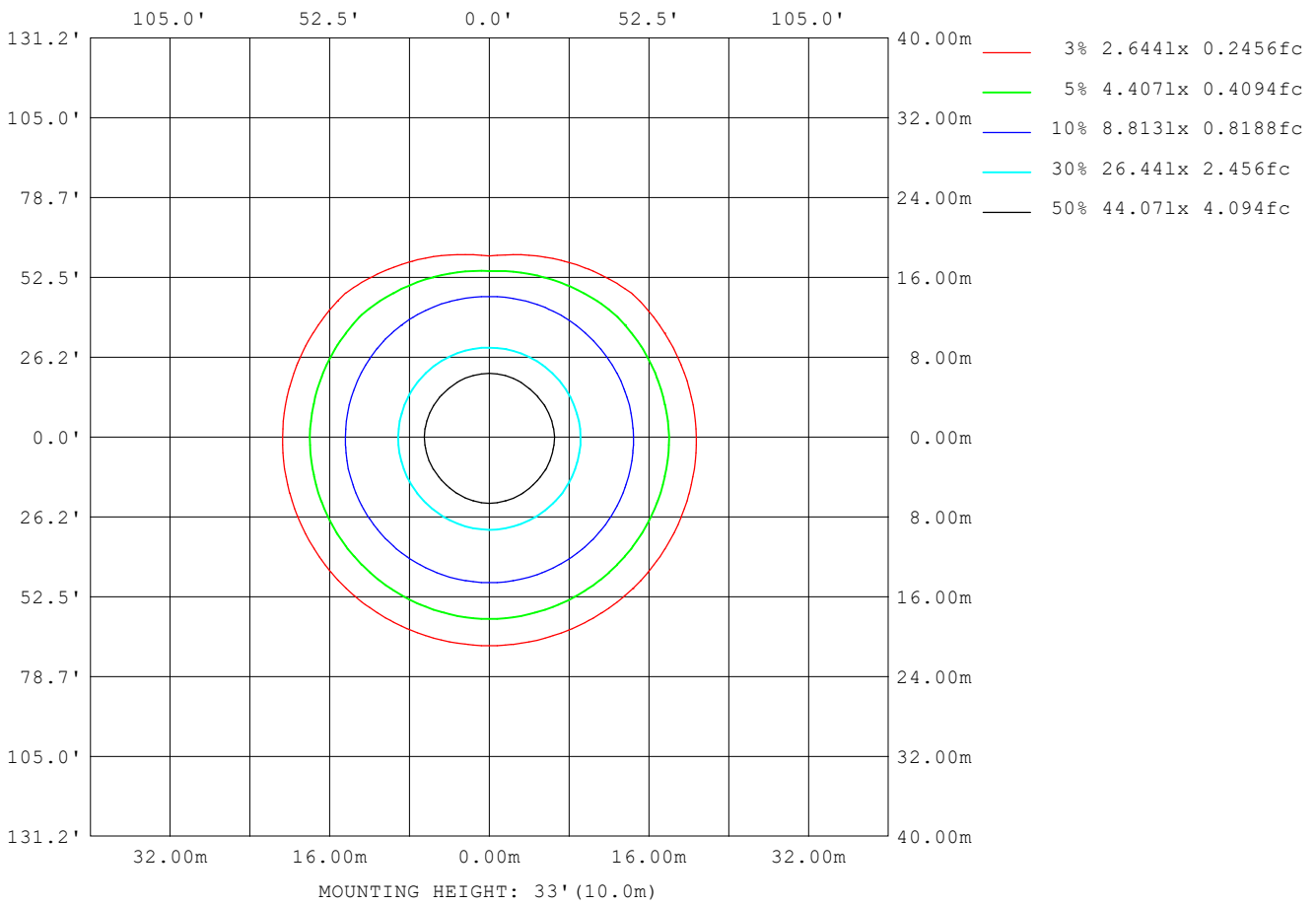
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:01 November 2018

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity:65.0%  
 Test Distance:8.250m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

<b>NAME:</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPEC.:</b>	<b>DIM.:</b>	<b>SERIAL No.:</b>
<b>MFR.:</b>	<b>SUR.:</b>	<b>Shielding Angle:</b>



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 01 November 2018

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 8.250m [K=1.0000]  
 Remarks:

**LED Avg.L Report**

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

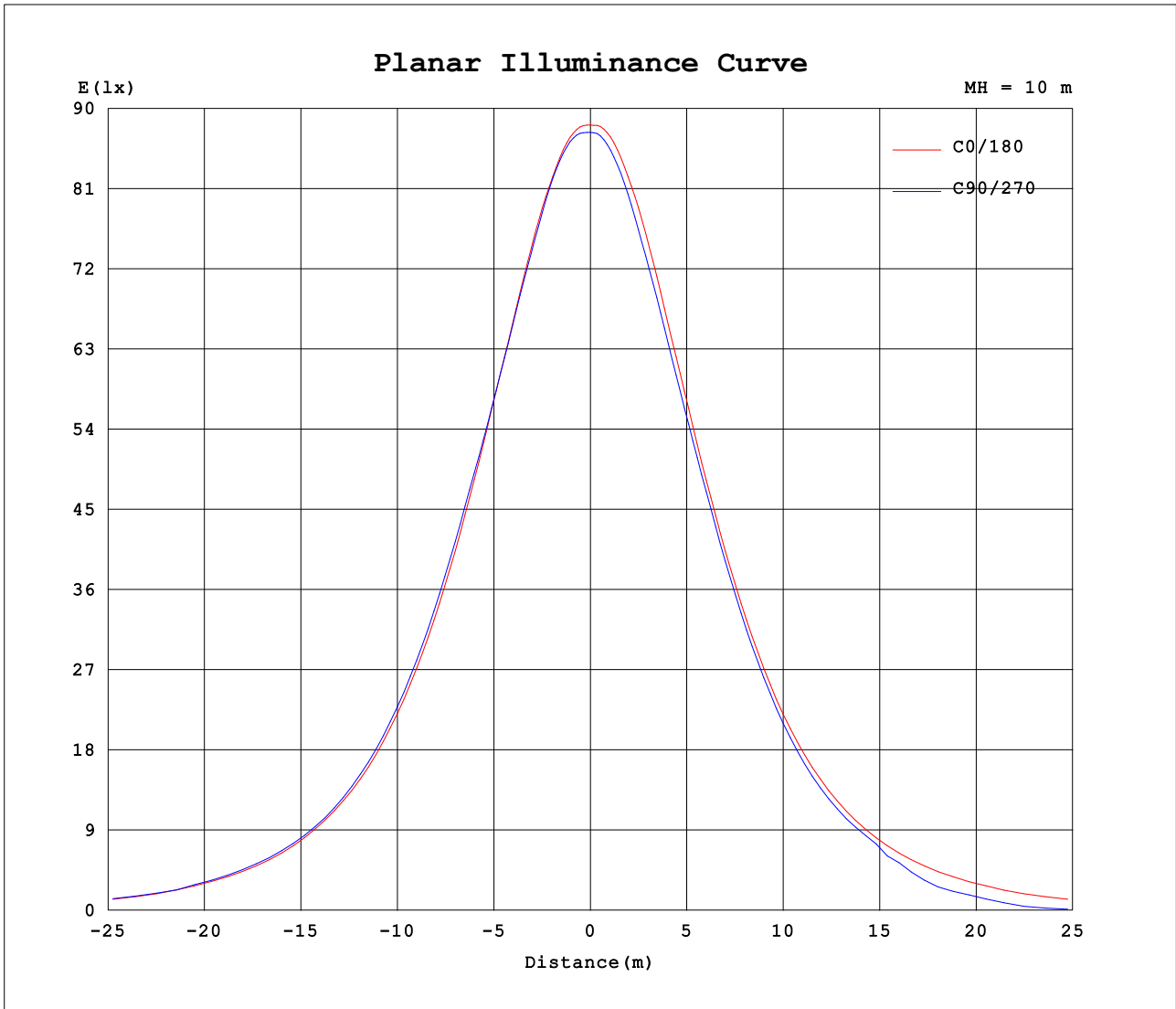
AvgL	cd/m2
L_0~180 (65) av	715936
L_0~180 (75) av	403961
L_0~180 (85) av	36529
L_90~270 (65) av	500418
L_90~270 (75) av	224384
L_90~270 (85) av	31847
L_45 (65) av	713393
L_45 (75) av	402932
L_45 (85) av	40473

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:01 November 2018

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity:65.0%  
 Test Distance:8.250m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 01 November 2018

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 8.250m [K=1.0000]  
 Remarks:

**LUMINOUS DISTRIBUTION INTENSITY DATA**

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	45	90	135	180	225	270	315											
0	8752	8752	8752	8752	8752	8752	8752	8752											
5	8766	8785	8791	8777	8769	8740	8716	8721											
10	8674	8724	8731	8718	8681	8631	8566	8594											
15	8530	8558	8548	8567	8539	8431	8336	8385											
20	8295	8309	8337	8321	8305	8150	8104	8116											
25	8036	8019	8111	8018	8036	7831	7844	7817											
30	7701	7686	7869	7682	7688	7488	7550	7474											
35	7296	7319	7555	7305	7287	7091	7144	7091											
40	6792	6912	7071	6882	6786	6649	6609	6653											
45	6207	6403	6484	6393	6186	6105	5954	6088											
50	5518	5750	5768	5742	5514	5441	5200	5409											
55	4799	4973	4979	4983	4779	4661	4457	4610											
60	3983	4097	4188	4116	3968	3780	2733	3732											
65	3046	3194	3091	3200	3005	2899	1139	2767											
70	1970	2265	2068	2278	2027	1818	46.7	1708											
75	1027	1215	1138	1246	1064	898	23.2	812											
80	335	375	389	386	359	256	13.0	184											
85	31.0	42.6	41.6	46.3	32.7	30.1	13.9	22.1											
90	18.0	21.1	22.6	20.9	19.9	19.8	17.7	18.2											
95	21.8	22.6	18.7	21.8	25.4	25.7	23.9	25.3											
100	29.4	28.9	19.0	27.9	35.0	34.2	30.9	33.8											
105	38.2	36.6	24.9	35.4	45.1	42.7	38.0	42.0											
110	47.3	44.4	36.1	43.1	54.9	50.8	46.1	50.0											
115	56.5	53.3	47.5	51.8	64.5	59.3	55.2	58.4											
120	65.6	61.8	56.6	60.0	73.8	67.5	64.6	66.5											
125	73.7	69.3	64.6	67.0	81.9	74.6	73.6	73.8											
130	80.3	76.2	73.0	73.1	88.5	80.8	81.4	80.2											
135	85.6	82.5	79.8	78.8	93.6	86.5	87.7	85.8											
140	90.1	88.6	85.5	84.3	97.8	91.5	93.1	91.0											
145	94.7	94.9	91.2	89.3	101	96.0	97.1	95.5											
150	99.7	101	97.5	94.6	105	100	100	99.8											
155	105	107	103	99.6	109	104	105	104											
160	111	112	107	104	114	108	109	108											
165	118	118	113	109	120	113	114	112											
170	125	121	118	114	126	118	120	117											
175	128	123	123	118	129	121	125	119											
180	129	124	126	121	130	124	127	121											

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