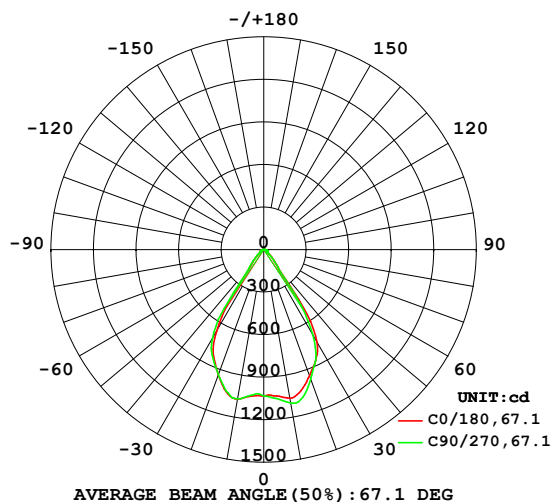


## LUMINAIRE PHOTOMETRIC TEST REPORT

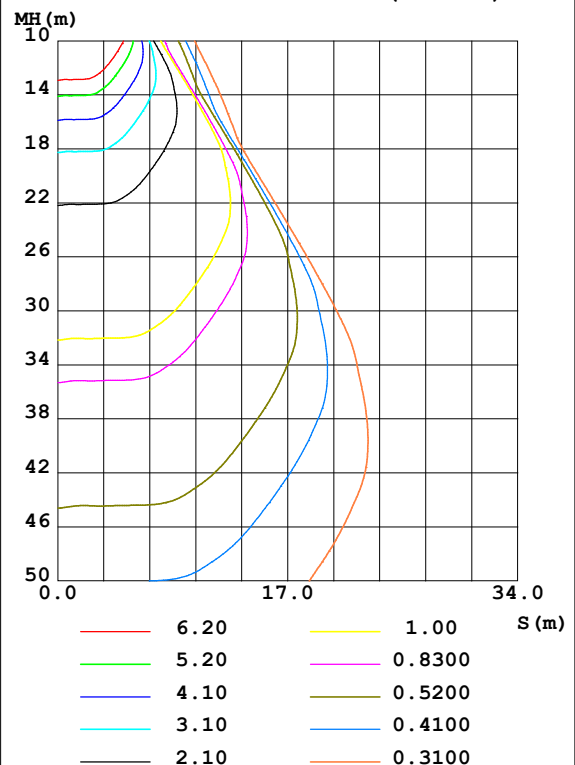
Test:U:240.0V I:0.0642A P:14.31W PF:0.9284 Lamp Flux:1159.86x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_350mA_4000K CRI90_50 DEBE:LED		WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 81.04 lm/W			
MODEL	SLE G7 09mm 1200lm	Imax(cd)	1106	S/MH(C0/180)	0.95
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.97
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	1159.9	$\eta$ UP,DN(C0-180)	0.0,50.2
NOMINAL FLUX(lm)	1159.86	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,49.8
LAMPS INSIDE	1	$\eta$ up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	230	$\eta$ down(%)	100.0	CIBSE SHR MAX	0.70

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:16 January 2024

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.890m [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	1064	1067	1099	1087	1071	1043	1069	1061	0- 10	100.4	100.4	8.66,8.66
20	945.8	930.9	970.5	961.9	939.1	911.2	937.4	953.9	10- 20	289.1	389.5	33.6,33.6
30	751.3	705.9	691.8	671.6	665.6	683.7	725.4	761.6	20- 30	387.1	776.6	67,67
40	147.6	144.9	144.9	138.6	136.0	142.8	149.1	148.0	30- 40	236.9	1013	87.4,87.4
50	50.71	49.04	47.61	46.59	46.99	48.27	49.47	50.94	40- 50	68.81	1082	93.3,93.3
60	27.62	27.83	28.30	28.62	28.53	28.04	27.74	27.64	50- 60	29.39	1112	95.8,95.8
70	21.33	21.61	21.99	22.17	21.97	21.43	21.21	21.25	60- 70	25.11	1137	98,98
80	10.99	11.41	11.85	11.90	11.54	10.99	10.73	10.77	70- 80	17.46	1154	99.5,99.5
90	0.0805	0.0659	0.0623	0.0587	0.0659	0.0623	0.0733	0.0699	80- 90	5.618	1160	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): 1055.2 lm

%lum = 91.0%

%lamp = 91.0%

Conical surface Flux(120deg): 1111.7 lm

%lum = 95.8%

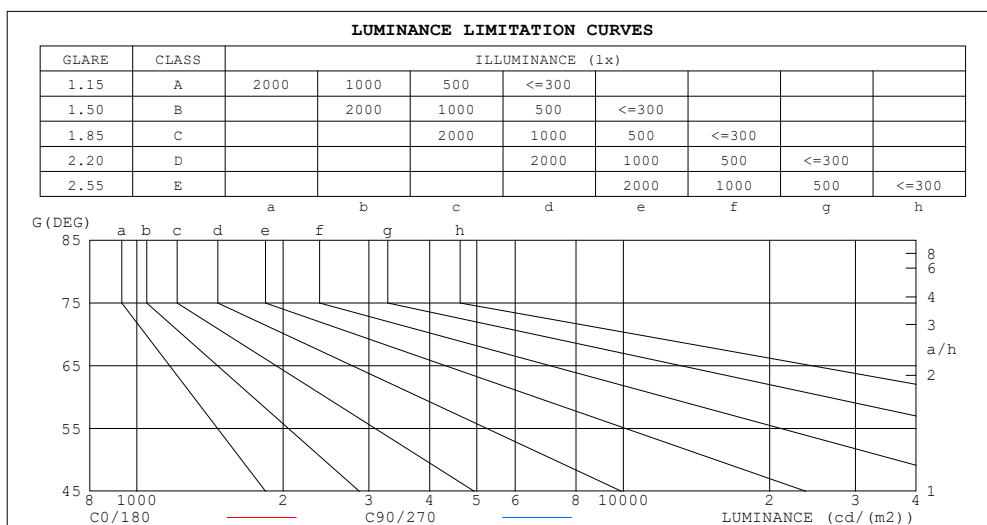
%lamp = 95.8%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:JEFF  
 Test Date:16 January 2024

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
 Humidity:65.0%  
 Test Distance:7.890m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:240.0V I:0.0642A P:14.31W PF:0.9284 Lamp Flux:1159.86x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_350mA_4000K CRI90_50 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE $\text{cd}/(\text{m}^2)$		
G (DEG)	C0/180	C90/270
85	46500	48035
80	48768	52493
75	48480	50742
70	48053	49454
65	46067	47167
60	42575	43536
55	39719	40411
50	60796	56961
45	99794	94488

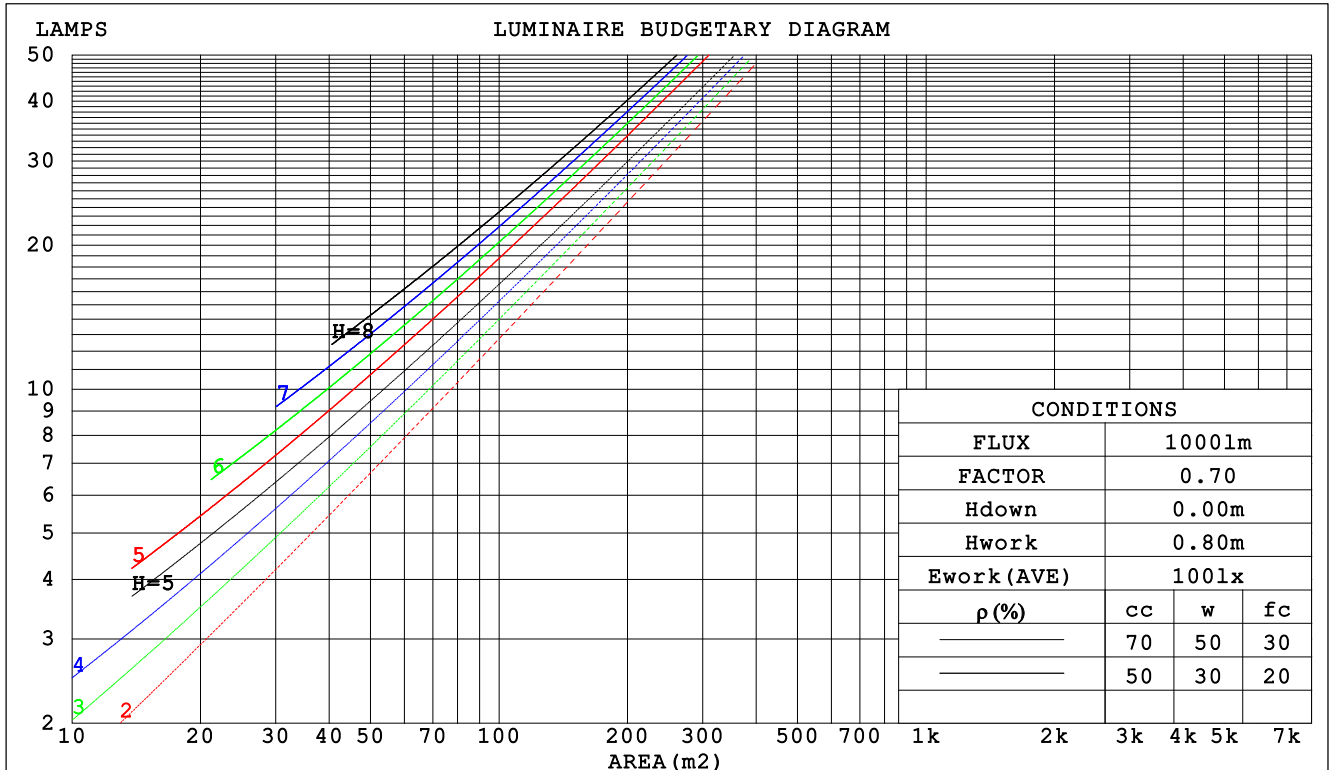
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JEFF  
Test Date: 16 January 2024

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 7.890m [K=1.0000]  
Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:240.0V I:0.0642A P:14.31W PF:0.9284 Lamp Flux:1159.86x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_350mA_4000K CRI90_50 DEE:LED		WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	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	Coefficients of Utilization(CU)															
	RCR:Room Cavity Ratio															
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	1.07	1.05	1.03	1.03	1.01	.99	.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	.94	.88	.84	.92	.87	.83	.90	.85	.82	.87	.83	.80	.85	.82	.79	.78
4.0	.87	.81	.76	.86	.80	.76	.84	.79	.75	.82	.77	.74	.80	.76	.73	.72
5.0	.81	.75	.70	.80	.74	.70	.78	.73	.69	.77	.72	.69	.75	.71	.68	.66
6.0	.76	.69	.65	.75	.69	.65	.73	.68	.64	.72	.67	.64	.71	.66	.63	.62
7.0	.71	.65	.60	.70	.64	.60	.69	.64	.60	.68	.63	.59	.67	.62	.59	.57
8.0	.67	.60	.56	.66	.60	.56	.65	.59	.56	.64	.59	.55	.63	.58	.55	.54
9.0	.63	.56	.52	.62	.56	.52	.61	.56	.52	.60	.55	.52	.59	.55	.52	.50
10.0	.59	.53	.49	.59	.53	.49	.58	.52	.49	.57	.52	.49	.56	.52	.48	.47



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:16 January 2024

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.890m [K=1.0000]  
Remarks:

**WEC AND CCEC**

Test:U:240.0V I:0.0642A P:14.31W PF:0.9284 Lamp Flux:1159.86x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_350mA_4000K CRI90_50 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
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	.200	.114	.036	.193	.110	.035	.180	.103	.033	.169	.097	.031	.158	.091	.029		
2.0	.189	.104	.032	.184	.101	.031	.173	.096	.030	.163	.091	.029	.154	.087	.027		
3.0	.179	.095	.028	.174	.093	.028	.164	.089	.027	.156	.085	.026	.148	.082	.025		
4.0	.169	.088	.026	.165	.086	.025	.156	.083	.025	.149	.080	.024	.142	.077	.024		
5.0	.160	.081	.024	.156	.080	.023	.149	.078	.023	.143	.075	.022	.136	.073	.022		
6.0	.152	.076	.022	.148	.075	.022	.142	.073	.021	.136	.071	.021	.131	.069	.020		
7.0	.144	.071	.020	.141	.070	.020	.136	.069	.020	.131	.067	.019	.126	.065	.019		
8.0	.137	.067	.019	.135	.066	.019	.130	.065	.019	.125	.064	.018	.121	.062	.018		
9.0	.131	.063	.018	.129	.063	.018	.125	.062	.017	.120	.060	.017	.116	.059	.017		
10.0	.126	.060	.017	.123	.060	.017	.119	.059	.016	.116	.057	.016	.112	.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	.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	.067	.054	.046	.039	.017	.015	.013	
3.0	.147	.114	.087	.126	.098	.076	.086	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.137	.099	.070	.118	.086	.061	.081	.060	.043	.047	.035	.025	.015	.011	.008	
5.0	.129	.088	.058	.110	.076	.050	.076	.053	.035	.044	.031	.021	.014	.010	.007	
6.0	.121	.079	.048	.104	.068	.042	.072	.048	.030	.042	.028	.018	.013	.009	.006	
7.0	.115	.071	.041	.099	.062	.035	.068	.043	.025	.040	.025	.015	.013	.008	.005	
8.0	.109	.065	.035	.094	.056	.030	.065	.040	.022	.038	.023	.013	.012	.008	.004	
9.0	.104	.060	.030	.090	.052	.026	.062	.037	.019	.036	.022	.011	.012	.007	.004	
10.0	.099	.056	.027	.086	.048	.023	.059	.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:16 January 2024

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.890m [K=1.0000]  
Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:240.0V I:0.0642A P:14.31W PF:0.9284 Lamp Flux:1159.86x1 lm										
NAME: DEEPER DOWN_SLE G7 09mm_350mA_4000K CRI90_50 DEBE:LED								WEIGHT:		
SPEC.:				DIM.:				SERIAL No.:1		
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	25.2	26.3	25.5	26.4	26.6	24.7	25.7	24.9	25.9	26.0
3H	25.7	26.6	25.9	26.8	27.0	25.2	26.2	25.5	26.4	26.6
4H	25.9	26.8	26.2	27.1	27.3	25.6	26.5	25.8	26.7	26.9
6H	26.2	27.0	26.5	27.3	27.5	25.9	26.8	26.2	27.0	27.3
8H	26.3	27.1	26.6	27.4	27.6	26.1	26.9	26.4	27.1	27.4
12H	26.4	27.2	26.7	27.4	27.7	26.2	26.9	26.5	27.2	27.5
4H 2H	25.2	26.1	25.5	26.3	26.6	24.7	25.6	25.0	25.8	26.0
3H	25.9	26.6	26.2	26.9	27.2	25.5	26.3	25.8	26.5	26.8
4H	26.3	27.0	26.6	27.3	27.6	26.0	26.7	26.3	27.0	27.3
6H	26.7	27.3	27.1	27.7	28.0	26.5	27.1	26.9	27.5	27.8
8H	26.9	27.5	27.3	27.8	28.2	26.7	27.3	27.1	27.7	28.1
12H	27.0	27.6	27.4	27.9	28.3	26.9	27.4	27.3	27.8	28.2
8H 4H	26.4	27.0	26.8	27.4	27.7	26.2	26.7	26.6	27.1	27.5
6H	27.0	27.5	27.4	27.9	28.3	26.9	27.3	27.3	27.7	28.1
8H	27.3	27.7	27.7	28.1	28.6	27.2	27.6	27.6	28.0	28.5
12H	27.5	27.9	28.0	28.3	28.8	27.4	27.8	27.9	28.2	28.7
12H 4H	26.4	27.0	26.8	27.3	27.7	26.2	26.7	26.6	27.1	27.5
6H	27.1	27.5	27.5	27.9	28.3	26.9	27.3	27.4	27.7	28.2
8H	27.4	27.7	27.8	28.2	28.6	27.3	27.6	27.7	28.1	28.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 0.8					+ 0.6 / - 0.7				
1.5H	+ 1.6 / - 0.8					+ 1.3 / - 0.7				
2.0H	+ 1.3 / - 0.5					+ 1.1 / - 0.4				

CIE Pub.117 Corrected 1160 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.5)

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:16 January 2024

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.890m [K=1.0000]  
Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:240.0V I:0.0642A P:14.31W PF:0.9284 Lamp Flux:1159.86x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_350mA_4000K CRI90_50 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

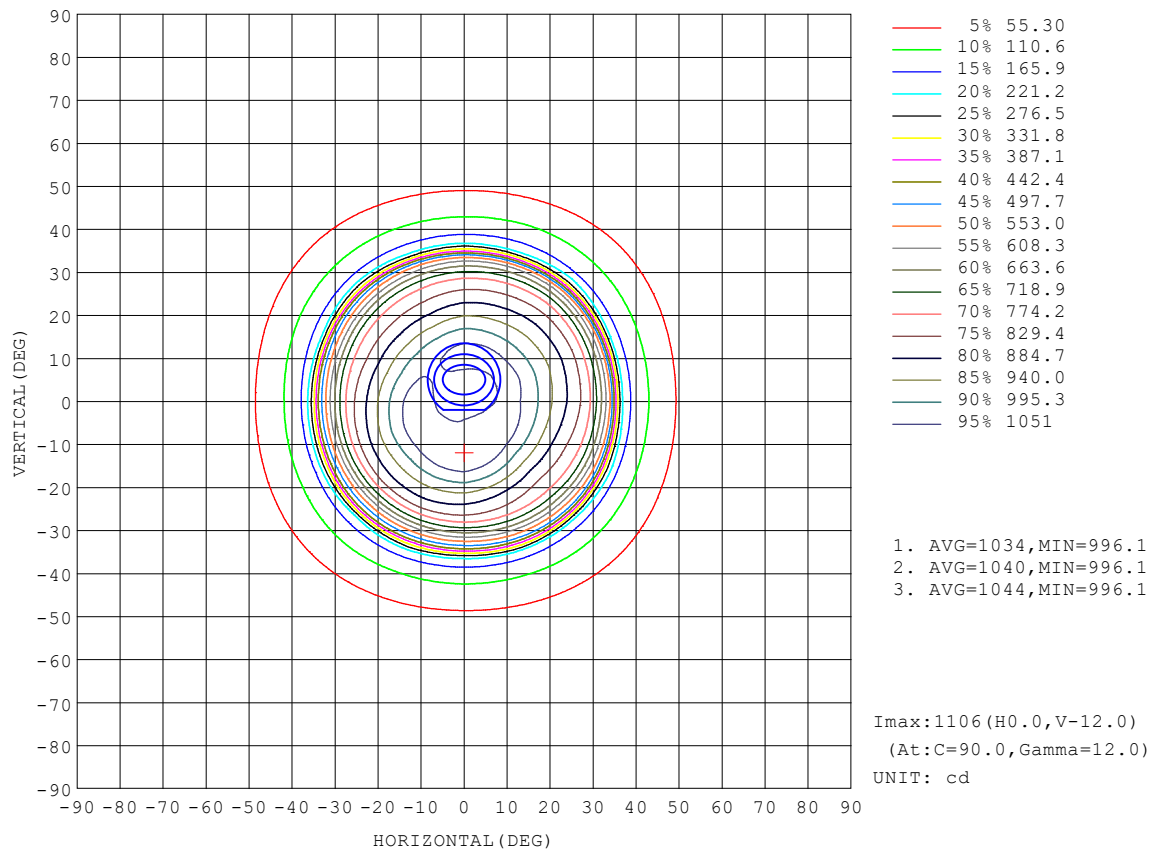
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	77	73	83	77	73	82	76	72	69
0.80	92	85	81	91	85	81	90	84	80	76
1.00	96	90	86	95	90	86	94	90	85	81
1.25	101	95	91	100	94	90	97	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	110	107	103	109	105	102	105	102	100	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	109	112	110	108	108	106	105	97
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHR NOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JEFF  
Test Date: 16 January 2024

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 7.890m [K=1.0000]  
Remarks:

### ISOCANDELA DIAGRAM

Test:U:240.0V I:0.0642A P:14.31W PF:0.9284 Lamp Flux:1159.86x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_350mA_4000K CRI90_50 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

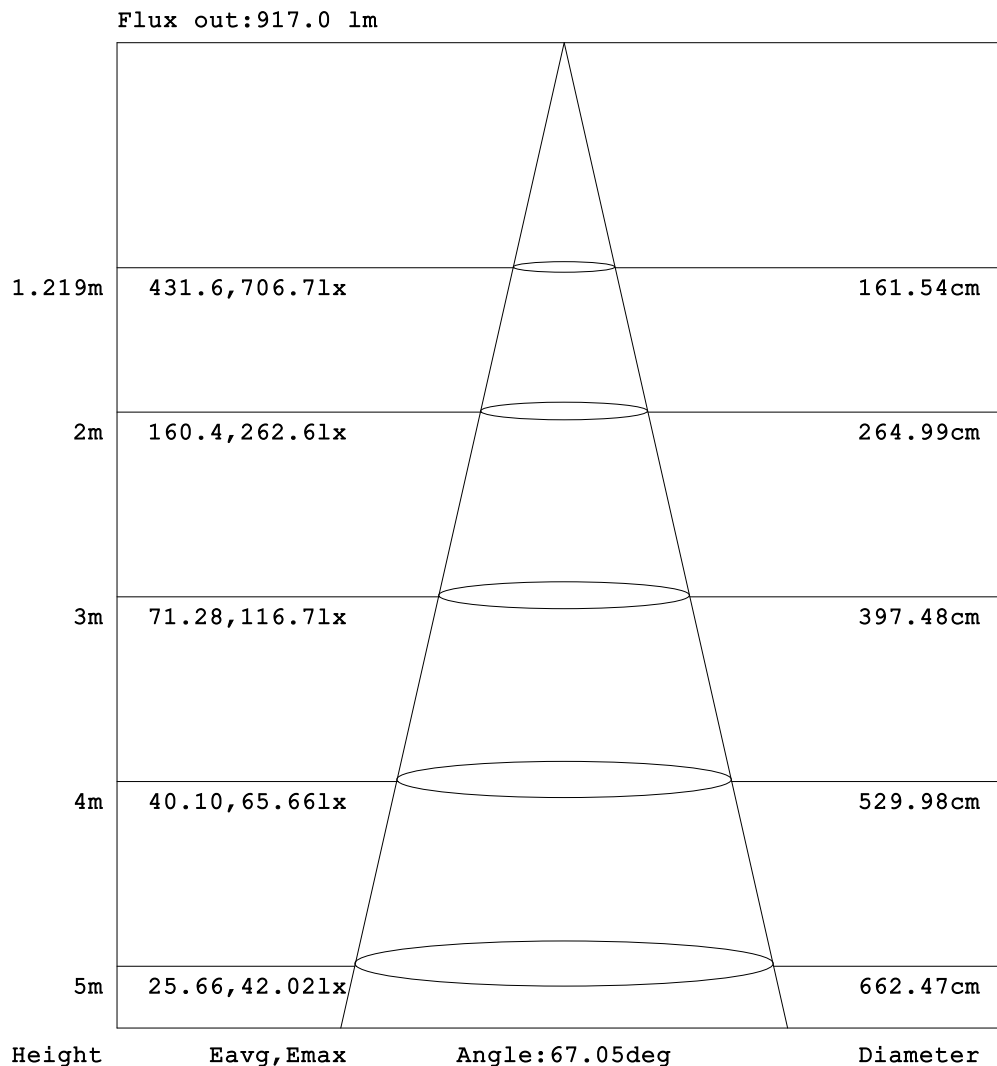


C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JEFF  
Test Date: 16 January 2024

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 7.890m [K=1.0000]  
Remarks:

**AAI Figure**

Test:U:240.0V I:0.0642A P:14.31W PF:0.9284 Lamp Flux:1159.86x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_350mA_4000K CRI90_50 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



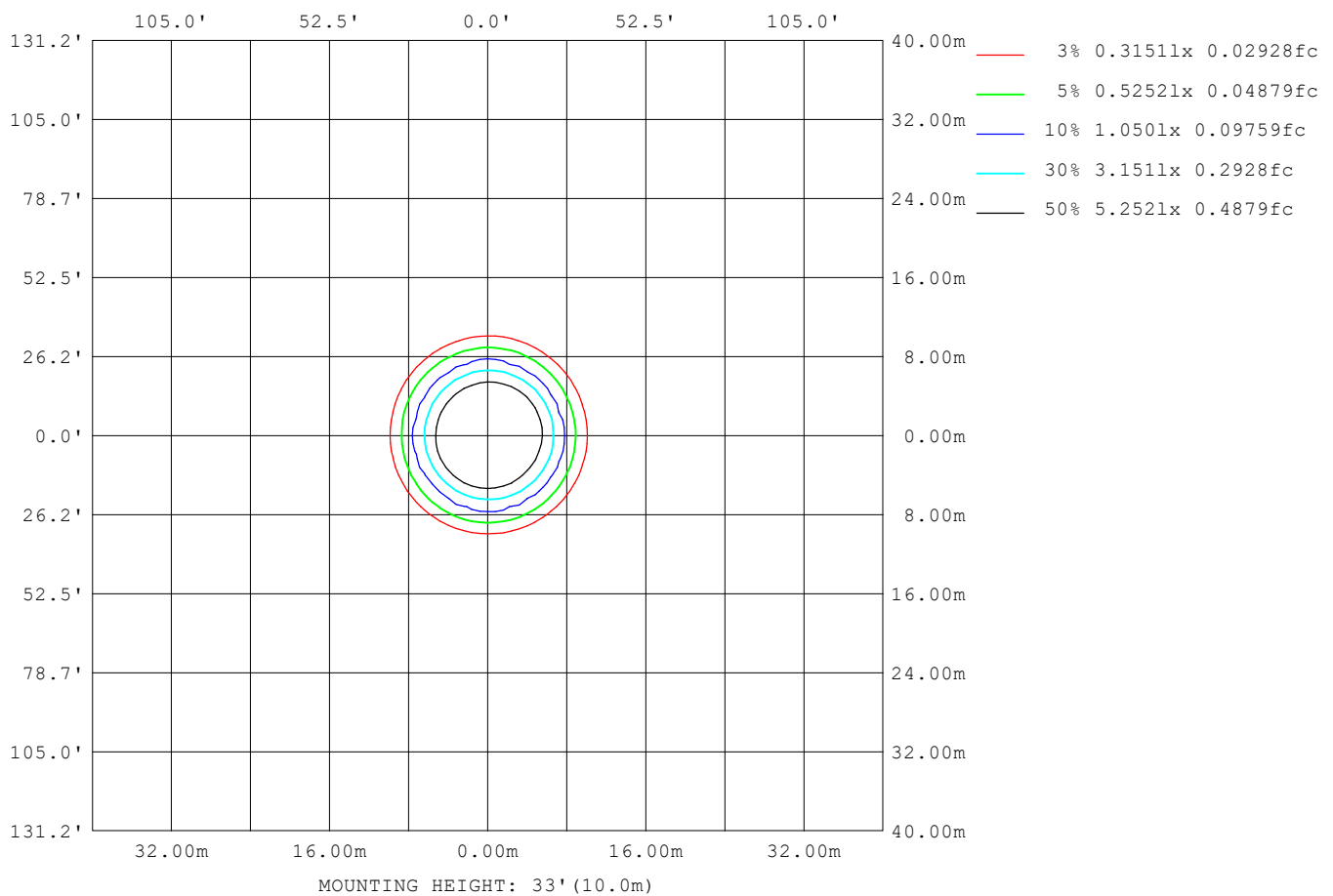
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:16 January 2024

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.890m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

Test:U:240.0V I:0.0642A P:14.31W PF:0.9284 Lamp Flux:1159.86x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_350mA_4000K CRI90_50 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:16 January 2024

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.890m [K=1.0000]  
Remarks:

### LED Avg.L Report

Test:U:240.0V I:0.0642A P:14.31W PF:0.9284 Lamp Flux:1159.86x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_350mA_4000K CRI90_50 DEEP:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

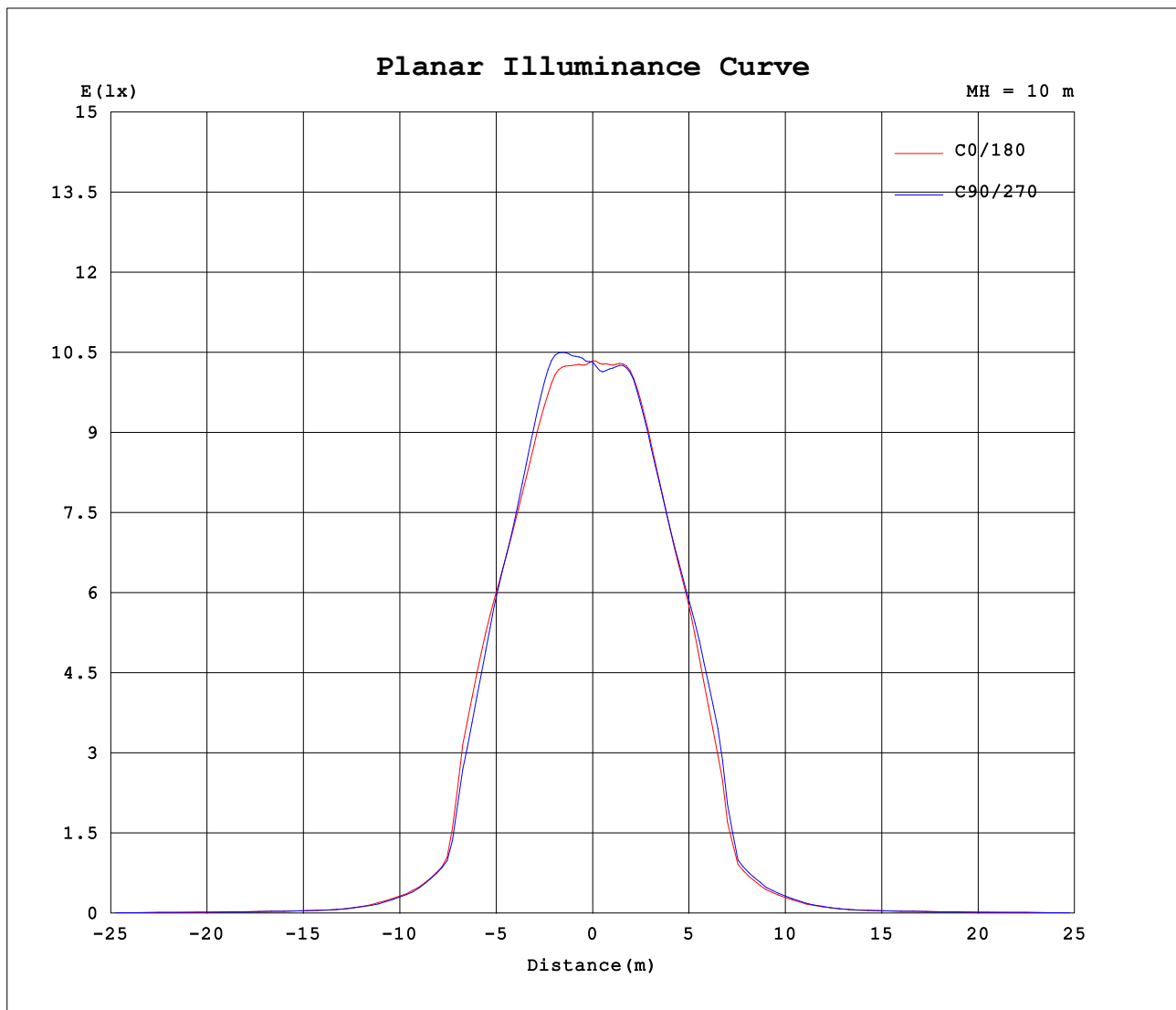
AvgL	cd/m2
L_0~180 (65) av	46705
L_0~180 (75) av	49307
L_0~180 (85) av	45605
L_90~270 (65) av	46597
L_90~270 (75) av	49263
L_90~270 (85) av	45873
L_45 (65) av	46634
L_45 (75) av	49261
L_45 (85) av	45643

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:16 January 2024

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.890m [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: 16 January 2024

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 7.890m [K=1.0000]  
Remarks:

