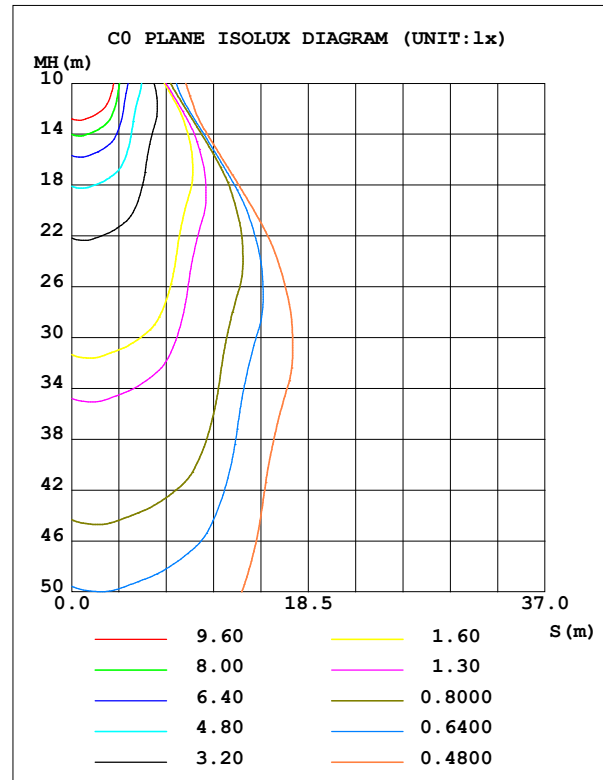
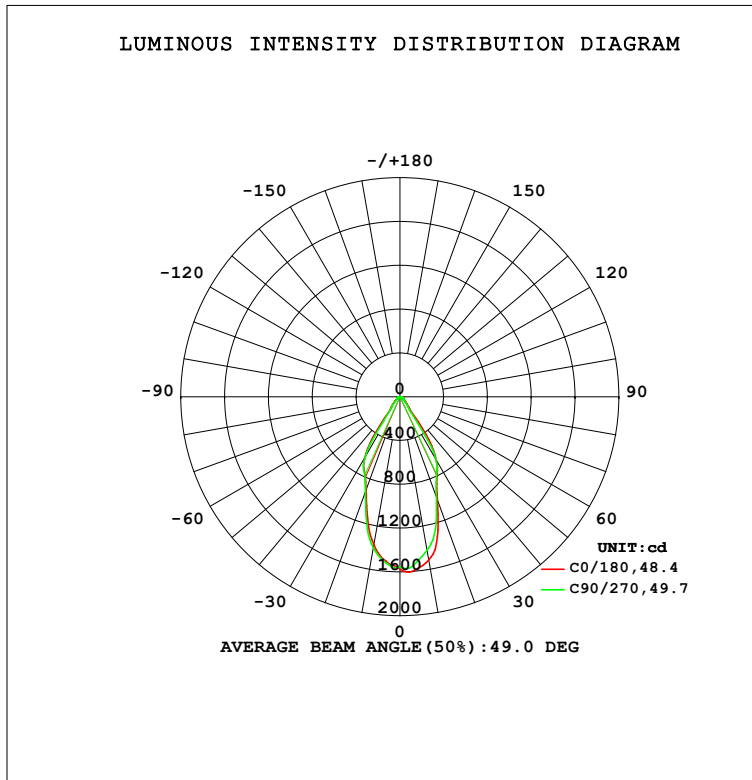


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:240.02V I:0.0640A P:14.188W PF:0.9231 Freq:0Hz Lamp Flux:1183.13x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_4K_32	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 83.39 lm/W
MODEL	SLE G7 09MM 4000K	I <sub>max</sub> (cd)	1605	S/MH (C0/180)		0.70
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		0.72
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	1183.1	η UP,DN (C0-180)		0.0,50.9
NOMINAL FLUX (lm)	1183.13	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,49.1
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		0.75
TEST VOLTAGE (V)	230	η down (%)	100.0	CIBSE SHR MAX		0.85



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	1514	1486	1423	1392	1375	1364	1400	1452	0- 10	143.2	143.2	12.1,12.1
20	1001	1008	975.4	938.0	908.6	907.3	923.4	963.5	10- 20	336.1	479.4	40.5,40.5
30	660.9	662.8	659.3	656.0	644.7	623.9	634.3	648.9	20- 30	362.2	841.6	71.1,71.1
40	130.3	119.7	109.6	120.3	124.9	116.2	109.3	124.8	30- 40	201.5	1043	88.2,88.2
50	56.90	50.21	39.84	51.99	54.11	48.47	38.74	52.72	40- 50	61.11	1104	93.3,93.3
60	31.21	30.58	30.83	30.81	31.64	30.82	30.65	30.46	50- 60	31.71	1136	96,96
70	24.56	22.47	21.36	22.39	24.19	22.23	21.27	22.78	60- 70	27.07	1163	98.3,98.3
80	9.800	9.316	7.461	8.989	9.647	8.594	7.307	10.05	70- 80	17.15	1180	99.7,99.7
90	0.1160	0.0878	0.0846	0.1097	0.1348	0.0878	0.0815	0.0846	80- 90	3.050	1183	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): 1078.9 lm

%lum = 91.2%

%lamp = 91.2%

Conical surface Flux(120deg): 1135.9 lm

%lum = 96.0%

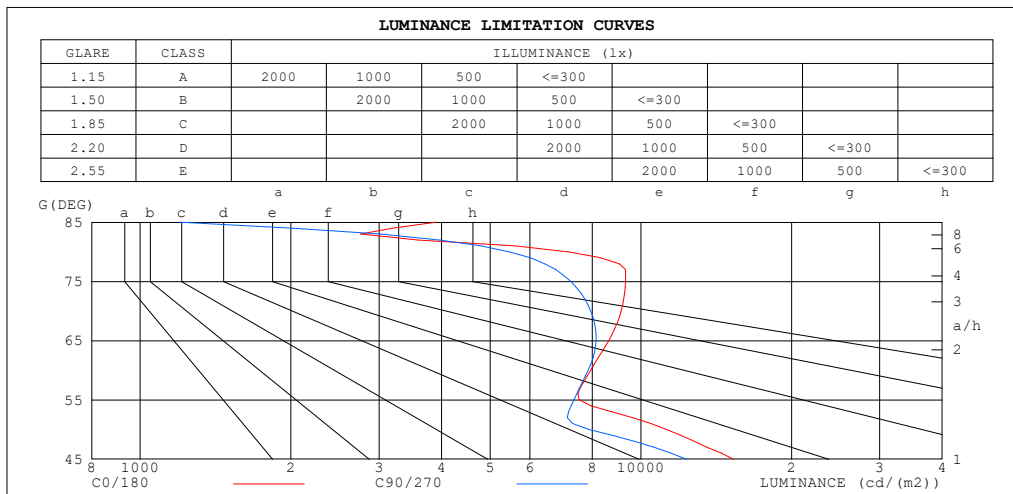
%lamp = 96.0%

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:240.02V I:0.0640A P:14.188W PF:0.9231 Freq:0Hz Lamp Flux:1183.13x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_4K_32	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3902	1198
80	7180	5466
75	9324	7245
70	9135	7944
65	8633	8141
60	7942	7845
55	7527	7353
50	11262	7885
45	15307	12354

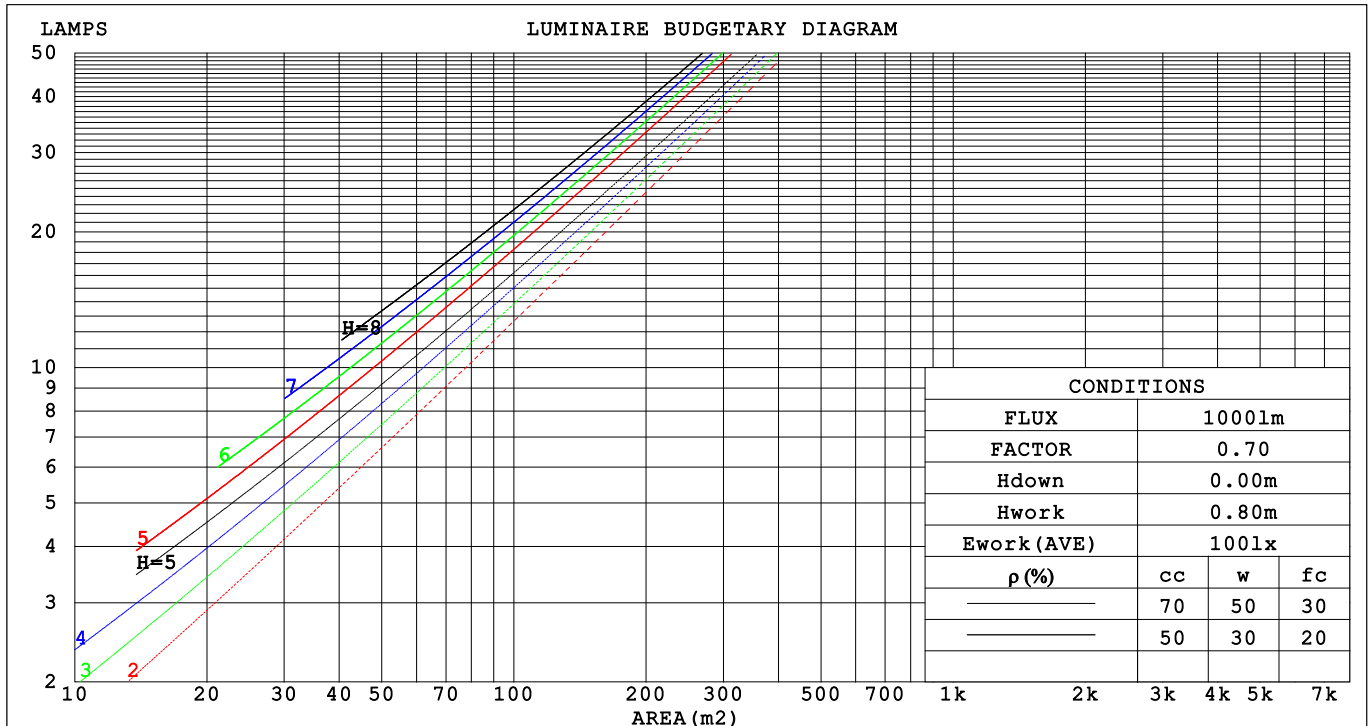
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:22 October 2020

$\gamma$  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:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:240.02V I:0.0640A P:14.188W PF:0.9231 Freq:0Hz Lamp Flux:1183.13x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_4K_32	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						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	1.00	1.00	.99	.97	.97	.95	.94	.93	
2.0	1.02	.98	.94	1.00	.96	.93	.97	.94	.91	.94	.91	.89	.91	.89	.87	.85	
3.0	.95	.90	.85	.93	.89	.85	.91	.87	.83	.88	.85	.82	.86	.83	.81	.79	
4.0	.88	.83	.78	.87	.82	.78	.85	.81	.77	.83	.79	.76	.81	.78	.75	.74	
5.0	.83	.77	.72	.82	.76	.72	.80	.75	.71	.78	.74	.71	.77	.73	.70	.69	
6.0	.78	.72	.67	.77	.71	.67	.76	.70	.67	.74	.70	.66	.73	.69	.66	.64	
7.0	.73	.67	.63	.73	.67	.63	.71	.66	.62	.70	.66	.62	.69	.65	.62	.60	
8.0	.69	.63	.59	.69	.63	.59	.68	.62	.59	.67	.62	.58	.66	.61	.58	.57	
9.0	.66	.60	.56	.65	.59	.55	.64	.59	.55	.63	.58	.55	.62	.58	.55	.54	
10.0	.62	.56	.52	.62	.56	.52	.61	.56	.52	.60	.55	.52	.59	.55	.52	.51	



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:240.02V I:0.0640A P:14.188W PF:0.9231 Freq:0Hz Lamp Flux:1183.13x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_4K_32	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	.191	.109	.034	.184	.105	.033	.172	.099	.031	.160	.092	.030	.149	.087	.028	
2.0	.182	.100	.031	.176	.097	.030	.165	.092	.029	.155	.087	.027	.146	.083	.026	
3.0	.171	.091	.027	.166	.089	.027	.157	.085	.026	.149	.082	.025	.141	.078	.024	
4.0	.162	.084	.025	.157	.082	.024	.149	.079	.024	.142	.076	.023	.135	.074	.022	
5.0	.153	.078	.023	.149	.077	.022	.142	.074	.022	.136	.072	.021	.130	.069	.021	
6.0	.145	.073	.021	.142	.072	.021	.136	.069	.020	.130	.068	.020	.125	.066	.019	
7.0	.138	.068	.019	.135	.067	.019	.129	.065	.019	.124	.064	.019	.120	.062	.018	
8.0	.131	.064	.018	.129	.063	.018	.124	.062	.018	.119	.060	.017	.115	.059	.017	
9.0	.125	.061	.017	.123	.060	.017	.119	.059	.017	.115	.057	.016	.111	.056	.016	
10.0	.120	.057	.016	.118	.057	.016	.114	.056	.016	.110	.055	.016	.107	.054	.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	.158	.132	.111	.135	.114	.096	.092	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.145	.114	.088	.125	.098	.077	.086	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.135	.099	.071	.116	.086	.062	.080	.060	.044	.046	.035	.026	.015	.011	.008	
5.0	.127	.088	.059	.109	.076	.051	.075	.053	.036	.043	.031	.021	.014	.010	.007	
6.0	.119	.078	.049	.102	.068	.043	.071	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.112	.071	.042	.097	.061	.036	.067	.043	.026	.039	.025	.015	.013	.008	.005	
8.0	.106	.064	.036	.092	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.101	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.096	.055	.027	.083	.048	.024	.058	.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: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:240.02V I:0.0640A P:14.188W PF:0.9231 Freq:0Hz Lamp Flux:1183.13x1 lm											
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_4K_32								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		17.9	18.9	18.1	19.1	19.2	16.9	17.8	17.1	18.0	18.2
3H		18.6	19.5	18.8	19.7	19.9	17.6	18.5	17.9	18.7	18.9
4H		19.0	19.8	19.3	20.1	20.3	17.9	18.8	18.2	19.0	19.3
6H		19.3	20.1	19.6	20.3	20.6	18.2	19.0	18.5	19.2	19.5
8H		19.3	20.1	19.6	20.3	20.6	18.2	18.9	18.5	19.2	19.5
12H		19.3	20.0	19.6	20.3	20.6	18.1	18.9	18.5	19.2	19.4
4H	2H	18.0	18.8	18.3	19.1	19.3	17.0	17.9	17.3	18.1	18.3
	3H	18.9	19.6	19.2	19.9	20.2	18.0	18.8	18.3	19.0	19.3
	4H	19.4	20.1	19.8	20.4	20.7	18.5	19.2	18.9	19.5	19.8
	6H	19.9	20.5	20.3	20.8	21.2	18.8	19.4	19.2	19.8	20.1
	8H	20.0	20.5	20.4	20.9	21.2	18.9	19.4	19.3	19.8	20.1
	12H	20.0	20.5	20.4	20.8	21.2	18.8	19.3	19.2	19.7	20.1
8H	4H	19.6	20.1	20.0	20.5	20.8	18.7	19.3	19.1	19.6	20.0
	6H	20.2	20.6	20.6	21.0	21.4	19.1	19.6	19.5	20.0	20.4
	8H	20.3	20.7	20.7	21.1	21.5	19.2	19.6	19.6	20.0	20.4
	12H	20.3	20.7	20.8	21.1	21.6	19.1	19.5	19.6	19.9	20.4
12H	4H	19.5	20.1	20.0	20.4	20.8	18.7	19.2	19.1	19.6	20.0
	6H	20.2	20.6	20.6	21.0	21.4	19.2	19.6	19.6	20.0	20.4
	8H	20.3	20.7	20.8	21.1	21.6	19.2	19.6	19.7	20.0	20.5
Variations with the observer position at spacings:											
S = 1.0H		+ 0.7 / - 0.6					+ 0.5 / - 0.6				
1.5H		+ 1.4 / - 0.7					+ 0.9 / - 0.8				
2.0H		+ 1.0 / - 0.5					+ 0.8 / - 0.5				

CIE Pub.117, 1183 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: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:

**UTILIZATION FACTORS TABLE**

Test:U:240.02V I:0.0640A P:14.188W PF:0.9231 Freq:0Hz Lamp Flux:1183.13x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_4K_32	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

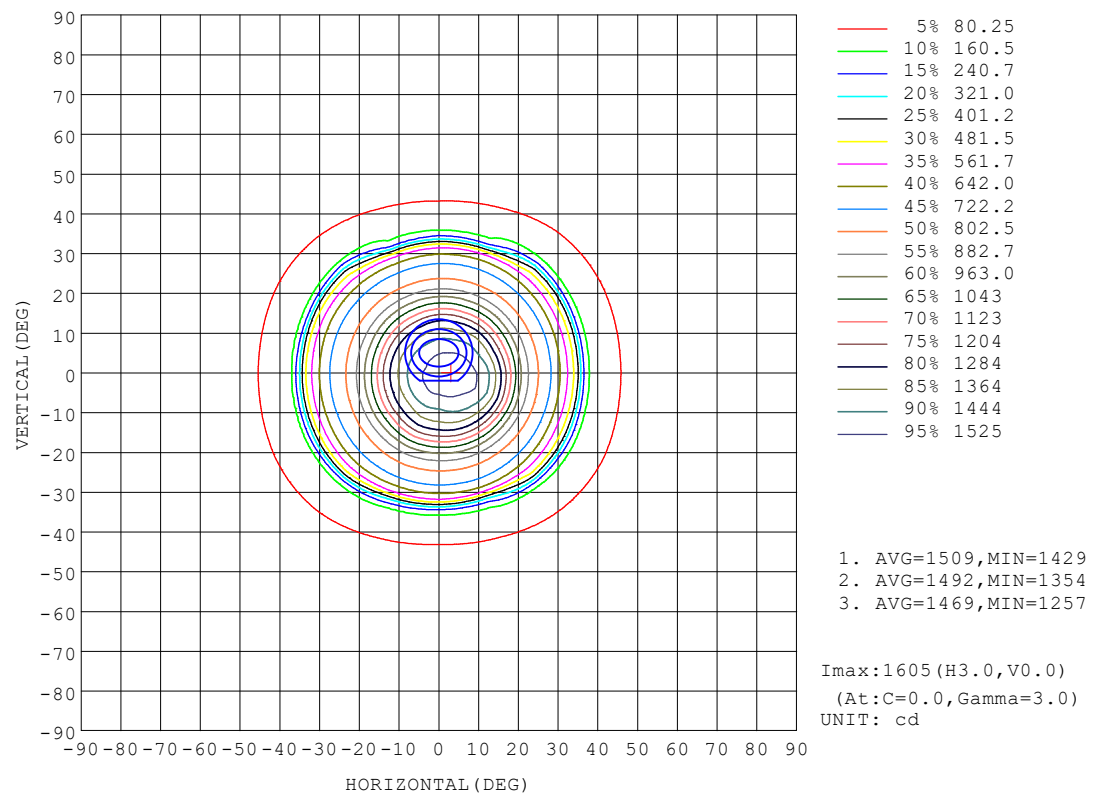
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	77	73	84	77	73	83	77	73	69
0.80	92	85	81	91	85	81	90	84	81	77
1.00	97	90	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	105	101	98	103	99	96	91
2.50	109	105	101	107	103	100	104	101	98	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: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:240.02V I:0.0640A P:14.188W PF:0.9231 Freq:0Hz Lamp Flux:1183.13x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_4K_32	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

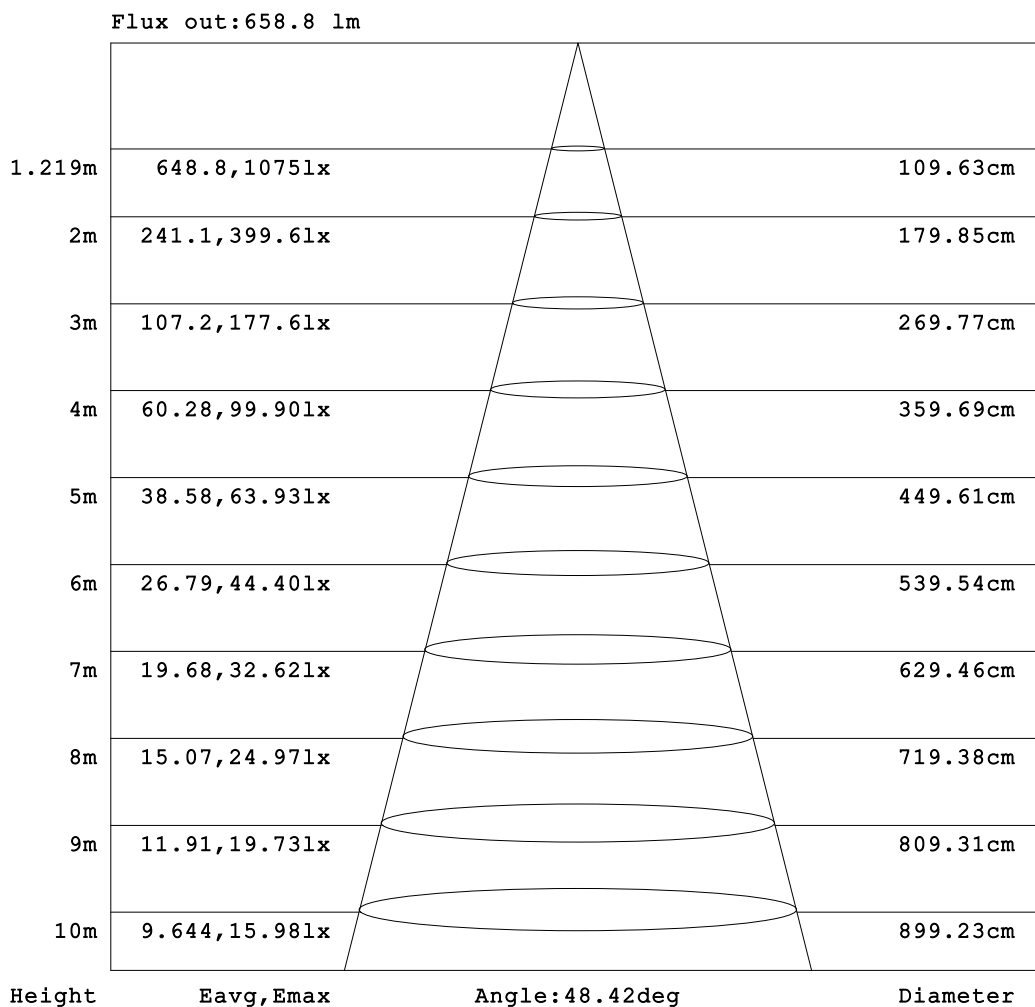


C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JEFF  
Test Date: 22 October 2020

$\gamma$  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:240.02V I:0.0640A P:14.188W PF:0.9231 Freq:0Hz Lamp Flux:1183.13x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_4K_32	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



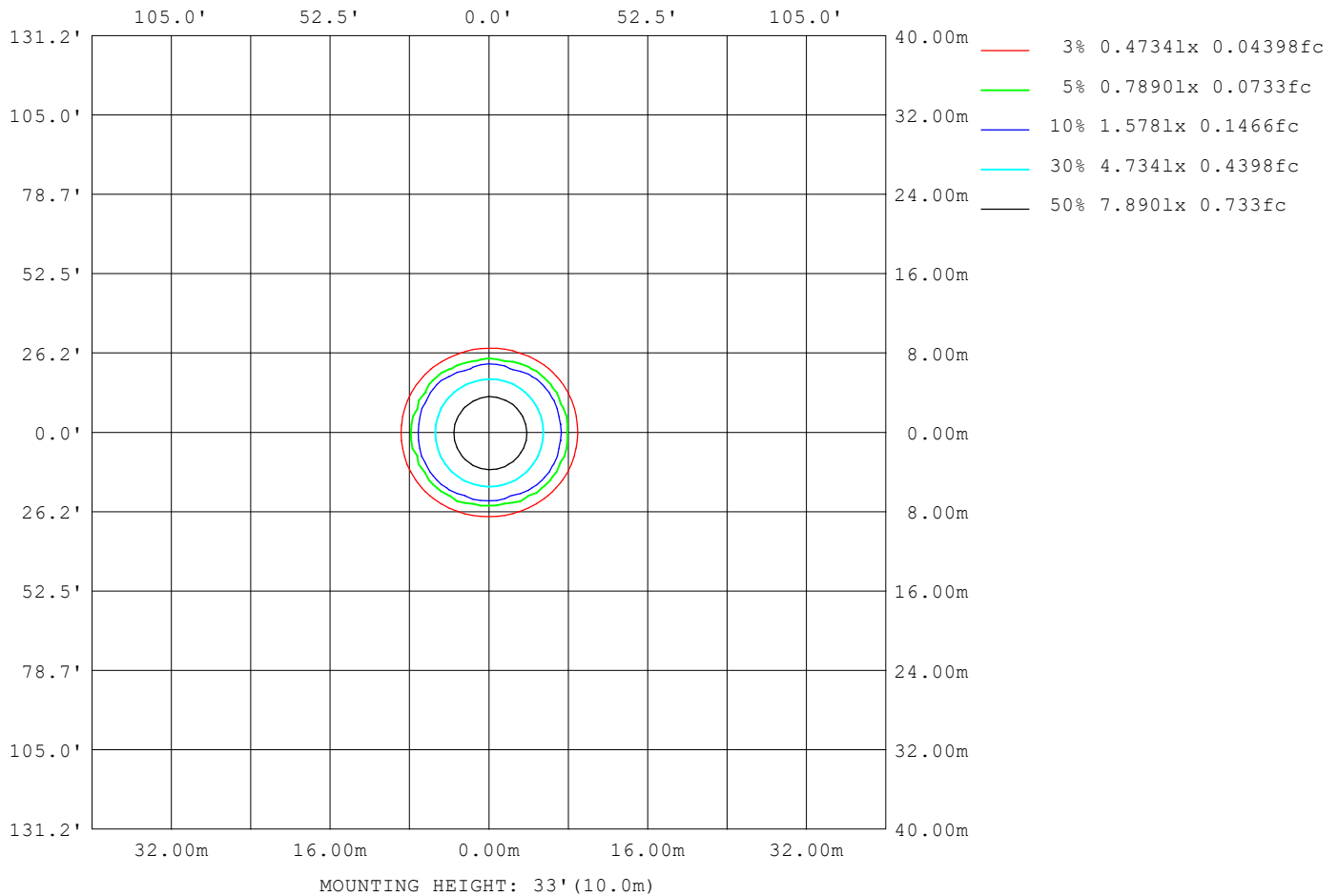
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:240.02V I:0.0640A P:14.188W PF:0.9231 Freq:0Hz Lamp Flux:1183.13x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_4K_32	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:240.02V I:0.0640A P:14.188W PF:0.9231 Freq:0Hz Lamp Flux:1183.13x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_4K_32	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

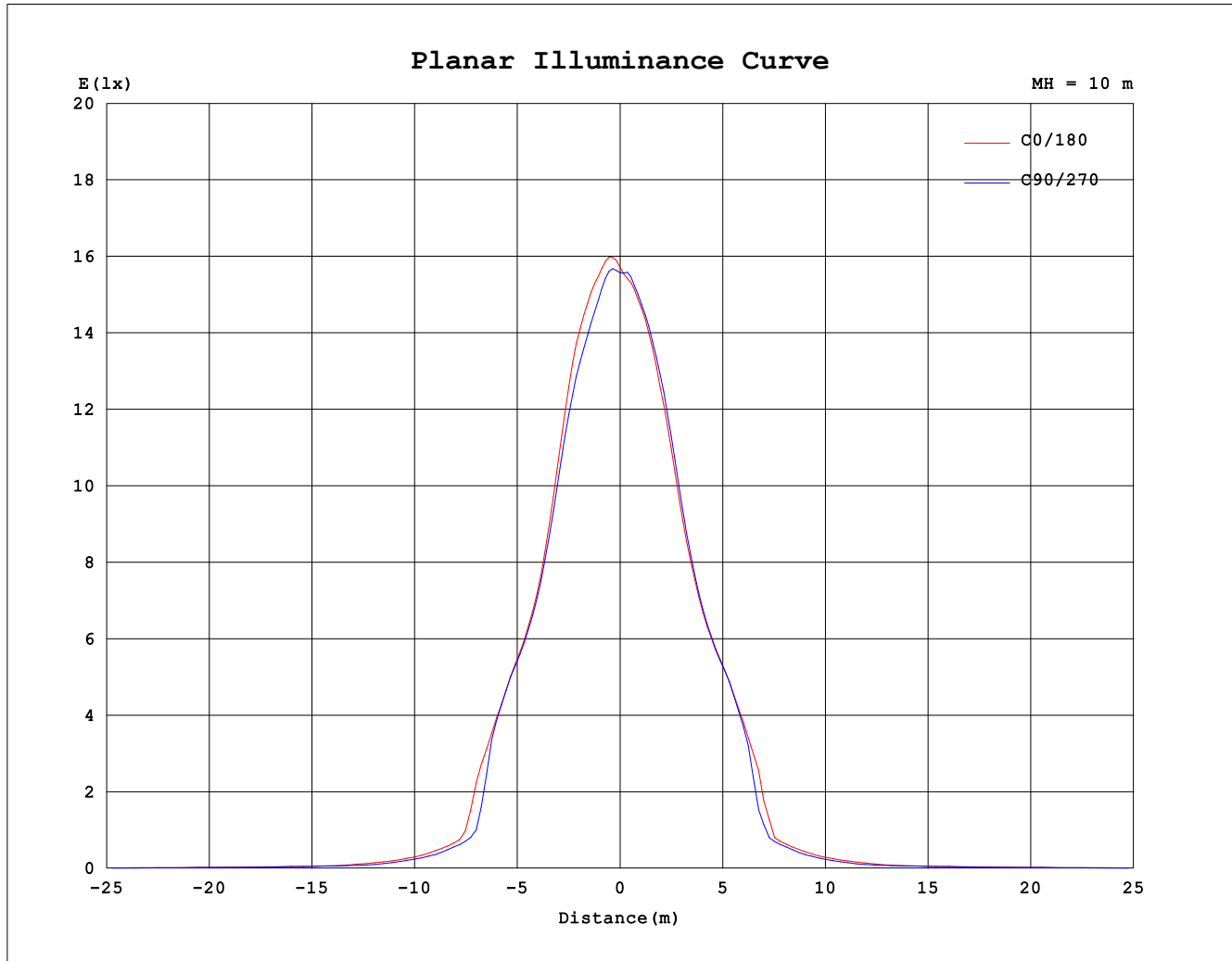
AvgL	cd/m2
L_0~180 (65) av	8654
L_0~180 (75) av	9129
L_0~180 (85) av	3499
L_90~270 (65) av	8113
L_90~270 (75) av	7254
L_90~270 (85) av	1134
L_45 (65) av	8274
L_45 (75) av	7968
L_45 (85) av	2027

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:

```