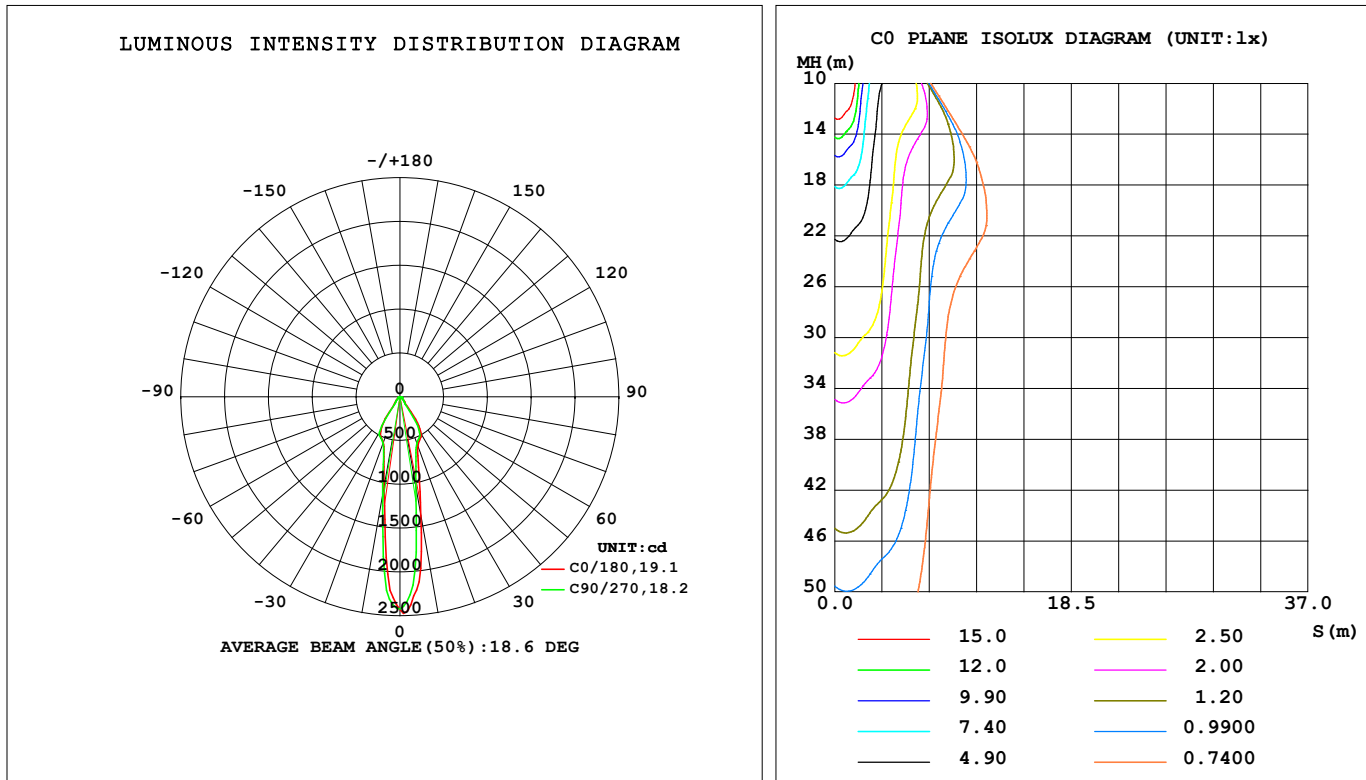


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:239.98V I:0.0494A P:10.437W PF:0.8802 Freq:50.09Hz Lamp Flux:867.078x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_24	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 83.08 lm/W
MODEL	SLE G7 09MM 3000K	I _{max} (cd)	2471	S/MH (C0/180)	0.28	
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	0.32	
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	867.08	η UP,DN (C0-180)	0.0,50.3	
NOMINAL FLUX (lm)	867.078	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,49.7	
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	



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JEFF
Test Date: 22 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	1381	1316	1055	1003	1055	1128	1138	1203	0- 10	161.2	161.2	18.6,18.6
20	602.9	601.9	570.0	556.1	562.2	572.0	570.4	580.9	10- 20	214.5	375.7	43.3,43.3
30	483.4	470.1	436.6	431.4	434.2	460.0	468.1	479.2	20- 30	240.4	616.2	71.1,71.1
40	90.59	87.65	81.23	85.54	87.85	83.95	79.22	88.23	30- 40	142.7	758.8	87.5,87.5
50	45.89	39.98	31.50	40.09	41.46	37.53	29.54	41.70	40- 50	47.78	806.6	93,93
60	23.48	23.72	24.26	24.28	24.52	23.36	22.91	22.60	50- 60	24.45	831.1	95.8,95.8
70	18.35	17.53	17.01	17.81	18.71	16.66	15.60	16.61	60- 70	20.69	851.8	98.2,98.2
80	7.113	7.315	5.991	7.362	7.485	6.290	5.174	6.914	70- 80	13.04	864.8	99.7,99.7
90	0.0658	0.0439	0.0345	0.0501	0.0596	0.0439	0.0376	0.0376	80- 90	2.272	867.1	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): 786.39 lm

%lum = 90.7%

%lamp = 90.7%

Conical surface Flux(120deg): 831.08 lm

%lum = 95.8%

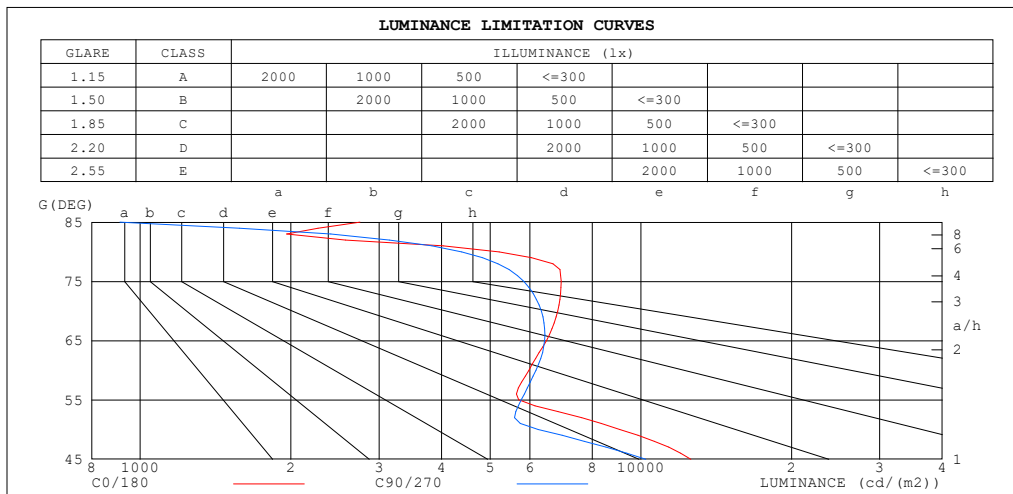
%lamp = 95.8%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:22 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:239.98V I:0.0494A P:10.437W PF:0.8802 Freq:50.09Hz Lamp Flux:867.078x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_24	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2750	912
80	5212	4389
75	6931	5838
70	6827	6328
65	6479	6423
60	5974	6173
55	5706	5773
50	9083	6235
45	12588	10229

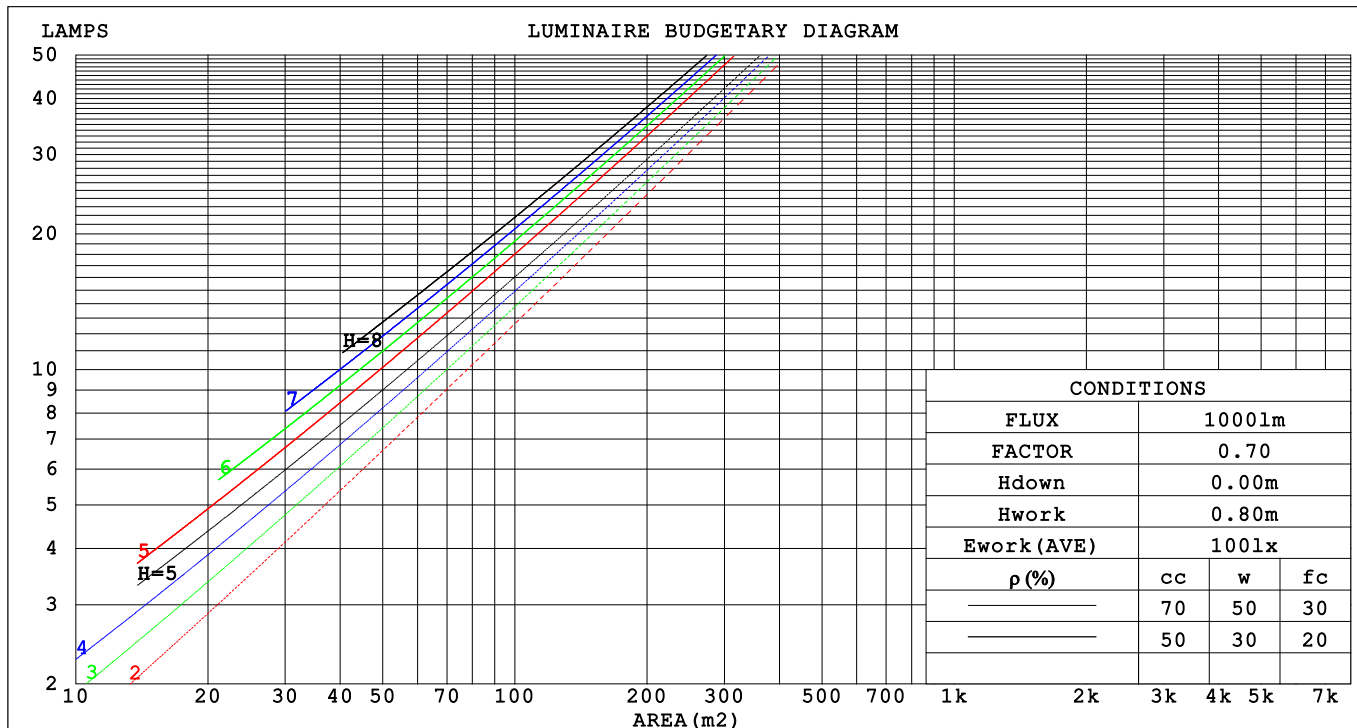
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:22 October 2020

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:239.98V I:0.0494A P:10.437W PF:0.8802 Freq:50.09Hz Lamp Flux:867.078x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_24	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	1.00
1.0	1.10	1.08	1.05	1.08	1.06	1.04	1.04	1.02	1.00	1.00	.99	.97	.97	.96	.95	.93
2.0	1.02	.98	.95	1.01	.97	.94	.97	.94	.91	.94	.92	.90	.92	.89	.88	.86
3.0	.95	.90	.86	.94	.89	.86	.91	.87	.84	.89	.86	.83	.87	.84	.82	.80
4.0	.89	.84	.79	.88	.83	.79	.86	.82	.78	.84	.80	.77	.82	.79	.76	.75
5.0	.84	.78	.74	.83	.78	.73	.81	.76	.73	.80	.75	.72	.78	.74	.72	.70
6.0	.79	.73	.69	.78	.73	.69	.77	.72	.68	.75	.71	.68	.74	.70	.67	.66
7.0	.75	.69	.65	.74	.69	.65	.73	.68	.64	.72	.67	.64	.71	.67	.64	.62
8.0	.71	.65	.61	.70	.65	.61	.69	.64	.61	.68	.64	.60	.67	.63	.60	.59
9.0	.68	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.57	.64	.60	.57	.56
10.0	.64	.59	.55	.64	.59	.55	.63	.58	.55	.62	.58	.55	.62	.57	.54	.53



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:22 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:239.98V I:0.0494A P:10.437W PF:0.8802 Freq:50.09Hz Lamp Flux:867.078x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_24	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	.188	.107	.034	.181	.103	.033	.168	.097	.031	.157	.090	.029	.146	.085	.027	
2.0	.178	.097	.030	.172	.095	.029	.161	.090	.028	.152	.085	.027	.143	.081	.025	
3.0	.167	.089	.027	.162	.087	.026	.153	.083	.025	.145	.079	.024	.137	.076	.023	
4.0	.158	.082	.024	.153	.080	.024	.146	.077	.023	.138	.074	.022	.131	.071	.022	
5.0	.149	.076	.022	.145	.074	.022	.138	.072	.021	.132	.070	.021	.126	.067	.020	
6.0	.141	.070	.020	.137	.069	.020	.131	.067	.020	.126	.065	.019	.121	.064	.019	
7.0	.133	.066	.019	.131	.065	.019	.125	.063	.018	.120	.062	.018	.116	.060	.018	
8.0	.127	.062	.017	.124	.061	.017	.120	.060	.017	.115	.058	.017	.111	.057	.017	
9.0	.121	.058	.016	.119	.058	.016	.114	.057	.016	.110	.055	.016	.107	.054	.016	
10.0	.115	.055	.015	.113	.055	.015	.110	.054	.015	.106	.053	.015	.103	.052	.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	.086	.058	.054	.050	.019	.017	.016	
2.0	.157	.132	.112	.135	.114	.097	.092	.079	.067	.053	.046	.040	.017	.015	.013	
3.0	.145	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.134	.099	.072	.115	.085	.063	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.125	.087	.059	.108	.076	.052	.074	.053	.036	.043	.031	.022	.014	.010	.007	
6.0	.118	.078	.050	.101	.068	.043	.070	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.111	.070	.042	.095	.061	.037	.066	.043	.026	.038	.025	.015	.012	.008	.005	
8.0	.105	.064	.036	.090	.056	.032	.062	.039	.022	.036	.023	.013	.012	.008	.004	
9.0	.099	.059	.031	.086	.051	.027	.059	.036	.019	.035	.021	.012	.011	.007	.004	
10.0	.094	.054	.028	.081	.047	.024	.056	.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:22 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:239.98V I:0.0494A P:10.437W PF:0.8802 Freq:50.09Hz Lamp Flux:867.078x1 lm											
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_24 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		18.0	19.0	18.3	19.1	19.3	16.9	17.9	17.2	18.0	18.2
3H		18.7	19.6	19.0	19.8	20.0	17.8	18.7	18.0	18.9	19.1
4H		19.1	19.9	19.4	20.2	20.4	18.2	19.0	18.5	19.3	19.5
6H		19.4	20.2	19.7	20.5	20.7	18.4	19.2	18.7	19.5	19.7
8H		19.4	20.2	19.7	20.4	20.7	18.5	19.2	18.8	19.5	19.7
12H		19.4	20.1	19.7	20.4	20.7	18.4	19.2	18.8	19.4	19.7
4H 2H		18.1	19.0	18.4	19.2	19.4	17.1	18.0	17.4	18.2	18.4
3H		19.0	19.8	19.4	20.0	20.3	18.3	19.0	18.6	19.3	19.5
4H		19.6	20.3	20.0	20.6	20.9	18.8	19.5	19.2	19.8	20.1
6H		20.1	20.7	20.4	21.0	21.3	19.2	19.8	19.6	20.1	20.4
8H		20.1	20.7	20.5	21.0	21.4	19.2	19.8	19.6	20.1	20.5
12H		20.1	20.6	20.5	21.0	21.4	19.2	19.7	19.6	20.1	20.4
8H 4H		19.8	20.3	20.2	20.7	21.0	19.0	19.6	19.4	19.9	20.3
6H		20.3	20.8	20.8	21.2	21.6	19.5	19.9	19.9	20.3	20.8
8H		20.5	20.9	20.9	21.3	21.7	19.6	20.0	20.0	20.4	20.8
12H		20.5	20.8	21.0	21.3	21.8	19.5	19.9	20.0	20.3	20.8
12H 4H		19.7	20.2	20.2	20.6	21.0	19.0	19.5	19.4	19.9	20.3
6H		20.3	20.7	20.8	21.2	21.6	19.5	19.9	20.0	20.3	20.8
8H		20.5	20.8	21.0	21.3	21.7	19.6	19.9	20.1	20.4	20.9
Variations with the observer position at spacings:											
S = 1.0H		+ 0.6 / - 0.6					+ 0.5 / - 0.6				
1.5H		+ 1.2 / - 0.7					+ 0.7 / - 0.7				
2.0H		+ 1.2 / - 0.6					+ 1.0 / - 0.5				

CIE Pub.117, 867.1 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -0.5$)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:22 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:239.98V I:0.0494A P:10.437W PF:0.8802 Freq:50.09Hz Lamp Flux:867.078x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_24	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

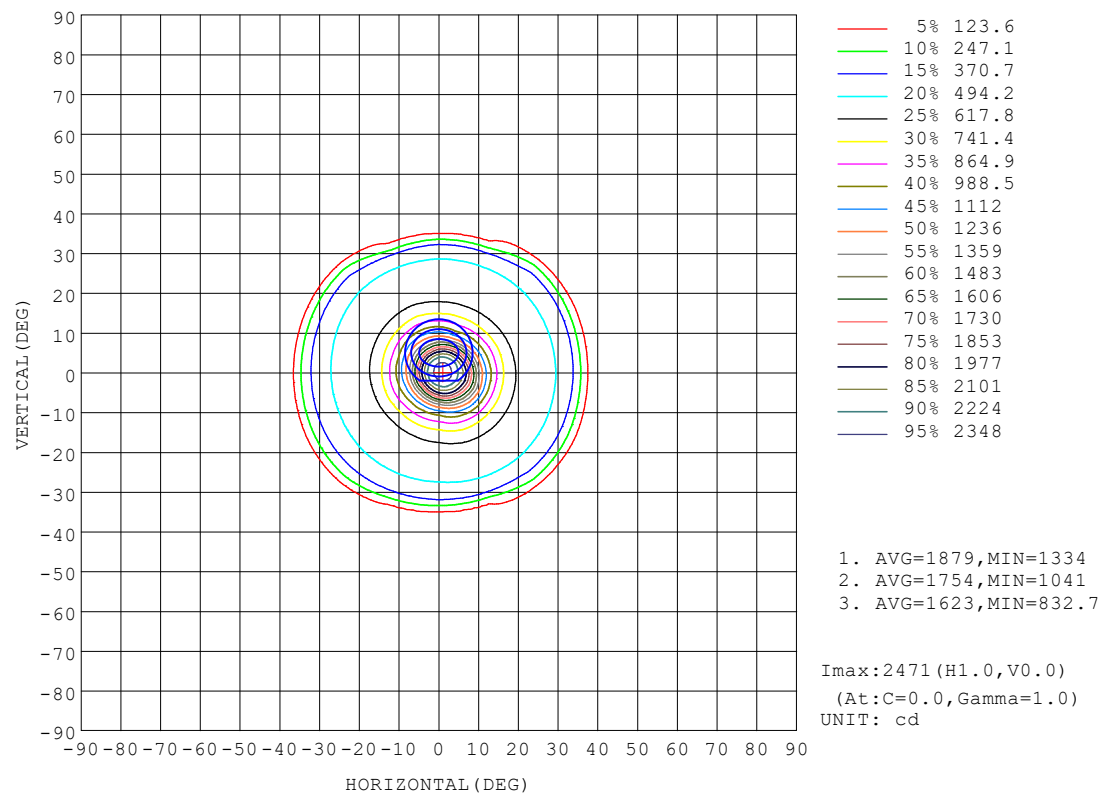
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	77	73	83	77	73	83	76	73	69
0.80	92	85	81	91	85	81	90	84	80	76
1.00	96	90	86	95	90	86	94	90	85	81
1.25	101	95	91	100	94	91	98	93	90	85
1.50	104	98	94	102	97	94	100	96	93	88
2.00	107	102	98	105	101	98	103	99	96	91
2.50	109	104	101	107	103	100	104	101	98	92
3.00	111	107	104	109	105	103	105	103	100	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	110	112	110	108	108	106	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:22 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:239.98V I:0.0494A P:10.437W PF:0.8802 Freq:50.09Hz Lamp Flux:867.078x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_24	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

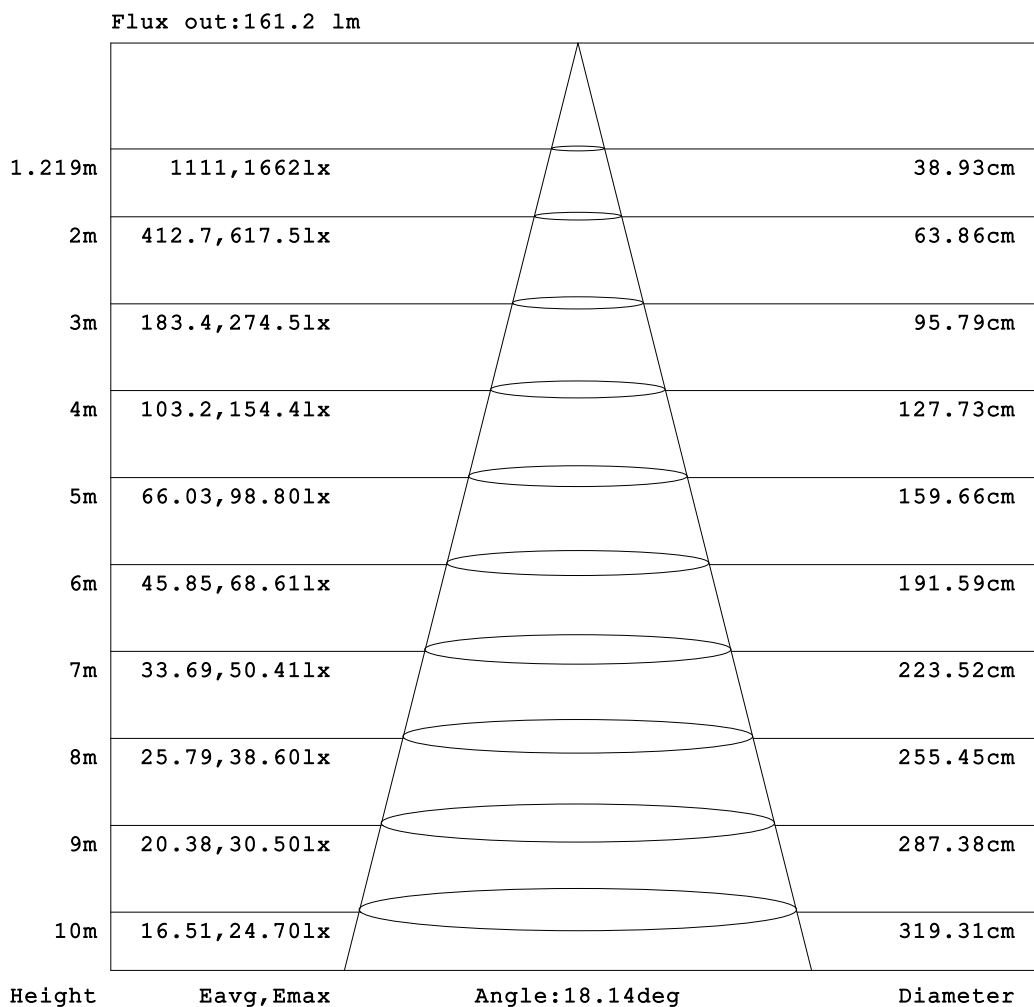


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:22 October 2020

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:239.98V I:0.0494A P:10.437W PF:0.8802 Freq:50.09Hz Lamp Flux:867.078x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_24	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



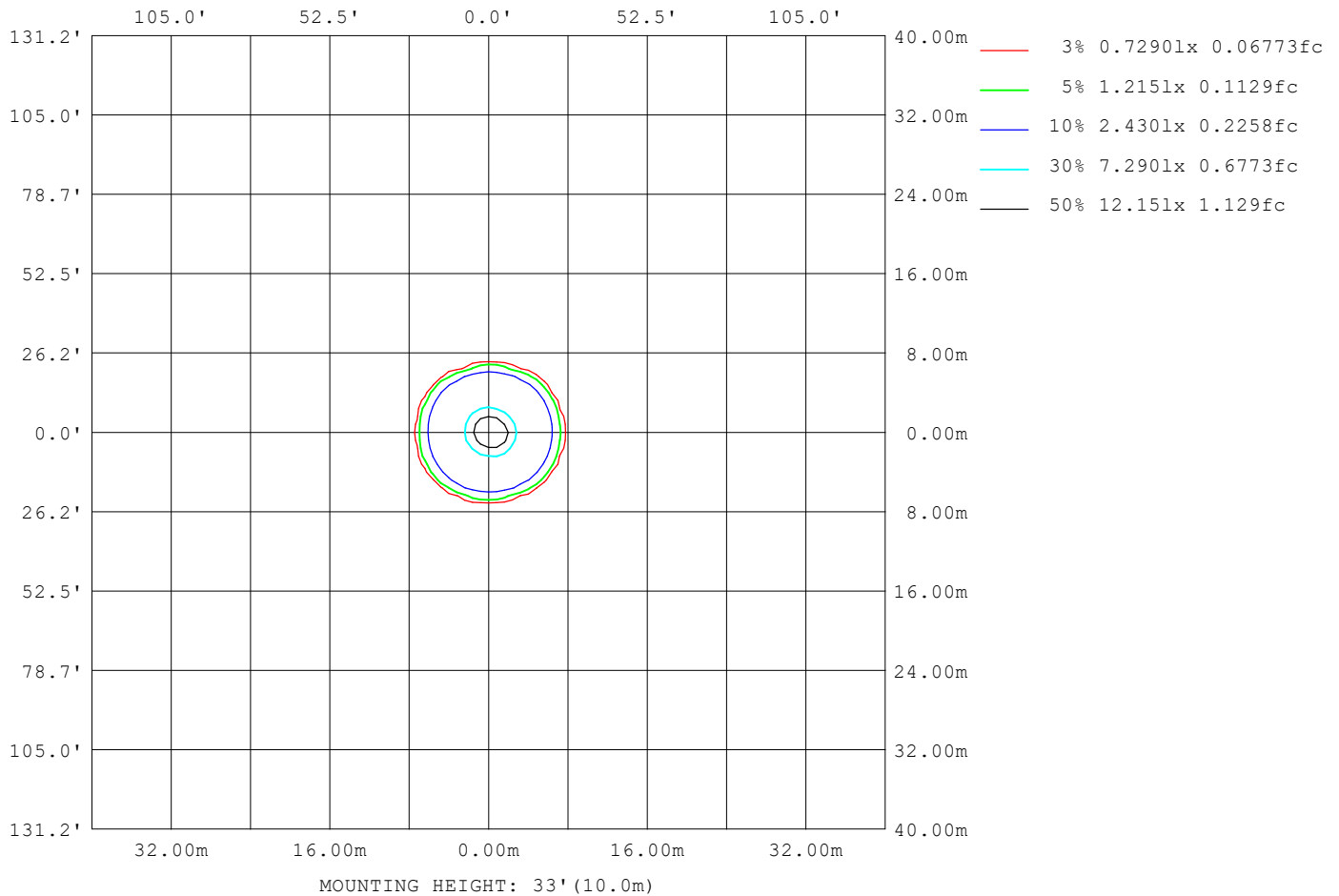
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:22 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:239.98V I:0.0494A P:10.437W PF:0.8802 Freq:50.09Hz Lamp Flux:867.078x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_24	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:22 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:239.98V I:0.0494A P:10.437W PF:0.8802 Freq:50.09Hz Lamp Flux:867.078x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_24	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

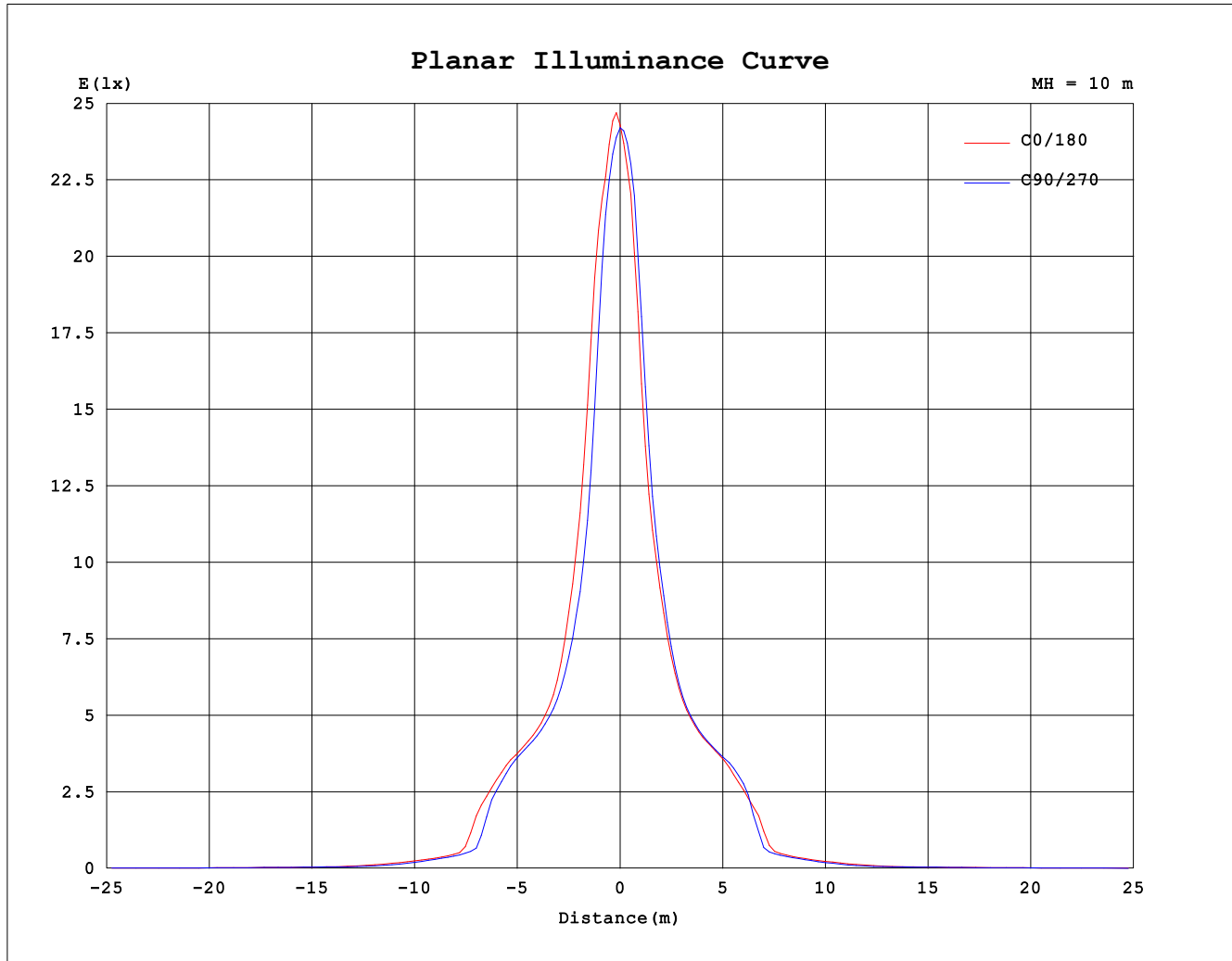
AvgL	cd/m2
L_0~180 (65) av	6598
L_0~180 (75) av	6922
L_0~180 (85) av	2553
L_90~270 (65) av	6214
L_90~270 (75) av	5525
L_90~270 (85) av	827
L_45 (65) av	6328
L_45 (75) av	6062
L_45 (85) av	1496

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:22 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: 22 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:

```