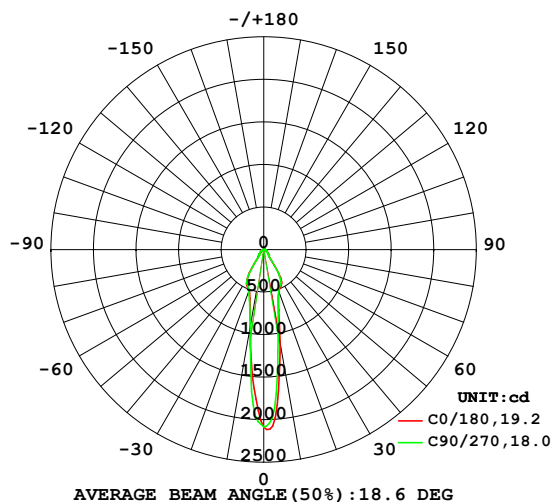


LUMINAIRE PHOTOMETRIC TEST REPORT

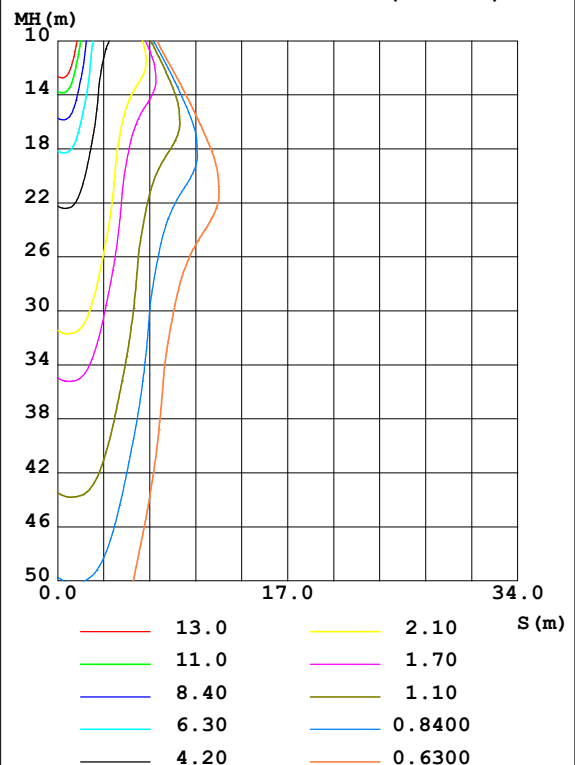
Test:U:239.9V I:0.0486A P:10.34W PF:0.8872 Lamp Flux:804.054x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_3000K CRI90_24 DEG		
MFR.: DARKON		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 77.74 lm/W			
MODEL	SLE G7 09mm 1200lm	Imax(cd)	2124	S/MH(C0/180)	0.30
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.29
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	804.05	η UP,DN(C0-180)	0.0,50.8
NOMINAL FLUX(lm)	804.054	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.2
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: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	1110	1072	981.4	945.0	923.0	896.3	910.3	1045	0- 10	135.5	135.5	16.9,16.9
20	528.9	516.9	517.8	504.6	511.2	502.8	517.1	519.9	10- 20	187.9	323.4	40.2,40.2
30	412.3	404.6	390.4	376.1	379.4	372.3	380.0	393.9	20- 30	211.9	535.3	66.6,66.6
40	99.19	94.00	92.44	96.77	97.92	94.37	92.71	95.23	30- 40	121.1	656.4	81.6,81.6
50	61.06	61.57	61.09	59.11	58.46	59.45	60.27	60.90	40- 50	61.35	717.8	89.3,89.3
60	27.40	27.72	28.21	28.78	29.21	28.82	28.07	27.46	50- 60	37.72	755.5	94,94
70	21.13	21.47	21.98	22.52	22.84	22.40	21.71	21.17	60- 70	25.11	780.6	97.1,97.1
80	10.73	11.19	11.60	11.94	12.04	11.52	10.94	10.66	70- 80	17.63	798.3	99.3,99.3
90	0.0949	0.0692	0.0618	0.1055	0.1278	0.0728	0.0763	0.0655	80- 90	5.799	804.1	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): 689.06 lm

%lum = 85.7%

%lamp = 85.7%

Conical surface Flux(120deg): 755.51 lm

%lum = 94.0%

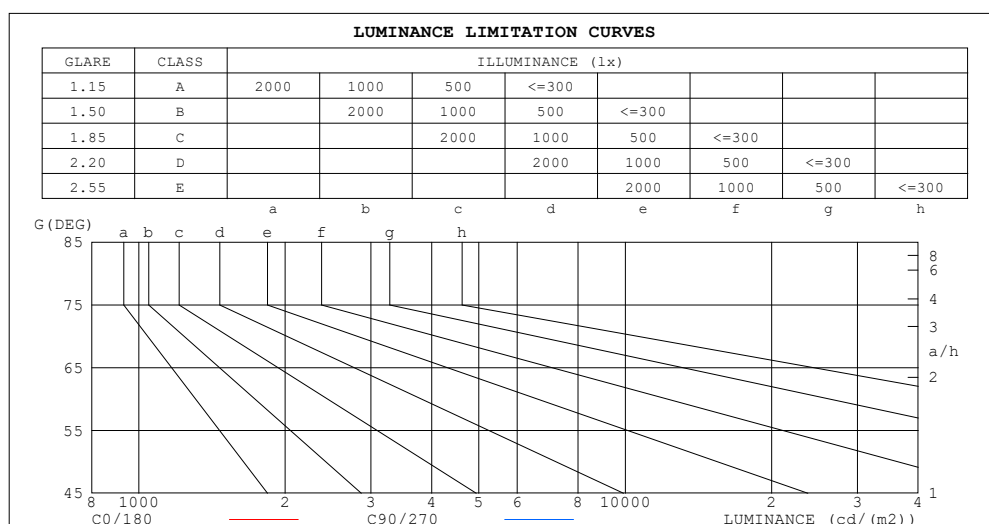
%lamp = 94.0%

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:10.34W PF:0.8872 Lamp Flux:804.054x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_3000K CRI90_24 DEG		
MFR.: DARKON		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	44701	50203
80	47404	51475
75	47633	50427
70	47403	49494
65	44829	46435
60	42040	43465
55	55987	57145
50	72876	73206
45	88874	86742

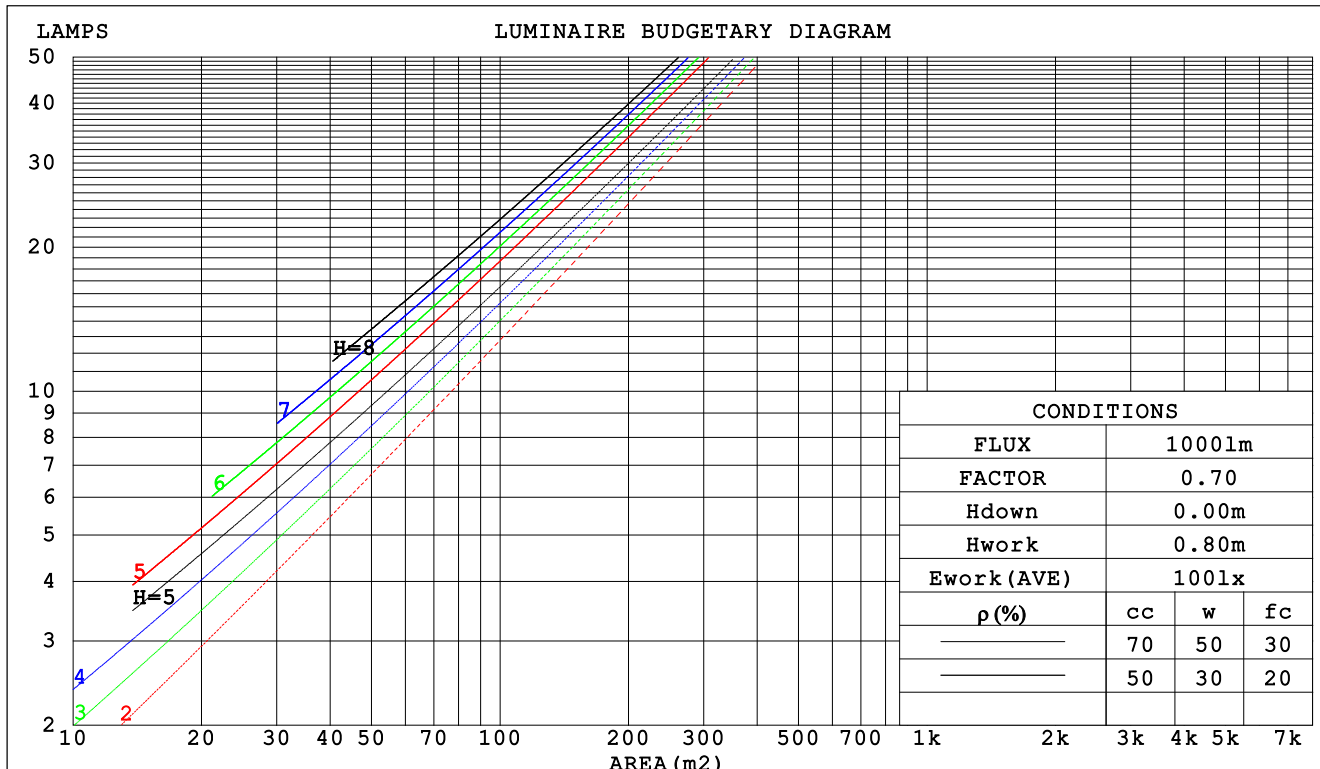
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JEFF
 Test Date:23 February 2023

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:10.34W PF:0.8872 Lamp Flux:804.054x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_3000K 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	1.09	1.07	1.04	1.07	1.05	1.02	1.03	1.01	.99	.99	.98	.96	.96	.95	.93	.92
2.0	1.01	.96	.93	.99	.95	.91	.96	.92	.89	.93	.90	.88	.90	.88	.86	.84
3.0	.93	.88	.84	.92	.87	.83	.89	.85	.82	.87	.83	.80	.85	.82	.79	.77
4.0	.87	.81	.77	.86	.80	.76	.84	.79	.75	.82	.78	.74	.80	.76	.73	.72
5.0	.81	.75	.71	.80	.75	.70	.79	.74	.70	.77	.73	.69	.75	.72	.68	.67
6.0	.77	.70	.66	.76	.70	.65	.74	.69	.65	.73	.68	.65	.71	.67	.64	.63
7.0	.72	.66	.62	.71	.66	.61	.70	.65	.61	.69	.64	.61	.68	.64	.60	.59
8.0	.68	.62	.58	.68	.62	.58	.67	.61	.57	.65	.61	.57	.64	.60	.57	.56
9.0	.65	.59	.55	.64	.58	.55	.63	.58	.54	.62	.58	.54	.61	.57	.54	.53
10.0	.62	.56	.52	.61	.55	.52	.60	.55	.52	.59	.55	.51	.59	.54	.51	.50



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:10.34W PF:0.8872 Lamp Flux:804.054x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_3000K 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	.204	.116	.037	.197	.113	.036	.185	.106	.034	.173	.100	.032	.162	.094	.030		
2.0	.192	.105	.032	.186	.103	.032	.175	.098	.030	.165	.093	.029	.156	.088	.028		
3.0	.180	.096	.029	.175	.094	.028	.166	.090	.027	.157	.086	.026	.149	.082	.026		
4.0	.168	.087	.026	.164	.086	.025	.156	.083	.025	.149	.080	.024	.142	.077	.023		
5.0	.158	.081	.023	.155	.079	.023	.148	.077	.023	.141	.074	.022	.135	.072	.022		
6.0	.149	.075	.021	.146	.074	.021	.140	.072	.021	.134	.070	.020	.129	.068	.020		
7.0	.141	.070	.020	.138	.069	.020	.133	.067	.019	.128	.065	.019	.123	.064	.019		
8.0	.134	.065	.018	.131	.065	.018	.126	.063	.018	.122	.062	.018	.117	.060	.018		
9.0	.127	.061	.017	.125	.061	.017	.120	.059	.017	.116	.058	.017	.112	.057	.016		
10.0	.121	.058	.016	.119	.057	.016	.115	.056	.016	.111	.055	.016	.108	.054	.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	.147	.114	.087	.126	.098	.075	.087	.068	.053	.050	.040	.031	.016	.013	.010		
4.0	.137	.099	.070	.117	.086	.061	.081	.060	.043	.047	.035	.025	.015	.011	.008		
5.0	.128	.088	.058	.110	.076	.050	.076	.053	.036	.044	.031	.021	.014	.010	.007		
6.0	.120	.078	.048	.103	.068	.042	.071	.048	.030	.041	.028	.018	.013	.009	.006		
7.0	.114	.071	.041	.098	.062	.036	.067	.043	.025	.039	.025	.015	.013	.008	.005		
8.0	.107	.065	.035	.093	.056	.031	.064	.039	.022	.037	.023	.013	.012	.008	.004		
9.0	.102	.059	.031	.088	.052	.027	.061	.036	.019	.035	.021	.011	.011	.007	.004		
10.0	.097	.055	.027	.084	.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: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:10.34W PF:0.8872 Lamp Flux:804.054x1 lm										
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_3000K 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	24.2	25.2	24.4	25.4	25.6	24.3	25.3	24.5	25.5	25.6
3H	25.1	26.0	25.3	26.2	26.4	25.2	26.1	25.4	26.3	26.5
4H	25.6	26.5	25.9	26.7	26.9	25.7	26.6	26.0	26.8	27.1
6H	26.0	26.9	26.3	27.1	27.4	26.2	27.0	26.5	27.3	27.5
8H	26.2	27.0	26.5	27.3	27.5	26.4	27.2	26.7	27.5	27.7
12H	26.3	27.1	26.6	27.4	27.6	26.5	27.3	26.9	27.6	27.9
4H 2H	24.4	25.3	24.7	25.5	25.8	24.5	25.4	24.8	25.6	25.8
3H	25.6	26.4	25.9	26.6	26.9	25.7	26.5	26.0	26.7	27.0
4H	26.3	27.0	26.6	27.3	27.6	26.4	27.1	26.7	27.4	27.7
6H	26.9	27.5	27.2	27.8	28.2	27.0	27.7	27.4	28.0	28.4
8H	27.1	27.7	27.5	28.1	28.4	27.3	27.9	27.7	28.3	28.6
12H	27.3	27.8	27.7	28.2	28.6	27.5	28.1	27.9	28.4	28.8
8H 4H	26.5	27.1	26.9	27.5	27.8	26.6	27.2	27.0	27.6	27.9
6H	27.3	27.8	27.7	28.2	28.6	27.5	27.9	27.9	28.3	28.8
8H	27.6	28.1	28.1	28.5	28.9	27.8	28.3	28.3	28.7	29.1
12H	27.9	28.3	28.4	28.7	29.2	28.1	28.5	28.6	29.0	29.4
12H 4H	26.5	27.1	26.9	27.4	27.8	26.6	27.2	27.1	27.6	27.9
6H	27.4	27.8	27.8	28.2	28.7	27.5	28.0	28.0	28.4	28.8
8H	27.8	28.1	28.2	28.6	29.0	28.0	28.3	28.4	28.8	29.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.3				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.2				
2.0H	+ 0.9 / - 0.7					+ 0.8 / - 0.6				

CIE Pub.117 Corrected 804.1 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: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:10.34W PF:0.8872 Lamp Flux:804.054x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_3000K CRI90_24 DEG		
MFR.: DARKON		

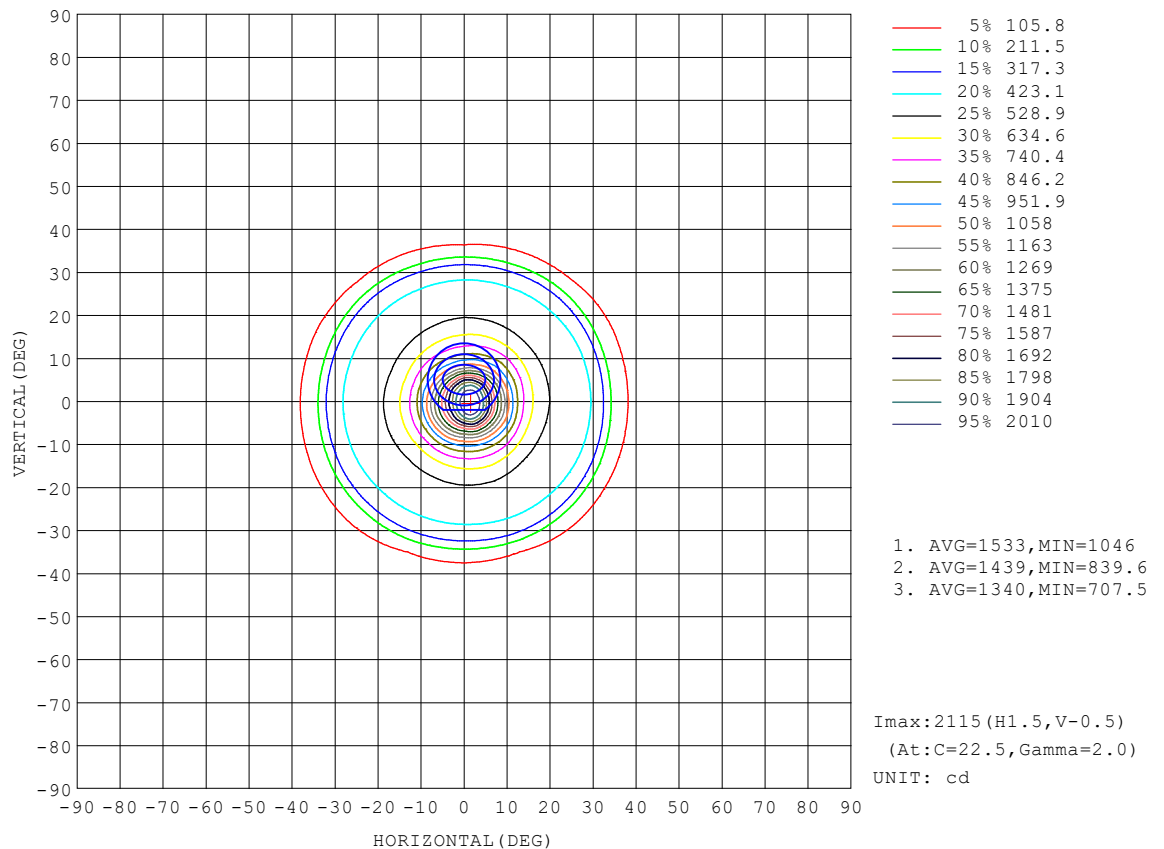
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	80	73	68	80	72	68	79	72	68	64
0.80	88	81	76	88	81	76	86	80	76	71
1.00	94	87	82	93	86	82	91	86	81	77
1.25	98	92	88	97	91	87	95	90	86	81
1.50	102	96	91	100	95	91	98	93	90	85
2.00	105	100	96	104	99	95	101	97	94	88
2.50	107	103	99	106	101	98	102	99	96	90
3.00	109	105	102	107	104	101	104	101	98	92
4.00	112	108	106	110	107	104	106	104	101	94
5.00	113	110	108	111	109	106	107	105	103	95
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:10.34W PF:0.8872 Lamp Flux:804.054x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_3000K CRI90_24 DEG		
MFR.: DARKON		

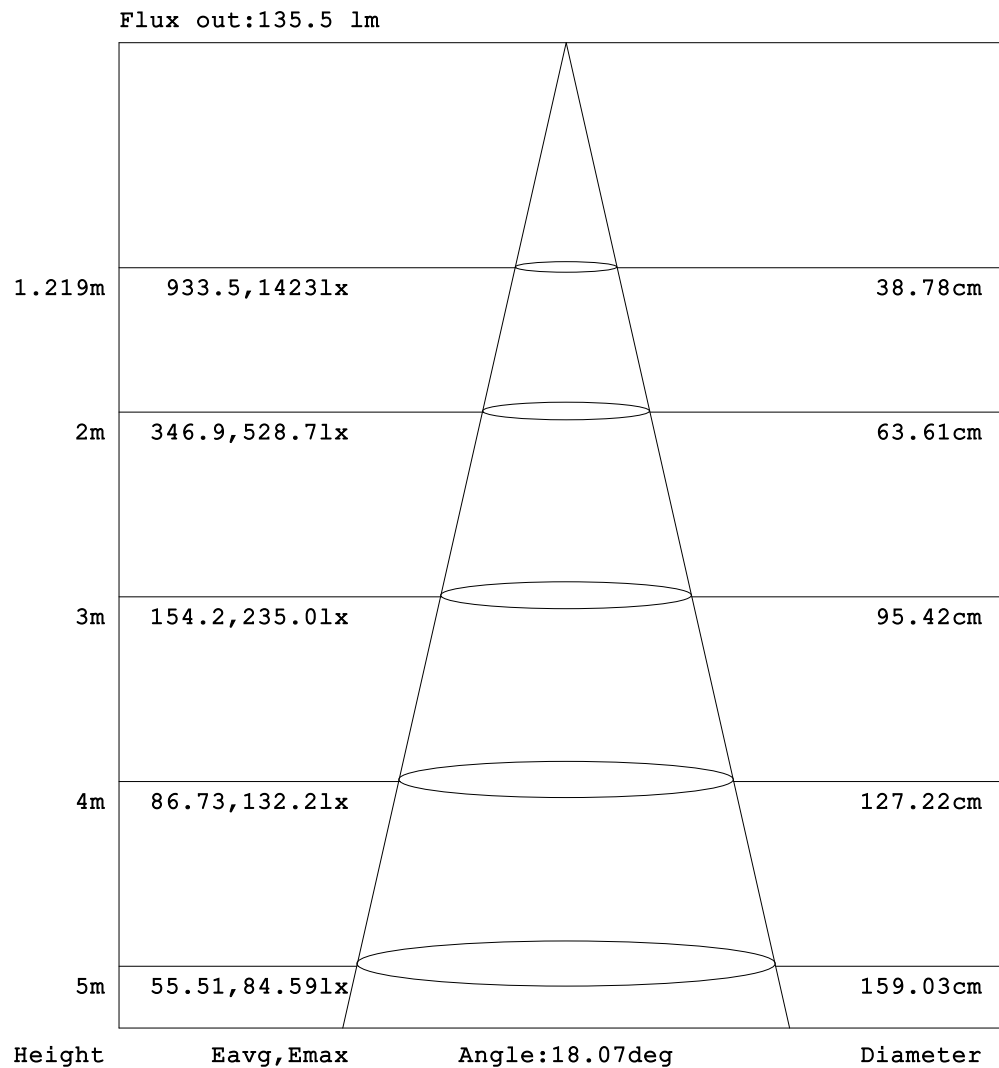


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:23 February 2023

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:10.34W PF:0.8872 Lamp Flux:804.054x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_3000K CRI90_24 DEG		
MFR.: DARKON		



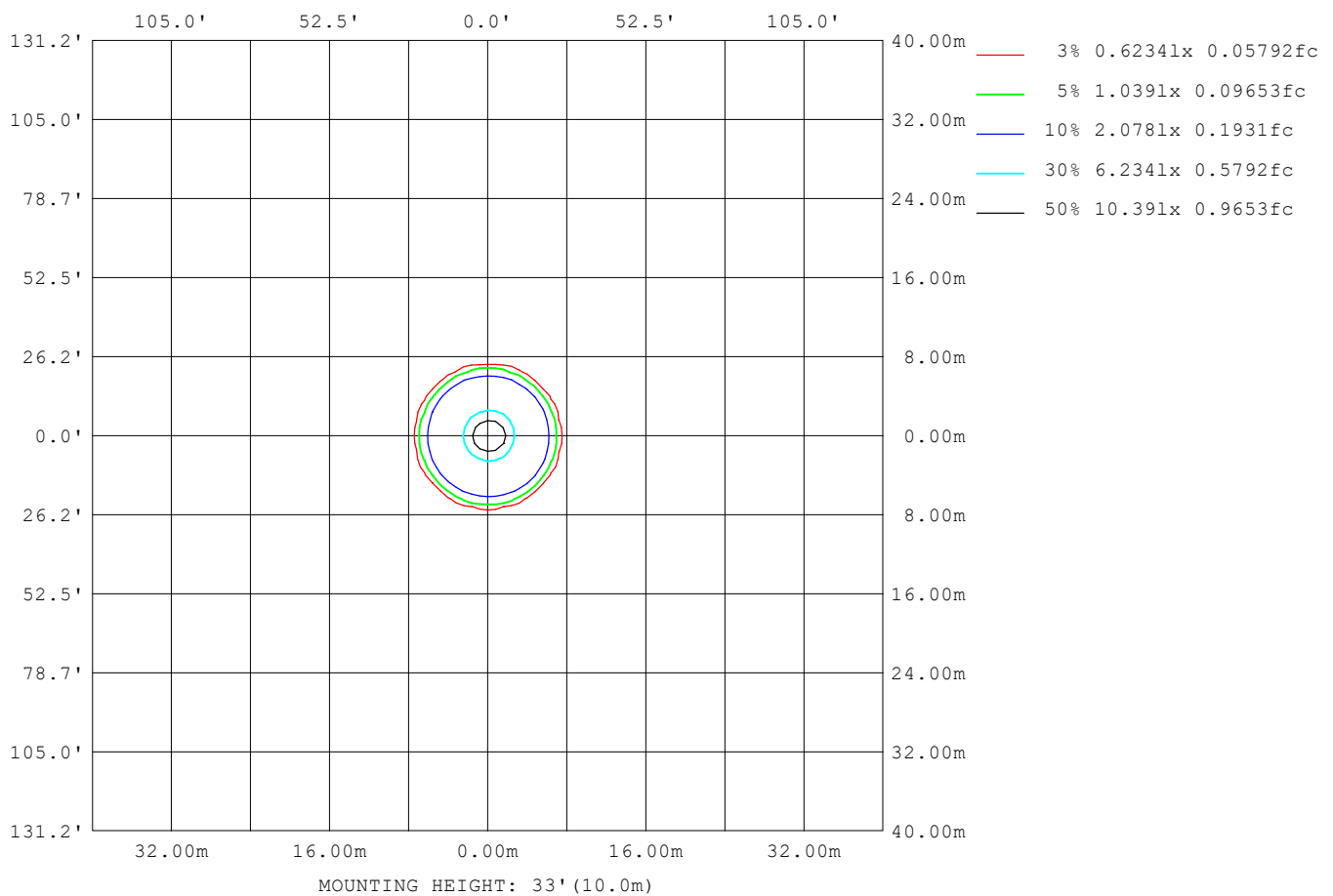
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JEFF
Test Date: 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:10.34W PF:0.8872 Lamp Flux:804.054x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_3000K CRI90_24 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:10.34W PF:0.8872 Lamp Flux:804.054x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_3000K CRI90_24 DEG		
MFR.: DARKON		

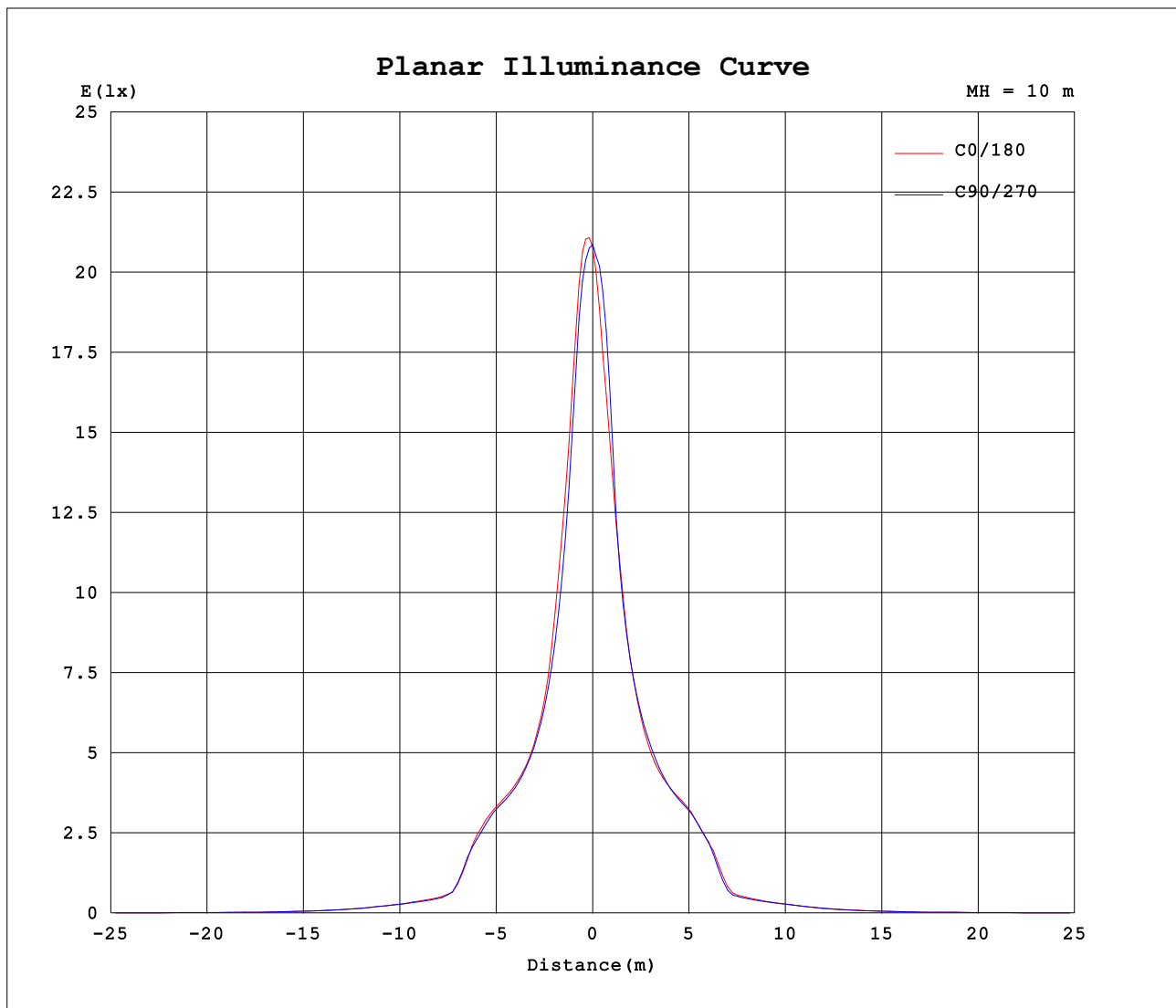
AvgL	cd/m2
L_0~180 (65) av	46676
L_0~180 (75) av	49943
L_0~180 (85) av	47777
L_90~270 (65) av	46315
L_90~270 (75) av	49578
L_90~270 (85) av	47246
L_45 (65) av	46460
L_45 (75) av	49744
L_45 (85) av	47428

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:

