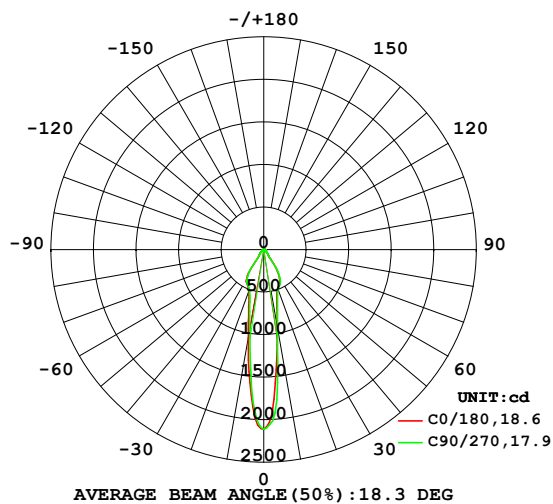


LUMINAIRE PHOTOMETRIC TEST REPORT

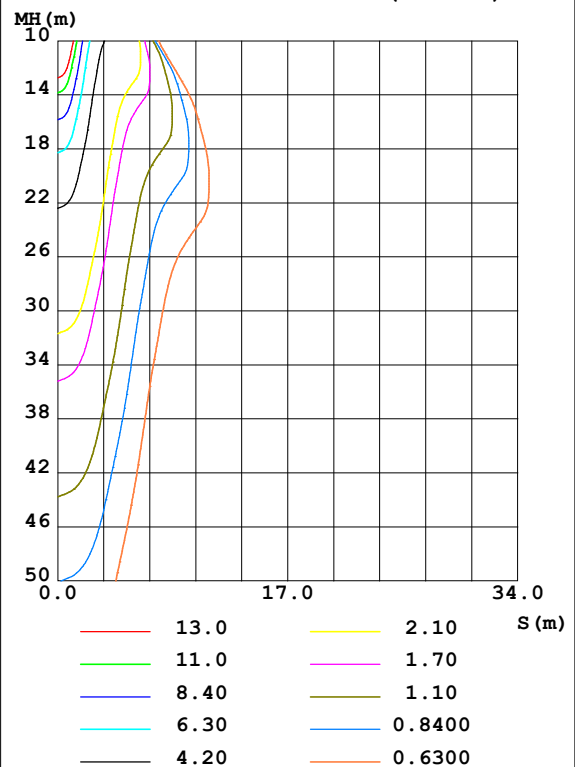
Test:U:239.8V I:0.0486A P:10.31W PF:0.8844 Lamp Flux:757.856x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_3000K CRI90_24 DEE:LED		WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 73.49 lm/W			
MODEL	SLE G7 09mm 1200lm	Imax(cd)	2111	S/MH(C0/180)	0.34
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.31
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	757.86	η UP,DN(C0-180)	0.0,49.8
NOMINAL FLUX(lm)	757.856	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: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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	914.6	927.1	939.3	1002	1052	1028	950.8	907.8	0- 10	135.0	135.0	17.8,17.8
20	488.4	493.4	495.3	511.2	517.1	514.4	500.5	496.2	10- 20	183.4	318.4	42,42
30	362.3	366.8	378.4	394.1	409.3	416.4	395.8	374.9	20- 30	207.3	525.7	69.4,69.4
40	86.23	88.35	83.39	79.79	80.84	83.28	80.83	81.53	30- 40	127.7	653.5	86.2,86.2
50	38.75	38.51	37.76	36.89	36.56	36.52	37.09	38.33	40- 50	47.05	700.5	92.4,92.4
60	22.09	21.53	20.58	19.80	19.56	19.84	20.75	21.74	50- 60	22.12	722.7	95.4,95.4
70	17.22	16.75	15.82	15.02	14.74	14.96	15.83	16.83	60- 70	18.52	741.2	97.8,97.8
80	9.193	8.851	8.083	7.372	7.056	7.234	7.936	8.765	70- 80	12.72	753.9	99.5,99.5
90	0.0257	0.0147	0.0183	0.0146	0.0184	0.0183	0.0183	0.0183	80- 90	3.958	757.9	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): 680.42 lm

%lum = 89.8%

%lamp = 89.8%

Conical surface Flux(120deg): 722.66 lm

%lum = 95.4%

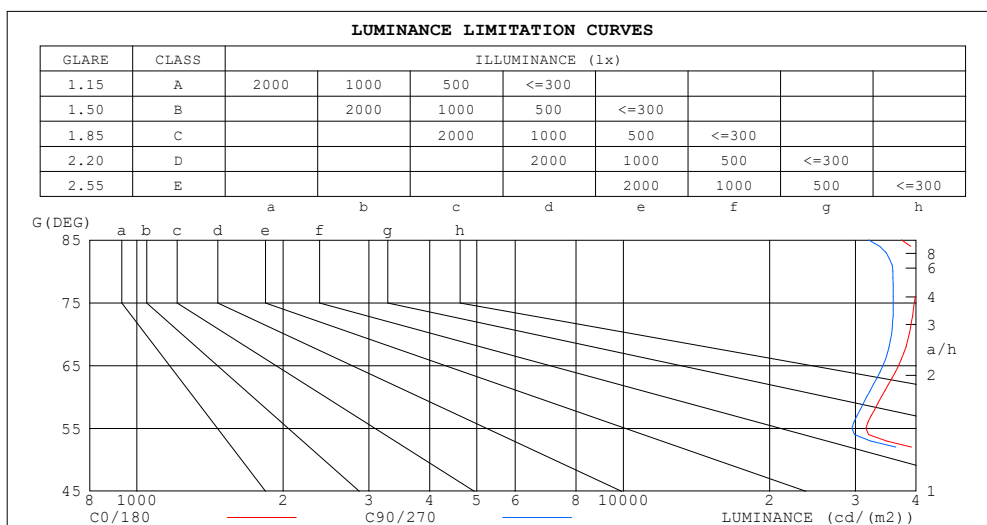
%lamp = 95.4%

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:

LUMINANCE LIMITATION CURVES

Test:U:239.8V I:0.0486A P:10.31W PF:0.8844 Lamp Flux:757.856x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_3000K CRI90_24 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	37342	31926
80	40675	35819
75	39676	35910
70	38693	35596
65	36841	34197
60	33940	31667
55	31548	29540
50	46312	45199
45	69242	68782

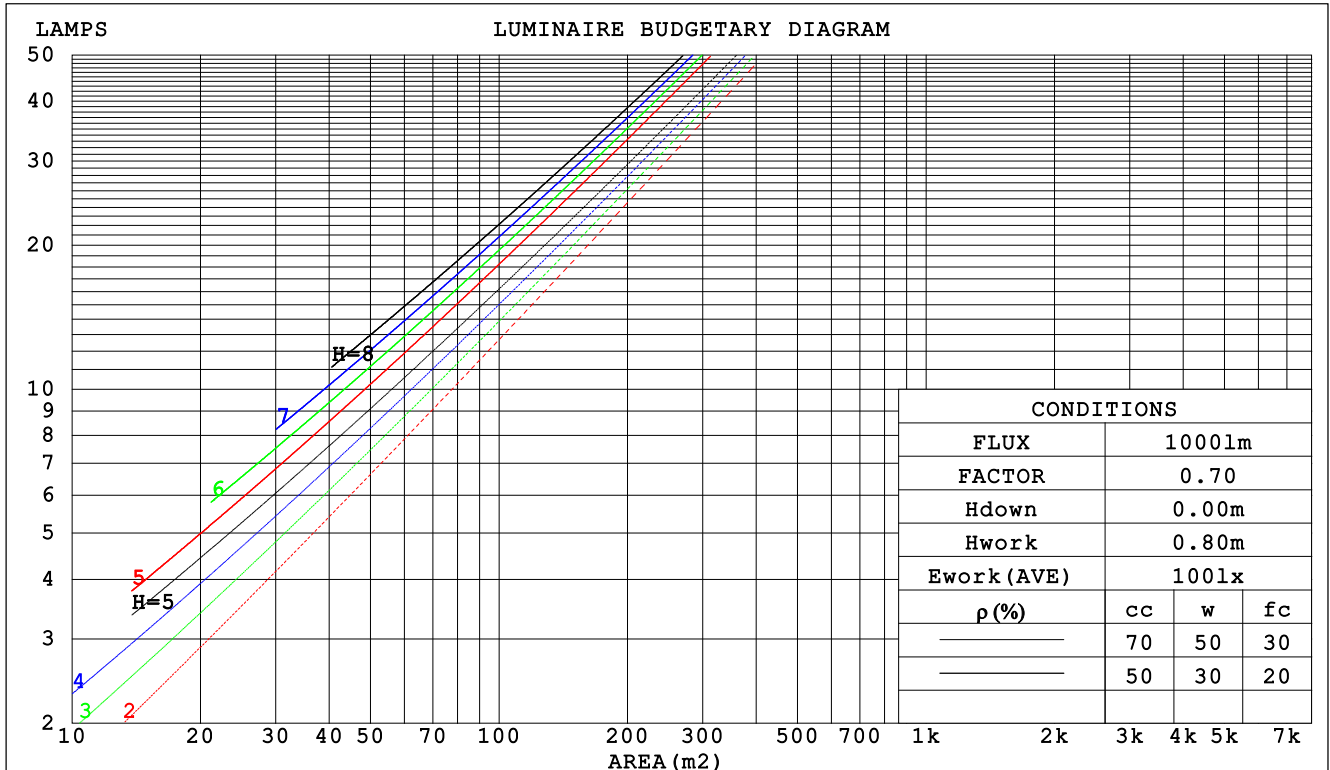
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:16 January 2024

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:239.8V I:0.0486A P:10.31W PF:0.8844 Lamp Flux:757.856x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_3000K CRI90_24 DEE:LED		WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

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	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	1.05	1.08	1.05	1.03	1.04	1.02	.00	.00	.98	.97	.97	.95	.94	.92
2.0	1.02	.98	.94	1.00	.96	.93	.97	.94	.91	.94	.91	.89	.91	.89	.87	.85
3.0	.95	.90	.85	.93	.89	.85	.91	.87	.83	.88	.85	.82	.86	.83	.81	.79
4.0	.89	.83	.79	.87	.82	.78	.85	.81	.77	.83	.79	.76	.81	.78	.75	.74
5.0	.83	.77	.73	.82	.77	.73	.80	.76	.72	.79	.75	.71	.77	.74	.71	.69
6.0	.78	.72	.68	.78	.72	.68	.76	.71	.67	.75	.70	.67	.73	.69	.66	.65
7.0	.74	.68	.64	.73	.68	.64	.72	.67	.63	.71	.66	.63	.70	.66	.63	.61
8.0	.70	.64	.60	.70	.64	.60	.68	.63	.60	.67	.63	.59	.66	.62	.59	.58
9.0	.67	.61	.57	.66	.61	.57	.65	.60	.57	.64	.60	.56	.63	.59	.56	.55
10.0	.63	.58	.54	.63	.58	.54	.62	.57	.54	.61	.57	.54	.61	.56	.53	.52



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:

WEC AND CCEC

Test:U:239.8V I:0.0486A P:10.31W PF:0.8844 Lamp Flux:757.856x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_3000K CRI90_24 DEBE: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	.193	.110	.035	.186	.106	.034	.174	.100	.032	.162	.094	.030	.151	.088	.028	
2.0	.182	.100	.031	.176	.097	.030	.166	.092	.029	.156	.087	.027	.147	.083	.026	
3.0	.171	.091	.027	.166	.089	.027	.157	.085	.026	.148	.081	.025	.141	.078	.024	
4.0	.161	.084	.025	.157	.082	.024	.149	.079	.024	.141	.076	.023	.134	.073	.022	
5.0	.151	.077	.022	.148	.076	.022	.141	.073	.022	.135	.071	.021	.129	.069	.021	
6.0	.143	.072	.021	.140	.071	.020	.134	.069	.020	.128	.067	.020	.123	.065	.019	
7.0	.136	.067	.019	.133	.066	.019	.128	.064	.019	.123	.063	.018	.118	.061	.018	
8.0	.129	.063	.018	.126	.062	.018	.122	.061	.017	.117	.059	.017	.113	.058	.017	
9.0	.123	.059	.017	.121	.059	.016	.116	.058	.016	.112	.056	.016	.109	.055	.016	
10.0	.117	.056	.016	.115	.056	.016	.111	.055	.015	.108	.054	.015	.104	.053	.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	.172	.157	.144	.147	.135	.124	.101	.093	.085	.058	.054	.050	.019	.017	.016		
2.0	.158	.132	.111	.135	.114	.096	.093	.079	.067	.053	.046	.039	.017	.015	.013		
3.0	.145	.114	.088	.125	.098	.077	.086	.068	.054	.049	.040	.032	.016	.013	.010		
4.0	.135	.099	.071	.116	.086	.062	.080	.060	.044	.046	.035	.026	.015	.011	.009		
5.0	.126	.087	.059	.108	.076	.051	.075	.053	.036	.043	.031	.021	.014	.010	.007		
6.0	.118	.078	.049	.102	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006		
7.0	.112	.071	.042	.096	.061	.036	.066	.043	.026	.039	.025	.015	.012	.008	.005		
8.0	.106	.064	.036	.091	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004		
9.0	.100	.059	.031	.086	.051	.027	.060	.036	.019	.035	.021	.012	.011	.007	.004		
10.0	.095	.055	.027	.082	.047	.024	.057	.033	.017	.033	.020	.010	.011	.006	.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:239.8V I:0.0486A P:10.31W PF:0.8844 Lamp Flux:757.856x1 lm										
NAME: DEEPER DOWN_SLE G7 09mm_250mA_3000K CRI90_24 DEE: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	22.9	23.8	23.1	24.0	24.2	22.9	23.9	23.1	24.0	24.2
3H	23.8	24.7	24.0	24.9	25.1	23.7	24.6	23.9	24.8	25.0
4H	24.3	25.1	24.6	25.4	25.6	24.1	25.0	24.4	25.2	25.4
6H	24.8	25.6	25.1	25.8	26.1	24.5	25.3	24.8	25.6	25.8
8H	25.0	25.8	25.3	26.0	26.3	24.7	25.5	25.0	25.7	26.0
12H	25.1	25.9	25.4	26.1	26.4	24.8	25.5	25.1	25.8	26.1
4H 2H	23.0	23.9	23.3	24.1	24.3	23.1	23.9	23.3	24.1	24.4
3H	24.2	25.0	24.6	25.2	25.5	24.1	24.9	24.5	25.2	25.4
4H	24.9	25.6	25.3	25.9	26.2	24.8	25.4	25.1	25.7	26.1
6H	25.6	26.2	26.0	26.5	26.9	25.4	25.9	25.7	26.3	26.6
8H	25.9	26.4	26.3	26.8	27.2	25.6	26.1	26.0	26.5	26.9
12H	26.1	26.6	26.5	27.0	27.4	25.7	26.2	26.1	26.6	27.0
8H 4H	25.2	25.7	25.6	26.1	26.5	25.0	25.6	25.4	25.9	26.3
6H	26.0	26.5	26.5	26.9	27.3	25.8	26.2	26.2	26.6	27.1
8H	26.4	26.8	26.9	27.2	27.7	26.1	26.5	26.6	26.9	27.4
12H	26.7	27.0	27.2	27.5	28.0	26.4	26.7	26.8	27.1	27.6
12H 4H	25.2	25.7	25.6	26.1	26.5	25.1	25.6	25.5	25.9	26.3
6H	26.1	26.5	26.5	26.9	27.4	25.9	26.3	26.3	26.7	27.1
8H	26.5	26.9	27.0	27.3	27.8	26.2	26.6	26.7	27.0	27.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.5					+ 0.5 / - 0.5				
1.5H	+ 0.8 / - 0.5					+ 0.5 / - 0.5				
2.0H	+ 1.0 / - 0.4					+ 1.1 / - 0.5				

CIE Pub.117 Corrected 757.9 lm Total Lamp Luminous Flux. (8log(F/F0) = -1.0)

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:239.8V I:0.0486A P:10.31W PF:0.8844 Lamp Flux:757.856x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_3000K CRI90_24 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

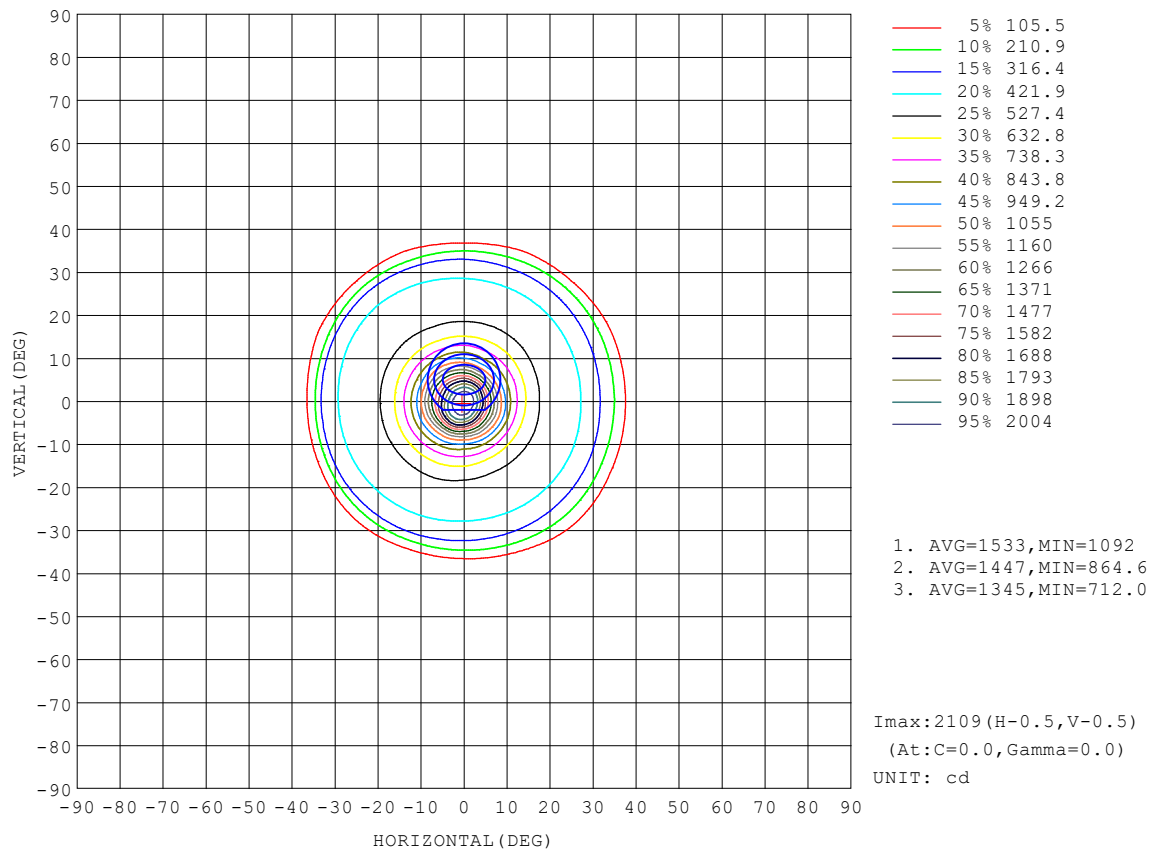
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	83	76	72	83	76	72	82	75	72	68
0.80	91	84	80	90	84	80	89	83	79	75
1.00	96	89	85	95	89	85	93	89	84	80
1.25	100	94	90	99	94	90	97	92	89	84
1.50	103	98	94	102	97	93	100	95	92	87
2.00	106	102	98	105	100	97	102	98	96	90
2.50	108	104	101	107	103	100	104	100	98	91
3.00	110	106	103	108	105	102	105	102	100	93
4.00	113	109	107	110	108	105	107	105	103	95
5.00	114	111	109	112	110	108	108	106	104	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

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:

ISOCANDELA DIAGRAM

Test:U:239.8V I:0.0486A P:10.31W PF:0.8844 Lamp Flux:757.856x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_3000K CRI90_24 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

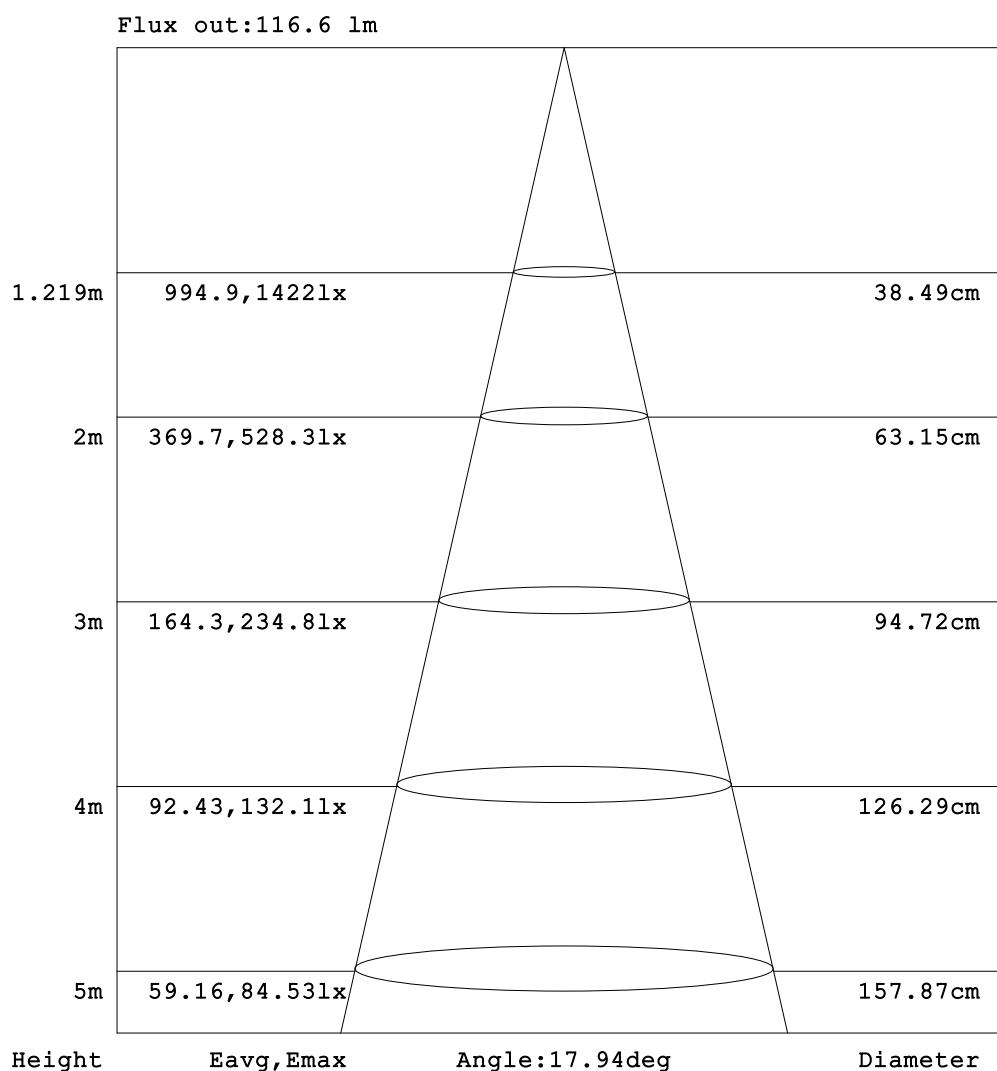


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:16 January 2024

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:239.8V I:0.0486A P:10.31W PF:0.8844 Lamp Flux:757.856x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_3000K CRI90_24 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



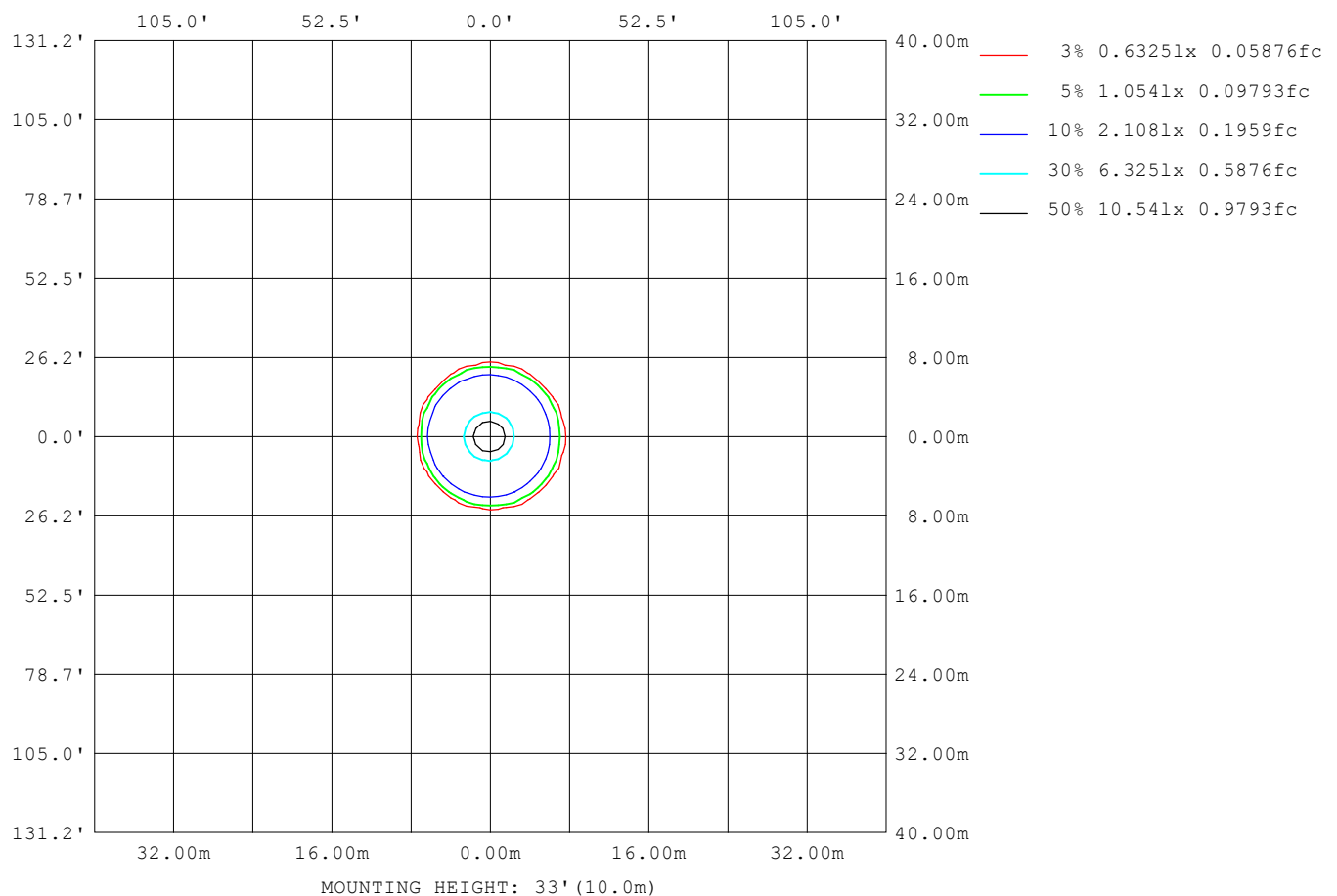
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:239.8V I:0.0486A P:10.31W PF:0.8844 Lamp Flux:757.856x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_3000K CRI90_24 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:239.8V I:0.0486A P:10.31W PF:0.8844 Lamp Flux:757.856x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_3000K CRI90_24 DEEP:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

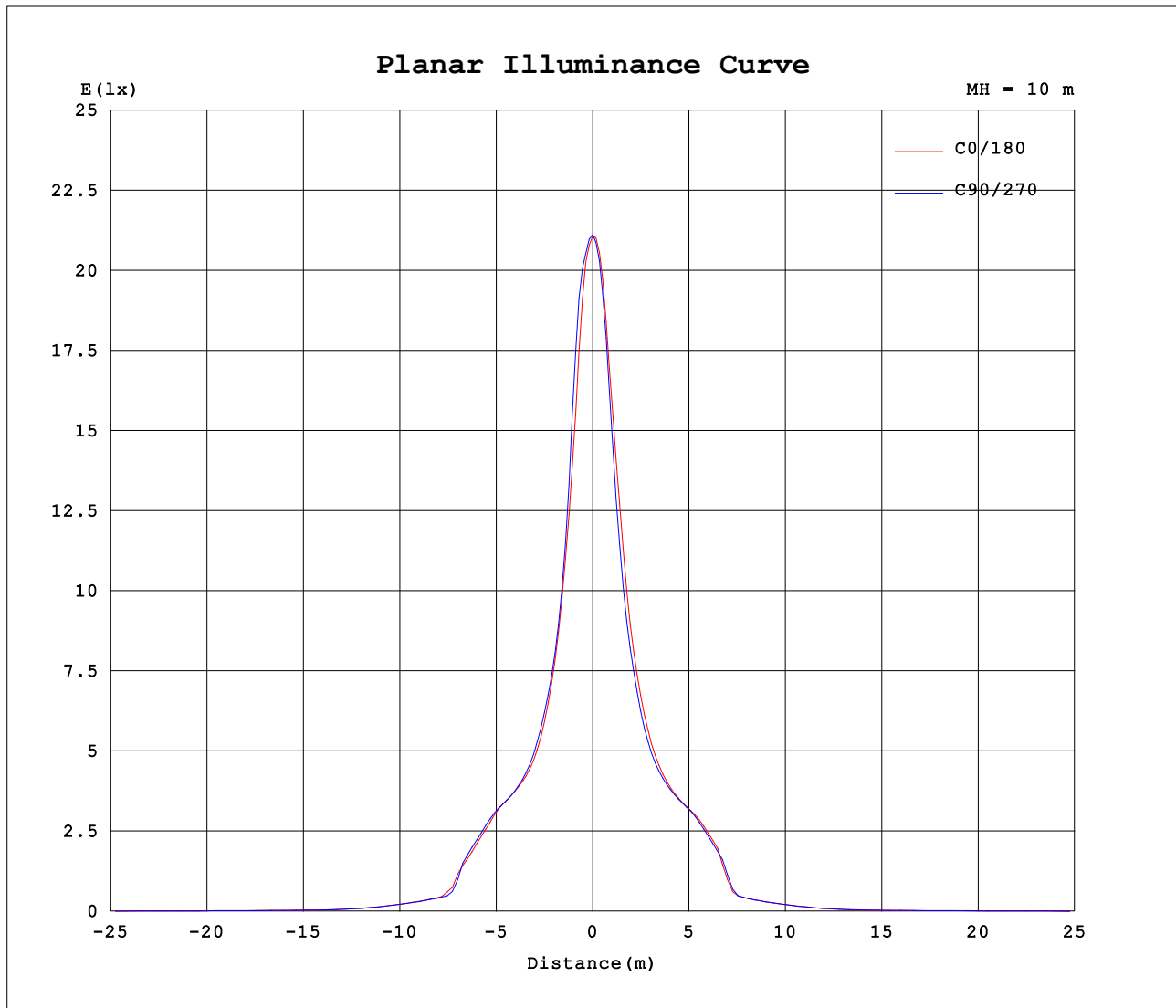
AvgL	cd/m2
L_0~180 (65) av	34566
L_0~180 (75) av	36164
L_0~180 (85) av	32143
L_90~270 (65) av	34269
L_90~270 (75) av	35742
L_90~270 (85) av	31836
L_45 (65) av	34396
L_45 (75) av	35913
L_45 (85) av	31938

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

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:

