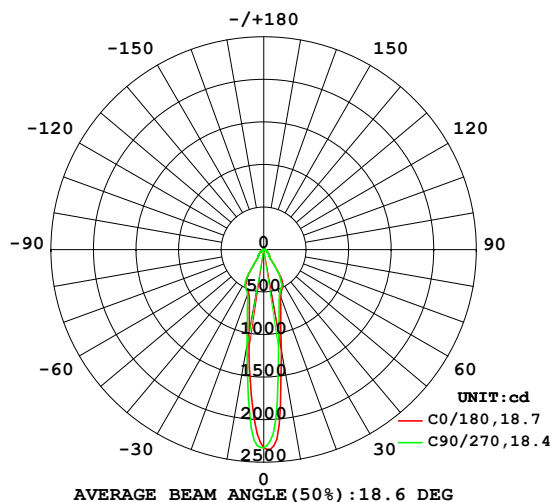


LUMINAIRE PHOTOMETRIC TEST REPORT

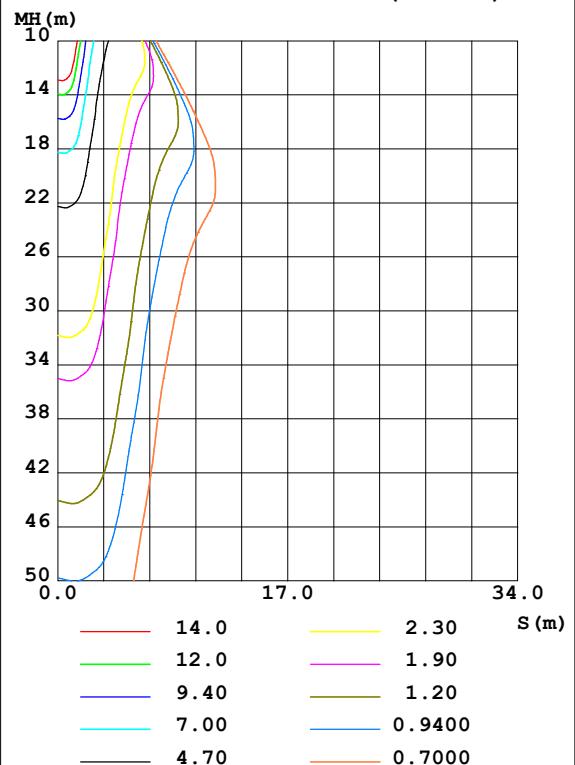
Test:U:240.0V I:0.0488A P:10.40W PF:0.8871 Lamp Flux:875.277x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_4000K CRI90_24 DEG		
MFR.: DARKON		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 84.20 lm/W			
MODEL	SLE G7 09mm 1200lm	Imax(cd)	2356	S/MH(C0/180)	0.30
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.33
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	875.28	η UP,DN(C0-180)	0.0,49.8
NOMINAL FLUX(lm)	875.277	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.2
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	1195	1091	1028	974.5	1001	1072	1132	1235	0- 10	151.3	151.3	17.3,17.3
20	585.1	567.8	552.3	538.4	537.0	539.4	563.8	592.2	10- 20	206.0	357.3	40.8,40.8
30	438.1	424.8	397.4	387.6	398.7	415.1	433.0	442.3	20- 30	228.5	585.8	66.9,66.9
40	106.8	106.9	102.1	102.1	104.6	105.1	100.8	102.3	30- 40	129.6	715.3	81.7,81.7
50	67.52	67.57	65.47	63.62	62.79	63.46	65.38	66.91	40- 50	66.67	782.0	89.3,89.3
60	29.98	30.51	31.02	31.33	31.09	30.40	29.86	29.80	50- 60	40.85	822.8	94,94
70	23.10	23.71	24.30	24.56	24.23	23.54	23.02	22.89	60- 70	27.13	850.0	97.1,97.1
80	11.81	12.45	12.92	12.98	12.66	11.99	11.53	11.54	70- 80	19.05	869.0	99.3,99.3
90	0.1020	0.0728	0.0691	0.1348	0.1602	0.0691	0.0764	0.1020	80- 90	6.262	875.3	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): 750.76 lm

%lum = 85.8%

%lamp = 85.8%

Conical surface Flux(120deg): 822.83 lm

%lum = 94.0%

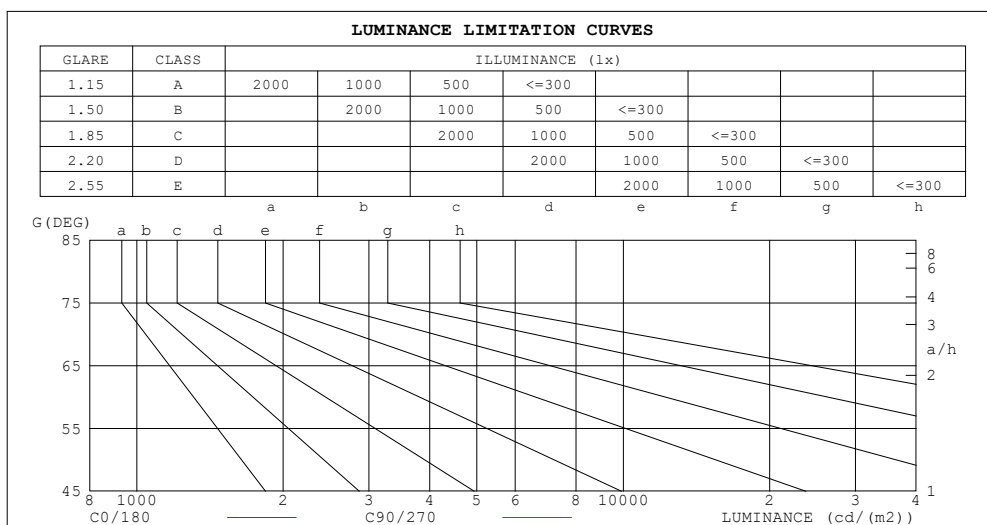
%lamp = 94.0%

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:240.0V I:0.0488A P:10.40W PF:0.8871 Lamp Flux:875.277x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_4000K CRI90_24 DEG		
MFR.: DARKON		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	50941	54680
80	52299	57247
75	52341	55863
70	51943	54679
65	48883	51254
60	46107	47752
55	61117	61887
50	80783	78380
45	97208	95163

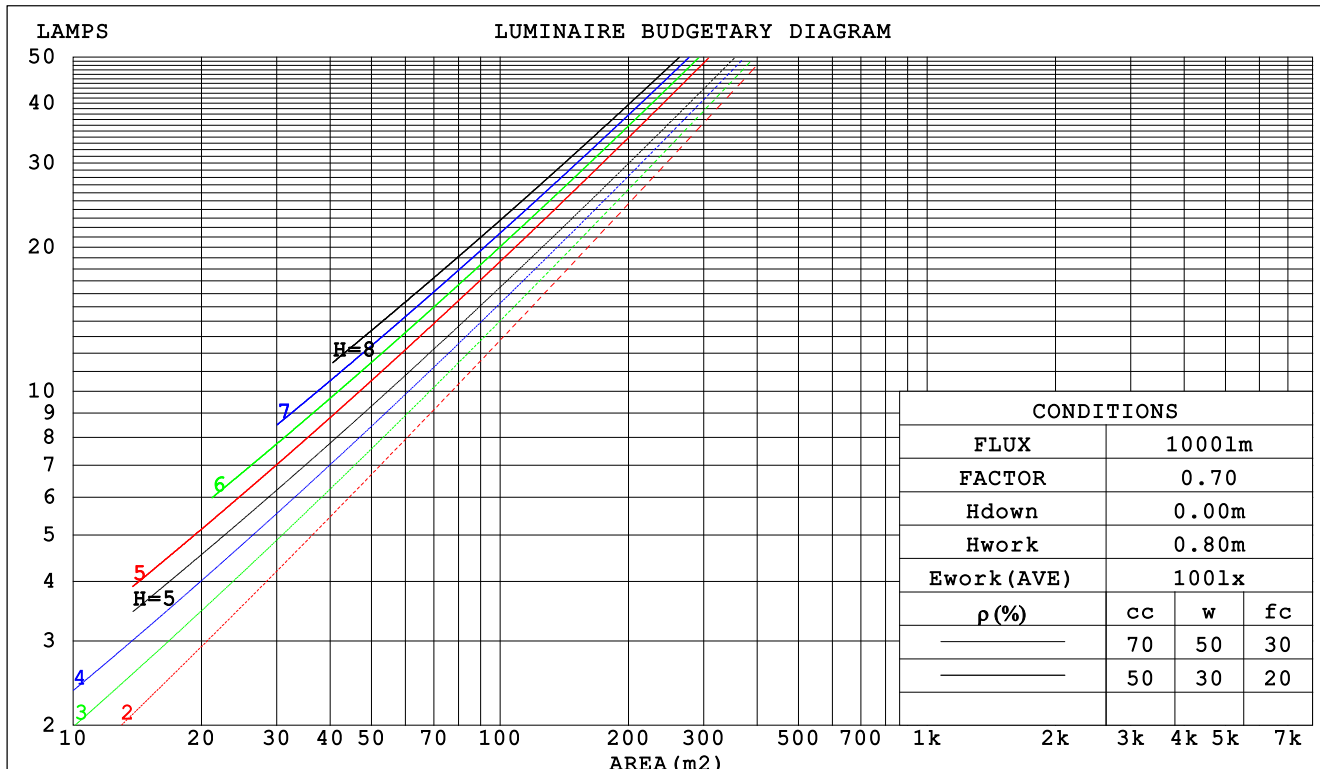
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JEFF
Test Date: 23 February 2023

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:240.0V I:0.0488A P:10.40W PF:0.8871 Lamp Flux:875.277x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_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	1.09	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	.92	.96	.92	.90	.93	.90	.88	.90	.88	.86	.84
3.0	.94	.88	.84	.92	.87	.83	.89	.85	.82	.87	.83	.80	.85	.82	.79	.78
4.0	.87	.81	.77	.86	.81	.76	.84	.79	.75	.82	.78	.74	.80	.76	.74	.72
5.0	.82	.75	.71	.81	.75	.71	.79	.74	.70	.77	.73	.69	.76	.72	.69	.67
6.0	.77	.70	.66	.76	.70	.66	.74	.69	.65	.73	.68	.65	.72	.68	.64	.63
7.0	.72	.66	.62	.72	.66	.62	.70	.65	.61	.69	.64	.61	.68	.64	.61	.59
8.0	.68	.62	.58	.68	.62	.58	.67	.62	.58	.66	.61	.58	.65	.60	.57	.56
9.0	.65	.59	.55	.64	.59	.55	.64	.58	.55	.63	.58	.54	.62	.57	.54	.53
10.0	.62	.56	.52	.61	.56	.52	.61	.55	.52	.60	.55	.52	.59	.55	.52	.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:240.0V I:0.0488A P:10.40W PF:0.8871 Lamp Flux:875.277x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_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	.203	.116	.037	.197	.112	.036	.184	.105	.034	.172	.099	.032	.161	.094	.030	
2.0	.191	.105	.032	.185	.102	.031	.175	.097	.030	.165	.092	.029	.155	.088	.028	
3.0	.179	.095	.029	.174	.093	.028	.165	.089	.027	.156	.086	.026	.148	.082	.025	
4.0	.168	.087	.026	.163	.085	.025	.155	.082	.025	.148	.079	.024	.141	.077	.023	
5.0	.157	.080	.023	.154	.079	.023	.147	.076	.023	.140	.074	.022	.134	.072	.022	
6.0	.148	.074	.021	.145	.073	.021	.139	.071	.021	.133	.069	.020	.128	.067	.020	
7.0	.140	.069	.020	.137	.068	.020	.132	.067	.019	.127	.065	.019	.122	.063	.019	
8.0	.133	.065	.018	.130	.064	.018	.126	.063	.018	.121	.061	.018	.117	.060	.017	
9.0	.126	.061	.017	.124	.060	.017	.120	.059	.017	.116	.058	.017	.112	.057	.016	
10.0	.120	.058	.016	.118	.057	.016	.114	.056	.016	.111	.055	.016	.107	.054	.015	

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	.076	.086	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.137	.099	.070	.117	.086	.061	.081	.060	.043	.047	.035	.026	.015	.011	.008	
5.0	.128	.088	.058	.110	.076	.050	.076	.053	.036	.044	.031	.021	.014	.010	.007	
6.0	.120	.078	.049	.103	.068	.042	.071	.048	.030	.041	.028	.018	.013	.009	.006	
7.0	.113	.071	.041	.097	.061	.036	.067	.043	.025	.039	.025	.015	.013	.008	.005	
8.0	.107	.065	.035	.092	.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	.083	.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:240.0V I:0.0488A P:10.40W PF:0.8871 Lamp Flux:875.277x1 lm										
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_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	24.5	25.5	24.7	25.7	25.8	24.4	25.4	24.7	25.6	25.8
3H	25.4	26.3	25.6	26.5	26.7	25.4	26.3	25.7	26.5	26.8
4H	25.9	26.8	26.2	27.0	27.2	26.0	26.9	26.3	27.1	27.3
6H	26.3	27.2	26.6	27.4	27.7	26.5	27.3	26.8	27.6	27.8
8H	26.5	27.3	26.8	27.6	27.9	26.7	27.5	27.0	27.8	28.0
12H	26.7	27.4	27.0	27.7	28.0	26.8	27.6	27.2	27.9	28.2
4H 2H	24.7	25.6	25.0	25.8	26.1	24.7	25.6	25.0	25.8	26.0
3H	25.9	26.7	26.2	27.0	27.2	25.9	26.7	26.3	27.0	27.3
4H	26.6	27.3	26.9	27.6	27.9	26.7	27.4	27.0	27.7	28.0
6H	27.2	27.8	27.6	28.2	28.5	27.4	28.0	27.8	28.3	28.7
8H	27.5	28.0	27.9	28.4	28.8	27.7	28.2	28.1	28.6	29.0
12H	27.7	28.2	28.1	28.6	29.0	27.9	28.4	28.3	28.8	29.2
8H 4H	26.9	27.4	27.3	27.8	28.2	26.9	27.5	27.3	27.9	28.3
6H	27.6	28.1	28.1	28.5	28.9	27.8	28.3	28.2	28.7	29.1
8H	28.0	28.4	28.5	28.9	29.3	28.2	28.6	28.6	29.0	29.5
12H	28.3	28.7	28.8	29.1	29.6	28.5	28.9	29.0	29.3	29.8
12H 4H	26.9	27.4	27.3	27.8	28.2	27.0	27.5	27.4	27.9	28.3
6H	27.7	28.2	28.2	28.6	29.0	27.9	28.3	28.3	28.7	29.2
8H	28.1	28.5	28.6	28.9	29.4	28.3	28.7	28.8	29.1	29.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.3				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
2.0H	+ 0.9 / - 0.7					+ 0.8 / - 0.6				

CIE Pub.117 Corrected 875.3 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: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:240.0V I:0.0488A P:10.40W PF:0.8871 Lamp Flux:875.277x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_4000K CRI90_24 DEG		
MFR.: DARKON		

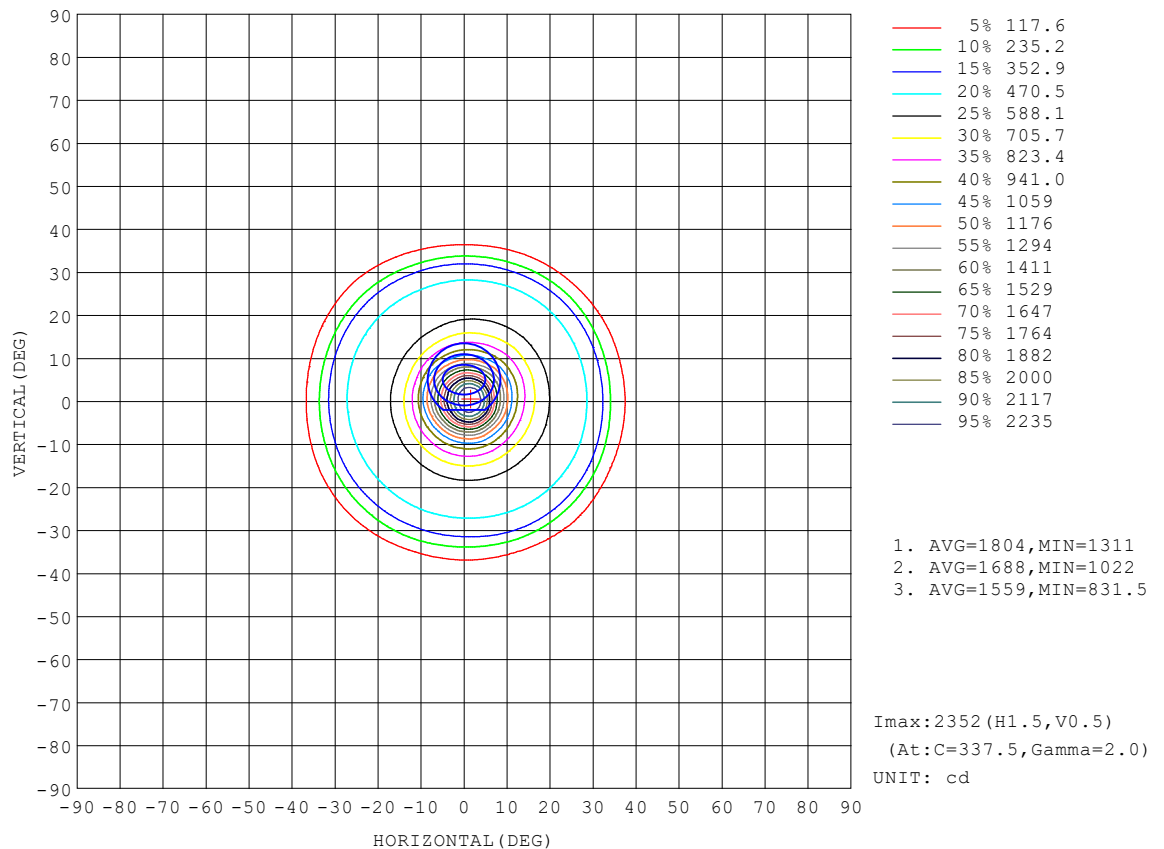
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	80	73	68	80	72	68	79	72	68	64
0.80	88	81	76	88	81	76	86	80	76	72
1.00	94	87	82	93	86	82	91	87	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	108	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	107	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:240.0V I:0.0488A P:10.40W PF:0.8871 Lamp Flux:875.277x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_4000K CRI90_24 DEG		
MFR.: DARKON		

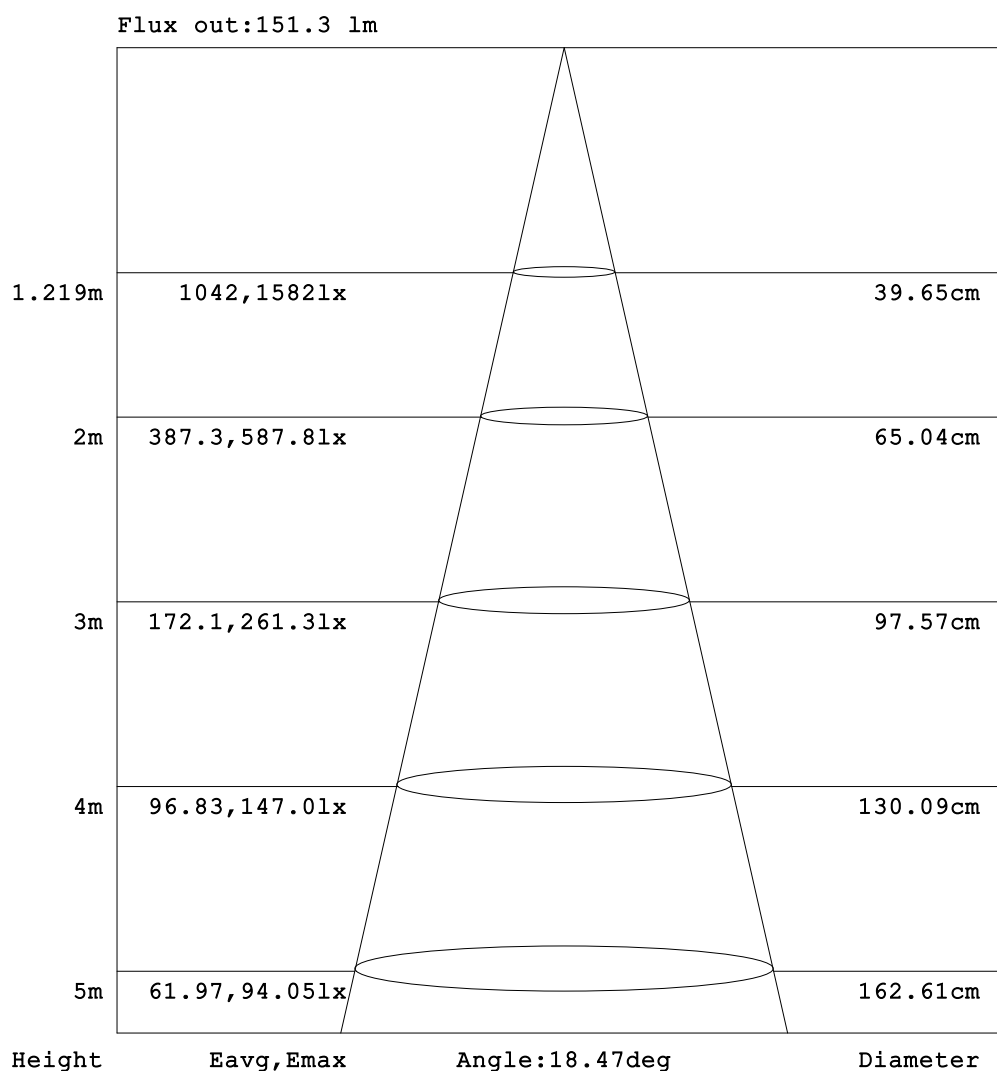


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:23 February 2023

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:240.0V I:0.0488A P:10.40W PF:0.8871 Lamp Flux:875.277x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_4000K CRI90_24 DEG		
MFR.: DARKON		



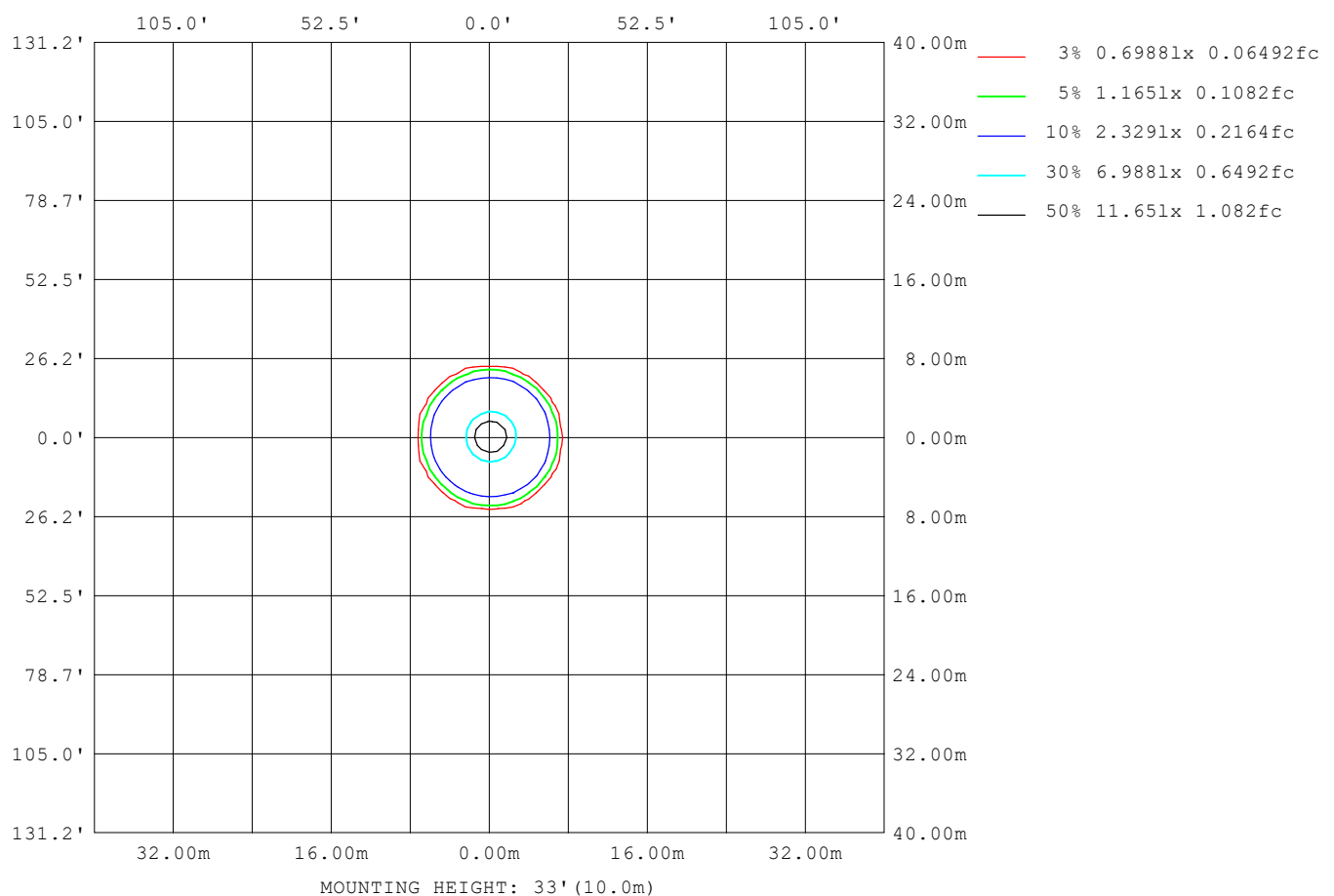
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date: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:240.0V I:0.0488A P:10.40W PF:0.8871 Lamp Flux:875.277x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_4000K 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:240.0V I:0.0488A P:10.40W PF:0.8871 Lamp Flux:875.277x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_4000K CRI90_24 DEG		
MFR.: DARKON		

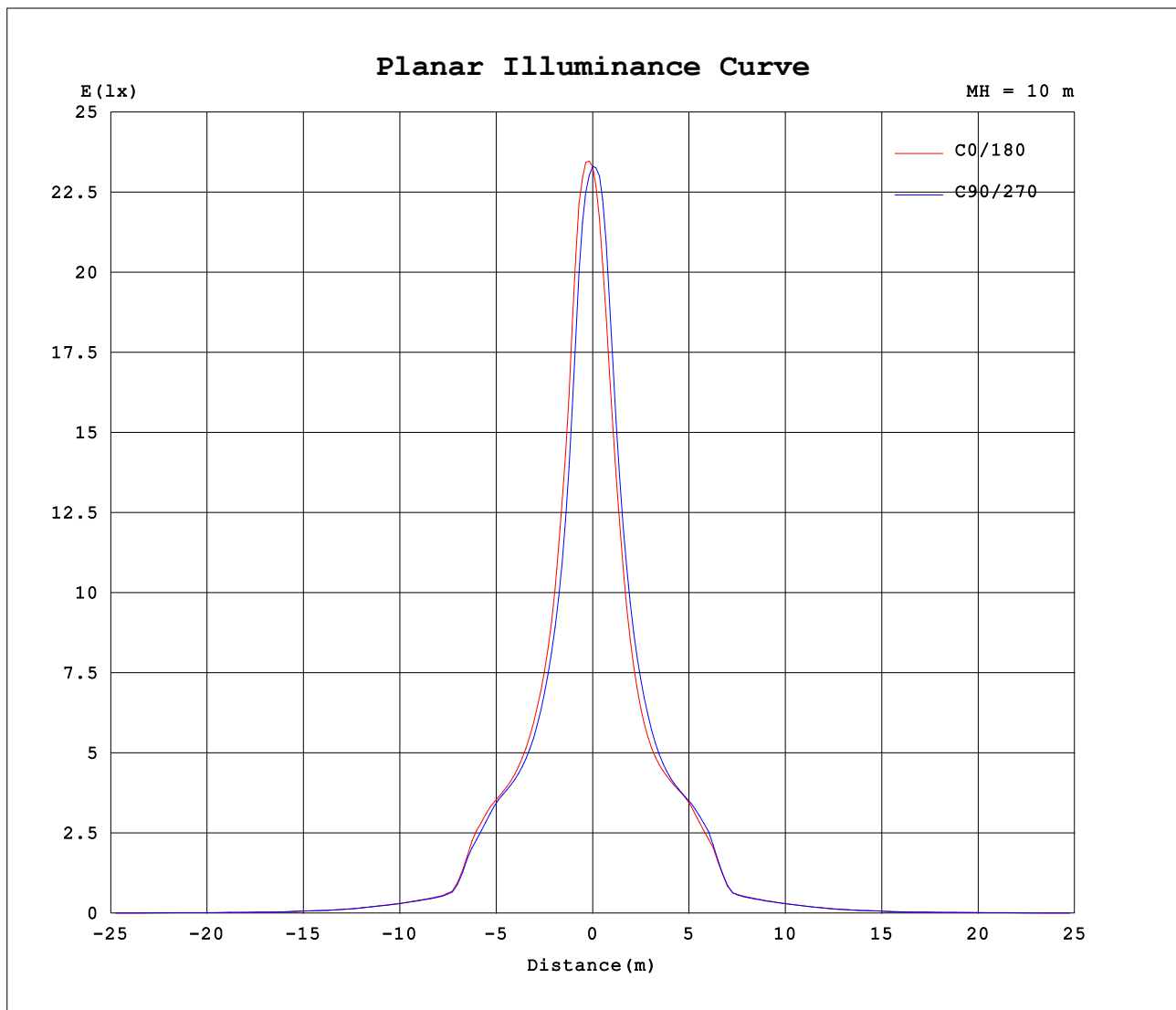
AvgL	cd/m2
L_0~180 (65) av	50246
L_0~180 (75) av	53750
L_0~180 (85) av	51285
L_90~270 (65) av	50154
L_90~270 (75) av	53771
L_90~270 (85) av	51150
L_45 (65) av	50211
L_45 (75) av	53794
L_45 (85) av	51177

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:

