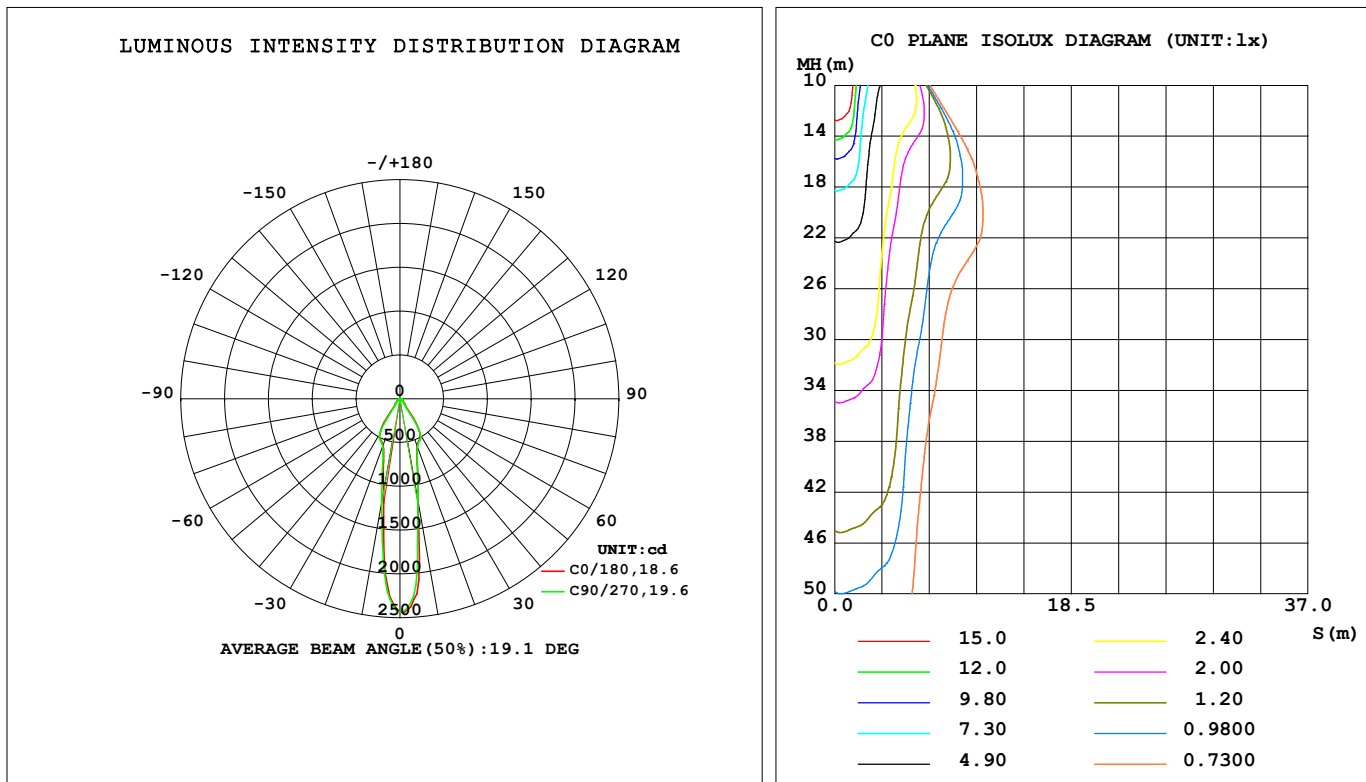


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:239.99V I:0.0492A P:10.396W PF:0.8800 Freq:50.09Hz Lamp Flux:875.66x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_24	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 84.23 lm/W
MODEL	SLE G7 09MM 4000K	I <sub>max</sub> (cd)	2447	S/MH (C0/180)		0.31
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		0.33
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	875.66	η UP,DN (C0-180)		0.0,50.5
NOMINAL FLUX (lm)	875.66	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,49.5
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		0.00
TEST VOLTAGE (V)	230	η down (%)	100.0	CIBSE SHR MAX		1.00



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:22 October 2020

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

### ZONAL FLUX DIAGRAM

#### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1194	1261	1183	1042	1086	1162	1204	1113	0- 10	164.2	164.2	18.8,18.8
20	579.0	594.1	592.3	566.4	570.2	578.7	581.5	569.3	10- 20	215.6	379.8	43.4,43.4
30	453.1	471.6	464.9	467.9	463.6	457.6	457.1	456.9	20- 30	242.0	621.8	71,71
40	94.34	87.10	83.15	87.83	90.19	86.41	81.01	87.59	30- 40	144.0	765.8	87.4,87.4
50	44.78	39.93	31.55	41.61	43.63	38.45	30.24	41.36	40- 50	48.61	814.4	93,93
60	24.16	23.82	24.05	23.98	24.36	23.80	23.67	23.61	50- 60	24.74	839.1	95.8,95.8
70	18.81	17.39	16.69	17.54	18.73	17.24	16.40	17.50	60- 70	20.97	860.1	98.2,98.2
80	7.339	7.086	5.799	7.133	7.531	6.757	5.590	7.546	70- 80	13.26	873.3	99.7,99.7
90	0.0564	0.0439	0.0407	0.0596	0.0784	0.0470	0.0345	0.0376	80- 90	2.323	875.7	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 793.78 lm

%lum = 90.6%

%lamp = 90.6%

Conical surface Flux(120deg): 839.11 lm

%lum = 95.8%

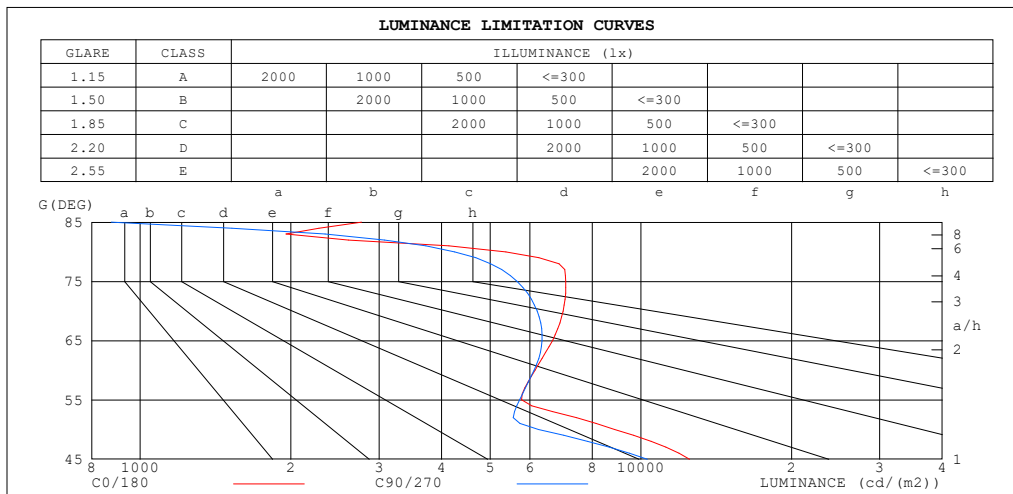
%lamp = 95.8%

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:22 October 2020

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:239.99V I:0.0492A P:10.396W PF:0.8800 Freq:50.09Hz Lamp Flux:875.66x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_24	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2768	876
80	5377	4249
75	7080	5659
70	6998	6210
65	6662	6350
60	6148	6120
55	5783	5731
50	8864	6245
45	12520	10309

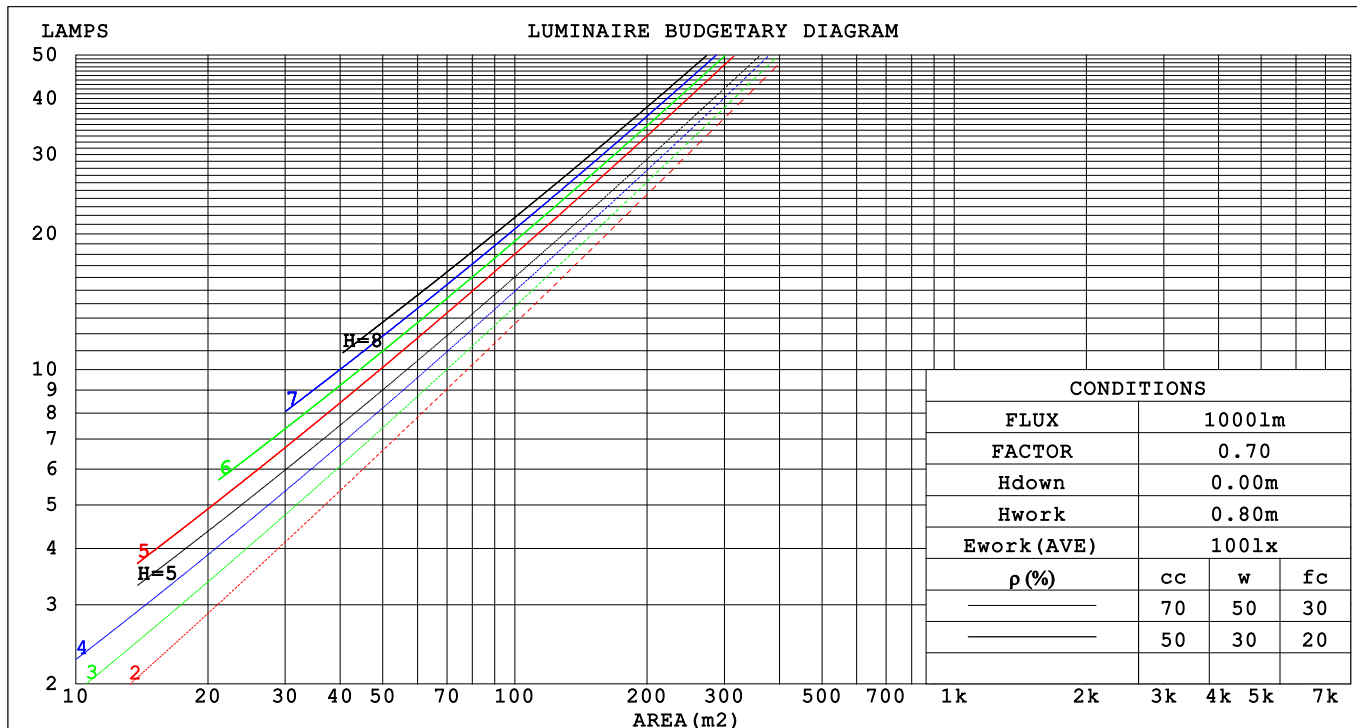
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:22 October 2020

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:239.99V I:0.0492A P:10.396W PF:0.8800 Freq:50.09Hz Lamp Flux:875.66x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_24	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	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	1.00
1.0	1.10	1.08	1.05	1.08	1.06	1.04	1.04	1.02	1.00	1.00	.99	.97	.97	.96	.95	.93
2.0	1.02	.98	.95	1.01	.97	.94	.97	.94	.91	.94	.92	.90	.92	.89	.88	.86
3.0	.95	.90	.86	.94	.89	.86	.91	.87	.84	.89	.86	.83	.87	.84	.82	.80
4.0	.89	.84	.79	.88	.83	.79	.86	.82	.78	.84	.80	.77	.82	.79	.76	.75
5.0	.84	.78	.74	.83	.78	.73	.81	.76	.73	.80	.75	.72	.78	.74	.72	.70
6.0	.79	.73	.69	.78	.73	.69	.77	.72	.68	.75	.71	.68	.74	.70	.67	.66
7.0	.75	.69	.65	.74	.69	.65	.73	.68	.64	.72	.67	.64	.71	.67	.64	.62
8.0	.71	.65	.61	.70	.65	.61	.69	.64	.61	.68	.64	.61	.67	.63	.60	.59
9.0	.68	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.57	.64	.60	.57	.56
10.0	.64	.59	.55	.64	.59	.55	.63	.58	.55	.62	.58	.55	.62	.58	.55	.53



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:22 October 2020

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

**WEC AND CCEC**

Test:U:239.99V I:0.0492A P:10.396W PF:0.8800 Freq:50.09Hz Lamp Flux:875.66x1 lm											
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_24						DEG TYPE:LED			WEIGHT:		
SPEC.:						DIM.:			SERIAL No.:		
MFR.: DARKON						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	.188	.107	.034	.181	.103	.033	.168	.097	.031	.157	.090	.029	.146	.085	.027	
2.0	.178	.097	.030	.172	.095	.029	.161	.090	.028	.152	.085	.027	.143	.081	.025	
3.0	.167	.089	.027	.162	.087	.026	.153	.083	.025	.145	.079	.024	.137	.076	.023	
4.0	.158	.082	.024	.153	.080	.024	.145	.077	.023	.138	.074	.022	.131	.071	.022	
5.0	.149	.076	.022	.145	.074	.022	.138	.072	.021	.132	.070	.021	.126	.067	.020	
6.0	.141	.070	.020	.137	.069	.020	.131	.067	.020	.126	.065	.019	.121	.063	.019	
7.0	.133	.066	.019	.131	.065	.019	.125	.063	.018	.120	.062	.018	.116	.060	.018	
8.0	.127	.062	.017	.124	.061	.017	.120	.060	.017	.115	.058	.017	.111	.057	.017	
9.0	.121	.058	.016	.119	.058	.016	.114	.057	.016	.110	.055	.016	.107	.054	.016	
10.0	.115	.055	.015	.113	.055	.015	.110	.054	.015	.106	.053	.015	.103	.052	.015	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.172	.157	.144	.147	.135	.124	.101	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.157	.132	.112	.135	.114	.097	.092	.079	.067	.053	.046	.040	.017	.015	.013	
3.0	.145	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.134	.099	.072	.115	.085	.063	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.125	.087	.059	.108	.076	.052	.074	.053	.036	.043	.031	.022	.014	.010	.007	
6.0	.118	.078	.050	.101	.068	.043	.070	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.111	.070	.042	.095	.061	.037	.066	.043	.026	.038	.025	.015	.012	.008	.005	
8.0	.105	.064	.036	.090	.056	.032	.062	.039	.022	.036	.023	.013	.012	.008	.004	
9.0	.099	.059	.031	.086	.051	.027	.059	.036	.019	.035	.021	.012	.011	.007	.004	
10.0	.094	.054	.028	.081	.047	.024	.056	.033	.017	.033	.020	.010	.011	.006	.003	

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:22 October 2020

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:239.99V I:0.0492A P:10.396W PF:0.8800 Freq:50.09Hz Lamp Flux:875.66x1 lm											
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_24 DEG TYPE:LED								WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: DARKON					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	17.7	18.7	18.0	18.8	19.0	16.9	17.9	17.2	18.1	18.2	
3H	18.5	19.4	18.7	19.6	19.8	17.8	18.6	18.0	18.8	19.0	
4H	18.9	19.8	19.2	20.0	20.2	18.1	19.0	18.4	19.2	19.4	
6H	19.3	20.0	19.6	20.3	20.5	18.4	19.2	18.7	19.4	19.6	
8H	19.3	20.0	19.6	20.3	20.5	18.4	19.1	18.7	19.4	19.7	
12H	19.2	20.0	19.6	20.2	20.5	18.4	19.1	18.7	19.3	19.6	
4H 2H	17.8	18.7	18.1	18.9	19.1	17.2	18.0	17.4	18.2	18.4	
3H	18.8	19.6	19.2	19.8	20.1	18.2	19.0	18.5	19.2	19.5	
4H	19.4	20.1	19.8	20.4	20.7	18.7	19.4	19.1	19.7	20.0	
6H	19.9	20.5	20.3	20.9	21.2	19.1	19.7	19.5	20.0	20.3	
8H	20.0	20.5	20.4	20.9	21.2	19.1	19.7	19.5	20.0	20.4	
12H	20.0	20.5	20.4	20.8	21.2	19.1	19.6	19.5	20.0	20.3	
8H 4H	19.6	20.1	20.0	20.5	20.9	18.9	19.5	19.3	19.8	20.2	
6H	20.2	20.6	20.6	21.0	21.5	19.4	19.8	19.8	20.2	20.6	
8H	20.3	20.7	20.8	21.1	21.6	19.4	19.8	19.9	20.3	20.7	
12H	20.3	20.7	20.8	21.1	21.6	19.4	19.8	19.9	20.2	20.7	
12H 4H	19.6	20.1	20.0	20.4	20.8	19.0	19.4	19.4	19.8	20.2	
6H	20.2	20.6	20.6	21.0	21.5	19.4	19.8	19.9	20.2	20.7	
8H	20.3	20.7	20.8	21.1	21.6	19.5	19.8	20.0	20.3	20.7	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.4 / - 0.6					+ 0.5 / - 0.6					
1.5H	+ 0.8 / - 0.6					+ 0.8 / - 0.8					
2.0H	+ 1.3 / - 0.5					+ 1.0 / - 0.5					

CIE Pub.117, 875.7 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = -0.5$ )

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:22 October 2020

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:239.99V I:0.0492A P:10.396W PF:0.8800 Freq:50.09Hz Lamp Flux:875.66x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_24	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

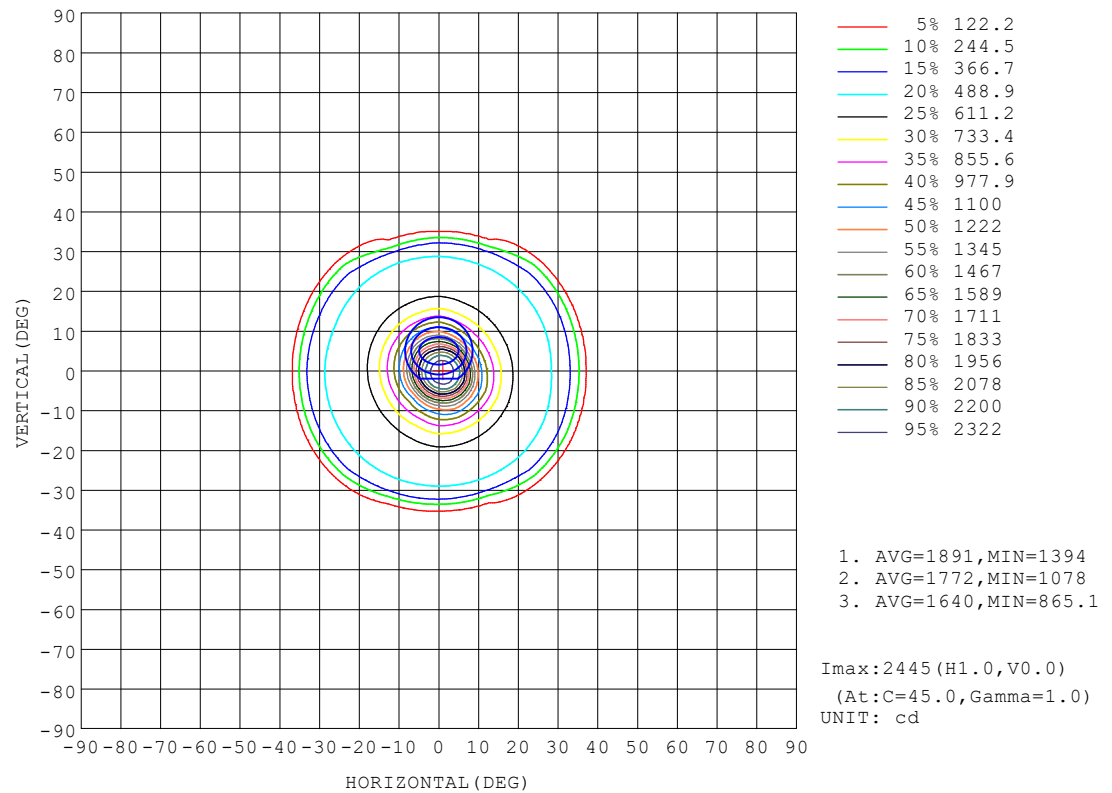
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	77	73	83	77	73	83	76	73	69
0.80	92	85	81	91	85	81	90	84	80	76
1.00	96	90	86	95	90	86	94	90	85	81
1.25	101	95	91	100	94	90	98	93	90	85
1.50	104	98	94	102	97	94	100	96	93	88
2.00	107	102	98	105	101	98	102	99	96	91
2.50	109	104	101	107	103	100	104	101	98	92
3.00	111	107	104	109	105	103	105	103	100	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	110	112	110	108	108	106	105	97
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:22 October 2020

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

**ISOCANDELA DIAGRAM**

Test:U:239.99V I:0.0492A P:10.396W PF:0.8800 Freq:50.09Hz Lamp Flux:875.66x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_24	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

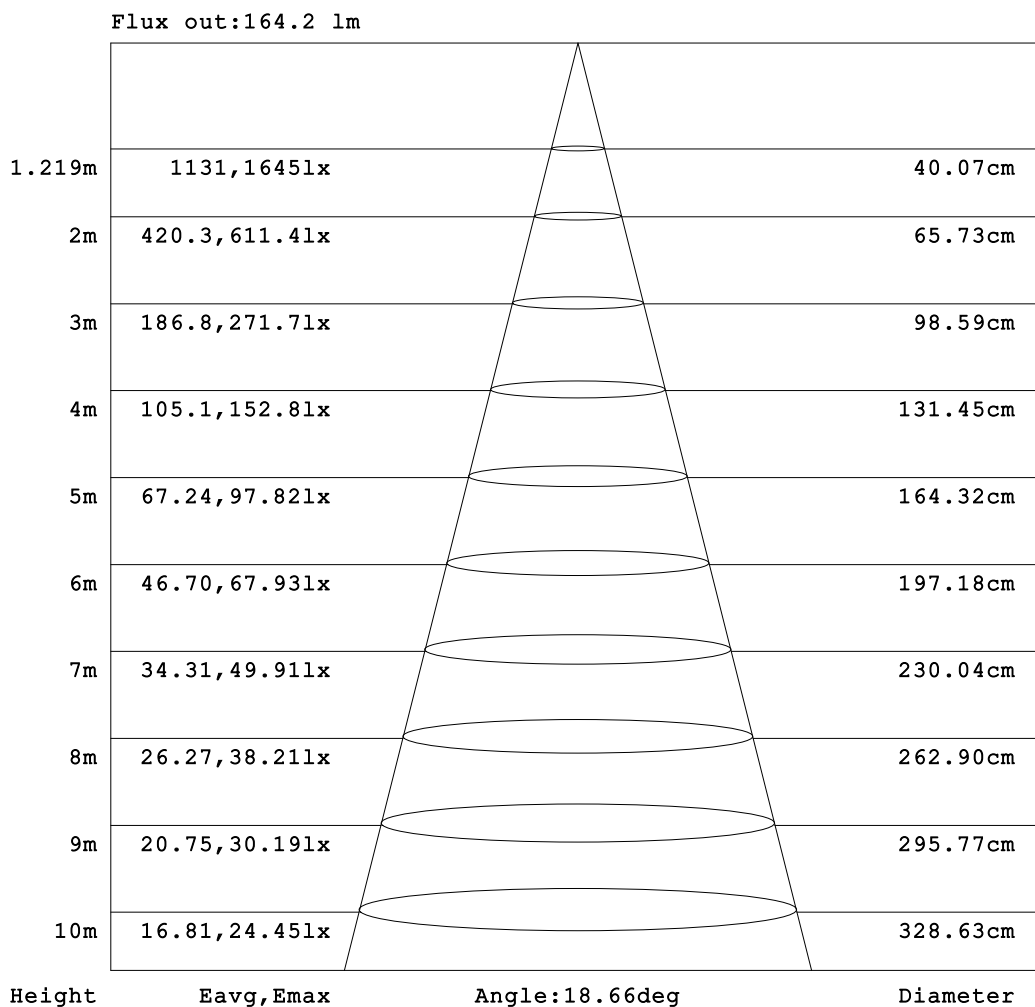


C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:22 October 2020

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

**AAI Figure**

Test:U:239.99V I:0.0492A P:10.396W PF:0.8800 Freq:50.09Hz Lamp Flux:875.66x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_24	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



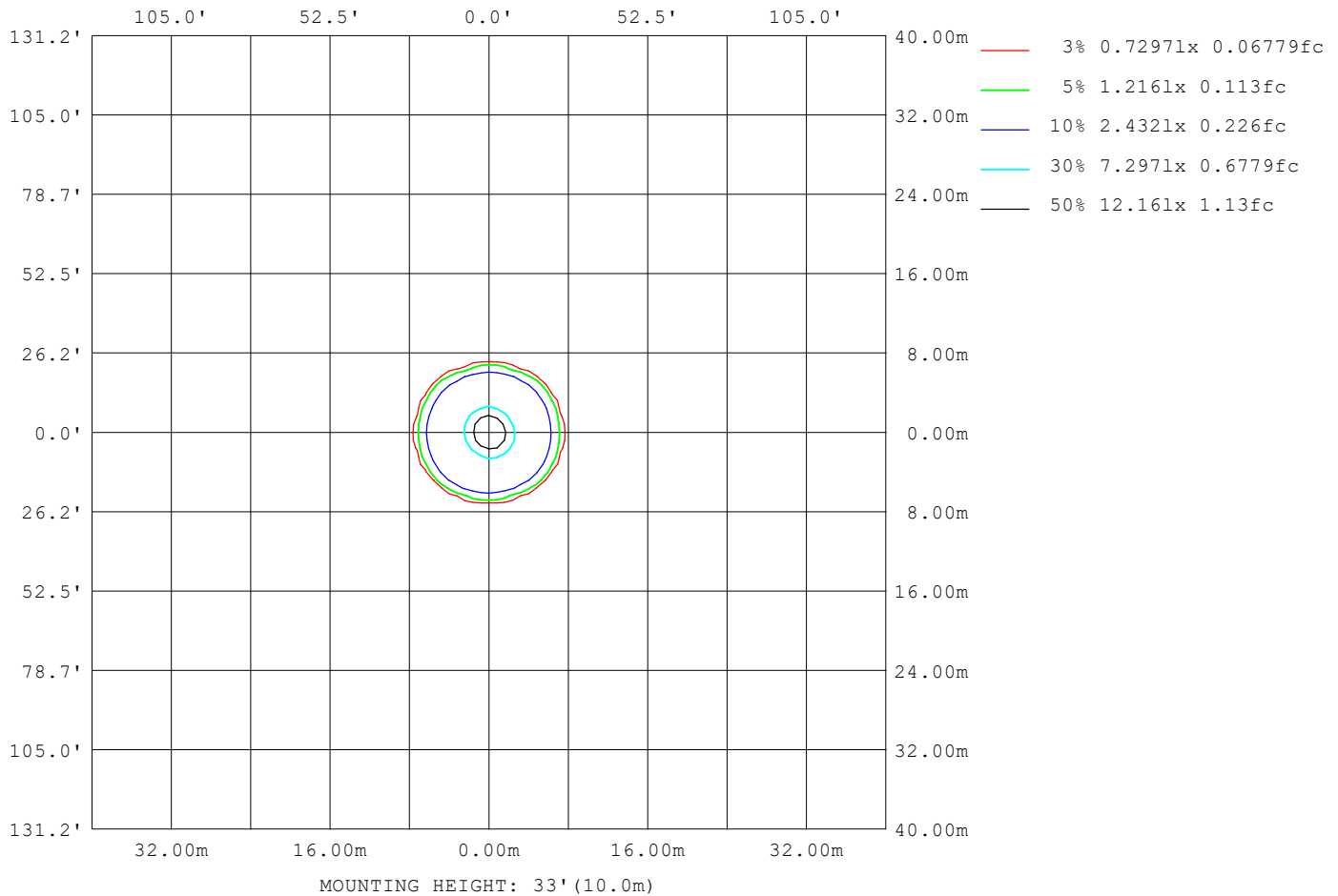
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:22 October 2020

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

Test:U:239.99V I:0.0492A P:10.396W PF:0.8800 Freq:50.09Hz Lamp Flux:875.66x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_24	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:22 October 2020

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

**LED Avg.L Report**

Test:U:239.99V I:0.0492A P:10.396W PF:0.8800 Freq:50.09Hz Lamp Flux:875.66x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_24	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

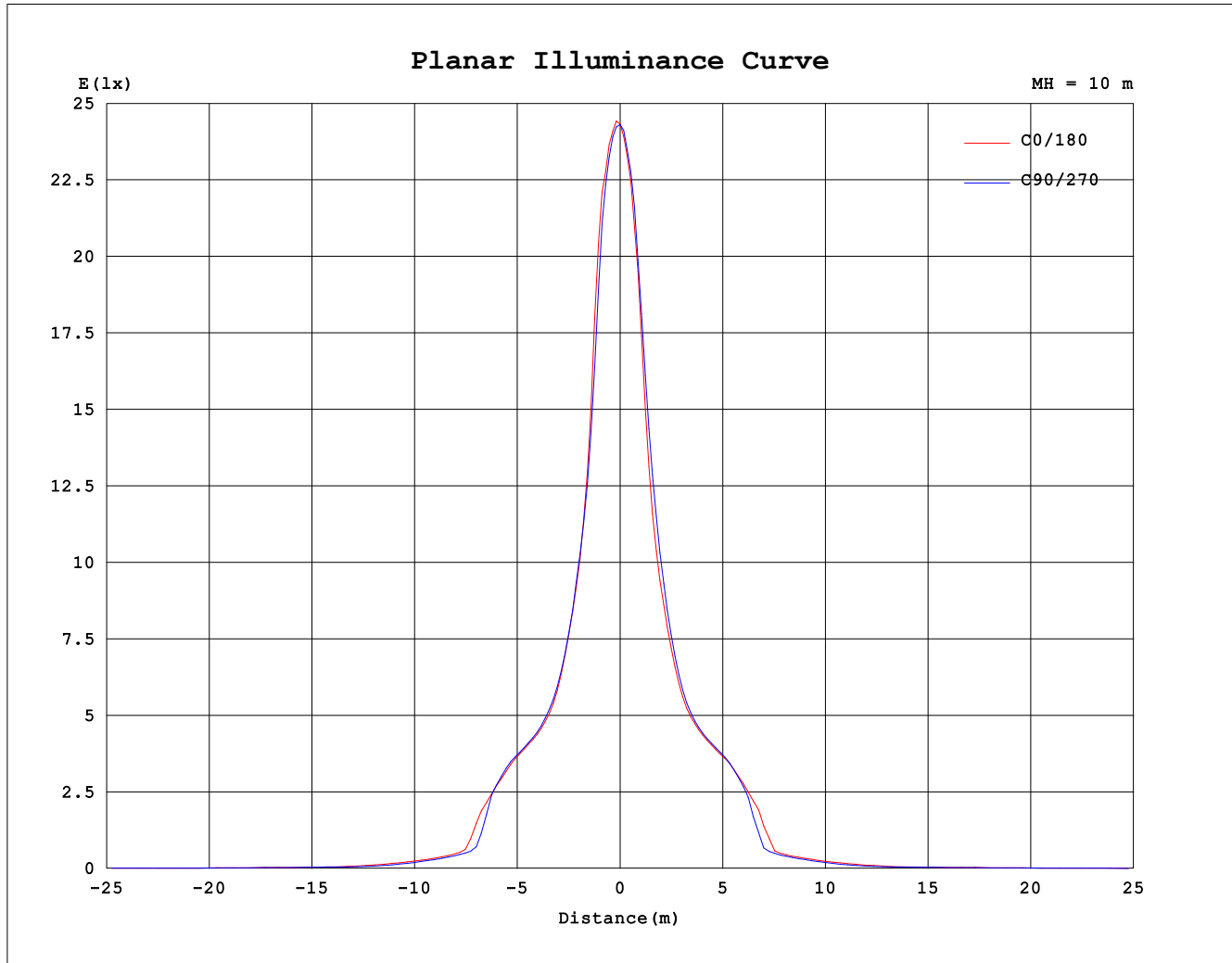
AvgL	cd/m2
L_0~180 (65) av	6675
L_0~180 (75) av	7014
L_0~180 (85) av	2601
L_90~270 (65) av	6295
L_90~270 (75) av	5619
L_90~270 (85) av	809
L_45 (65) av	6417
L_45 (75) av	6172
L_45 (85) av	1537

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:22 October 2020

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.250m [K=1.0000]  
Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JEFF  
Test Date: 22 October 2020

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity: 65.0%  
Test Distance: 7.250m [K=1.0000]  
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

```