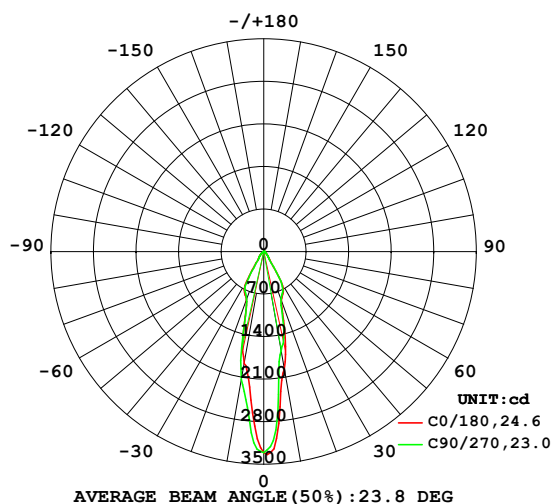


LUMINAIRE PHOTOMETRIC TEST REPORT

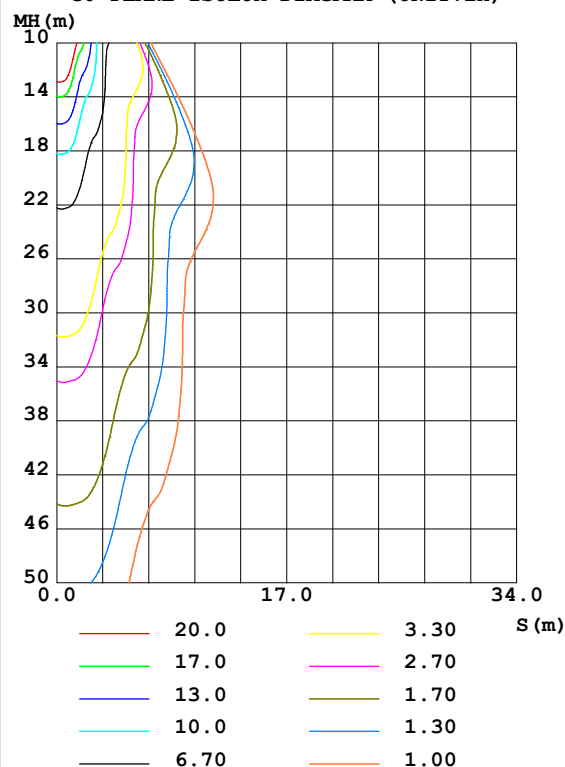
Test:U:239.9V I:0.0641A P:14.30W PF:0.9295 Lamp Flux:1149.25x1 lm		
NAME: DEEP DOWN MINI_CHROME REF_SLE G7 09mm_350mA_4000K CRI90_24 DEG		
MFR.: DARKON		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 80.39 lm/W			
MODEL	SLE G7 09mm 1200lm	Imax(cd)	3340	S/MH(C0/180)	0.39
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.44
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	1149.3	η UP,DN(C0-180)	0.0,50.1
NOMINAL FLUX(lm)	1149.25	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1963	1810	1665	1708	1872	2022	2142	2106	0- 10	227.7	227.7	19.8,19.8
20	855.4	842.1	837.3	834.9	835.5	827.5	835.0	846.6	10- 20	353.1	580.8	50.5,50.5
30	580.2	586.5	568.7	571.2	562.1	523.7	503.9	541.7	20- 30	334.7	915.5	79.7,79.7
40	124.4	127.7	125.2	126.9	123.8	118.1	116.0	120.4	30- 40	145.3	1061	92.3,92.3
50	52.59	55.52	55.50	51.55	49.02	47.86	48.68	49.82	40- 50	67.46	1128	98.2,98.2
60	3.049	3.680	3.506	2.904	2.530	2.391	2.394	2.514	50- 60	20.22	1149	99.9,99.9
70	0.1311	0.1419	0.1494	0.1387	0.0837	0.0909	0.0654	0.0729	60- 70	0.6446	1149	100,100
80	0.0365	0.0437	0.0364	0.0620	0.0255	0	0	0	70- 80	0.0607	1149	100,100
90	0.0036	0	0	0.0255	0.0255	0	0	0	80- 90	0.0168	1149	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): 1099.9 lm

%lum = 95.7%

%lamp = 95.7%

Conical surface Flux(120deg): 1148.5 lm

%lum = 99.9%

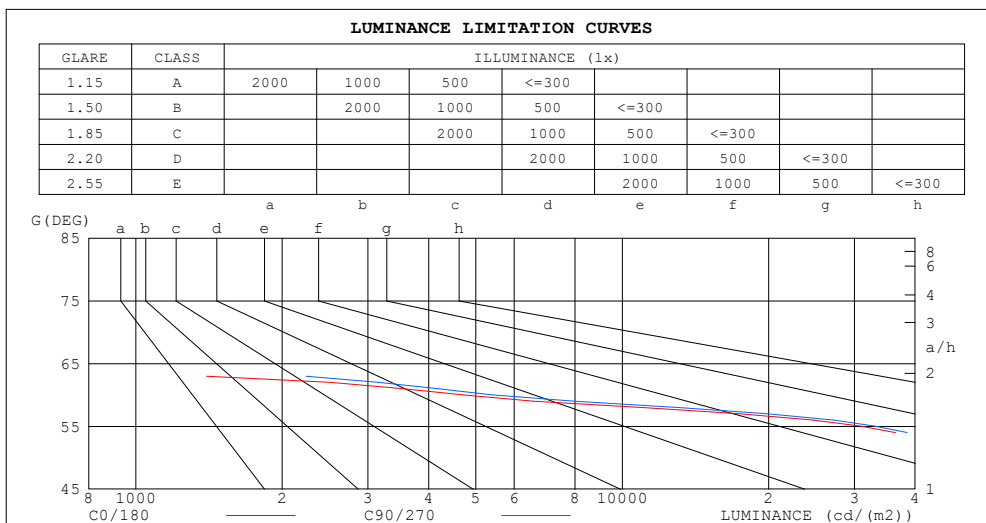
%lamp = 99.9%

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:

LUMINANCE LIMITATION CURVES

Test:U:239.9V I:0.0641A P:14.30W PF:0.9295 Lamp Flux:1149.25x1 lm		
NAME: DEEP DOWN MINI_CHROME REF_SLE G7 09mm_350mA_4000K CRI90_24 DEG		
MFR.: DARKON		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	193	161
80	162	161
75	227	228
70	295	336
65	392	431
60	4692	5395
55	30971	33111
50	62947	66439
45	97233	100842

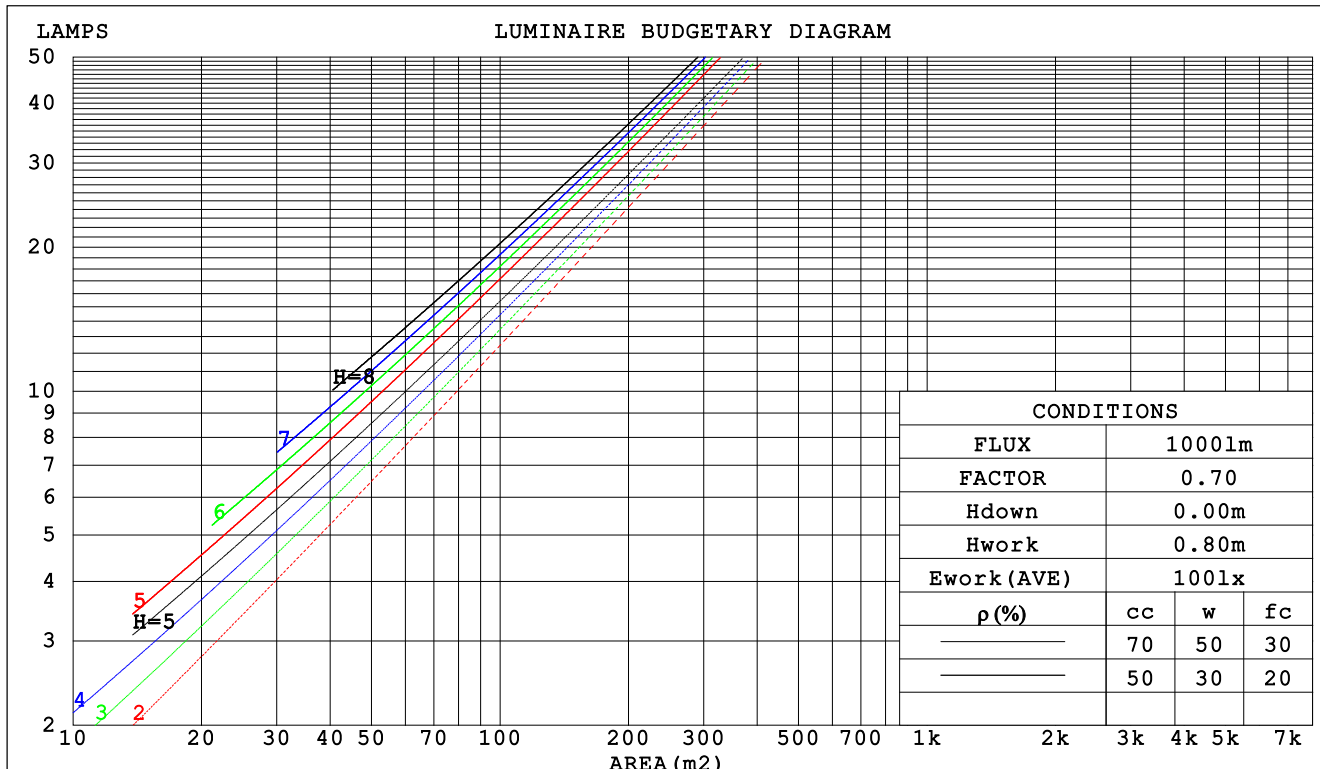
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:24 February 2023

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:14.30W PF:0.9295 Lamp Flux:1149.25x1 lm		
NAME: DEEP DOWN MINI_CHROME REF_SLE G7 09mm_350mA_4000K CRI90_24 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	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.04	1.02	1.02	1.00	.99	.98	.97	.96	.95
2.0	1.05	1.01	.98	1.03	.99	.97	.90	.97	.95	.97	.94	.93	.94	.92	.91	.89
3.0	.98	.94	.90	.97	.93	.89	.94	.91	.88	.92	.89	.87	.90	.87	.85	.84
4.0	.93	.88	.84	.92	.87	.83	.89	.85	.82	.87	.84	.81	.86	.83	.80	.79
5.0	.88	.82	.78	.87	.82	.78	.85	.81	.77	.83	.80	.77	.82	.79	.76	.75
6.0	.83	.78	.74	.82	.77	.73	.81	.76	.73	.79	.76	.73	.78	.75	.72	.71
7.0	.79	.73	.70	.78	.73	.69	.77	.72	.69	.76	.72	.69	.75	.71	.68	.67
8.0	.75	.70	.66	.75	.69	.66	.74	.69	.66	.73	.68	.65	.72	.68	.65	.64
9.0	.72	.66	.63	.71	.66	.63	.70	.66	.62	.69	.65	.62	.69	.65	.62	.61
10.0	.69	.63	.60	.68	.63	.60	.67	.63	.60	.67	.62	.59	.66	.62	.59	.58



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:

WEC AND CCEC

Test:U:239.9V I:0.0641A P:14.30W PF:0.9295 Lamp Flux:1149.25x1 lm		
NAME: DEEP DOWN MINI_CHROME REF_SLE G7 09mm_350mA_4000K CRI90_24 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	.165	.094	.030	.158	.090	.029	.145	.083	.027	.134	.077	.025	.123	.071	.023		
2.0	.157	.086	.026	.151	.083	.026	.141	.078	.024	.131	.074	.023	.122	.069	.022		
3.0	.149	.079	.024	.144	.077	.023	.135	.073	.022	.127	.070	.021	.119	.066	.020		
4.0	.141	.073	.022	.137	.072	.021	.130	.069	.021	.123	.066	.020	.116	.063	.019		
5.0	.134	.069	.020	.131	.067	.020	.124	.065	.019	.118	.062	.019	.112	.060	.018		
6.0	.128	.064	.018	.125	.063	.018	.119	.061	.018	.114	.059	.017	.109	.057	.017		
7.0	.122	.060	.017	.120	.060	.017	.115	.058	.017	.110	.056	.016	.105	.055	.016		
8.0	.117	.057	.016	.115	.056	.016	.110	.055	.016	.106	.054	.015	.102	.052	.015		
9.0	.112	.054	.015	.110	.054	.015	.106	.052	.015	.102	.051	.015	.098	.050	.014		
10.0	.107	.051	.014	.105	.051	.014	.102	.050	.014	.098	.049	.014	.095	.048	.014		

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	.170	.157	.146	.146	.135	.126	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.154	.133	.114	.132	.114	.099	.091	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.141	.113	.091	.121	.098	.079	.083	.068	.056	.048	.040	.033	.015	.013	.011	
4.0	.130	.099	.074	.112	.085	.065	.077	.059	.045	.044	.035	.027	.014	.011	.009	
5.0	.121	.087	.061	.104	.075	.053	.072	.052	.038	.042	.031	.022	.013	.010	.007	
6.0	.113	.077	.051	.097	.067	.045	.067	.047	.032	.039	.028	.019	.013	.009	.006	
7.0	.107	.070	.044	.092	.060	.038	.063	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.101	.063	.037	.087	.055	.033	.060	.038	.023	.035	.023	.014	.011	.007	.005	
9.0	.095	.058	.033	.082	.050	.028	.057	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.091	.053	.029	.078	.046	.025	.054	.033	.018	.032	.019	.011	.010	.006	.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:14.30W PF:0.9295 Lamp Flux:1149.25x1 lm										
NAME: DEEP DOWN MINI_CHROME REF_SLE G7 09mm_350mA_4000K CRI90_24 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	22.4	23.3	22.6	23.4	23.6	22.5	23.3	22.7	23.5	23.7
3H	22.2	23.0	22.5	23.2	23.4	22.3	23.1	22.6	23.3	23.5
4H	22.2	22.9	22.4	23.1	23.3	22.2	23.0	22.5	23.2	23.4
6H	22.1	22.8	22.4	23.0	23.3	22.1	22.8	22.4	23.1	23.3
8H	22.0	22.7	22.3	22.9	23.2	22.1	22.8	22.4	23.0	23.3
12H	22.0	22.6	22.3	22.9	23.2	22.0	22.7	22.4	23.0	23.2
4H 2H	22.2	22.9	22.5	23.2	23.4	22.2	23.0	22.5	23.2	23.4
3H	22.0	22.7	22.3	22.9	23.2	22.1	22.7	22.4	23.0	23.3
4H	21.9	22.5	22.3	22.8	23.1	22.0	22.6	22.3	22.9	23.2
6H	21.8	22.3	22.2	22.7	23.0	21.9	22.4	22.3	22.7	23.1
8H	21.8	22.2	22.2	22.6	23.0	21.8	22.3	22.2	22.7	23.0
12H	21.7	22.2	22.1	22.5	22.9	21.8	22.2	22.2	22.6	23.0
8H 4H	21.8	22.2	22.2	22.6	23.0	21.8	22.3	22.2	22.7	23.0
6H	21.7	22.1	22.1	22.4	22.9	21.7	22.1	22.1	22.5	22.9
8H	21.6	22.0	22.0	22.4	22.8	21.7	22.0	22.1	22.4	22.9
12H	21.5	21.8	22.0	22.3	22.8	21.6	21.9	22.1	22.3	22.8
12H 4H	21.7	22.2	22.1	22.5	22.9	21.8	22.2	22.2	22.6	23.0
6H	21.6	22.0	22.0	22.4	22.8	21.7	22.0	22.1	22.4	22.9
8H	21.5	21.8	22.0	22.3	22.8	21.6	21.9	22.1	22.3	22.8
Variations with the observer position at spacings:										
S = 1.0H	+ 2.4 / - 8.9					+ 2.4 / - 8.3				
1.5H	+ 2.1 / - 4.4					+ 1.8 / - 4.3				
2.0H	+ 5.2 / -25.9					+ 5.2 / -23.4				

CIE Pub.117 Corrected 1149 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: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:14.30W PF:0.9295 Lamp Flux:1149.25x1 lm		
NAME: DEEP DOWN MINI_CHROME REF_SLE G7 09mm_350mA_4000K CRI90_24 DEG		
MFR.: DARKON		

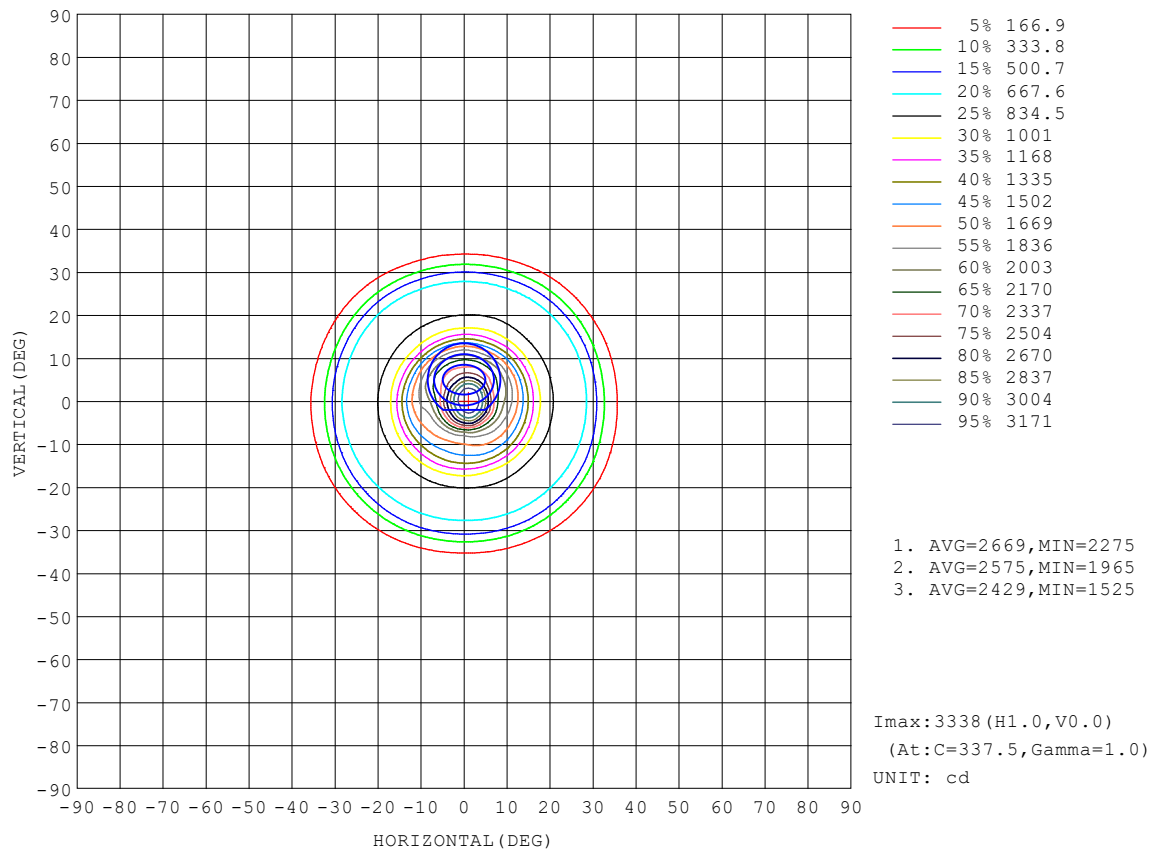
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	80	76	86	80	76	85	80	76	72
0.80	94	88	85	94	88	84	92	87	84	80
1.00	99	93	90	98	93	89	97	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	98	105	100	97	102	99	96	92
2.00	109	104	101	107	103	101	104	101	99	94
2.50	110	106	104	109	105	103	106	103	101	95
3.00	112	108	106	110	107	105	107	104	102	96
4.00	114	111	109	112	109	107	108	106	105	98
5.00	115	113	111	113	111	109	109	107	106	99
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: 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:

ISOCANDELA DIAGRAM

Test:U:239.9V I:0.0641A P:14.30W PF:0.9295 Lamp Flux:1149.25x1 lm		
NAME: DEEP DOWN MINI_CHROME REF_SLE G7 09mm_350mA_4000K CRI90_24 DEG		
MFR.: DARKON		

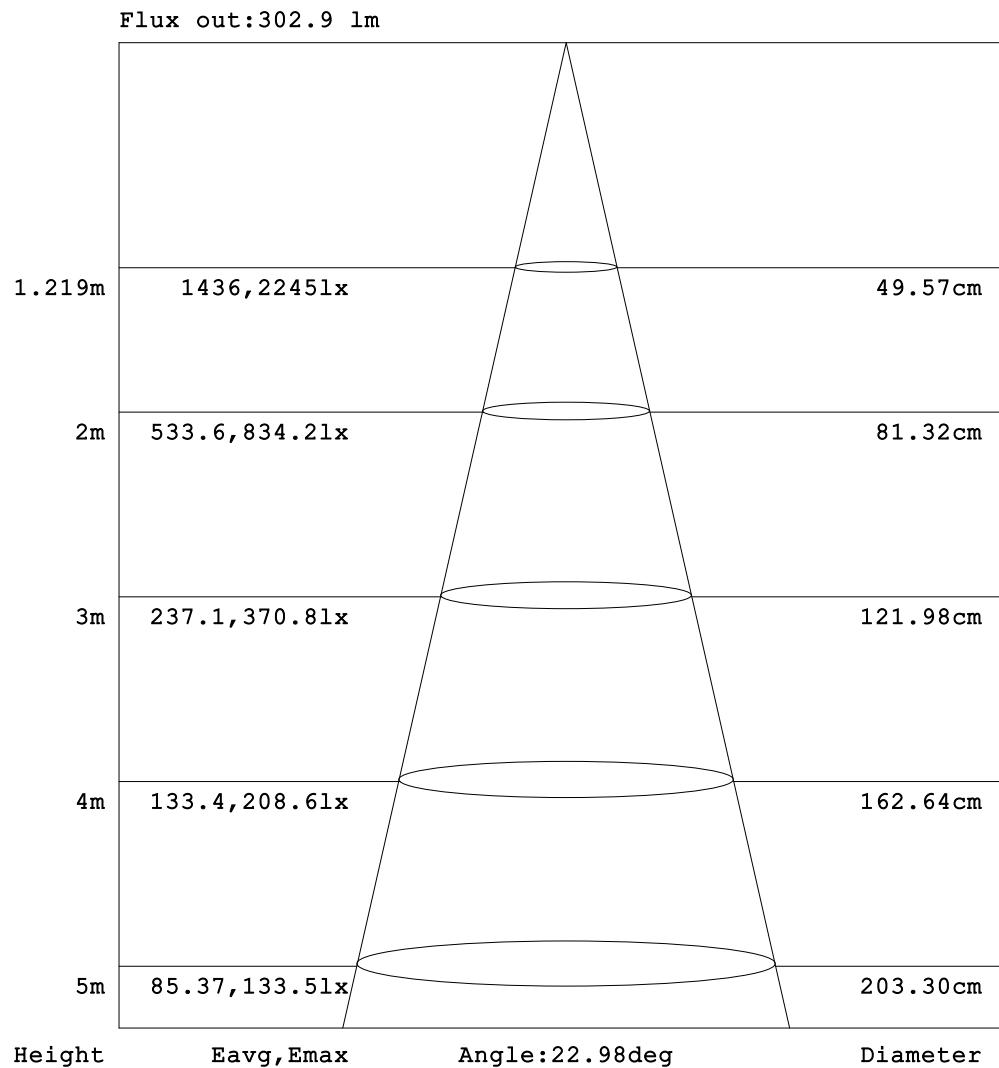


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:24 February 2023

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:14.30W PF:0.9295 Lamp Flux:1149.25x1 lm		
NAME: DEEP DOWN MINI_CHROME REF_SLE G7 09mm_350mA_4000K CRI90_24 DEG		
MFR.: DARKON		



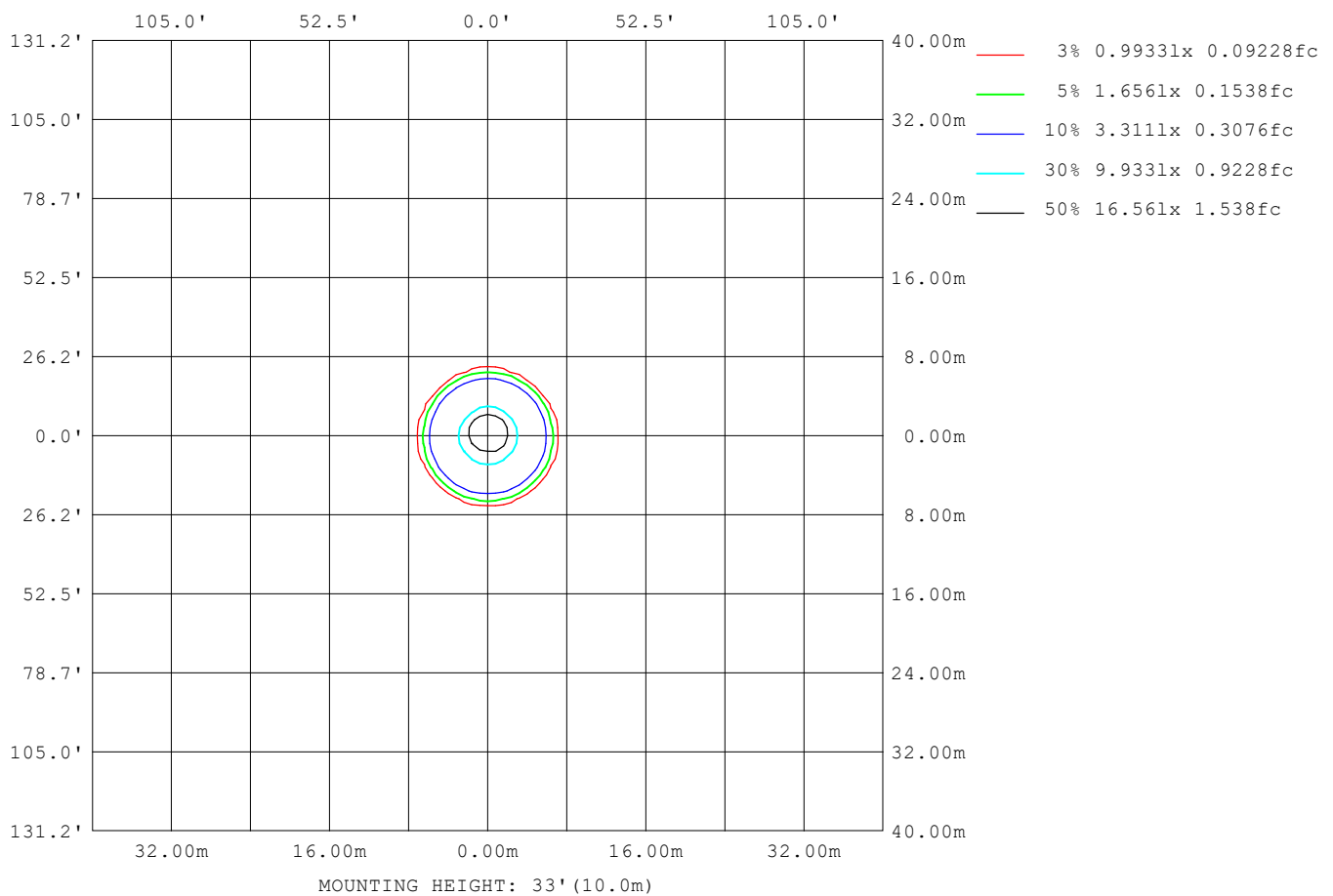
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:14.30W PF:0.9295 Lamp Flux:1149.25x1 lm		
NAME: DEEP DOWN MINI_CHROME REF_SLE G7 09mm_350mA_4000K CRI90_24 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:14.30W PF:0.9295 Lamp Flux:1149.25x1 lm		
NAME: DEEP DOWN MINI_CHROME REF_SLE G7 09mm_350mA_4000K CRI90_24 DEG		
MFR.: DARKON		

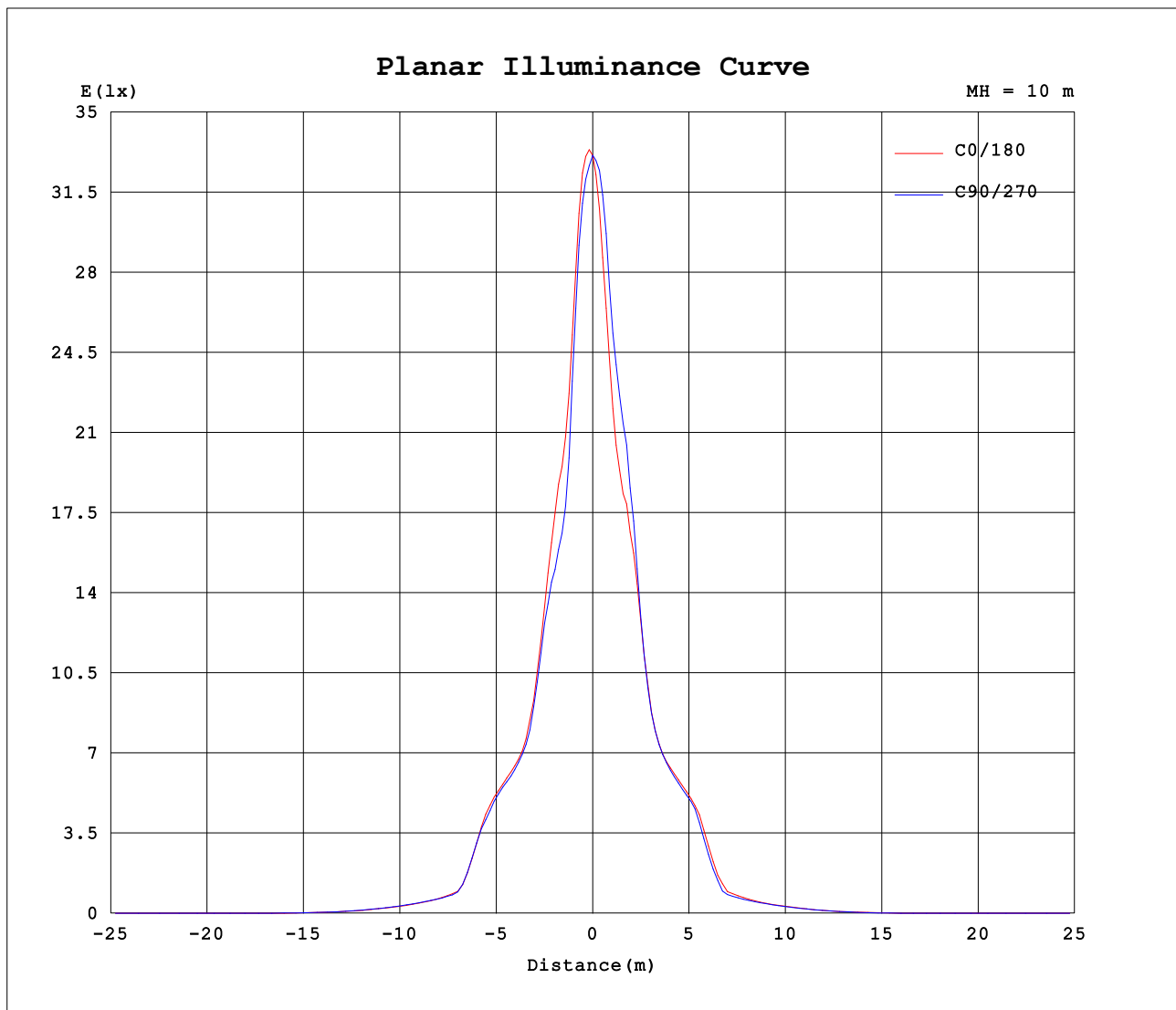
AvgL	cd/m2
L_0~180 (65) av	345
L_0~180 (75) av	195
L_0~180 (85) av	209
L_90~270 (65) av	331
L_90~270 (75) av	146
L_90~270 (85) av	80
L_45 (65) av	336
L_45 (75) av	165
L_45 (85) av	185

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

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:

