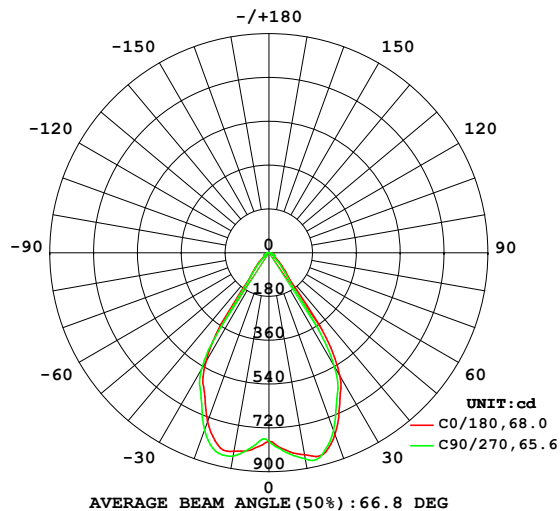


LUMINAIRE PHOTOMETRIC TEST REPORT

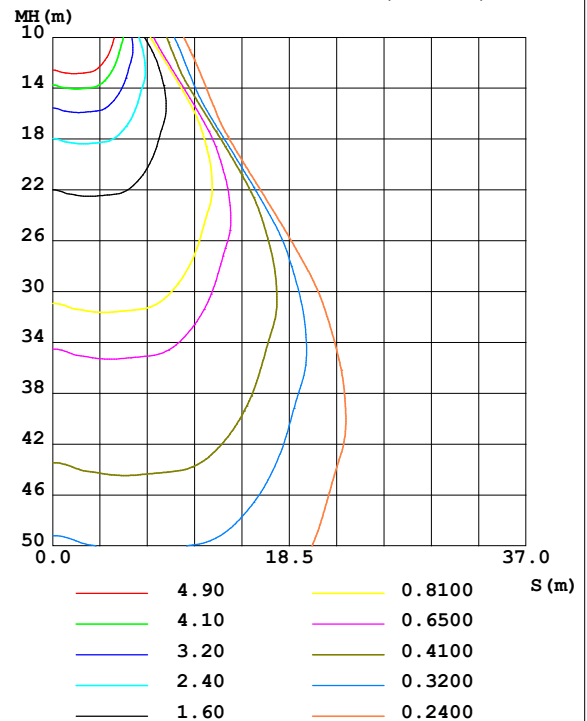
Test:U:240.10V I:0.0494A P:10.436W PF:0.8799 Freq:0Hz Lamp Flux:895.529x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
TRIDONIC SLE G7 09mm 1200lm 830 R ADV		Eff: 85.82 lm/W			
NOMINAL POWER(W)		I _{max} (cd)	873.8	S/MH(C0/180)	0.96
RATED VOLTAGE(V)	220.0	LOR(%)	100.0	S/MH(C90/270)	0.93
NOMINAL FLUX(lm)	895.529	TOTAL FLUX(lm)	895.53	η UP,DN(C0-180)	0.0,50.5
LAMPS INSIDE	1	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.5
TEST VOLTAGE(V)	230	η up(%)	0.0	CIBSE SHR NOM	0.50
		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:29 October 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [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	842.9	851.2	860.5	844.8	827.7	815.9	848.1	849.7	0- 10	78.41	78.41	8.76, 8.76
20	794.5	782.3	776.3	755.9	738.0	732.3	774.6	794.5	10- 20	233.3	311.7	34.8, 34.8
30	582.1	557.2	535.2	529.0	519.5	528.4	555.0	584.7	20- 30	303.3	615.0	68.7, 68.7
40	113.6	107.8	96.85	104.2	101.0	100.1	94.13	112.3	30- 40	174.3	789.3	88.1, 88.1
50	41.33	36.95	28.88	36.54	37.71	34.88	27.15	37.49	40- 50	49.74	839.0	93.7, 93.7
60	22.12	22.23	22.52	22.47	22.79	21.79	21.49	21.28	50- 60	22.63	861.7	96.2, 96.2
70	17.40	16.58	15.87	16.49	17.42	15.62	14.73	15.70	60- 70	19.37	881.0	98.4, 98.4
80	6.797	7.117	5.714	6.923	7.014	6.049	4.956	6.607	70- 80	12.33	893.3	99.8, 99.8
90	0.0501	0.0313	0.0282	0.0439	0.0501	0.0345	0.0282	0.0313	80- 90	2.183	895.5	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): 819.67 lm

%lum = 91.5%

%lamp = 91.5%

Conical surface Flux(120deg): 861.65 lm

%lum = 96.2%

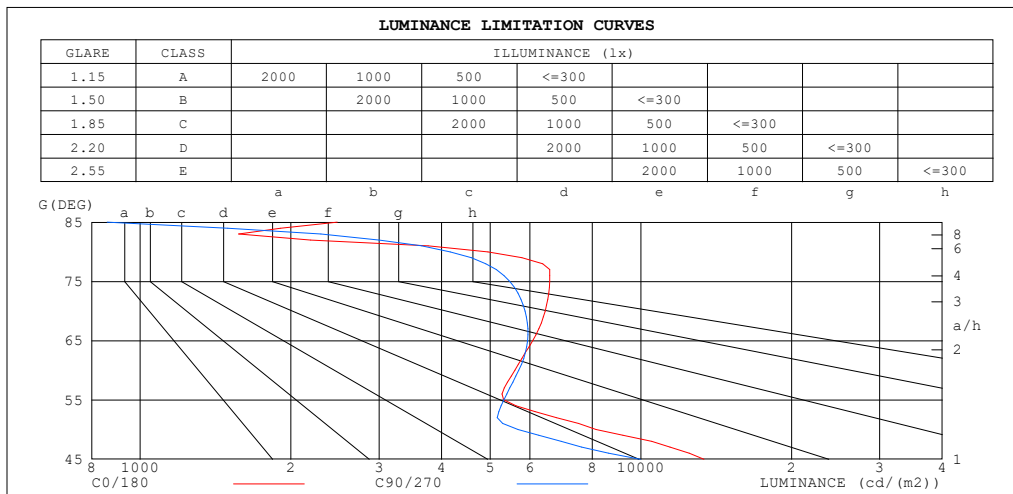
%lamp = 96.2%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:29 October 2020

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:240.10V I:0.0494A P:10.436W PF:0.8799 Freq:0Hz Lamp Flux:895.529x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2474	859
80	4955	4165
75	6578	5475
70	6440	5872
65	6086	5941
60	5600	5701
55	5321	5331
50	8140	5687
45	13363	9973

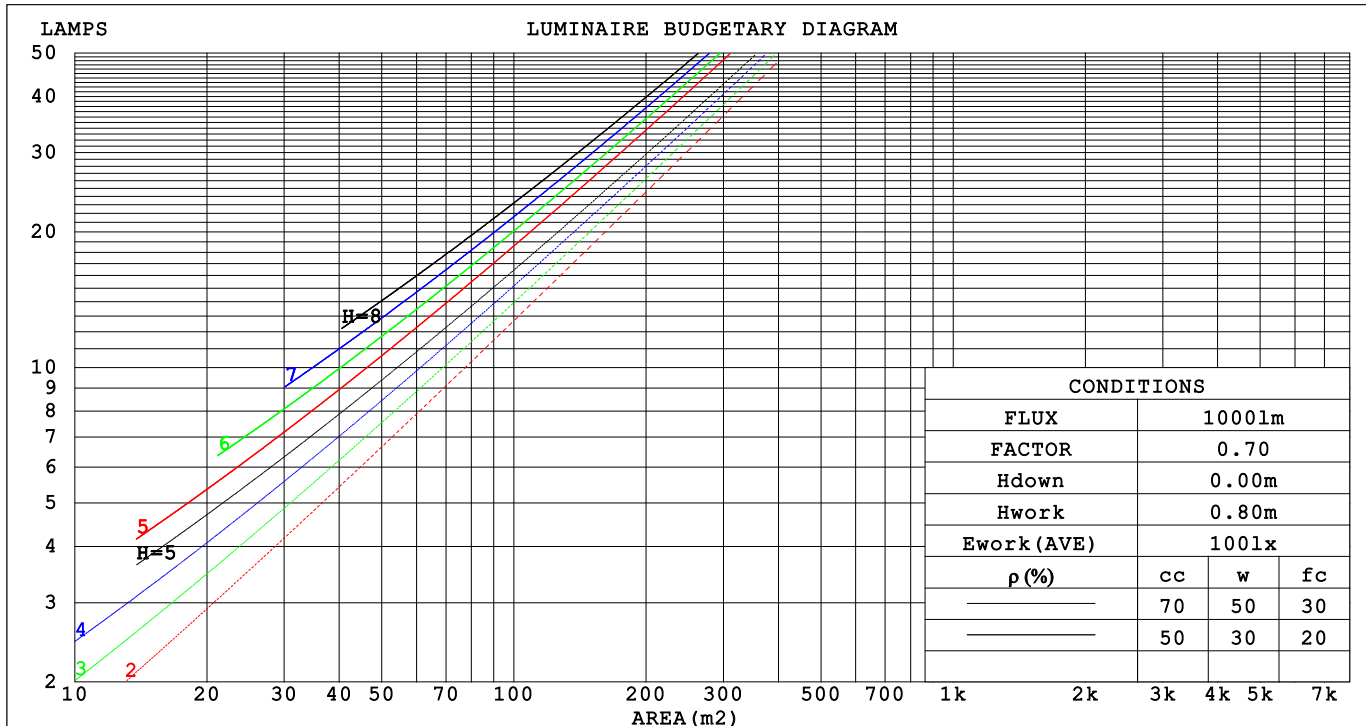
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:29 October 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.10V I:0.0494A P:10.436W PF:0.8799 Freq:0Hz Lamp Flux:895.529x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
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															



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:29 October 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:240.10V I:0.0494A P:10.436W PF:0.8799 Freq:0Hz Lamp Flux:895.529x1 lm											
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_50						DEG TYPE:LED			WEIGHT:		
SPEC.:						DIM.:			SERIAL No.:		
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	.195	.111	.035	.188	.107	.034	.176	.101	.032	.164	.095	.030	.153	.089	.029	
2.0	.186	.102	.031	.180	.099	.031	.170	.094	.029	.160	.090	.028	.150	.085	.027	
3.0	.176	.094	.028	.171	.092	.028	.162	.088	.027	.153	.084	.026	.145	.081	.025	
4.0	.166	.086	.025	.162	.085	.025	.154	.082	.024	.147	.079	.024	.140	.076	.023	
5.0	.158	.080	.023	.154	.079	.023	.147	.077	.023	.141	.074	.022	.134	.072	.022	
6.0	.150	.075	.021	.147	.074	.021	.140	.072	.021	.135	.070	.021	.129	.068	.020	
7.0	.143	.070	.020	.140	.070	.020	.134	.068	.020	.129	.066	.019	.124	.065	.019	
8.0	.136	.066	.019	.133	.066	.019	.128	.064	.018	.124	.063	.018	.120	.061	.018	
9.0	.130	.063	.018	.128	.062	.017	.123	.061	.017	.119	.060	.017	.115	.058	.017	
10.0	.124	.060	.017	.122	.059	.016	.118	.058	.016	.115	.057	.016	.111	.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	.172	.157	.143	.147	.135	.123	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.158	.132	.111	.135	.114	.096	.093	.079	.067	.054	.046	.039	.017	.015	.013	
3.0	.146	.114	.088	.125	.098	.076	.086	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.136	.099	.071	.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	.121	.079	.048	.104	.068	.042	.072	.048	.030	.041	.028	.018	.013	.009	.006	
7.0	.114	.071	.041	.098	.062	.036	.068	.043	.025	.039	.025	.015	.013	.008	.005	
8.0	.108	.065	.035	.093	.056	.031	.065	.040	.022	.038	.023	.013	.012	.008	.004	
9.0	.103	.060	.030	.089	.052	.027	.062	.036	.019	.036	.022	.011	.012	.007	.004	
10.0	.099	.055	.027	.085	.048	.023	.059	.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:29 October 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:240.10V I:0.0494A P:10.436W PF:0.8799 Freq:0Hz Lamp Flux:895.529x1 lm											
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_50							DEG TYPE:LED		WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:			
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		18.6	19.6	18.8	19.8	20.0	17.5	18.6	17.8	18.7	18.9
3H		19.0	20.0	19.3	20.2	20.4	18.1	19.0	18.4	19.2	19.5
4H		19.3	20.2	19.6	20.5	20.7	18.4	19.3	18.7	19.5	19.7
6H		19.6	20.4	19.9	20.7	20.9	18.6	19.4	18.9	19.7	19.9
8H		19.6	20.4	19.9	20.6	20.9	18.6	19.4	18.9	19.6	19.9
12H		19.5	20.3	19.9	20.6	20.9	18.5	19.3	18.9	19.6	19.9
4H 2H		18.6	19.5	18.9	19.7	19.9	17.6	18.5	17.9	18.7	19.0
3H		19.2	20.0	19.6	20.3	20.6	18.4	19.2	18.7	19.4	19.7
4H		19.7	20.4	20.0	20.7	21.0	18.8	19.5	19.2	19.8	20.1
6H		20.1	20.7	20.4	21.0	21.4	19.1	19.7	19.5	20.1	20.4
8H		20.1	20.7	20.5	21.0	21.4	19.2	19.7	19.6	20.1	20.5
12H		20.1	20.6	20.5	21.0	21.4	19.1	19.6	19.5	20.0	20.4
8H 4H		19.8	20.4	20.2	20.7	21.1	19.0	19.6	19.4	19.9	20.3
6H		20.3	20.8	20.7	21.2	21.6	19.4	19.9	19.8	20.3	20.7
8H		20.4	20.8	20.8	21.2	21.7	19.4	19.9	19.9	20.3	20.7
12H		20.4	20.8	20.9	21.2	21.7	19.4	19.8	19.9	20.2	20.7
12H 4H		19.8	20.3	20.2	20.7	21.1	19.0	19.5	19.4	19.9	20.3
6H		20.3	20.7	20.7	21.1	21.6	19.4	19.8	19.9	20.2	20.7
8H		20.4	20.8	20.9	21.2	21.7	19.5	19.8	20.0	20.3	20.8
Variations with the observer position at spacings:											
S = 1.0H		+ 1.1 / - 0.9					+ 0.7 / - 0.9				
1.5H		+ 2.1 / - 1.0					+ 1.5 / - 1.0				
2.0H		+ 1.6 / - 0.6					+ 0.9 / - 0.5				

CIE Pub.117, 895.5 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -0.4$)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:29 October 2020

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.10V I:0.0494A P:10.436W PF:0.8799 Freq:0Hz Lamp Flux:895.529x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

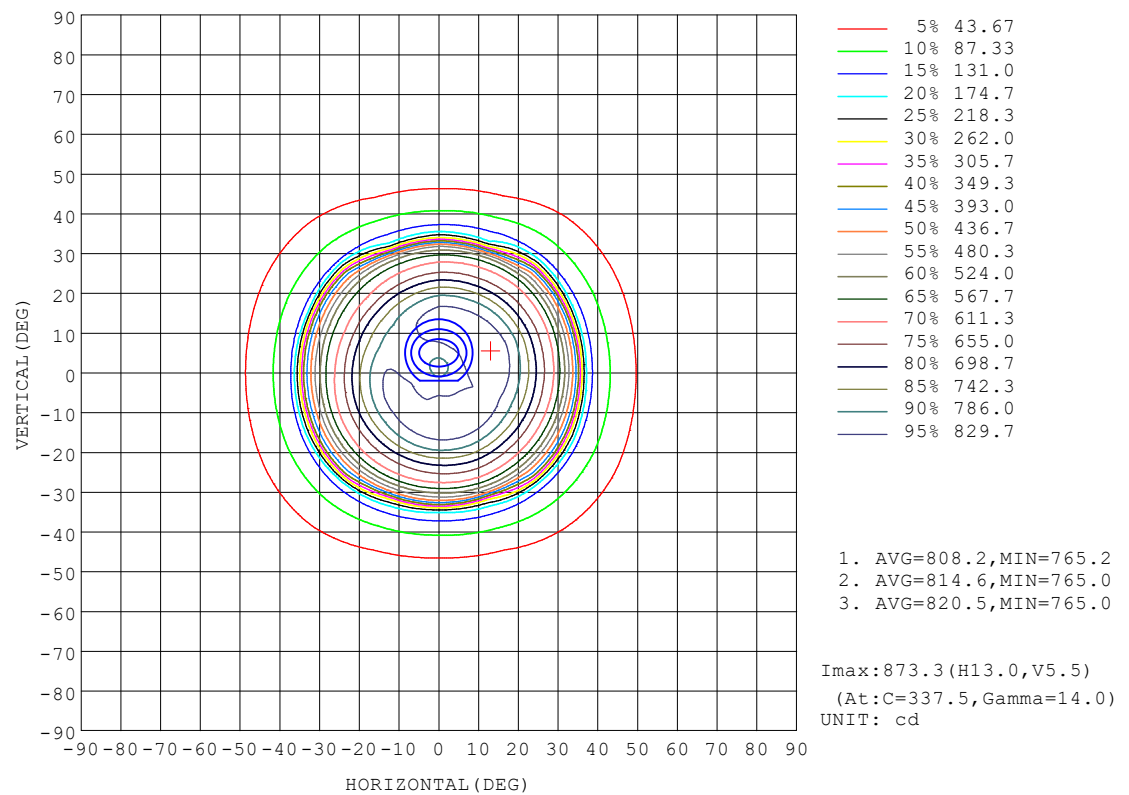
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	77	73	84	77	73	83	77	73	69
0.80	92	85	81	91	85	81	90	85	81	77
1.00	97	91	86	96	90	86	94	90	86	81
1.25	101	95	91	100	95	91	98	93	90	86
1.50	104	99	95	103	98	94	100	96	93	88
2.00	107	102	99	106	101	98	103	99	96	91
2.50	109	105	101	107	103	100	104	101	99	92
3.00	111	107	104	109	105	103	105	103	101	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	110	112	110	108	108	107	105	97
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:29 October 2020

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:240.10V I:0.0494A P:10.436W PF:0.8799 Freq:0Hz Lamp Flux:895.529x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

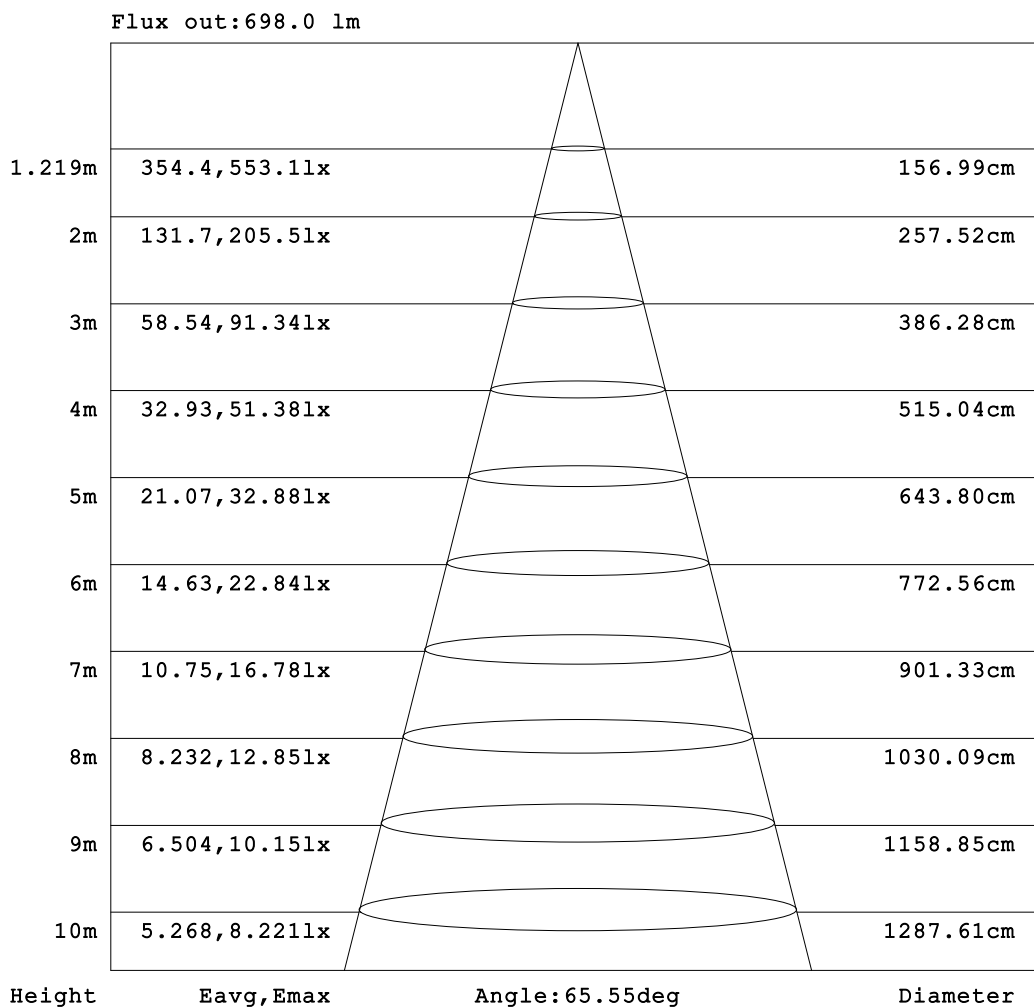


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:29 October 2020

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

AAI Figure

Test:U:240.10V I:0.0494A P:10.436W PF:0.8799 Freq:0Hz Lamp Flux:895.529x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



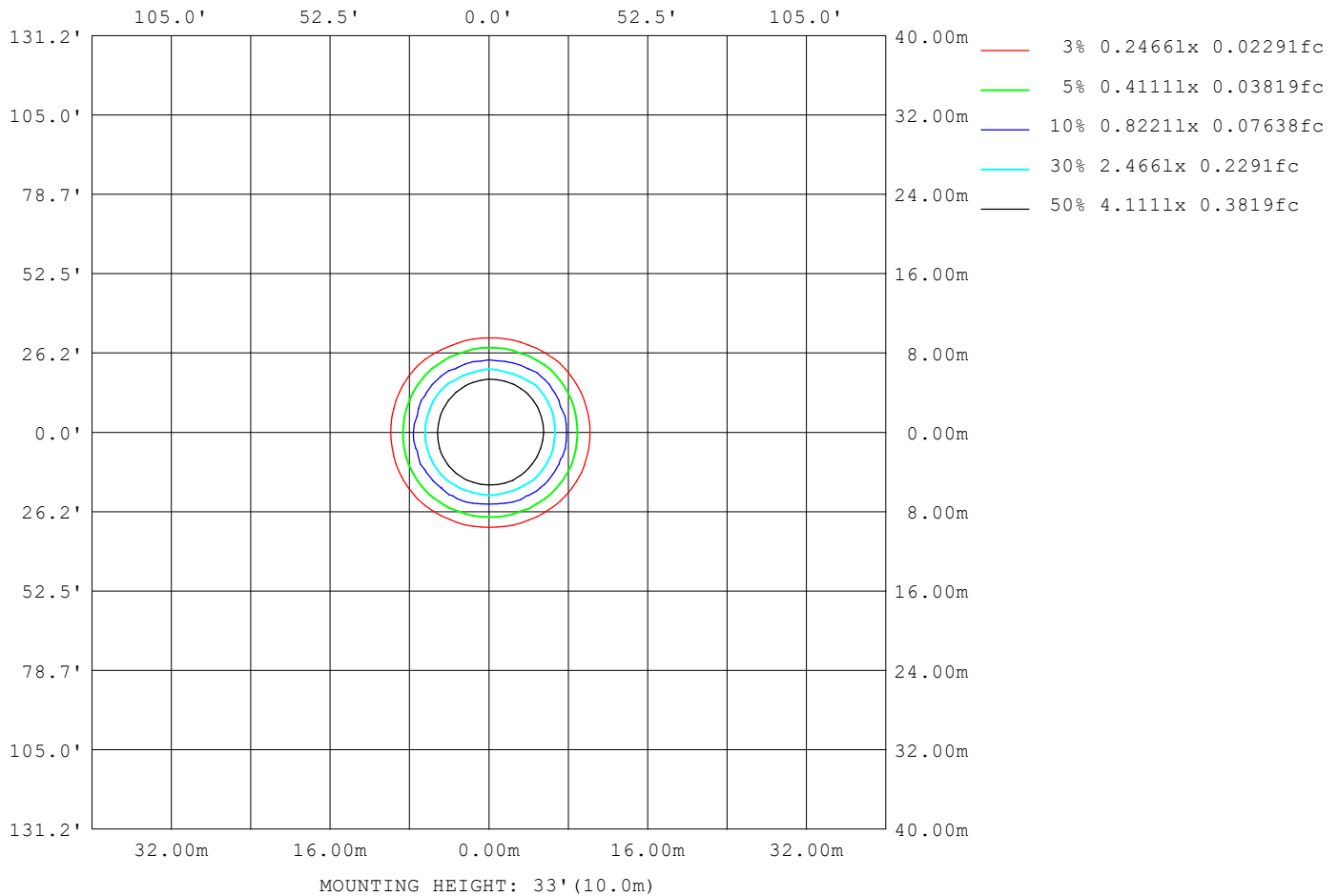
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:29 October 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:240.10V I:0.0494A P:10.436W PF:0.8799 Freq:0Hz Lamp Flux:895.529x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:29 October 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:240.10V I:0.0494A P:10.436W PF:0.8799 Freq:0Hz Lamp Flux:895.529x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

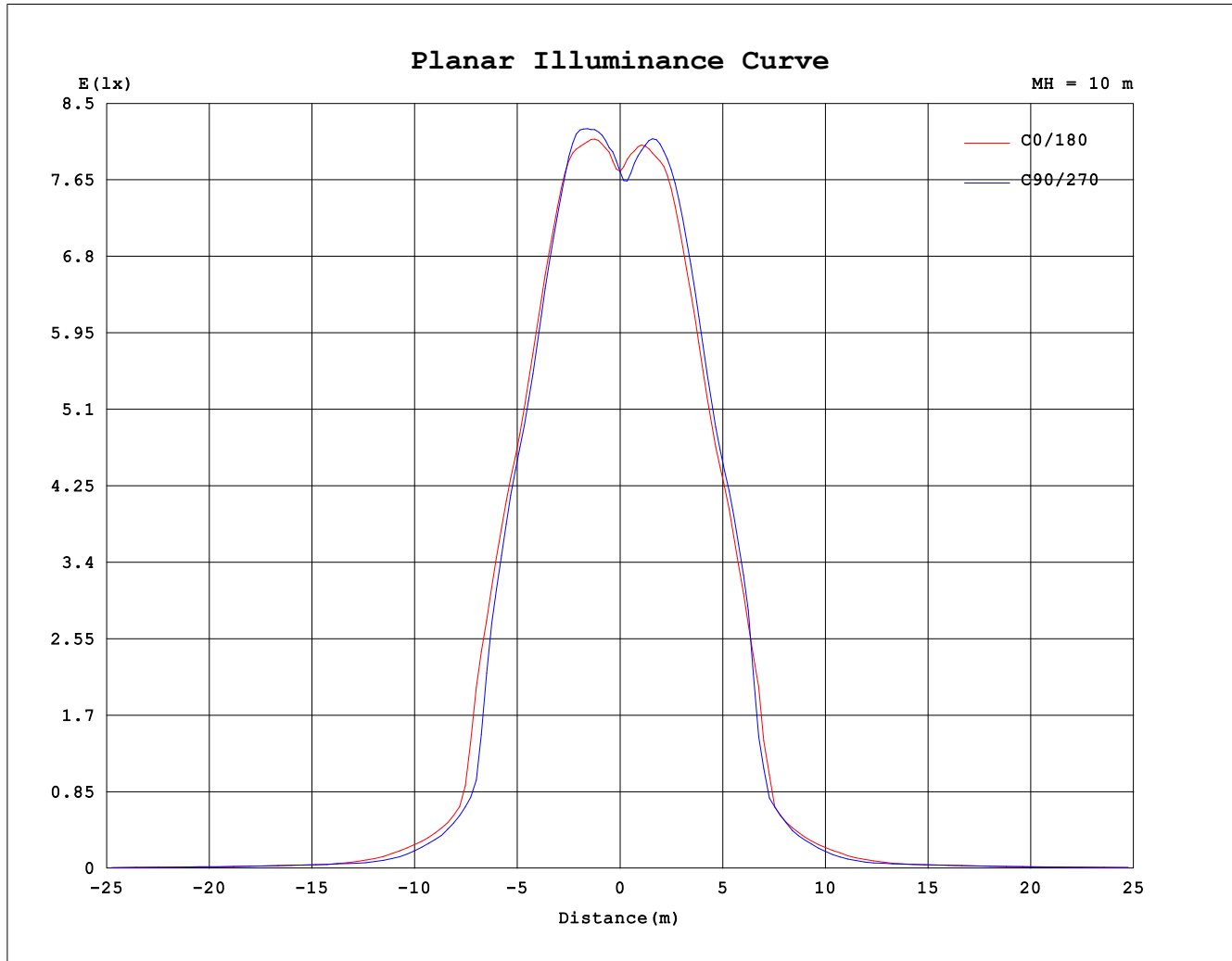
AvgL	cd/m2
L_0~180 (65) av	6151
L_0~180 (75) av	6507
L_0~180 (85) av	2280
L_90~270 (65) av	5777
L_90~270 (75) av	5204
L_90~270 (85) av	774
L_45 (65) av	5892
L_45 (75) av	5706
L_45 (85) av	1418

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:29 October 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [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: 29 October 2020

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity: 65.0%
Test Distance: 7.250m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

```