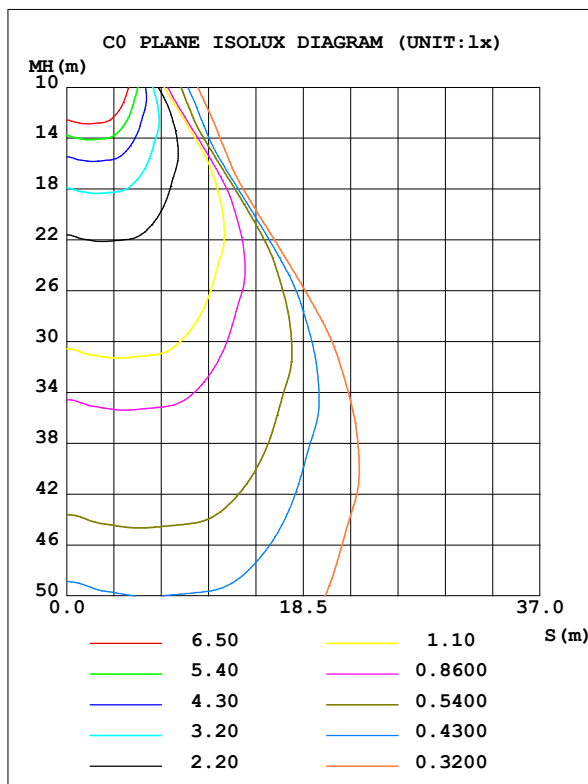
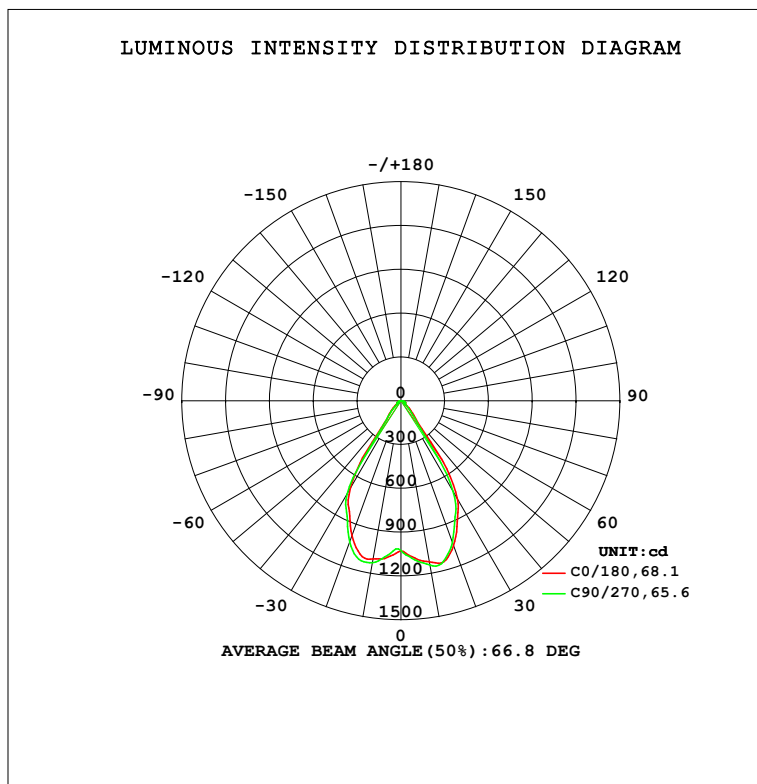


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:240.03V I:0.0642A P:14.231W PF:0.9236 Freq:50.09Hz Lamp Flux:1188.93x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
TRIDONIC SLE G7 09mm 1200lm 830 R ADV		Eff: 83.55 lm/W			
NOMINAL POWER(W)		I <sub>max</sub> (cd)	1160	S/MH(C0/180)	0.96
RATED VOLTAGE(V)	220.0	LOR(%)	100.0	S/MH(C90/270)	0.93
NOMINAL FLUX(lm)	1188.93	TOTAL FLUX(lm)	1188.9	η UP,DN(C0-180)	0.0,50.5
LAMPS INSIDE	1	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.5
TEST VOLTAGE(V)	230	η up(%)	0.0	CIBSE SHR NOM	0.50
		η down(%)	100.0	CIBSE SHR MAX	0.70



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:29 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	1120	1130	1141	1120	1100	1084	1127	1128	0- 10	104.1	104.1	8.75,8.75
20	1056	1039	1032	1005	982.5	972.7	1028	1054	10- 20	309.9	414.0	34.8,34.8
30	773.2	740.2	711.2	703.8	692.6	701.9	736.4	775.4	20- 30	403.0	817.0	68.7,68.7
40	150.9	143.4	126.0	138.9	134.4	132.8	124.8	148.8	30- 40	230.8	1048	88.1,88.1
50	55.04	49.13	38.37	48.54	50.14	46.38	36.08	49.84	40- 50	66.02	1114	93.7,93.7
60	29.44	29.55	29.90	29.82	30.28	28.95	28.56	28.28	50- 60	30.07	1144	96.2,96.2
70	23.18	22.05	21.08	21.87	23.14	20.75	19.58	20.89	60- 70	25.74	1170	98.4,98.4
80	9.117	9.487	7.628	9.207	9.310	8.060	6.614	8.795	70- 80	16.40	1186	99.8,99.8
90	0.1034	0.0752	0.0690	0.0940	0.1003	0.0815	0.0752	0.0784	80- 90	2.937	1189	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): 1088.1 lm

%lum = 91.5%

%lamp = 91.5%

Conical surface Flux(120deg): 1143.9 lm

%lum = 96.2%

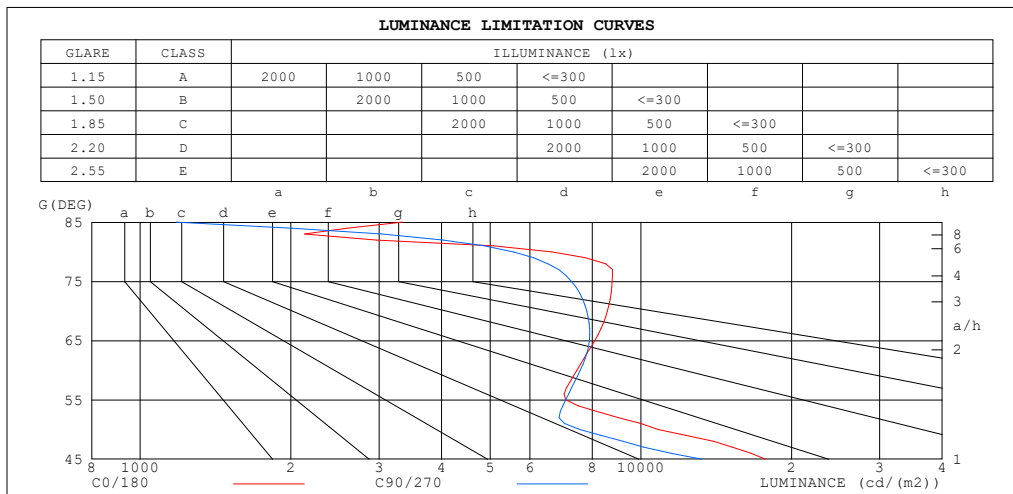
%lamp = 96.2%

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:29 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:240.03V I:0.0642A P:14.231W PF:0.9236 Freq:50.09Hz Lamp Flux:1188.93x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3338	1180
80	6646	5560
75	8769	7274
70	8577	7803
65	8098	7892
60	7452	7570
55	7082	7082
50	10839	7556
45	17743	13259

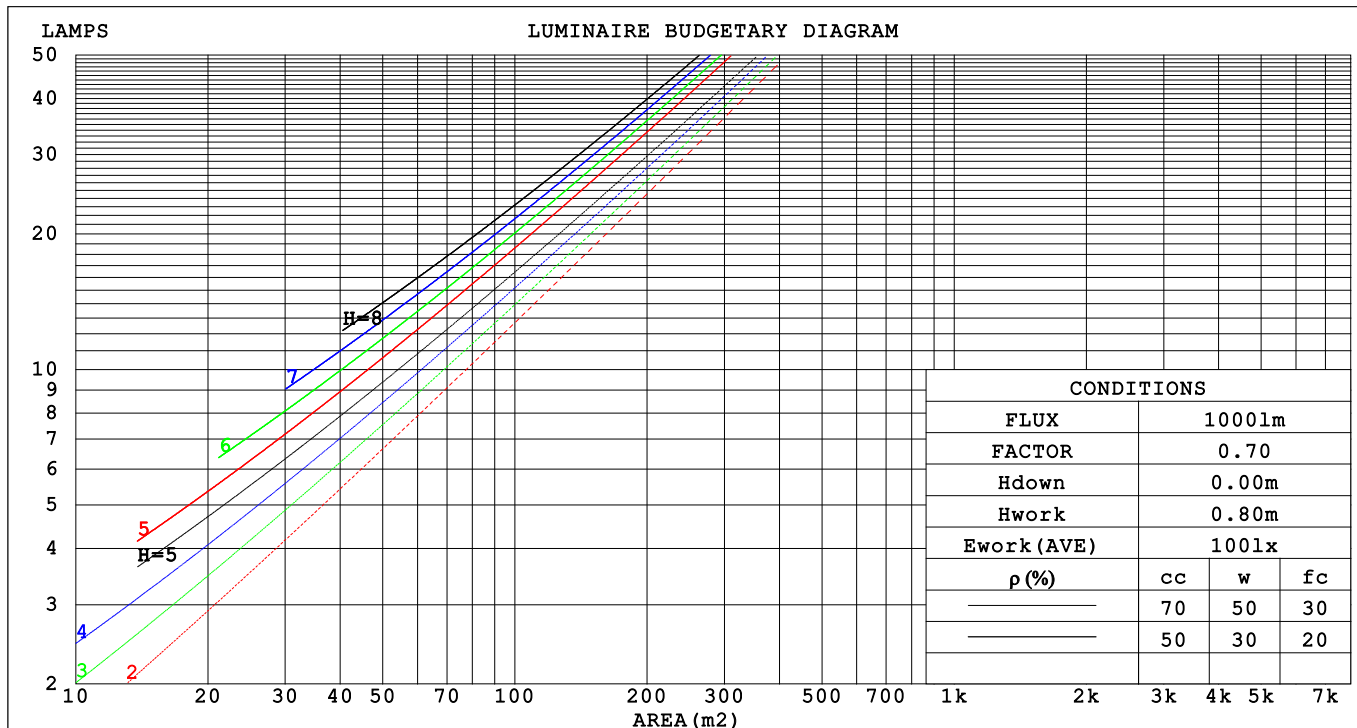
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:29 October 2020

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:240.03V I:0.0642A P:14.231W PF:0.9236 Freq:50.09Hz Lamp Flux:1188.93x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_50	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	1.07	1.05	1.08	1.05	1.03	1.04	1.02	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.01	.97	.93	.00	.96	.92	.96	.93	.90	.93	.91	.88	.91	.88	.86	.85
3.0	.94	.89	.84	.93	.88	.84	.90	.86	.82	.87	.84	.81	.85	.82	.80	.78
4.0	.87	.82	.77	.86	.81	.77	.84	.79	.76	.82	.78	.75	.80	.77	.74	.72
5.0	.82	.75	.71	.81	.75	.70	.79	.74	.70	.77	.73	.69	.75	.72	.69	.67
6.0	.76	.70	.65	.75	.70	.65	.74	.69	.65	.73	.68	.64	.71	.67	.64	.62
7.0	.72	.65	.61	.71	.65	.61	.70	.64	.60	.68	.64	.60	.67	.63	.60	.58
8.0	.67	.61	.57	.67	.61	.57	.66	.60	.56	.64	.60	.56	.63	.59	.56	.54
9.0	.63	.57	.53	.63	.57	.53	.62	.57	.53	.61	.56	.53	.60	.56	.52	.51
10.0	.60	.54	.50	.59	.54	.50	.59	.53	.50	.58	.53	.49	.57	.52	.49	.48



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:29 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:240.03V I:0.0642A P:14.231W PF:0.9236 Freq:50.09Hz Lamp Flux:1188.93x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_50	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	.195	.111	.035	.188	.108	.034	.176	.101	.032	.164	.095	.030	.153	.089	.029	
2.0	.186	.102	.031	.180	.099	.031	.170	.094	.029	.160	.090	.028	.151	.085	.027	
3.0	.176	.094	.028	.171	.092	.028	.162	.088	.027	.153	.084	.026	.145	.081	.025	
4.0	.166	.086	.025	.162	.085	.025	.154	.082	.024	.147	.079	.024	.140	.076	.023	
5.0	.158	.080	.023	.154	.079	.023	.147	.077	.023	.141	.074	.022	.134	.072	.022	
6.0	.150	.075	.021	.147	.074	.021	.140	.072	.021	.135	.070	.021	.129	.068	.020	
7.0	.143	.070	.020	.140	.070	.020	.134	.068	.020	.129	.066	.019	.124	.065	.019	
8.0	.136	.066	.019	.133	.066	.019	.128	.064	.018	.124	.063	.018	.120	.061	.018	
9.0	.130	.063	.018	.128	.062	.017	.123	.061	.017	.119	.060	.017	.115	.058	.017	
10.0	.124	.060	.017	.122	.059	.016	.118	.058	.016	.114	.057	.016	.111	.056	.016	

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	.143	.147	.135	.123	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.158	.132	.111	.135	.114	.096	.093	.079	.067	.054	.046	.039	.017	.015	.013	
3.0	.146	.114	.088	.125	.098	.076	.086	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.136	.099	.071	.117	.086	.061	.081	.060	.043	.047	.035	.026	.015	.011	.008	
5.0	.128	.088	.058	.110	.076	.050	.076	.053	.036	.044	.031	.021	.014	.010	.007	
6.0	.121	.079	.048	.104	.068	.042	.072	.048	.030	.041	.028	.018	.013	.009	.006	
7.0	.114	.071	.041	.098	.062	.036	.068	.043	.025	.039	.025	.015	.013	.008	.005	
8.0	.108	.065	.035	.093	.056	.031	.065	.040	.022	.038	.023	.013	.012	.008	.004	
9.0	.103	.060	.030	.089	.052	.027	.062	.036	.019	.036	.022	.011	.012	.007	.004	
10.0	.099	.055	.027	.085	.048	.023	.059	.034	.017	.034	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:29 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:240.03V I:0.0642A P:14.231W PF:0.9236 Freq:50.09Hz Lamp Flux:1188.93x1 lm											
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_50							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	2H	18.5	19.5	18.7	19.7	19.8	17.6	18.6	17.8	18.8	18.9
	3H	18.9	19.9	19.2	20.1	20.3	18.1	19.1	18.4	19.3	19.5
	4H	19.2	20.1	19.5	20.4	20.6	18.4	19.3	18.7	19.5	19.7
	6H	19.5	20.3	19.8	20.6	20.8	18.6	19.4	18.9	19.7	19.9
	8H	19.5	20.3	19.8	20.5	20.8	18.6	19.4	18.9	19.7	19.9
	12H	19.5	20.2	19.8	20.5	20.8	18.6	19.3	18.9	19.6	19.9
4H	2H	18.5	19.3	18.7	19.6	19.8	17.6	18.5	17.9	18.7	19.0
	3H	19.2	19.9	19.5	20.2	20.5	18.4	19.2	18.7	19.5	19.7
	4H	19.6	20.3	20.0	20.6	20.9	18.9	19.5	19.2	19.8	20.2
	6H	20.0	20.6	20.4	21.0	21.3	19.1	19.8	19.5	20.1	20.4
	8H	20.0	20.6	20.4	21.0	21.3	19.2	19.7	19.6	20.1	20.5
	12H	20.0	20.5	20.4	20.9	21.3	19.1	19.7	19.6	20.0	20.4
8H	4H	19.7	20.3	20.1	20.6	21.0	19.0	19.6	19.4	19.9	20.3
	6H	20.2	20.7	20.7	21.1	21.5	19.4	19.9	19.8	20.3	20.7
	8H	20.3	20.8	20.8	21.2	21.6	19.5	19.9	19.9	20.3	20.7
	12H	20.4	20.7	20.8	21.2	21.6	19.4	19.8	19.9	20.2	20.7
12H	4H	19.7	20.2	20.1	20.6	21.0	19.0	19.5	19.4	19.9	20.3
	6H	20.2	20.7	20.7	21.1	21.5	19.4	19.8	19.9	20.3	20.7
	8H	20.4	20.7	20.8	21.2	21.6	19.5	19.9	20.0	20.3	20.8
Variations with the observer position at spacings:											
S = 1.0H		+ 1.1 / - 0.9					+ 0.7 / - 0.9				
1.5H		+ 2.1 / - 1.0					+ 1.5 / - 1.0				
2.0H		+ 1.6 / - 0.6					+ 0.9 / - 0.5				

CIE Pub.117, 1189 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.6)

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:29 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:

**UTILIZATION FACTORS TABLE**

Test:U:240.03V I:0.0642A P:14.231W PF:0.9236 Freq:50.09Hz Lamp Flux:1188.93x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

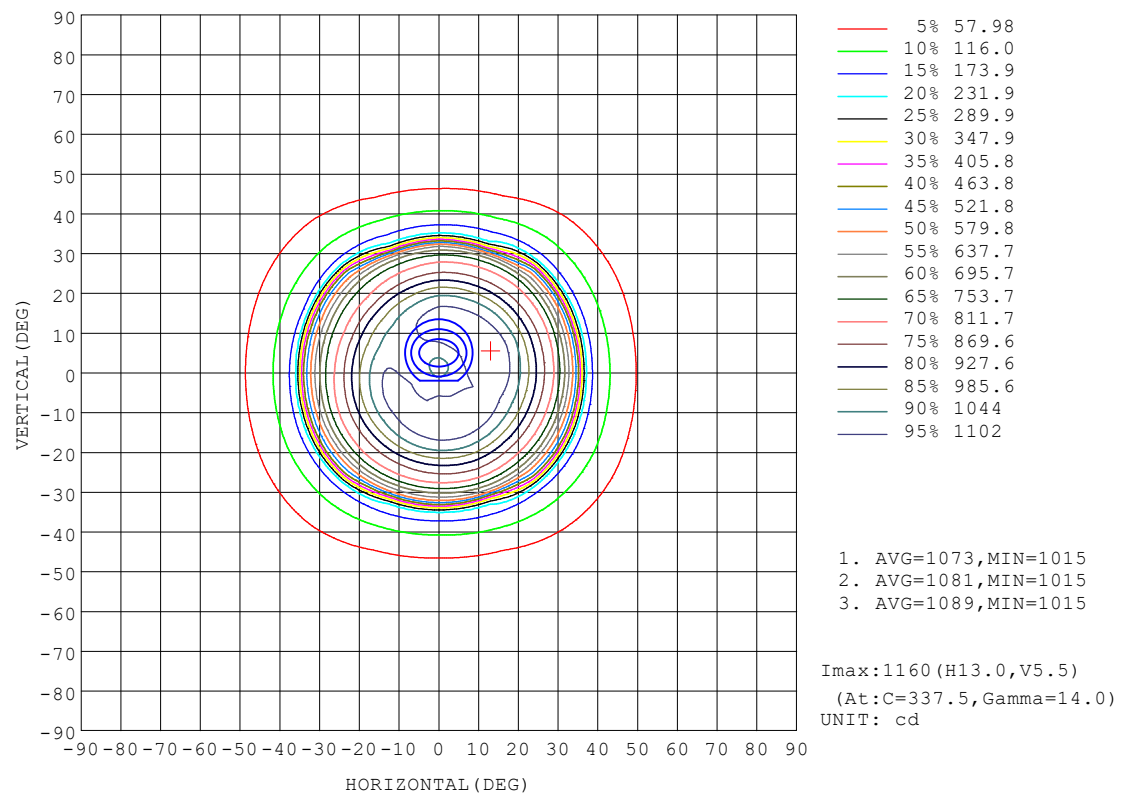
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	77	73	84	77	73	83	77	73	69
0.80	92	85	81	91	85	81	90	84	81	77
1.00	97	91	86	96	90	86	94	90	86	81
1.25	101	95	91	100	95	91	98	93	90	86
1.50	104	99	95	103	98	94	100	96	93	88
2.00	107	102	99	106	101	98	103	99	96	91
2.50	109	105	101	107	103	100	104	101	99	92
3.00	111	107	104	109	105	103	105	103	101	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	110	112	110	108	108	107	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:29 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:240.03V I:0.0642A P:14.231W PF:0.9236 Freq:50.09Hz Lamp Flux:1188.93x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

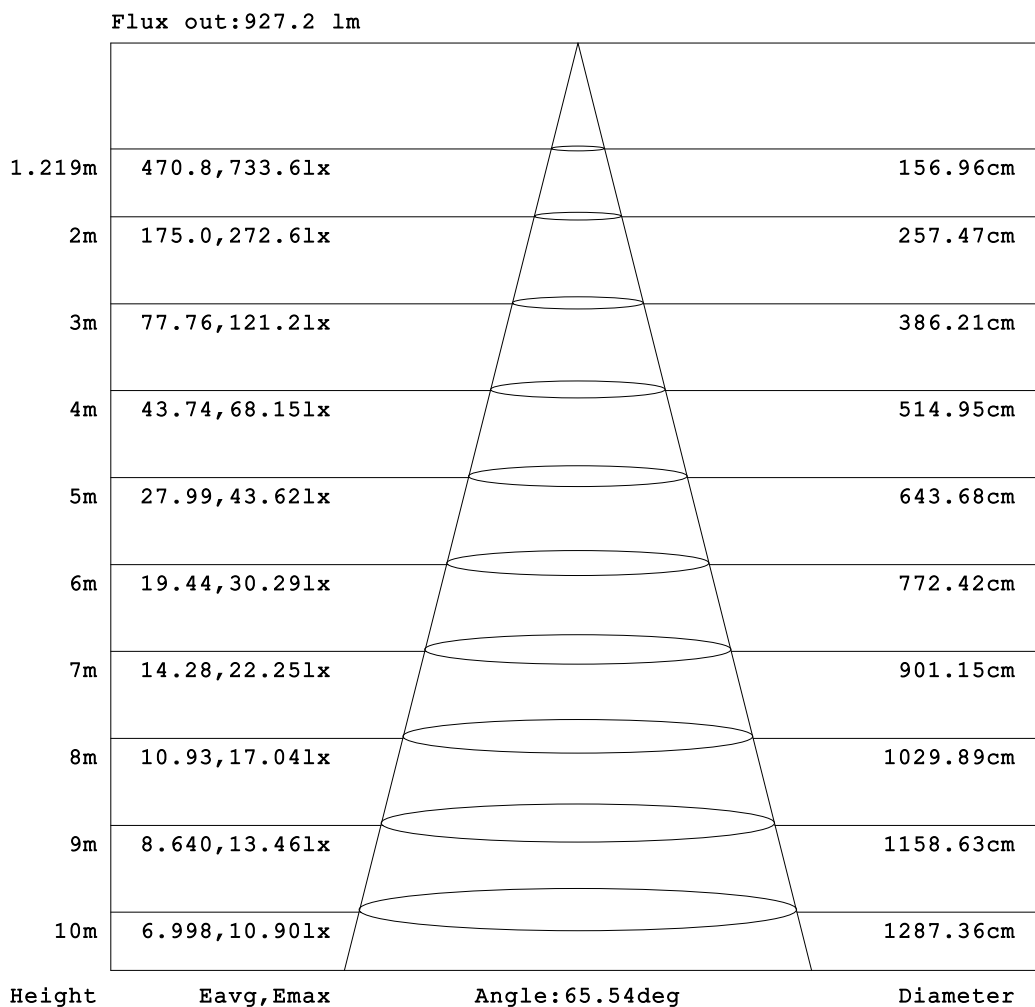


C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:29 October 2020

$\gamma$  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:240.03V I:0.0642A P:14.231W PF:0.9236 Freq:50.09Hz Lamp Flux:1188.93x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



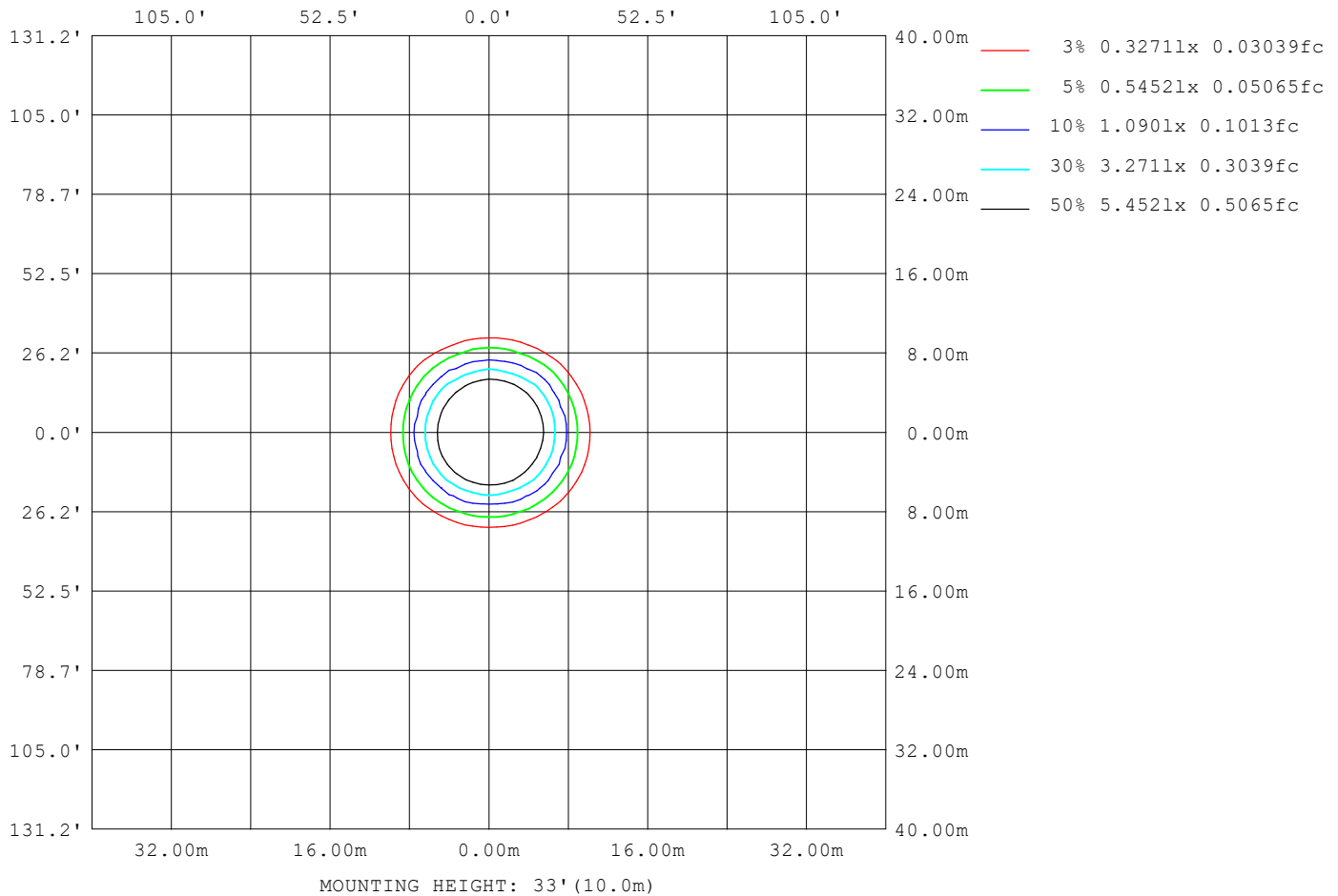
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:29 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:240.03V I:0.0642A P:14.231W PF:0.9236 Freq:50.09Hz Lamp Flux:1188.93x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_50	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:29 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:

**LED Avg.L Report**

Test:U:240.03V I:0.0642A P:14.231W PF:0.9236 Freq:50.09Hz Lamp Flux:1188.93x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

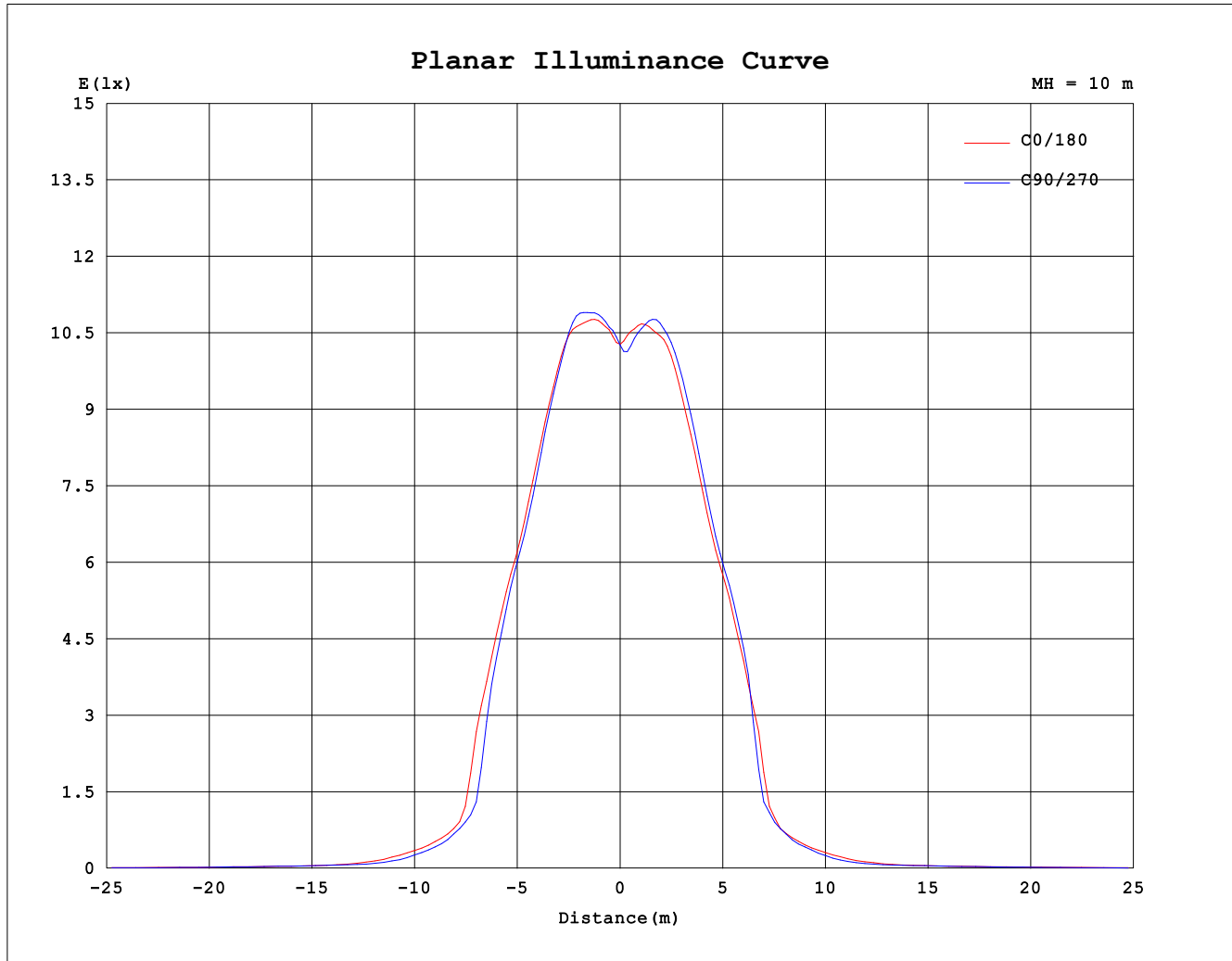
AvgL	cd/m2
L_0~180 (65) av	8179
L_0~180 (75) av	8657
L_0~180 (85) av	3083
L_90~270 (65) av	7677
L_90~270 (75) av	6919
L_90~270 (85) av	1073
L_45 (65) av	7829
L_45 (75) av	7587
L_45 (85) av	1917

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:29 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: 29 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:

```