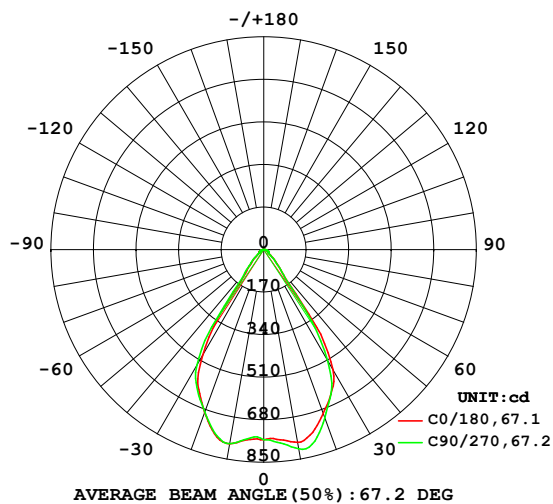


LUMINAIRE PHOTOMETRIC TEST REPORT

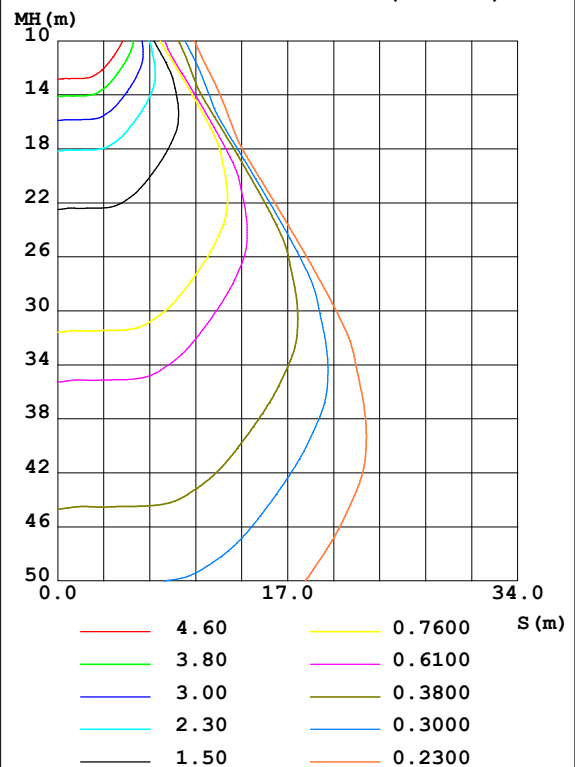
Test:U:240.0V I:0.0488A P:10.38W PF:0.8856 Lamp Flux:853.326x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_4000K CRI90_50 DEEPER LED		WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 82.23 lm/W			
MODEL	SLE G7 09mm 1200lm	Imax(cd)	813.6	S/MH(C0/180)	0.95
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.97
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	853.33	η UP,DN(C0-180)	0.0,50.2
NOMINAL FLUX(lm)	853.326	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.8
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	230	η down(%)	100.0	CIBSE SHR MAX	0.70

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	782.2	785.0	808.0	799.6	787.8	767.9	786.9	780.7	0- 10	73.85	73.85	8.65,8.65
20	696.3	685.1	714.4	708.7	691.5	670.8	690.8	702.0	10- 20	212.8	286.6	33.6,33.6
30	553.3	519.8	509.4	495.1	490.0	503.3	534.8	560.5	20- 30	285.1	571.7	67,67
40	109.2	106.7	106.5	102.2	100.0	105.0	109.9	108.9	30- 40	174.1	745.8	87.4,87.4
50	37.28	36.00	34.96	34.24	34.54	35.47	36.38	37.39	40- 50	50.54	796.3	93.3,93.3
60	20.30	20.45	20.79	21.04	20.96	20.60	20.39	20.31	50- 60	21.60	817.9	95.9,95.9
70	15.67	15.87	16.15	16.30	16.14	15.75	15.59	15.61	60- 70	18.45	836.4	98,98
80	8.080	8.381	8.706	8.750	8.460	8.062	7.884	7.895	70- 80	12.82	849.2	99.5,99.5
90	0.0440	0.0367	0.0366	0.0330	0.0330	0.0330	0.0404	0.0404	80- 90	4.116	853.3	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): 776.42 lm

%lum = 91.0%

%lamp = 91.0%

Conical surface Flux(120deg): 817.94 lm

%lum = 95.9%

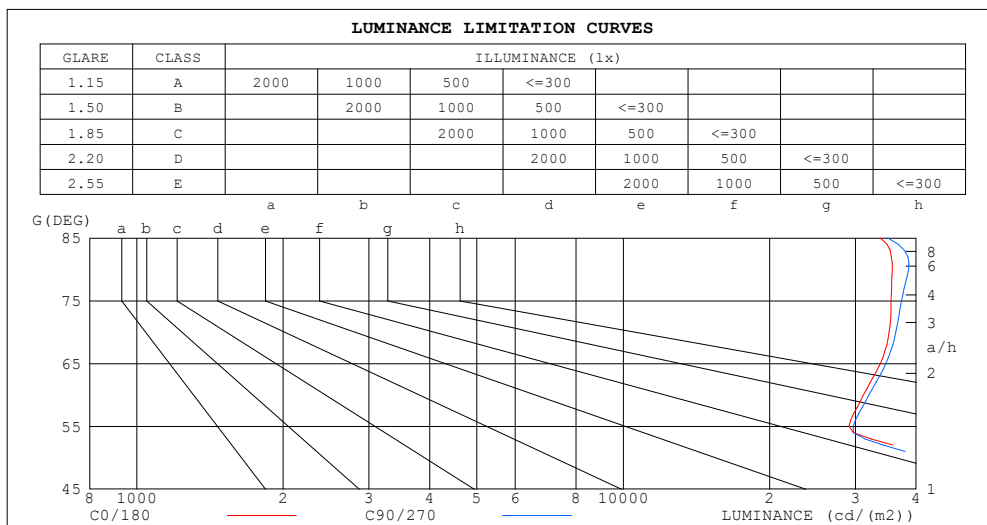
%lamp = 95.9%

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:240.0V I:0.0488A P:10.38W PF:0.8856 Lamp Flux:853.326x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_4000K CRI90_50 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	33723	34997
80	35756	38576
75	35533	37336
70	35200	36338
65	33760	34675
60	31194	32000
55	29101	29702
50	44562	41845
45	73201	69434

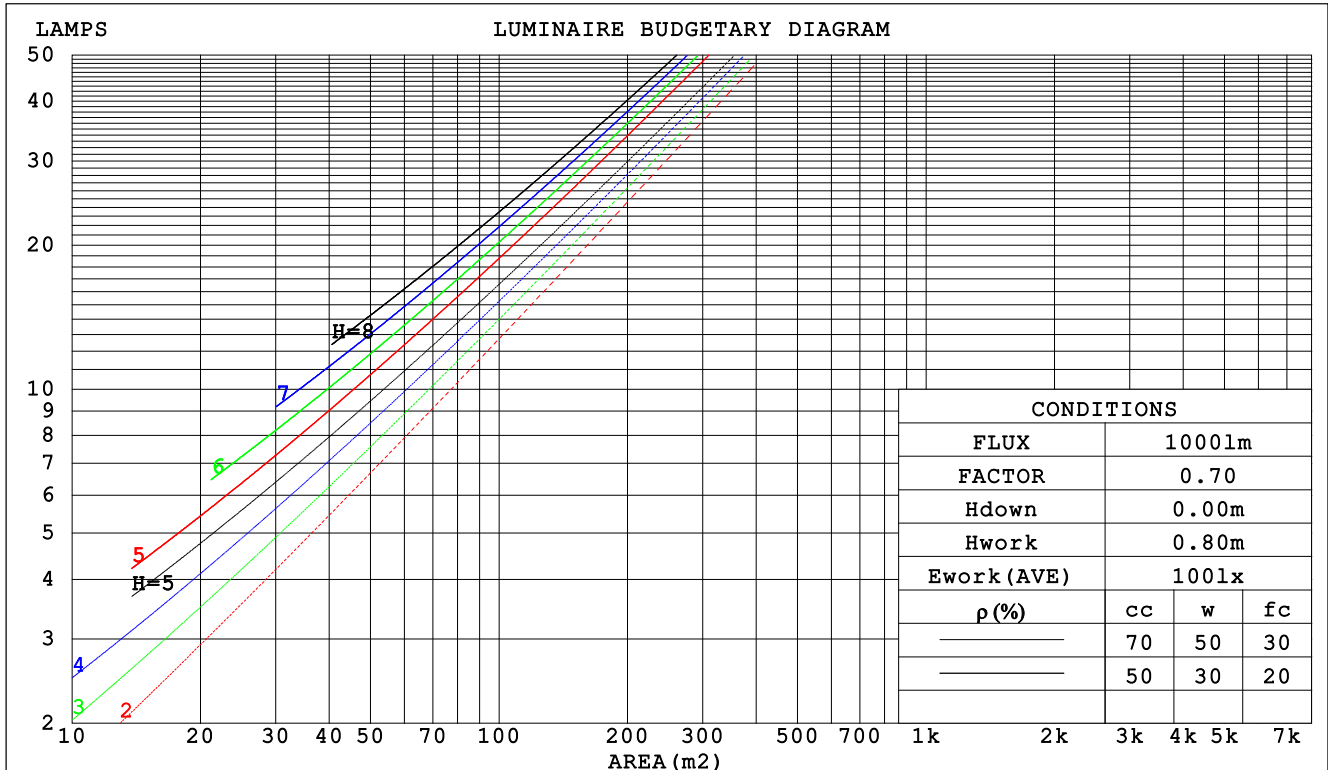
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:16 January 2024

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:240.0V I:0.0488A P:10.38W PF:0.8856 Lamp Flux:853.326x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_4000K CRI90_50 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	1.04	1.07	1.05	1.03	1.03	1.01	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.01	.97	.93	.99	.95	.92	.96	.93	.90	.93	.90	.88	.90	.88	.86	.84
3.0	.94	.88	.84	.92	.87	.83	.90	.85	.82	.87	.83	.81	.85	.82	.79	.78
4.0	.87	.81	.76	.86	.80	.76	.84	.79	.75	.82	.77	.74	.80	.76	.73	.72
5.0	.81	.75	.70	.80	.74	.70	.78	.73	.69	.77	.72	.69	.75	.71	.68	.66
6.0	.76	.69	.65	.75	.69	.65	.73	.68	.64	.72	.67	.64	.71	.66	.63	.62
7.0	.71	.65	.60	.70	.64	.60	.69	.64	.60	.68	.63	.59	.67	.62	.59	.57
8.0	.67	.60	.56	.66	.60	.56	.65	.59	.56	.64	.59	.55	.63	.58	.55	.54
9.0	.63	.56	.52	.62	.56	.52	.61	.56	.52	.60	.55	.52	.59	.55	.52	.50
10.0	.59	.53	.49	.59	.53	.49	.58	.52	.49	.57	.52	.49	.56	.52	.48	.47



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:240.0V I:0.0488A P:10.38W PF:0.8856 Lamp Flux:853.326x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_4000K CRI90_50 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	.200	.114	.036	.193	.110	.035	.180	.103	.033	.168	.097	.031	.158	.091	.029		
2.0	.189	.104	.032	.183	.101	.031	.173	.096	.030	.163	.091	.029	.154	.087	.027		
3.0	.179	.095	.028	.174	.093	.028	.164	.089	.027	.156	.085	.026	.148	.082	.025		
4.0	.169	.088	.026	.164	.086	.025	.156	.083	.025	.149	.080	.024	.142	.077	.024		
5.0	.160	.081	.024	.156	.080	.023	.149	.078	.023	.142	.075	.022	.136	.073	.022		
6.0	.152	.076	.022	.148	.075	.022	.142	.073	.021	.136	.071	.021	.131	.069	.020		
7.0	.144	.071	.020	.141	.070	.020	.136	.069	.020	.131	.067	.019	.126	.065	.019		
8.0	.137	.067	.019	.135	.066	.019	.130	.065	.019	.125	.063	.018	.121	.062	.018		
9.0	.131	.063	.018	.129	.063	.018	.125	.062	.017	.120	.060	.017	.116	.059	.017		
10.0	.126	.060	.017	.123	.060	.017	.119	.059	.016	.116	.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	.050	.019	.017	.016	
2.0	.159	.132	.110	.136	.114	.095	.093	.079	.067	.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	.118	.086	.061	.081	.060	.043	.047	.035	.025	.015	.011	.008	
5.0	.129	.088	.058	.110	.076	.050	.076	.053	.035	.044	.031	.021	.014	.010	.007	
6.0	.121	.079	.048	.104	.068	.042	.072	.048	.030	.042	.028	.018	.013	.009	.006	
7.0	.115	.071	.041	.099	.062	.035	.068	.043	.025	.040	.025	.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	.090	.052	.026	.062	.037	.019	.036	.022	.011	.012	.007	.004	
10.0	.099	.056	.027	.086	.048	.023	.059	.034	.016	.035	.020	.010	.011	.007	.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:240.0V I:0.0488A P:10.38W PF:0.8856 Lamp Flux:853.326x1 lm											
NAME: DEEPER DOWN_SLE G7 09mm_250mA_4000K CRI90_50 DEEE: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	2H	24.0	25.1	24.3	25.2	25.4	23.6	24.6	23.8	24.8	25.0
	3H	24.5	25.4	24.7	25.6	25.8	24.1	25.1	24.4	25.3	25.5
	4H	24.8	25.7	25.0	25.9	26.1	24.5	25.4	24.8	25.6	25.8
	6H	25.0	25.9	25.3	26.1	26.4	24.8	25.7	25.1	25.9	26.2
	8H	25.1	26.0	25.5	26.2	26.5	25.0	25.8	25.3	26.0	26.3
	12H	25.2	26.0	25.5	26.3	26.6	25.1	25.8	25.4	26.1	26.4
4H	2H	24.0	24.9	24.3	25.2	25.4	23.6	24.5	23.9	24.7	25.0
	3H	24.7	25.5	25.0	25.7	26.0	24.4	25.2	24.7	25.4	25.7
	4H	25.1	25.8	25.5	26.1	26.5	24.9	25.6	25.3	25.9	26.2
	6H	25.6	26.2	25.9	26.5	26.9	25.4	26.1	25.8	26.4	26.7
	8H	25.7	26.3	26.1	26.7	27.1	25.7	26.2	26.1	26.6	27.0
	12H	25.9	26.4	26.3	26.8	27.2	25.8	26.3	26.2	26.7	27.1
8H	4H	25.3	25.9	25.7	26.2	26.6	25.1	25.7	25.5	26.0	26.4
	6H	25.9	26.3	26.3	26.7	27.2	25.8	26.2	26.2	26.6	27.1
	8H	26.1	26.6	26.6	27.0	27.4	26.1	26.5	26.5	26.9	27.4
	12H	26.4	26.7	26.8	27.2	27.6	26.3	26.7	26.8	27.1	27.6
12H	4H	25.3	25.8	25.7	26.2	26.6	25.1	25.6	25.5	26.0	26.4
	6H	25.9	26.3	26.4	26.8	27.2	25.8	26.2	26.3	26.7	27.1
	8H	26.2	26.6	26.7	27.0	27.5	26.2	26.5	26.7	27.0	27.5
Variations with the observer position at spacings:											
S = 1.0H	+ 0.8 / - 0.8					+ 0.6 / - 0.7					
1.5H	+ 1.6 / - 0.8					+ 1.3 / - 0.7					
2.0H	+ 1.3 / - 0.5					+ 1.1 / - 0.4					

CIE Pub.117 Corrected 853.3 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.6)

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:240.0V I:0.0488A P:10.38W PF:0.8856 Lamp Flux:853.326x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_4000K CRI90_50 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

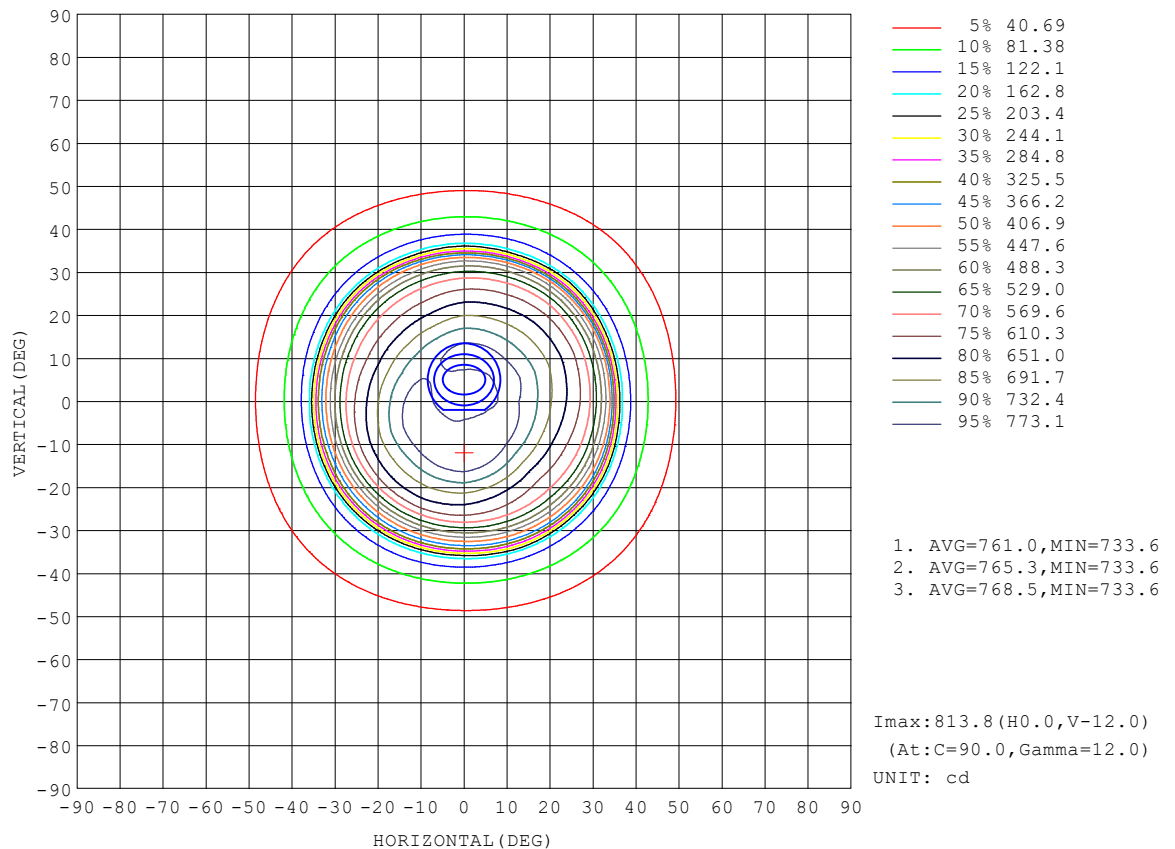
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	77	73	83	77	73	83	76	73	69
0.80	92	85	81	91	85	81	90	84	80	76
1.00	96	90	86	95	90	86	94	90	85	81
1.25	101	95	91	100	94	90	97	93	90	85
1.50	104	98	94	102	97	94	100	96	93	88
2.00	107	102	98	105	101	98	102	99	96	91
2.50	109	104	101	107	103	100	104	101	98	92
3.00	110	107	103	109	105	102	105	102	100	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	109	112	110	108	108	106	105	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:240.0V I:0.0488A P:10.38W PF:0.8856 Lamp Flux:853.326x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_4000K CRI90_50 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

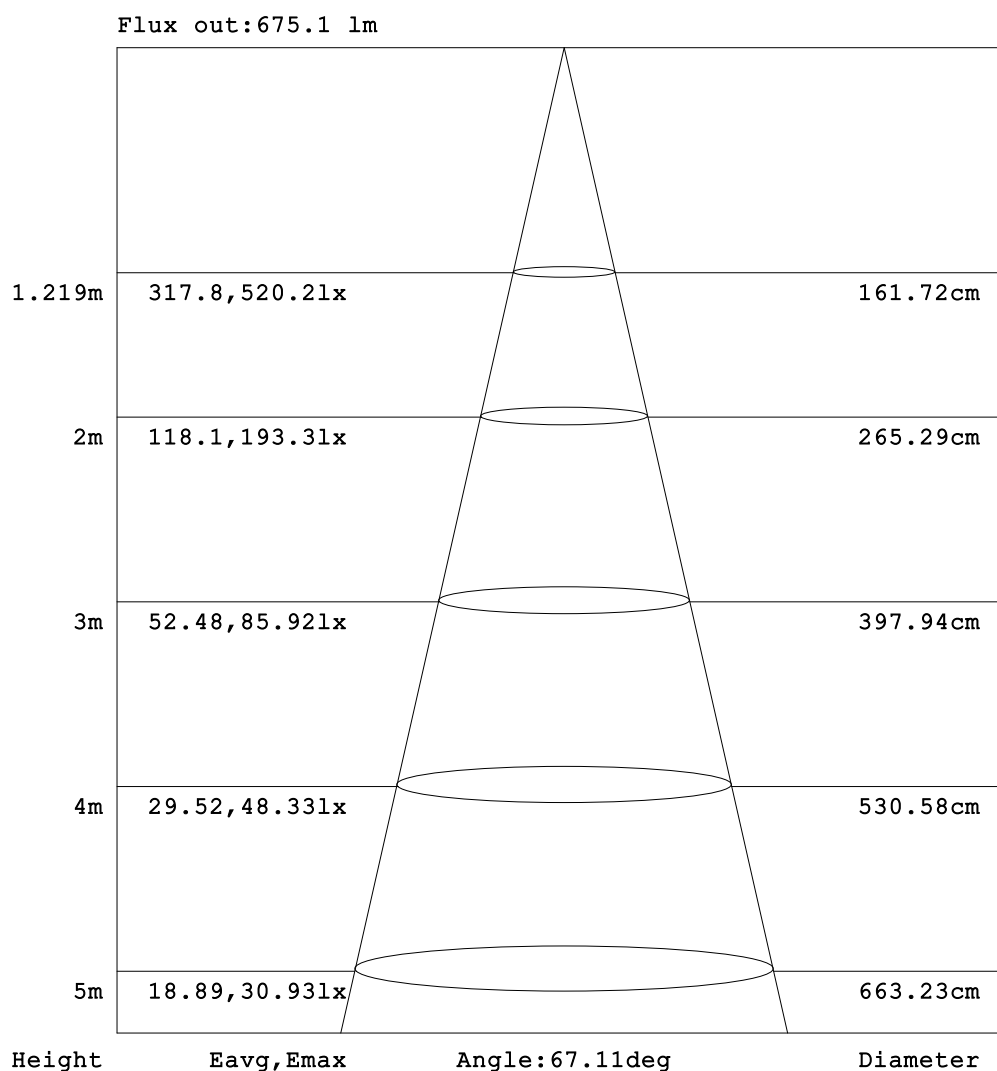


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:16 January 2024

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:240.0V I:0.0488A P:10.38W PF:0.8856 Lamp Flux:853.326x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_4000K CRI90_50 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



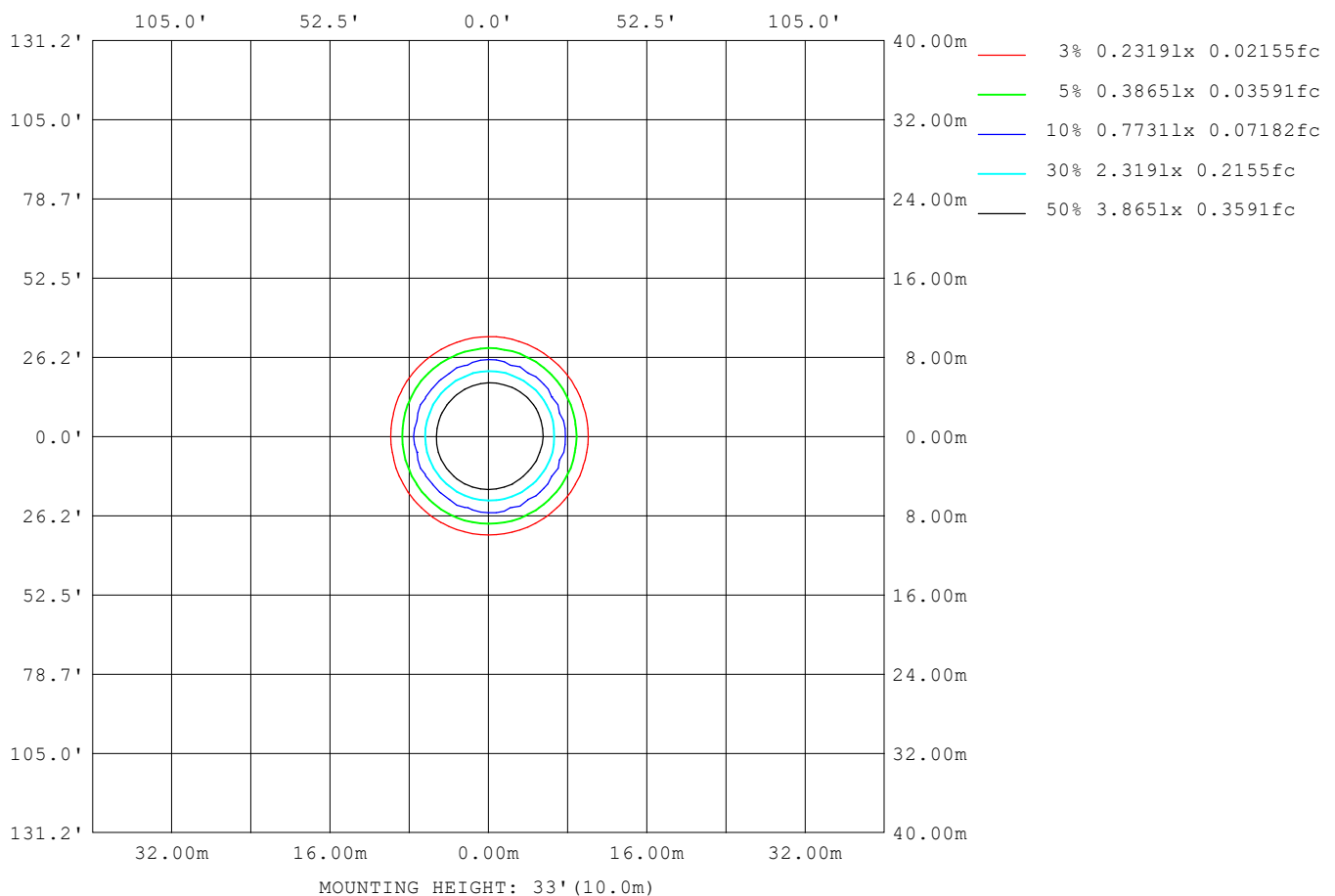
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:240.0V I:0.0488A P:10.38W PF:0.8856 Lamp Flux:853.326x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_4000K CRI90_50 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:240.0V I:0.0488A P:10.38W PF:0.8856 Lamp Flux:853.326x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_4000K CRI90_50 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

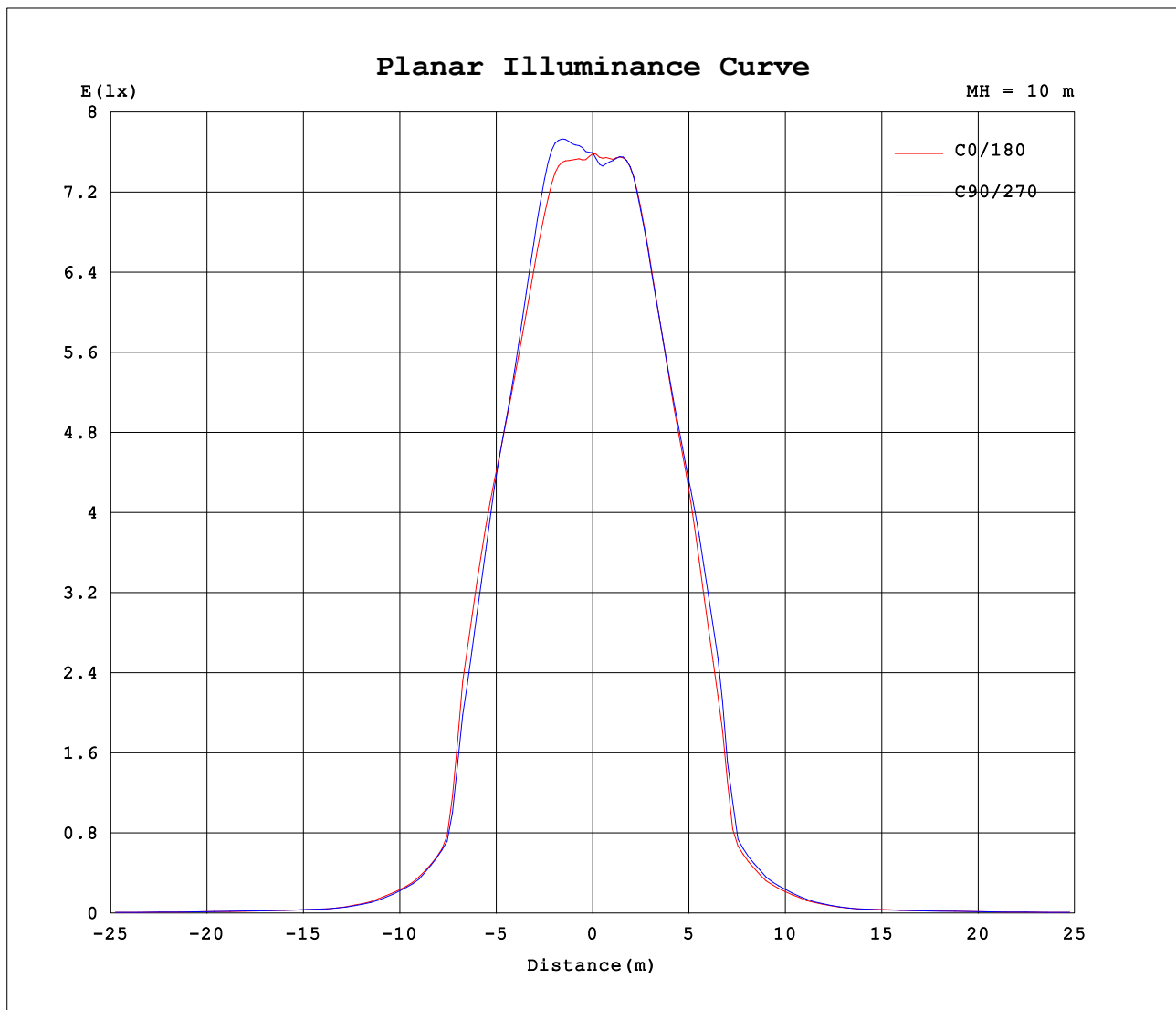
AvgL	cd/m2
L_0~180 (65) av	34323
L_0~180 (75) av	36226
L_0~180 (85) av	33233
L_90~270 (65) av	34239
L_90~270 (75) av	36208
L_90~270 (85) av	33623
L_45 (65) av	34260
L_45 (75) av	36187
L_45 (85) av	33459

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:

