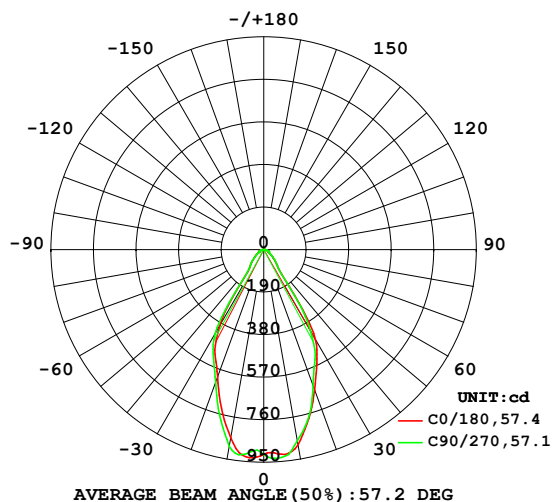


LUMINAIRE PHOTOMETRIC TEST REPORT

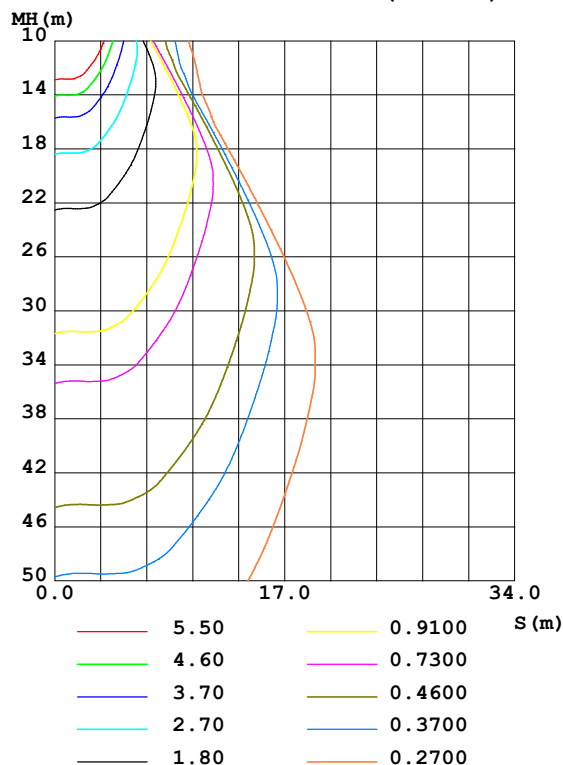
Test:U:239.9V I:0.0486A P:10.35W PF:0.8873 Lamp Flux:811.112x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_3000K CRI90_32 DEG		
MFR.: DARKON		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78.33 lm/W			
MODEL	SLE G7 09mm 1200lm	Imax(cd)	936.0	S/MH(C0/180)	0.80
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.82
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	811.11	η UP,DN(C0-180)	0.0,50.4
NOMINAL FLUX(lm)	811.112	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	230	η down(%)	100.0	CIBSE SHR MAX	0.90

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:23 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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	886.0	872.9	867.2	863.6	853.3	849.5	890.7	891.5	0- 10	86.68	86.68	10.7,10.7
20	664.9	648.9	647.3	625.3	605.1	597.7	630.6	660.6	10- 20	211.1	297.8	36.7,36.7
30	462.8	440.6	415.6	391.2	394.2	409.2	435.5	465.4	20- 30	245.1	542.9	66.9,66.9
40	95.99	94.50	96.10	94.02	94.14	94.50	95.33	98.48	30- 40	131.1	674.0	83.1,83.1
50	53.02	53.06	53.11	53.03	53.67	53.32	53.37	53.44	40- 50	56.64	730.7	90.1,90.1
60	25.25	25.96	26.89	27.70	27.81	26.86	25.73	25.05	50- 60	34.57	765.2	94.3,94.3
70	19.48	20.22	21.21	22.03	22.03	20.99	19.89	19.28	60- 70	23.58	788.8	97.3,97.3
80	9.888	10.72	11.59	12.14	11.94	10.95	10.01	9.611	70- 80	16.72	805.5	99.3,99.3
90	0.0875	0.0619	0.0582	0.0945	0.0980	0.0583	0.0691	0.0654	80- 90	5.576	811.1	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): 705.2 lm

%lum = 86.9%

%lamp = 86.9%

Conical surface Flux(120deg): 765.23 lm

%lum = 94.3%

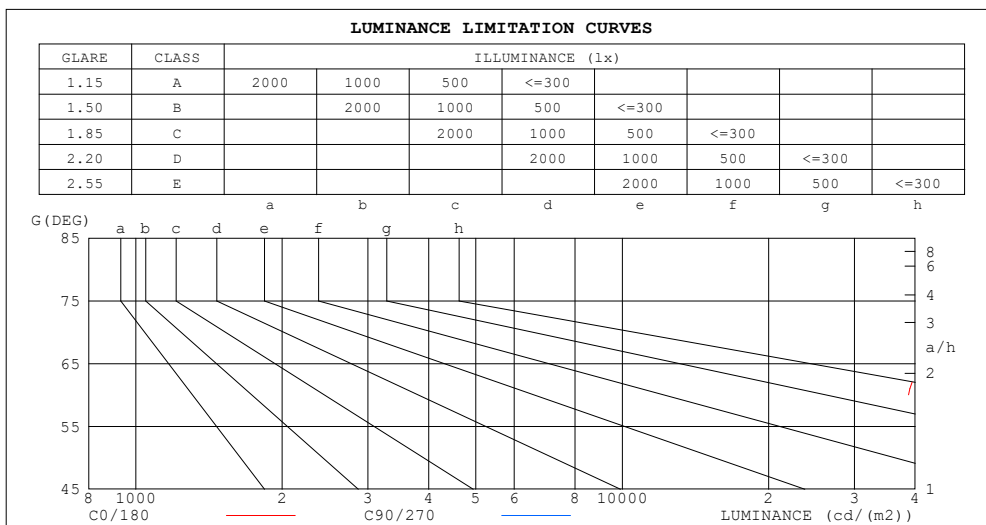
%lamp = 94.3%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JEFF
 Test Date:23 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:

LUMINANCE LIMITATION CURVES

Test:U:239.9V I:0.0486A P:10.35W PF:0.8873 Lamp Flux:811.112x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_3000K CRI90_32 DEG		
MFR.: DARKON		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	41608	50398
80	43752	51391
75	43896	49290
70	43759	47737
65	41373	44508
60	38801	41385
55	51295	52089
50	63374	63593
45	79915	80246

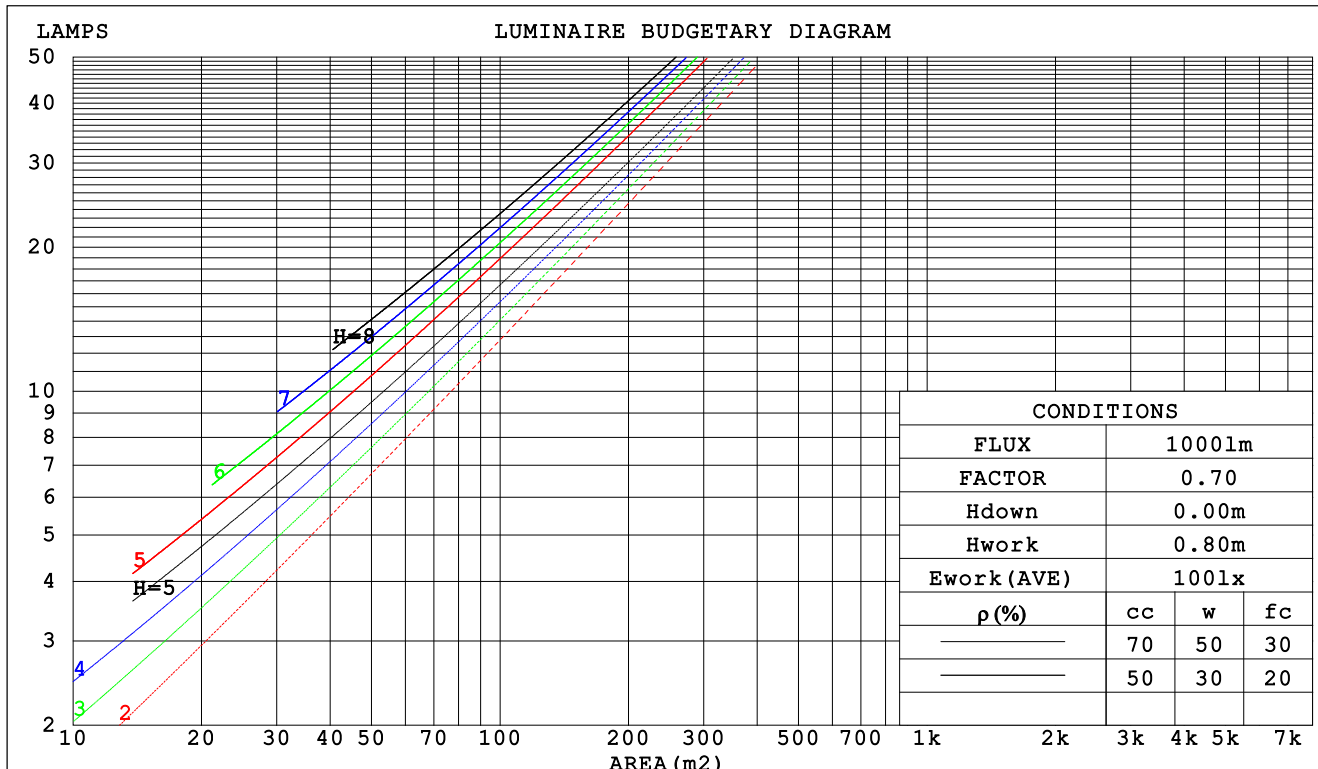
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: JEFF
 Test Date: 23 February 2023

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:0.0486A P:10.35W PF:0.8873 Lamp Flux:811.112x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_3000K CRI90_32 DEG		
MFR.: DARKON		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{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	.00
1.0	1.09	1.06	1.04	1.07	1.05	1.02	1.03	1.01	.99	.99	.98	.96	.96	.94	.93	.91
2.0	1.01	.96	.92	.99	.95	.91	.96	.92	.89	.92	.90	.87	.90	.87	.85	.84
3.0	.93	.87	.83	.92	.86	.82	.89	.85	.81	.86	.83	.80	.84	.81	.78	.77
4.0	.86	.80	.76	.85	.80	.75	.83	.78	.74	.81	.77	.73	.79	.75	.73	.71
5.0	.81	.74	.70	.80	.74	.69	.78	.73	.69	.76	.71	.68	.74	.70	.67	.66
6.0	.75	.69	.64	.75	.69	.64	.73	.68	.64	.72	.67	.63	.70	.66	.63	.61
7.0	.71	.64	.60	.70	.64	.60	.69	.63	.59	.68	.63	.59	.66	.62	.59	.57
8.0	.67	.60	.56	.66	.60	.56	.65	.59	.56	.64	.59	.55	.63	.58	.55	.54
9.0	.63	.57	.52	.62	.56	.52	.61	.56	.52	.60	.56	.52	.60	.55	.52	.50
10.0	.59	.53	.49	.59	.53	.49	.58	.53	.49	.57	.52	.49	.57	.52	.49	.48



C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:JEFF

Test Date:23 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:

WEC AND CCEC

Test:U:239.9V I:0.0486A P:10.35W PF:0.8873 Lamp Flux:811.112x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_3000K CRI90_32 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	.206	.117	.037	.200	.114	.036	.187	.107	.034	.175	.101	.032	.164	.095	.031	
2.0	.195	.107	.033	.189	.104	.032	.178	.099	.031	.168	.094	.029	.159	.090	.028	
3.0	.183	.097	.029	.178	.095	.029	.168	.091	.028	.160	.088	.027	.152	.084	.026	
4.0	.172	.089	.026	.167	.088	.026	.159	.084	.025	.152	.081	.025	.145	.079	.024	
5.0	.162	.082	.024	.158	.081	.024	.151	.079	.023	.144	.076	.023	.138	.074	.022	
6.0	.153	.077	.022	.149	.075	.022	.143	.073	.021	.137	.071	.021	.132	.070	.021	
7.0	.145	.072	.020	.142	.071	.020	.136	.069	.020	.131	.067	.020	.126	.066	.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	.124	.061	.017	.120	.060	.017	.116	.059	.017	
10.0	.125	.060	.017	.123	.059	.017	.119	.058	.016	.115	.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	.049	.019	.017	.016	
2.0	.159	.132	.110	.136	.114	.095	.093	.079	.066	.054	.046	.039	.017	.015	.013	
3.0	.148	.114	.087	.127	.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	.129	.088	.057	.111	.076	.050	.076	.053	.035	.044	.031	.021	.014	.010	.007	
6.0	.122	.079	.048	.105	.068	.042	.072	.048	.030	.042	.028	.018	.014	.009	.006	
7.0	.115	.071	.041	.099	.062	.035	.068	.043	.025	.040	.026	.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	.089	.052	.026	.062	.037	.019	.036	.022	.011	.012	.007	.004	
10.0	.099	.056	.027	.085	.048	.023	.059	.034	.017	.035	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:23 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:0.0486A P:10.35W PF:0.8873 Lamp Flux:811.112x1 lm										
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_3000K CRI90_32 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	24.0	25.0	24.2	25.2	25.4	24.0	25.0	24.2	25.2	25.4
3H	24.8	25.7	25.0	25.9	26.1	24.9	25.9	25.2	26.1	26.3
4H	25.2	26.1	25.5	26.4	26.6	25.4	26.3	25.7	26.6	26.8
6H	25.6	26.5	25.9	26.7	27.0	25.9	26.8	26.2	27.0	27.3
8H	25.8	26.6	26.1	26.9	27.1	26.2	27.0	26.5	27.2	27.5
12H	25.9	26.7	26.2	27.0	27.3	26.3	27.1	26.6	27.4	27.7
4H 2H	24.2	25.1	24.4	25.3	25.5	24.2	25.1	24.5	25.3	25.6
3H	25.2	26.0	25.6	26.3	26.6	25.4	26.2	25.7	26.4	26.7
4H	25.9	26.6	26.2	26.9	27.2	26.1	26.8	26.4	27.1	27.4
6H	26.4	27.1	26.8	27.4	27.8	26.8	27.4	27.1	27.7	28.1
8H	26.7	27.3	27.1	27.6	28.0	27.1	27.7	27.5	28.0	28.4
12H	26.9	27.4	27.3	27.8	28.2	27.3	27.8	27.7	28.2	28.6
8H 4H	26.1	26.7	26.5	27.1	27.4	26.3	26.9	26.7	27.3	27.6
6H	26.9	27.4	27.3	27.8	28.2	27.2	27.7	27.6	28.1	28.5
8H	27.2	27.7	27.7	28.1	28.5	27.6	28.0	28.0	28.4	28.9
12H	27.5	27.9	28.0	28.3	28.8	27.9	28.3	28.4	28.7	29.2
12H 4H	26.1	26.7	26.6	27.1	27.5	26.3	26.9	26.7	27.2	27.6
6H	27.0	27.4	27.4	27.8	28.3	27.2	27.7	27.7	28.1	28.5
8H	27.3	27.7	27.8	28.2	28.6	27.7	28.1	28.2	28.5	29.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				
1.5H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				
2.0H	+ 0.8 / - 0.6					+ 0.7 / - 0.5				

CIE Pub.117 Corrected 811.1 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.7)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:23 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:0.0486A P:10.35W PF:0.8873 Lamp Flux:811.112x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_3000K CRI90_32 DEG		
MFR.: DARKON		

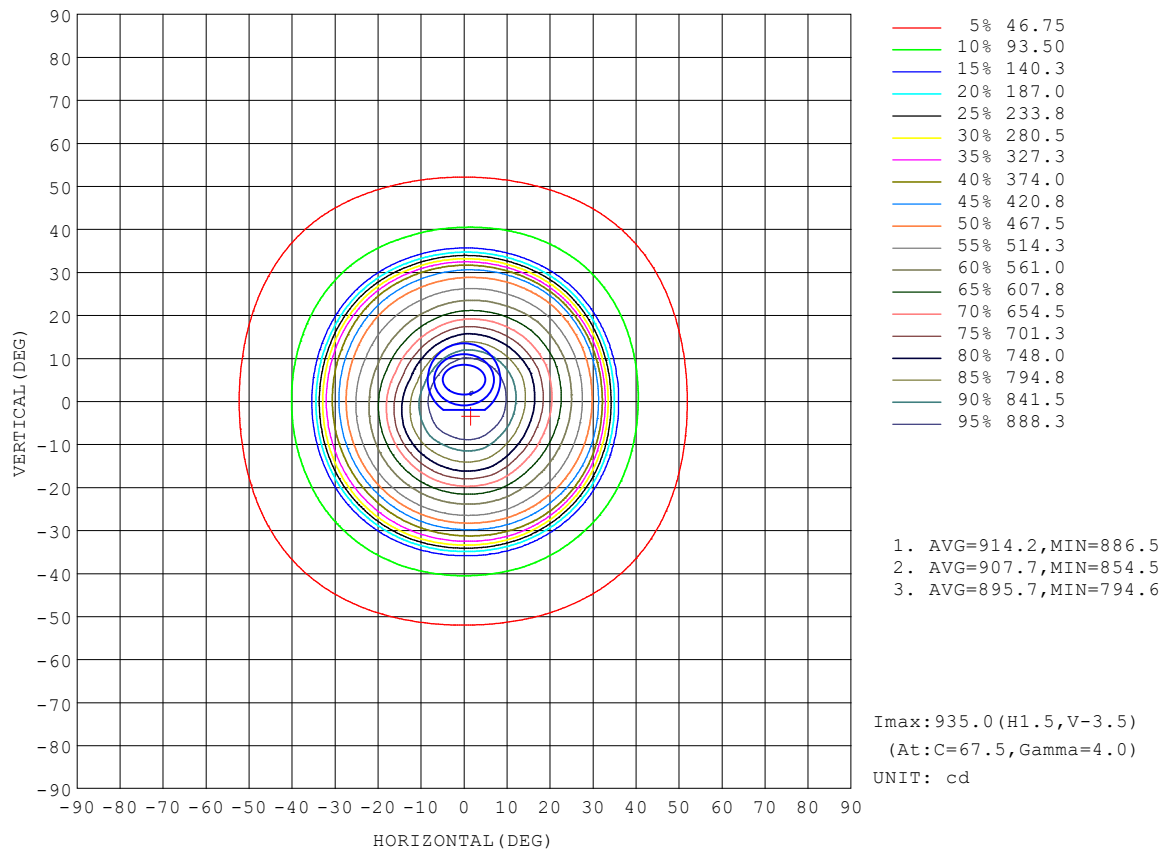
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	81	74	69	81	74	69	80	73	69	65
0.80	89	82	78	88	82	77	87	81	77	73
1.00	94	88	83	93	87	83	92	87	82	78
1.25	99	93	88	98	92	88	96	91	87	82
1.50	102	96	92	101	95	92	98	94	91	85
2.00	106	100	97	104	99	96	101	97	94	88
2.50	108	103	99	106	102	98	103	99	97	90
3.00	110	105	102	108	104	101	104	101	99	92
4.00	112	109	106	110	107	104	106	104	102	94
5.00	114	111	108	111	109	107	107	105	104	96
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: 23 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:

ISOCANDELA DIAGRAM

Test:U:239.9V I:0.0486A P:10.35W PF:0.8873 Lamp Flux:811.112x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_3000K CRI90_32 DEG		
MFR.: DARKON		

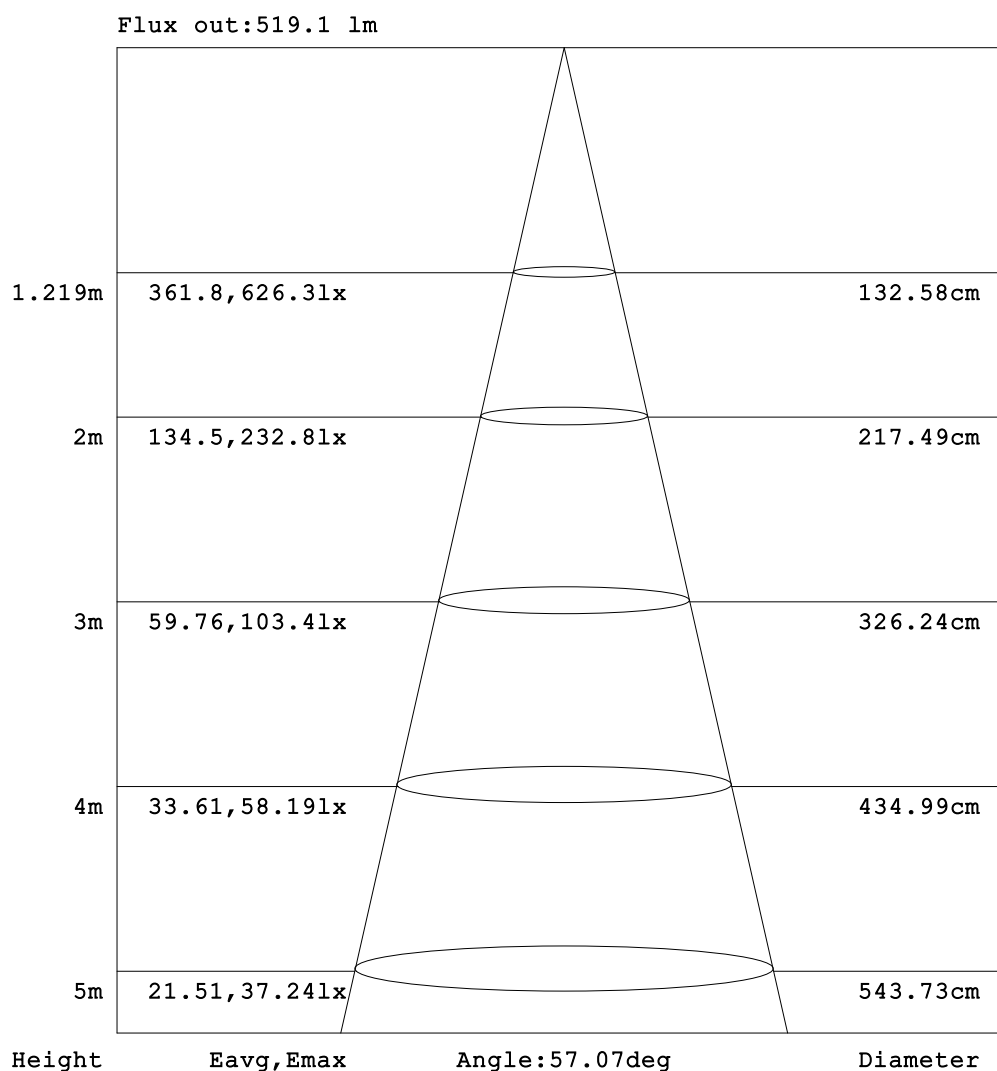


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:23 February 2023

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:0.0486A P:10.35W PF:0.8873 Lamp Flux:811.112x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_3000K CRI90_32 DEG		
MFR.: DARKON		



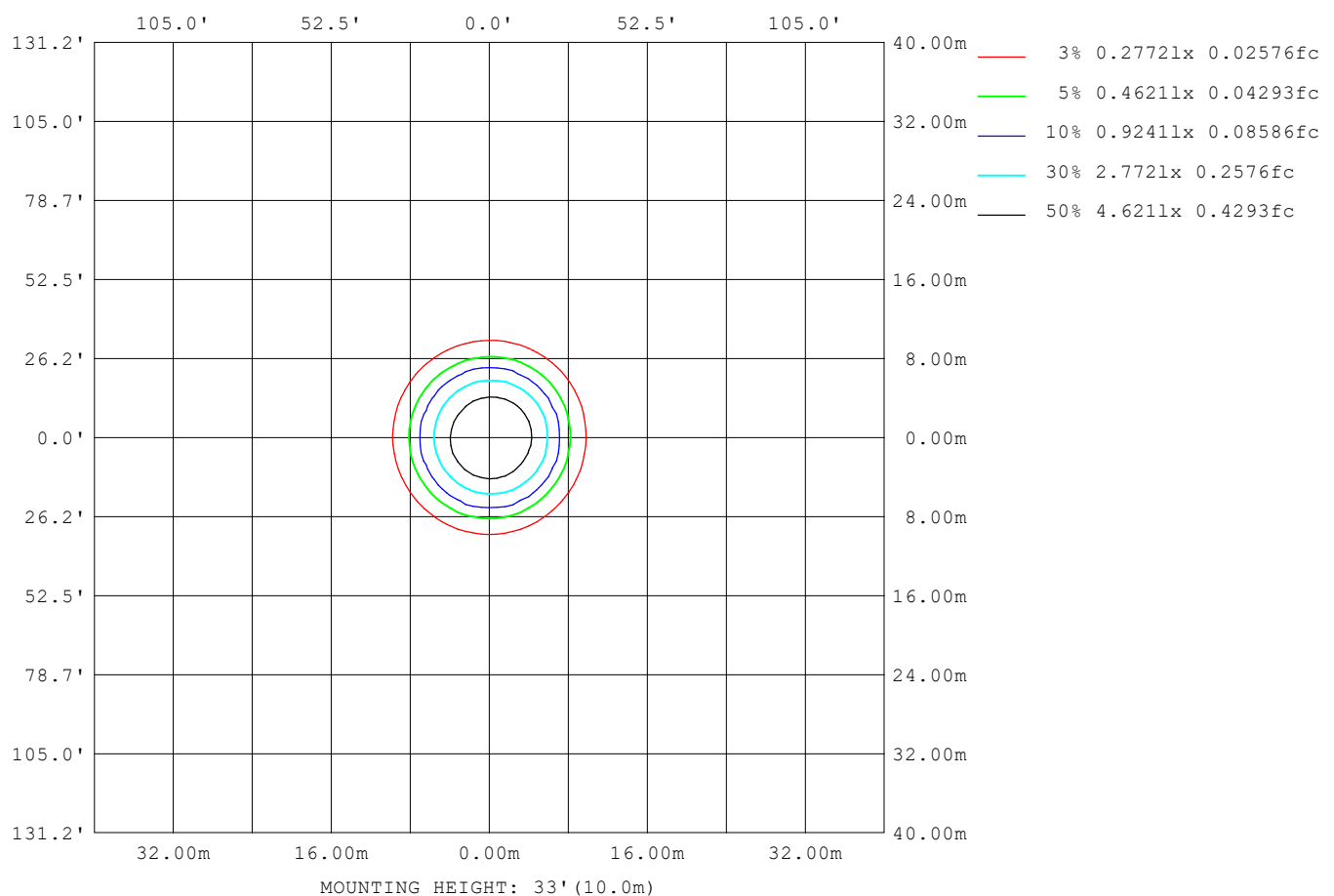
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JEFF
Test Date: 23 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:0.0486A P:10.35W PF:0.8873 Lamp Flux:811.112x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_3000K CRI90_32 DEG		
MFR.: DARKON		



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:23 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:0.0486A P:10.35W PF:0.8873 Lamp Flux:811.112x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_3000K CRI90_32 DEG		
MFR.: DARKON		

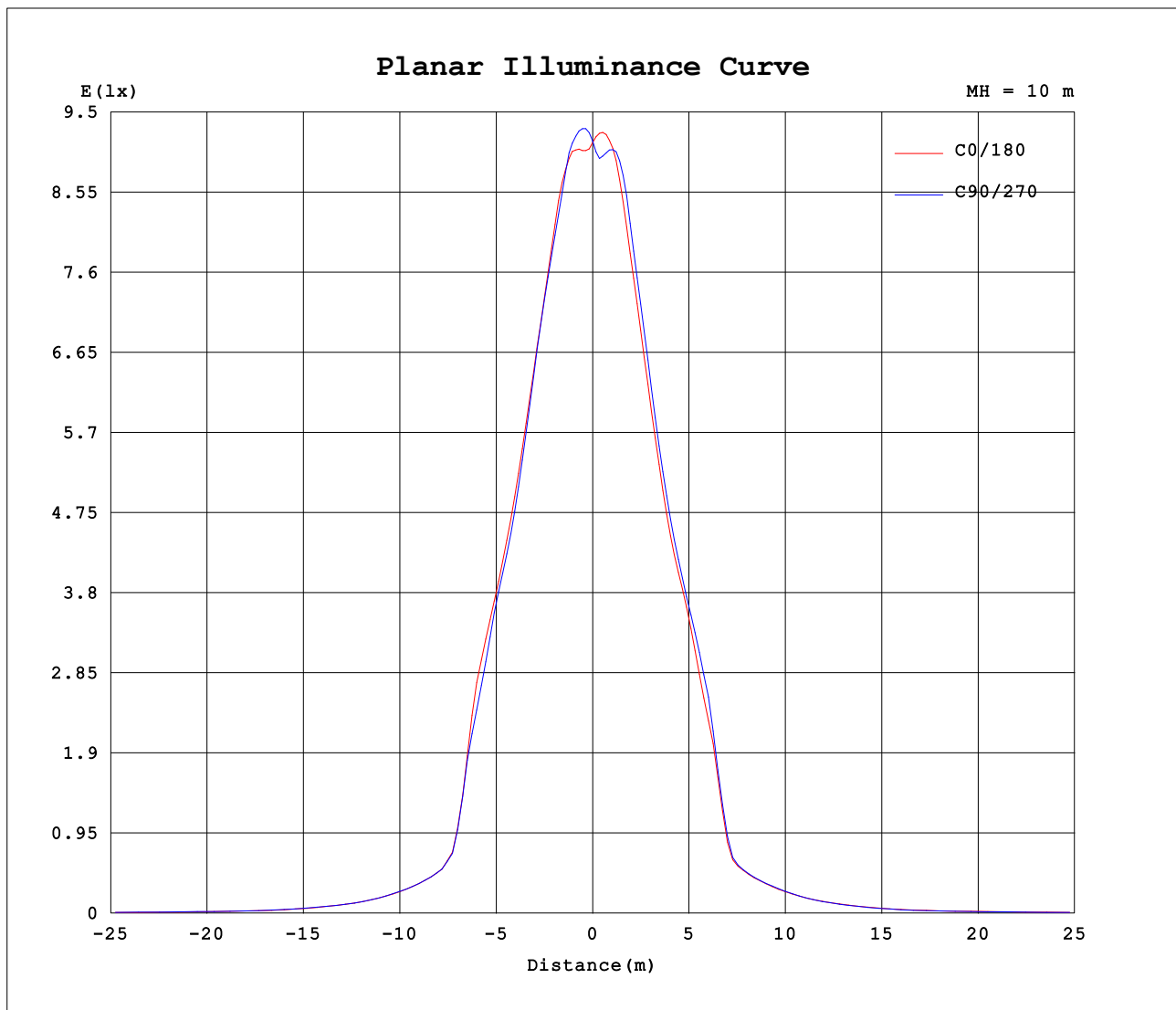
AvgL	cd/m2
L_0~180 (65) av	43877
L_0~180 (75) av	47417
L_0~180 (85) av	45844
L_90~270 (65) av	43445
L_90~270 (75) av	46962
L_90~270 (85) av	45590
L_45 (65) av	43621
L_45 (75) av	47157
L_45 (85) av	45718

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:23 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: 23 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:

