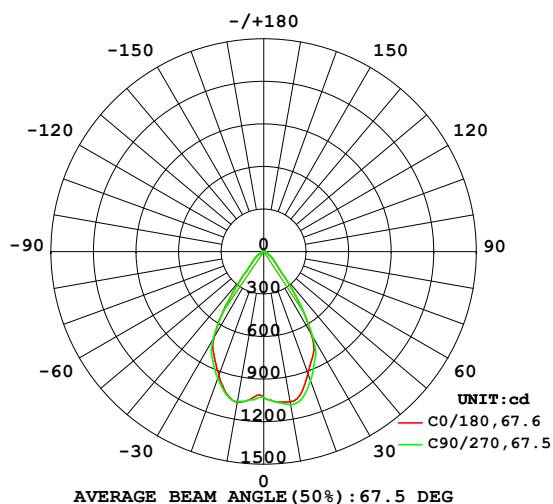


## LUMINAIRE PHOTOMETRIC TEST REPORT

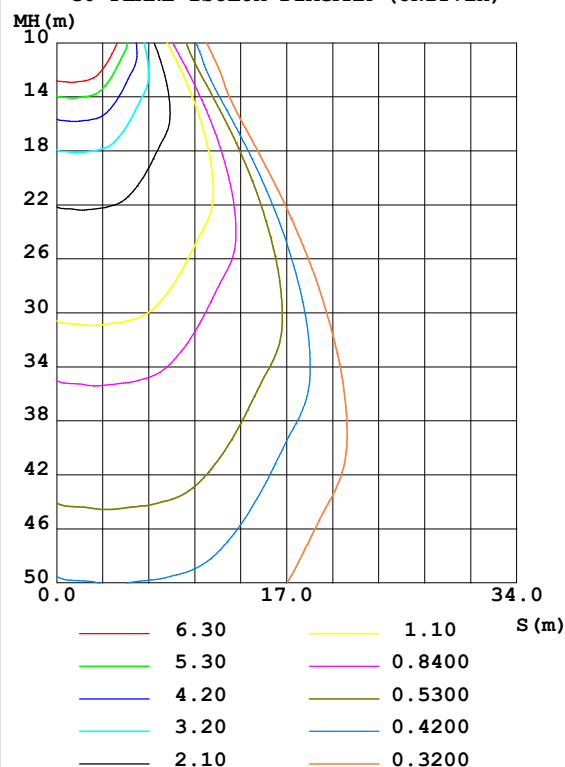
Test:U:239.9V I:0.0641A P:14.29W PF:0.9293 Lamp Flux:1250.3x1 lm		
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_50 DEG		
MFR.: DARKON		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 87.50 lm/W			
MODEL	SLE G7 09mm 1200lm	I <sub>max</sub> (cd)	1105	S/MH(C0/180)	0.99
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.99
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	1250.3	η UP,DN(C0-180)	0.0,49.5
NOMINAL FLUX(lm)	1250.3	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	230	η down(%)	100.0	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:24 February 2023

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.995m [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	1075	1094	1095	1089	1077	1085	1072	1071	0- 10	101.7	101.7	8.14,8.14
20	915.9	940.3	968.3	969.0	927.2	927.2	950.3	958.6	10- 20	291.4	393.1	31.4,31.4
30	675.1	672.7	690.7	703.4	706.9	710.7	713.6	726.6	20- 30	384.5	777.6	62.2,62.2
40	209.8	211.9	216.0	218.7	242.9	244.7	235.4	227.7	30- 40	279.5	1057	84.5,84.5
50	89.96	88.86	87.68	88.25	91.63	92.77	93.02	94.61	40- 50	105.1	1162	93,93
60	36.77	35.59	35.94	36.17	38.03	39.20	39.79	39.58	50- 60	55.67	1218	97.4,97.4
70	10.82	10.62	10.64	10.75	11.02	11.10	11.12	11.04	60- 70	19.19	1237	98.9,98.9
80	6.831	6.684	6.651	6.676	6.922	7.023	7.091	7.053	70- 80	9.789	1247	99.7,99.7
90	0.0291	0.0291	0.0291	0.0291	0.0327	0.0327	0.0364	0.0328	80- 90	3.474	1250	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): 1117.9 lm

%lum = 89.4%  
%lamp = 89.4%

Conical surface Flux(120deg): 1217.8 lm

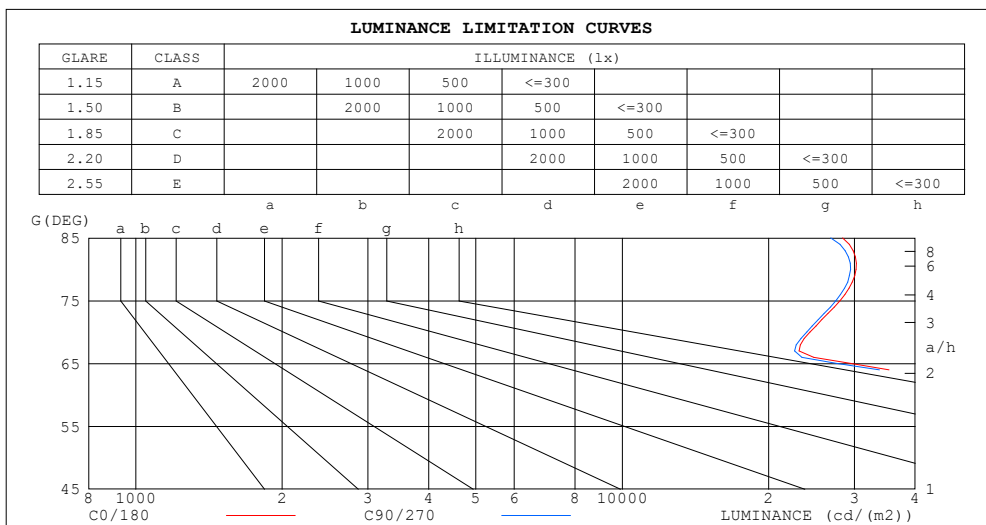
%lum = 97.4%  
%lamp = 97.4%

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:24 February 2023

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.995m [K=1.0000]  
Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:239.9V I:0.0641A P:14.29W PF:0.9293 Lamp Flux:1250.3x1 lm		
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_50 DEG		
MFR.: DARKON		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	28387	26839
80	30254	29480
75	28040	27494
70	24328	23939
65	29519	27625
60	56563	55318
55	81692	79785
50	107634	104986
45	142279	137011

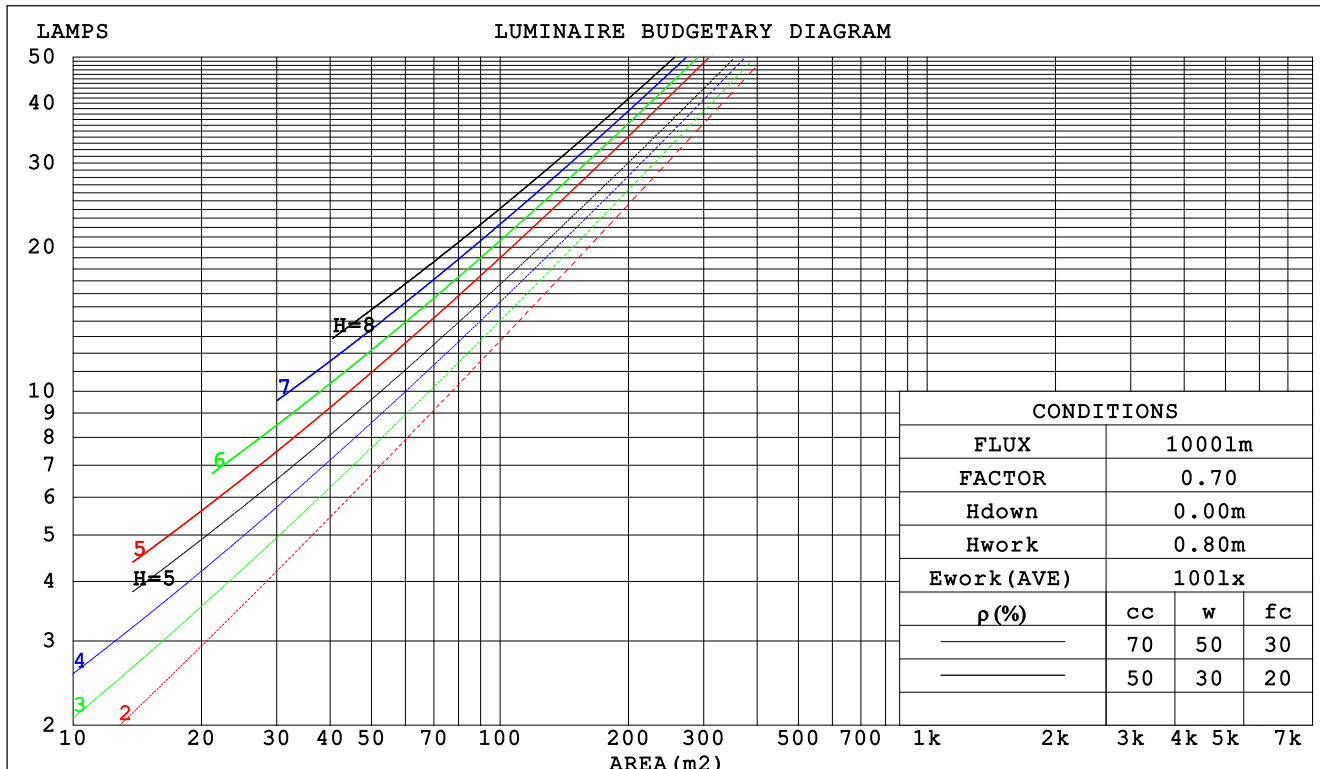
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:24 February 2023

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.995m [K=1.0000]  
Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:239.9V I:0.0641A P:14.29W PF:0.9293 Lamp Flux:1250.3x1 lm		
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_50 DEG		
MFR.: DARKON		

$\rho_{cc}$	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	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.10	1.07	1.04	1.08	1.05	1.03	1.03	1.01	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.01	.97	.93	.99	.95	.92	.96	.93	.90	.93	.90	.88	.90	.88	.86	.84
3.0	.93	.88	.83	.92	.87	.83	.89	.85	.81	.87	.83	.80	.84	.81	.79	.77
4.0	.86	.80	.76	.85	.79	.75	.83	.78	.74	.81	.77	.73	.79	.75	.72	.71
5.0	.80	.74	.69	.79	.73	.69	.77	.72	.68	.76	.71	.67	.74	.70	.67	.65
6.0	.75	.68	.63	.74	.68	.63	.72	.67	.63	.71	.66	.62	.69	.65	.62	.60
7.0	.70	.63	.58	.69	.63	.58	.68	.62	.58	.66	.61	.58	.65	.61	.57	.56
8.0	.65	.59	.54	.65	.58	.54	.63	.58	.54	.62	.57	.54	.61	.57	.53	.52
9.0	.61	.55	.50	.61	.55	.50	.60	.54	.50	.59	.54	.50	.58	.53	.50	.48
10.0	.58	.51	.47	.57	.51	.47	.56	.51	.47	.55	.50	.47	.55	.50	.47	.45



C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:JEFF

Test Date:24 February 2023

$\gamma$  Range: 0 - 90DEG

$\gamma$  Interval: 1.0DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295

Humidity:65.0%

Test Distance:7.995m [K=1.0000]

Remarks:

**WEC AND CCEC**

Test:U:239.9V I:0.0641A P:14.29W PF:0.9293 Lamp Flux:1250.3x1 lm		
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_50 DEG		
MFR.: DARKON		

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	.198	.113	.036	.191	.109	.035	.179	.103	.033	.167	.096	.031	.156	.091	.029	
2.0	.190	.104	.032	.185	.102	.031	.174	.097	.030	.164	.092	.029	.155	.087	.028	
3.0	.181	.096	.029	.176	.094	.028	.167	.090	.027	.158	.087	.027	.150	.083	.026	
4.0	.172	.089	.026	.168	.088	.026	.160	.085	.025	.152	.082	.025	.145	.079	.024	
5.0	.163	.083	.024	.160	.082	.024	.152	.079	.023	.146	.077	.023	.140	.075	.022	
6.0	.155	.078	.022	.152	.077	.022	.146	.075	.022	.140	.073	.021	.134	.071	.021	
7.0	.148	.073	.021	.145	.072	.021	.139	.070	.020	.134	.069	.020	.129	.067	.020	
8.0	.141	.069	.019	.138	.068	.019	.133	.067	.019	.129	.065	.019	.124	.064	.019	
9.0	.135	.065	.018	.132	.064	.018	.128	.063	.018	.124	.062	.018	.120	.061	.018	
10.0	.129	.062	.017	.127	.061	.017	.123	.060	.017	.119	.059	.017	.115	.058	.017	

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	.173	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.159	.132	.110	.136	.114	.095	.093	.079	.066	.054	.046	.039	.017	.015	.013	
3.0	.147	.114	.087	.126	.098	.075	.087	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.138	.099	.070	.118	.086	.061	.081	.060	.043	.047	.035	.025	.015	.011	.008	
5.0	.130	.088	.057	.111	.076	.050	.077	.053	.035	.044	.031	.021	.014	.010	.007	
6.0	.122	.079	.048	.105	.068	.041	.073	.048	.029	.042	.028	.017	.014	.009	.006	
7.0	.116	.071	.040	.100	.062	.035	.069	.043	.025	.040	.026	.015	.013	.008	.005	
8.0	.110	.065	.034	.095	.057	.030	.066	.040	.021	.038	.023	.013	.012	.008	.004	
9.0	.105	.060	.030	.091	.052	.026	.063	.037	.018	.037	.022	.011	.012	.007	.004	
10.0	.101	.056	.026	.087	.049	.023	.060	.034	.016	.035	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:24 February 2023

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.995m [K=1.0000]  
Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:239.9V I:0.0641A P:14.29W PF:0.9293 Lamp Flux:1250.3x1 lm										
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_50 DEG										
MFR.: DARKON										
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	26.1	27.2	26.3	27.3	27.5	26.1	27.2	26.3	27.3	27.5
3H	26.0	27.0	26.3	27.2	27.4	26.0	27.0	26.3	27.2	27.4
4H	26.0	27.0	26.3	27.2	27.4	26.0	27.0	26.3	27.2	27.4
6H	26.1	26.9	26.4	27.2	27.4	26.1	26.9	26.4	27.2	27.4
8H	26.1	26.9	26.4	27.2	27.4	26.1	26.9	26.4	27.2	27.4
12H	26.1	26.9	26.4	27.2	27.4	26.1	26.9	26.4	27.1	27.4
4H 2H	26.0	26.9	26.3	27.1	27.4	26.0	26.9	26.3	27.1	27.4
3H	26.0	26.8	26.3	27.0	27.3	26.0	26.8	26.3	27.0	27.3
4H	26.0	26.8	26.4	27.1	27.4	26.0	26.8	26.4	27.1	27.4
6H	26.1	26.8	26.5	27.1	27.5	26.1	26.8	26.5	27.1	27.5
8H	26.2	26.8	26.6	27.1	27.5	26.2	26.8	26.6	27.1	27.5
12H	26.2	26.8	26.6	27.1	27.5	26.2	26.7	26.6	27.1	27.5
8H 4H	26.0	26.6	26.4	26.9	27.3	26.0	26.6	26.4	26.9	27.3
6H	26.2	26.6	26.6	27.0	27.5	26.2	26.6	26.6	27.0	27.4
8H	26.3	26.7	26.7	27.1	27.5	26.2	26.7	26.7	27.1	27.5
12H	26.3	26.7	26.8	27.1	27.6	26.3	26.7	26.8	27.1	27.6
12H 4H	26.0	26.5	26.4	26.9	27.3	26.0	26.5	26.4	26.9	27.3
6H	26.2	26.6	26.6	27.0	27.4	26.1	26.6	26.6	27.0	27.4
8H	26.3	26.6	26.7	27.1	27.5	26.3	26.6	26.7	27.1	27.5
Variations with the observer position at spacings:										
S = 1.0H	+ 2.0 / - 2.3					+ 2.0 / - 2.4				
1.5H	+ 3.1 / - 1.4					+ 3.2 / - 1.5				
2.0H	+ 2.3 / - 2.5					+ 2.2 / - 2.5				

CIE Pub.117 Corrected 1250 lm Total Lamp Luminous Flux. (8log(F/F0) = 0.8)

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:24 February 2023

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.995m [K=1.0000]  
Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:239.9V I:0.0641A P:14.29W PF:0.9293 Lamp Flux:1250.3x1 lm		
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_50 DEG		
MFR.: DARKON		

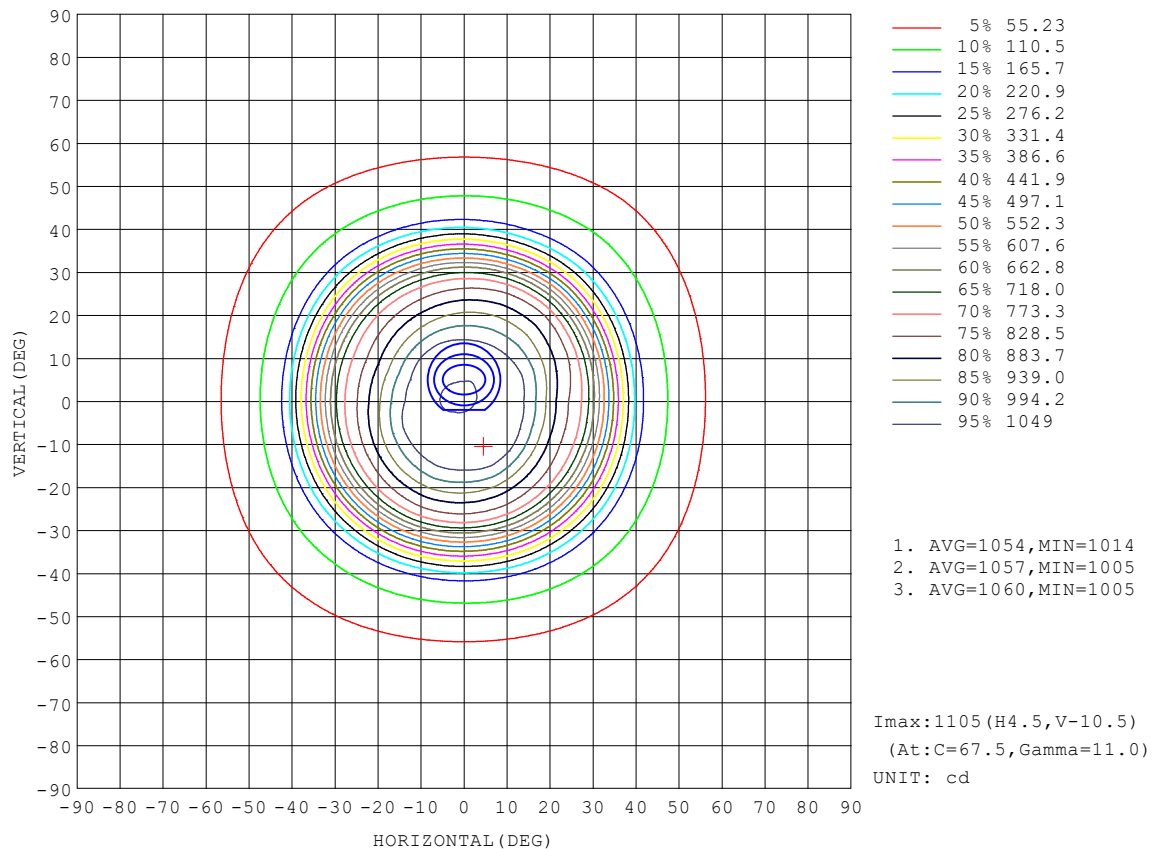
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	82	74	70	81	74	70	80	74	70	66
0.80	90	83	79	89	83	79	88	82	78	74
1.00	95	89	85	94	88	84	93	89	84	79
1.25	100	94	90	99	93	90	97	92	89	84
1.50	103	98	94	102	97	93	100	95	92	87
2.00	107	102	98	105	101	97	102	99	96	90
2.50	109	104	101	107	103	100	104	101	98	92
3.00	110	106	103	109	105	102	105	102	100	93
4.00	113	109	107	111	108	105	107	105	103	95
5.00	114	111	109	112	109	108	108	106	104	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: 24 February 2023

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 7.995m [K=1.0000]  
Remarks:

# ISOCANDELA DIAGRAM

Test:U:239.9V I:0.0641A P:14.29W PF:0.9293 Lamp Flux:1250.3x1 lm		
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_50 DEG		
MFR.: DARKON		



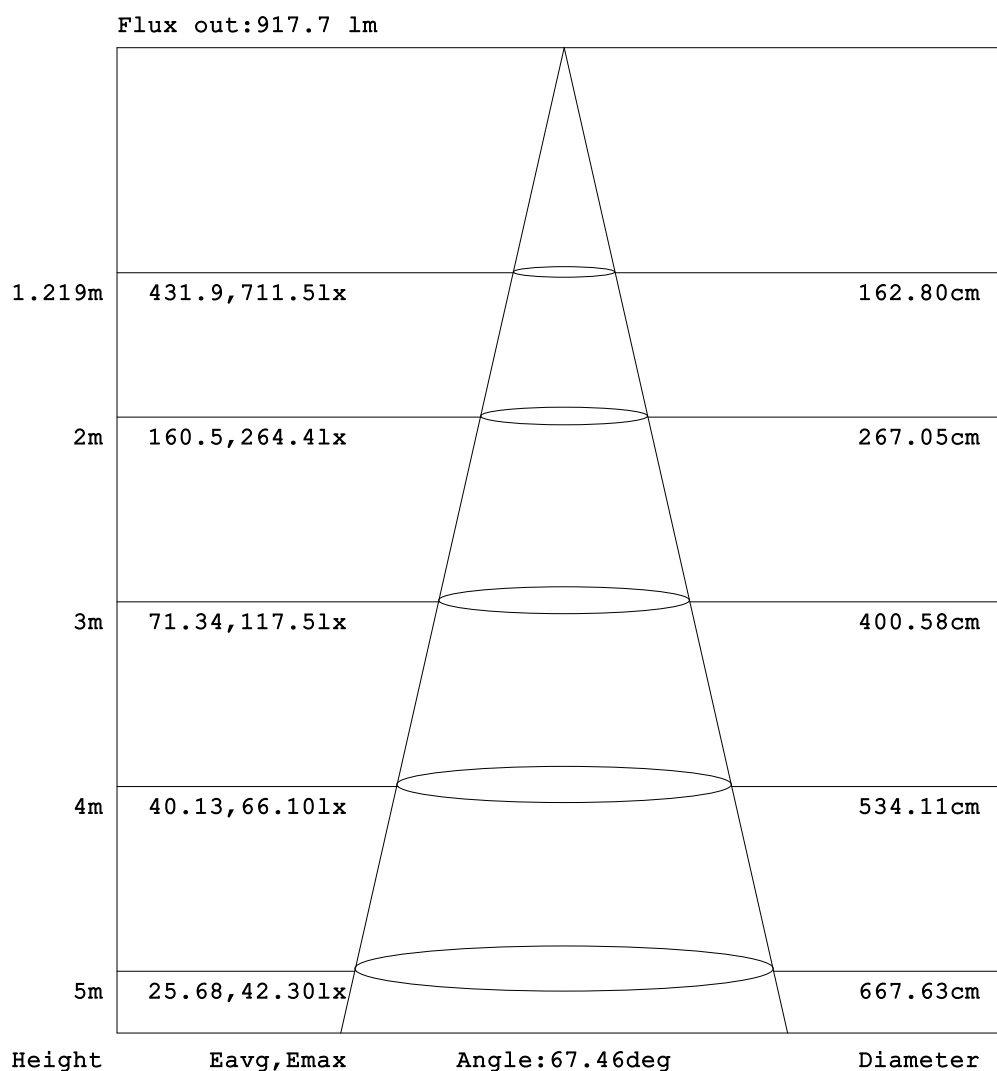
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:24 February 2023

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.995m [K=1.0000]  
Remarks:



### AAI Figure

Test:U:239.9V I:0.0641A P:14.29W PF:0.9293 Lamp Flux:1250.3x1 lm		
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_50 DEG		
MFR.: DARKON		



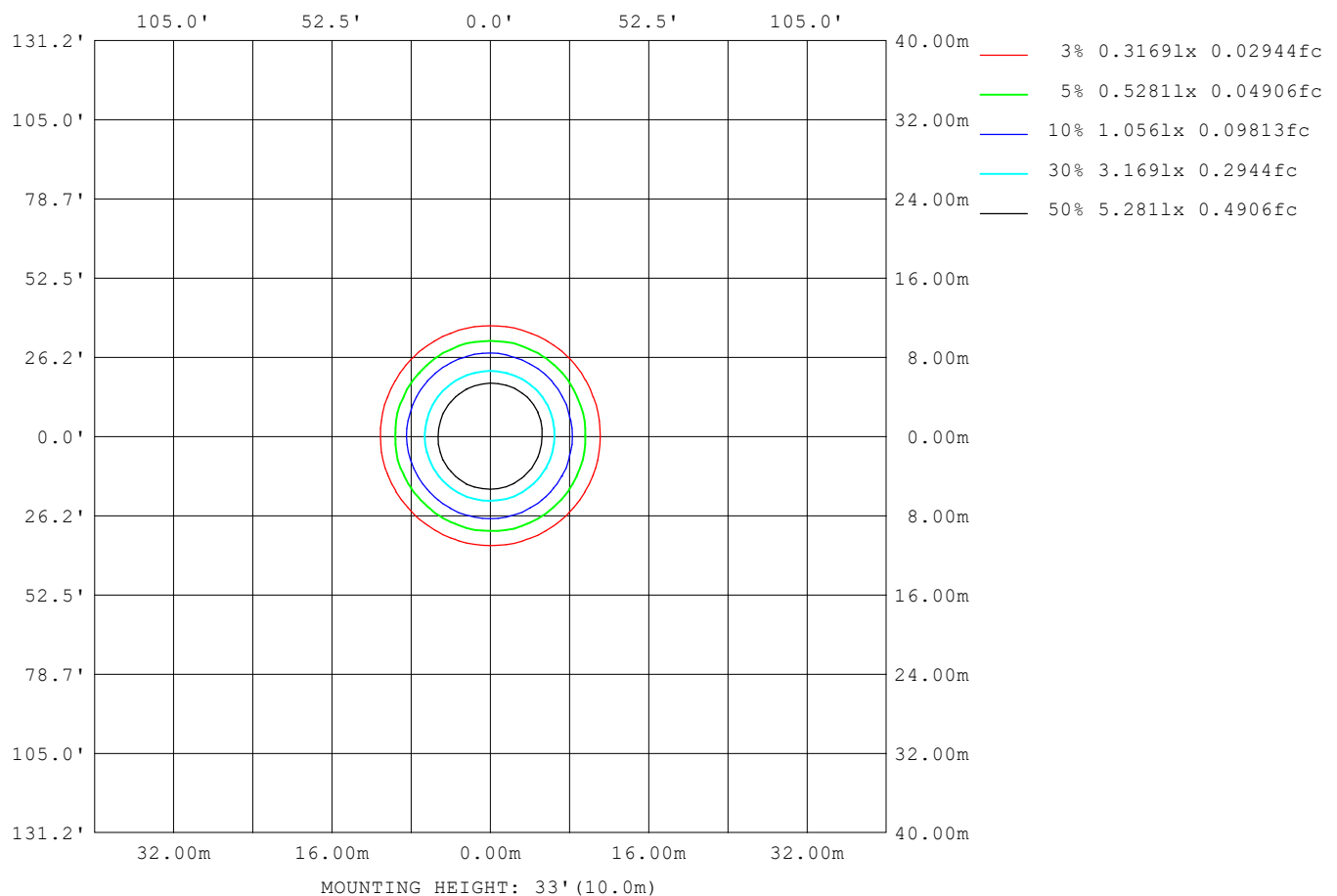
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JEFF  
Test Date: 24 February 2023

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 7.995m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

Test:U:239.9V I:0.0641A P:14.29W PF:0.9293 Lamp Flux:1250.3x1 lm		
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_50 DEG		
MFR.: DARKON		



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:24 February 2023

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.995m [K=1.0000]  
Remarks:

### LED Avg.L Report

Test:U:239.9V I:0.0641A P:14.29W PF:0.9293 Lamp Flux:1250.3x1 lm		
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_50 DEG		
MFR.: DARKON		

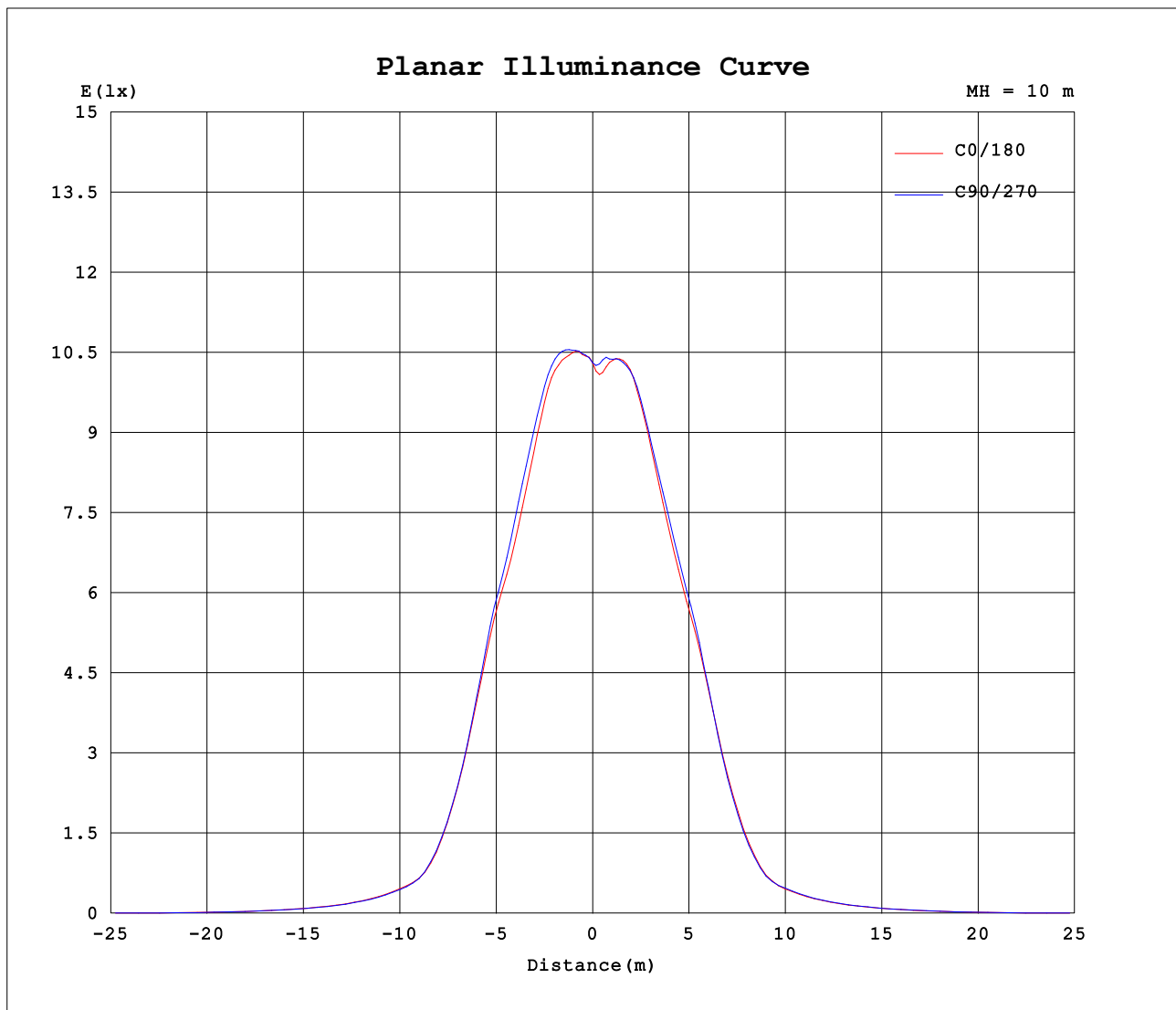
AvgL	cd/m2
L_0~180 (65) av	29355
L_0~180 (75) av	28296
L_0~180 (85) av	28077
L_90~270 (65) av	29909
L_90~270 (75) av	28186
L_90~270 (85) av	28175
L_45 (65) av	29583
L_45 (75) av	28178
L_45 (85) av	28091

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:24 February 2023

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.995m [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: 24 February 2023

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 7.995m [K=1.0000]  
Remarks:

