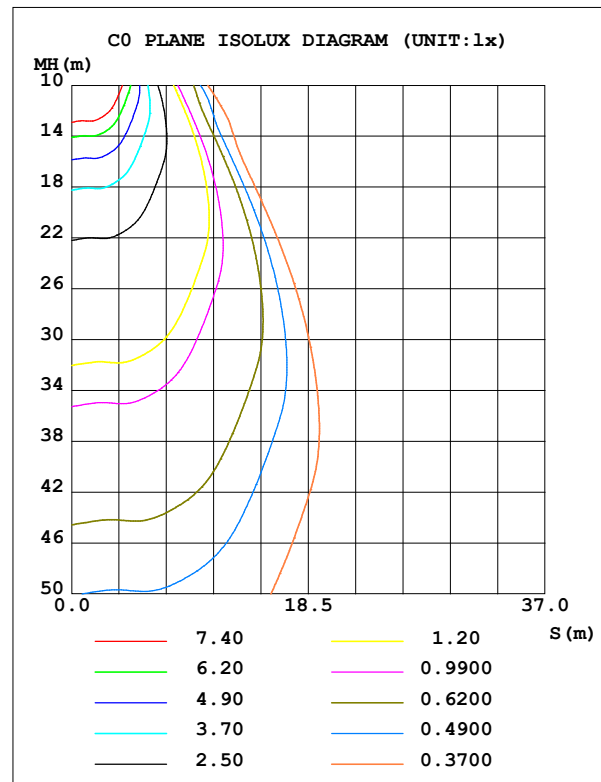
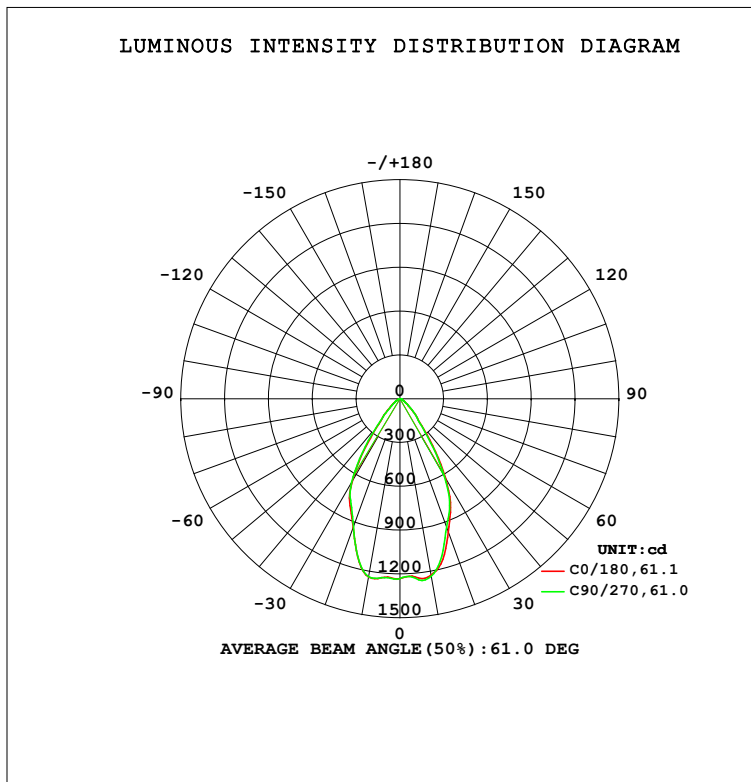


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.12V I:0.0686A P:16.008W PF:0.9717 Freq:50.09Hz Lamp Flux:1233.91x1 lm		
NAME: DeepDownLED_WHT_SLE 10mm_350mA_4K_50°	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Darkon	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 77.08 lm/W
MODEL	SLE G6 10mm 840	I _{max} (cd)	1257	S/MH (C0/180)	0.92	
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	0.90	
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	1233.9	η UP,DN (C0-180)	0.0,49.3	
NOMINAL FLUX (lm)	1233.91	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,50.7	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE (V)	220.0	η down (%)	100.0	CIBSE SHR MAX	0.95	



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Ky
Test Date:29 June 2018

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.220m [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	1227	1225	1234	1246	1240	1238	1237	1242	0- 10	118.2	118.2	9.58,9.58
20	972.0	939.2	936.6	933.4	938.7	931.4	933.9	978.0	10- 20	310.7	428.9	34.8,34.8
30	622.3	600.1	607.9	631.4	655.9	669.4	662.3	644.5	20- 30	367.1	796.0	64.5,64.5
40	211.0	204.8	203.2	213.5	226.3	233.9	239.6	226.3	30- 40	255.2	1051	85.2,85.2
50	79.67	82.88	84.63	83.28	84.43	78.67	77.14	74.79	40- 50	108.6	1160	94,94
60	30.09	28.90	28.66	28.94	30.05	30.49	30.54	30.28	50- 60	45.53	1205	97.7,97.7
70	9.761	9.488	9.312	9.353	9.525	9.691	9.813	9.863	60- 70	16.25	1222	99,99
80	6.689	6.381	6.187	6.205	6.361	6.587	6.761	6.809	70- 80	8.816	1230	99.7,99.7
90	0.0528	0.0497	0.0560	0.0435	0.0466	0.0373	0.0404	0.0373	80- 90	3.549	1234	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): 1116.7 lm

%lum = 90.5%

%lamp = 90.5%

Conical surface Flux(120deg): 1205.3 lm

%lum = 97.7%

%lamp = 97.7%

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:Ky

Test Date:29 June 2018

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366

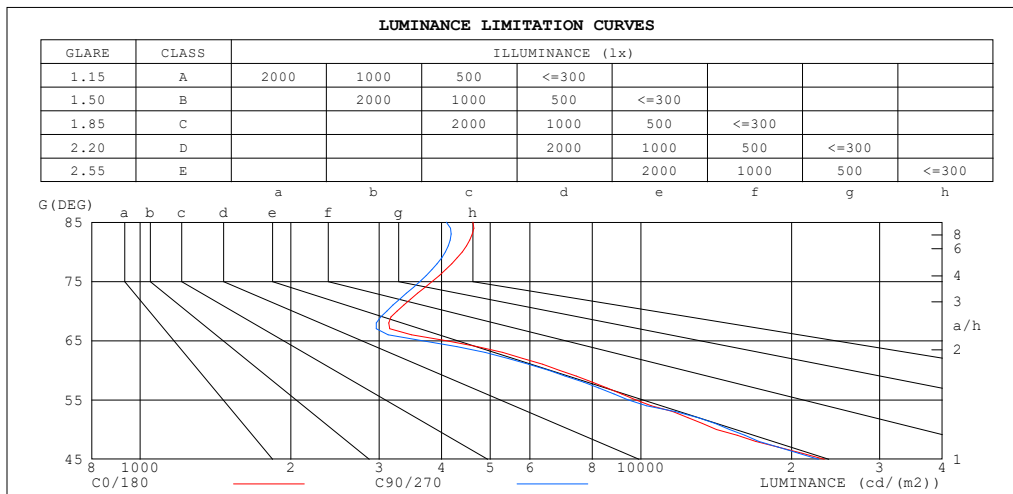
Humidity:65.0%

Test Distance:7.220m [K=1.0000]

Remarks:

LUMINANCE LIMITATION CURVES

Test:U:240.12V I:0.0686A P:16.008W PF:0.9717 Freq:50.09Hz Lamp Flux:1233.91x1 lm		
NAME: DeepDownLED_WHT_SLE 10mm_350mA_4K_50°	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Darkon	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4622	4089
80	4401	4070
75	3834	3623
70	3261	3111
65	4070	3645
60	6875	6548
55	9762	9418
50	14160	15041
45	23262	22637

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:Ky

Test Date:29 June 2018

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366

Humidity:65.0%

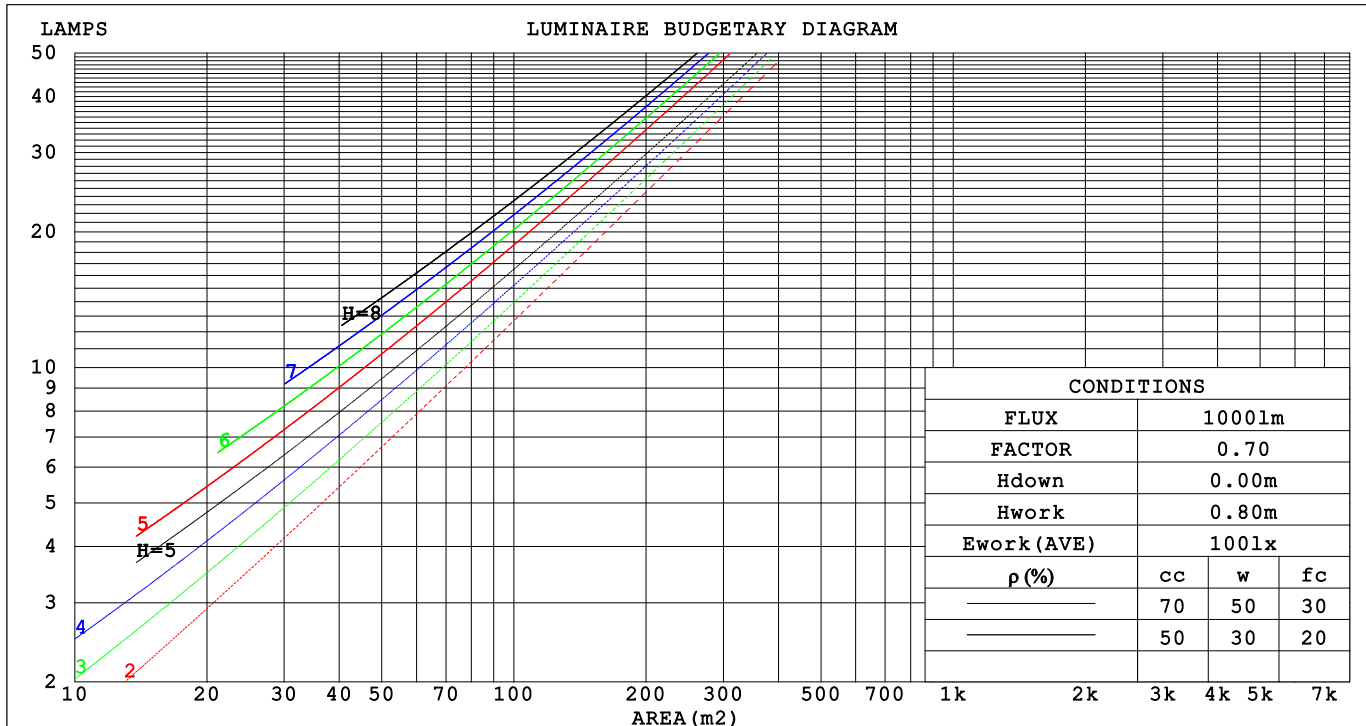
Test Distance:7.220m [K=1.0000]

Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.12V I:0.0686A P:16.008W PF:0.9717 Freq:50.09Hz Lamp Flux:1233.91x1 lm		
NAME: DeepDownLED_WHT_SLE 10mm_350mA_4K_50°	TYPE:	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:Ky
Test Date:29 June 2018

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.220m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:240.12V I:0.0686A P:16.008W PF:0.9717 Freq:50.09Hz Lamp Flux:1233.91x1 lm		
NAME: DeepDownLED_WHT_SLE 10mm_350mA_4K_50°	TYPE:	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	.194	.110	.035	.187	.107	.034	.175	.100	.032	.163	.094	.030	.152	.088	.028	
2.0	.186	.102	.031	.180	.099	.031	.169	.094	.029	.159	.089	.028	.150	.085	.027	
3.0	.177	.094	.028	.172	.092	.028	.162	.088	.027	.154	.084	.026	.146	.081	.025	
4.0	.168	.087	.026	.163	.086	.025	.155	.082	.025	.148	.079	.024	.141	.077	.023	
5.0	.159	.081	.024	.156	.080	.023	.149	.077	.023	.142	.075	.022	.136	.073	.022	
6.0	.151	.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	.138	.067	.019	.135	.066	.019	.130	.065	.019	.125	.064	.018	.121	.062	.018	
9.0	.131	.064	.018	.129	.063	.018	.125	.062	.017	.120	.060	.017	.117	.059	.017	
10.0	.126	.060	.017	.124	.060	.017	.120	.059	.016	.116	.058	.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	.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	.054	.046	.039	.017	.015	.013		
3.0	.146	.114	.088	.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	.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:Ky

Test Date:29 June 2018

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366

Humidity:65.0%

Test Distance:7.220m [K=1.0000]

Remarks:

UGR(Unified Glare Rating) Table

Test:U:240.12V I:0.0686A P:16.008W PF:0.9717 Freq:50.09Hz Lamp Flux:1233.91x1 lm											
NAME: DeepDownLED_WHT_SLE 10mm_350mA_4K_50°						TYPE:			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	2H	18.3	19.3	18.5	19.5	19.6	18.2	19.2	18.4	19.4	19.6
	3H	18.2	19.2	18.5	19.4	19.6	18.1	19.1	18.4	19.3	19.5
	4H	18.2	19.1	18.5	19.3	19.6	18.1	19.0	18.4	19.2	19.5
	6H	18.3	19.1	18.6	19.3	19.6	18.1	19.0	18.5	19.2	19.5
	8H	18.3	19.1	18.6	19.3	19.6	18.2	19.0	18.5	19.2	19.5
	12H	18.3	19.1	18.6	19.3	19.6	18.2	18.9	18.5	19.2	19.5
4H	2H	18.1	19.0	18.4	19.3	19.5	18.1	19.0	18.3	19.2	19.4
	3H	18.1	18.9	18.4	19.2	19.4	18.0	18.8	18.4	19.1	19.4
	4H	18.2	18.9	18.5	19.2	19.5	18.1	18.8	18.4	19.1	19.4
	6H	18.3	18.9	18.7	19.3	19.6	18.2	18.8	18.6	19.1	19.5
	8H	18.4	18.9	18.8	19.3	19.7	18.2	18.8	18.6	19.2	19.5
	12H	18.4	18.9	18.8	19.3	19.7	18.3	18.8	18.7	19.2	19.6
8H	4H	18.1	18.7	18.5	19.1	19.4	18.0	18.6	18.4	19.0	19.3
	6H	18.3	18.8	18.8	19.2	19.6	18.2	18.7	18.6	19.1	19.5
	8H	18.4	18.9	18.9	19.3	19.7	18.3	18.7	18.8	19.1	19.6
	12H	18.6	18.9	19.0	19.3	19.8	18.4	18.8	18.9	19.2	19.7
12H	4H	18.1	18.6	18.5	19.0	19.4	18.0	18.5	18.4	18.9	19.3
	6H	18.3	18.7	18.8	19.1	19.6	18.2	18.6	18.7	19.0	19.5
	8H	18.5	18.8	18.9	19.3	19.7	18.3	18.7	18.8	19.1	19.6
Variations with the observer position at spacings:											
S = 1.0H	+ 1.9 / - 2.6					+ 1.7 / - 2.7					
1.5H	+ 2.9 / - 2.2					+ 2.5 / - 2.3					
2.0H	+ 3.4 / - 2.5					+ 3.2 / - 2.7					

CIE Pub.117, 1234 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.7)

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:Ky

Test Date:29 June 2018

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366

Humidity:65.0%

Test Distance:7.220m [K=1.0000]

Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.12V I:0.0686A P:16.008W PF:0.9717 Freq:50.09Hz Lamp Flux:1233.91x1 lm		
NAME: DeepDownLED_WHT_SLE 10mm_350mA_4K_50°	TYPE:	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) $k(RI) \times RCR = 5$									
$k = 0.60$	82	75	71	82	75	70	81	74	70	66
0.80	90	84	79	90	83	79	88	83	79	74
1.00	96	89	85	95	89	85	93	89	84	80
1.25	100	94	90	99	94	90	97	93	89	85
1.50	103	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	104	109	105	102	105	103	100	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	111	109	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:Ky

Test Date:29 June 2018

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366

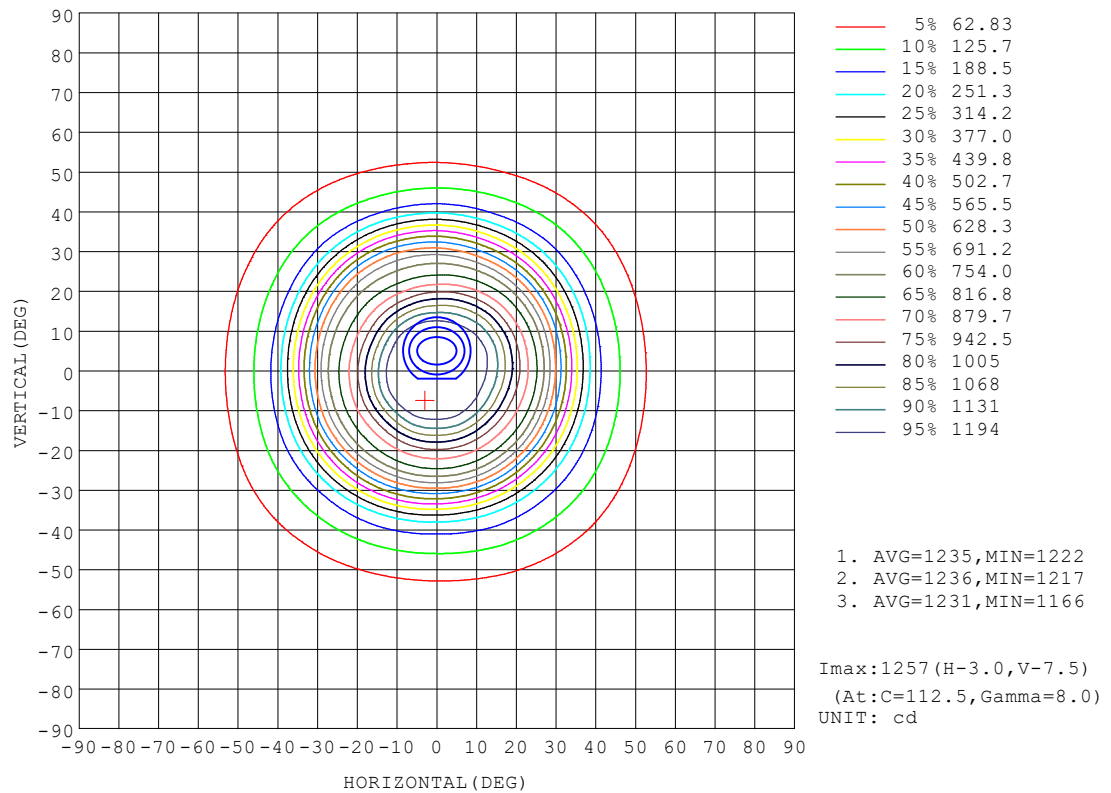
Humidity:65.0%

Test Distance:7.220m [K=1.0000]

Remarks:

ISOCANDELA DIAGRAM

Test:U:240.12V I:0.0686A P:16.008W PF:0.9717 Freq:50.09Hz Lamp Flux:1233.91x1 lm		
NAME: DeepDownLED_WHT_SLE 10mm_350mA_4K_50°	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Darkon	SUR.:	Shielding Angle:

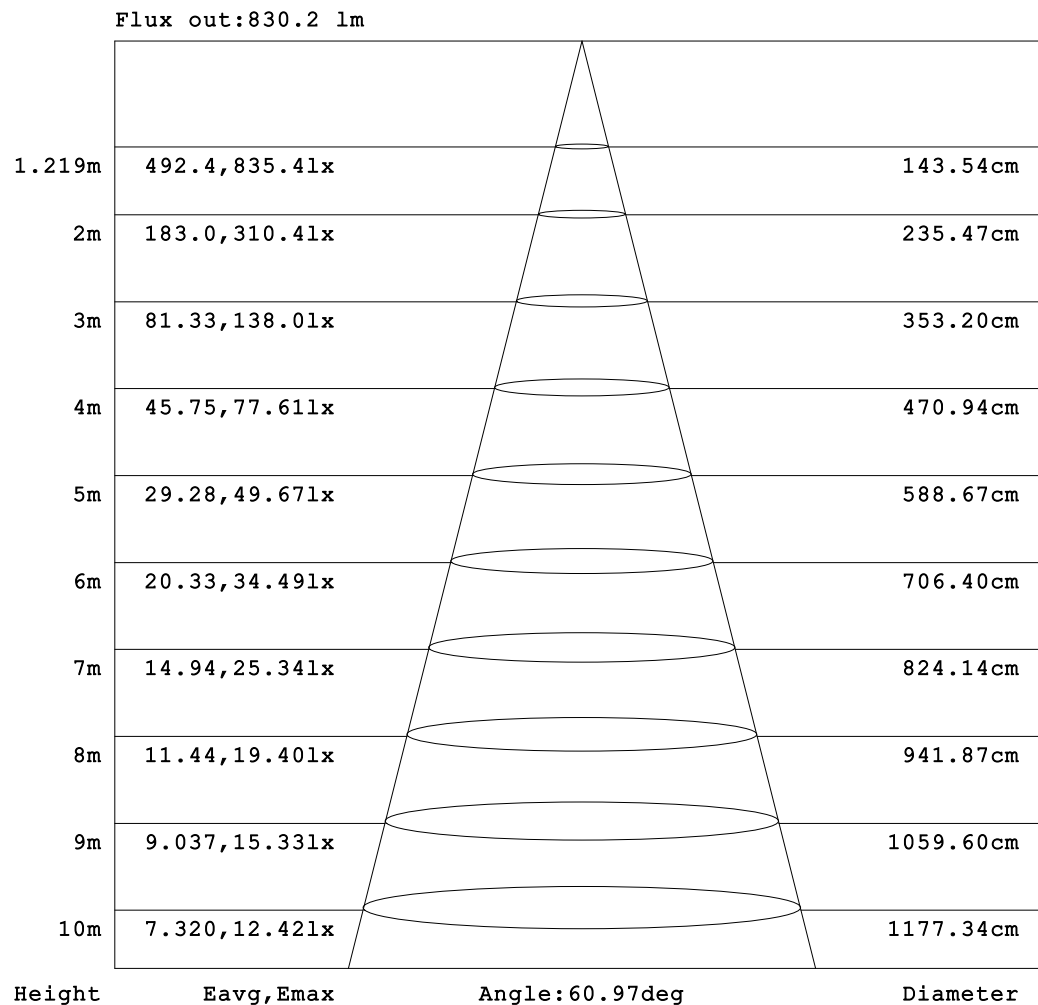


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Ky
Test Date:29 June 2018

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.220m [K=1.0000]
Remarks:

AAI Figure

Test:U:240.12V I:0.0686A P:16.008W PF:0.9717 Freq:50.09Hz Lamp Flux:1233.91x1 lm		
NAME: DeepDownLED_WHT_SLE 10mm_350mA_4K_50°	TYPE:	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:Ky

Test Date:29 June 2018

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366

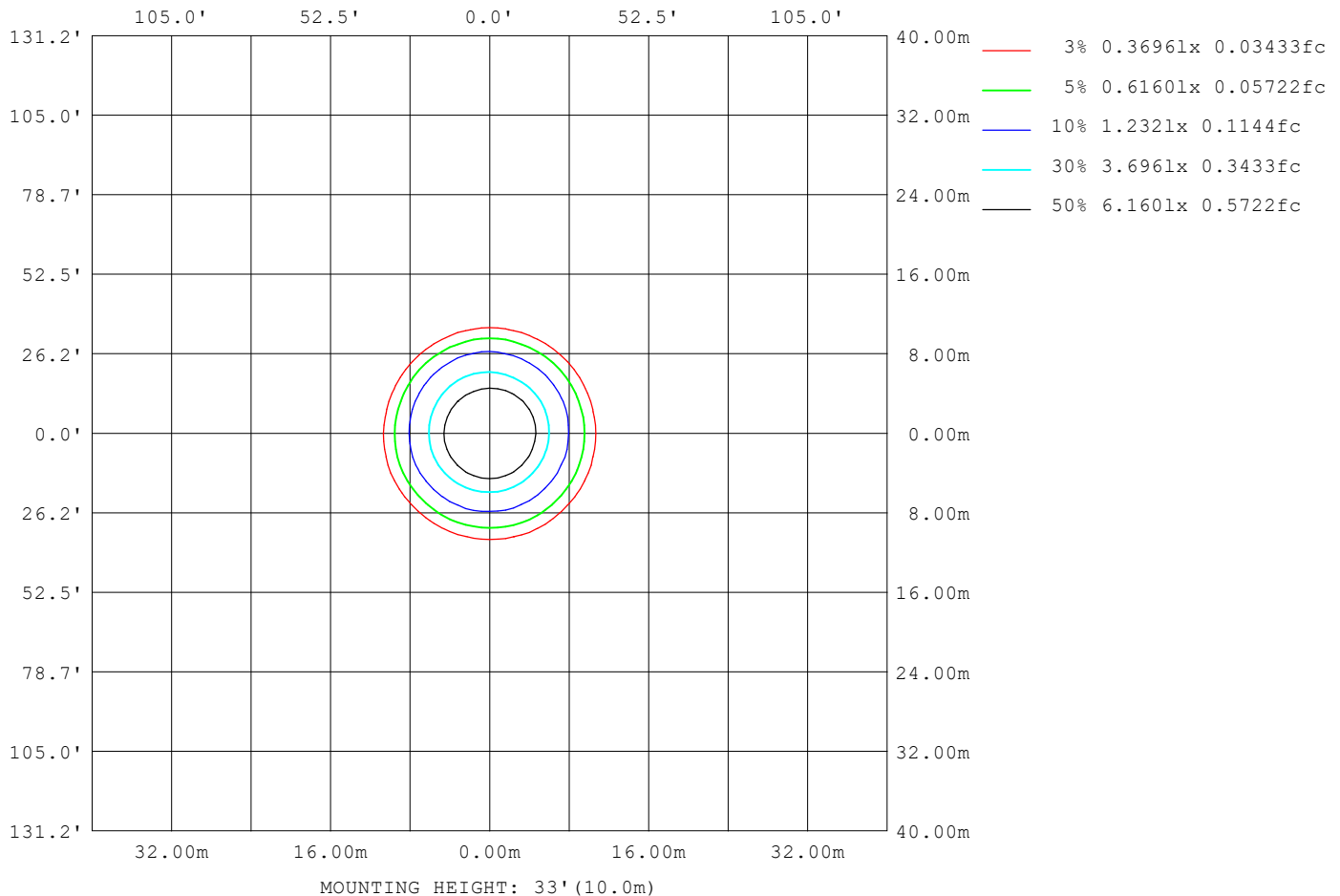
Humidity:65.0%

Test Distance:7.220m [K=1.0000]

Remarks:

ISOLUX DIAGRAM

Test:U:240.12V I:0.0686A P:16.008W PF:0.9717 Freq:50.09Hz Lamp Flux:1233.91x1 lm		
NAME: DeepDownLED_WHT_SLE 10mm_350mA_4K_50°	TYPE:	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:Ky
Test Date:29 June 2018

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.220m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:240.12V I:0.0686A P:16.008W PF:0.9717 Freq:50.09Hz Lamp Flux:1233.91x1 lm		
NAME: DeepDownLED_WHT_SLE 10mm_350mA_4K_50°	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Darkon	SUR.:	Shielding Angle:

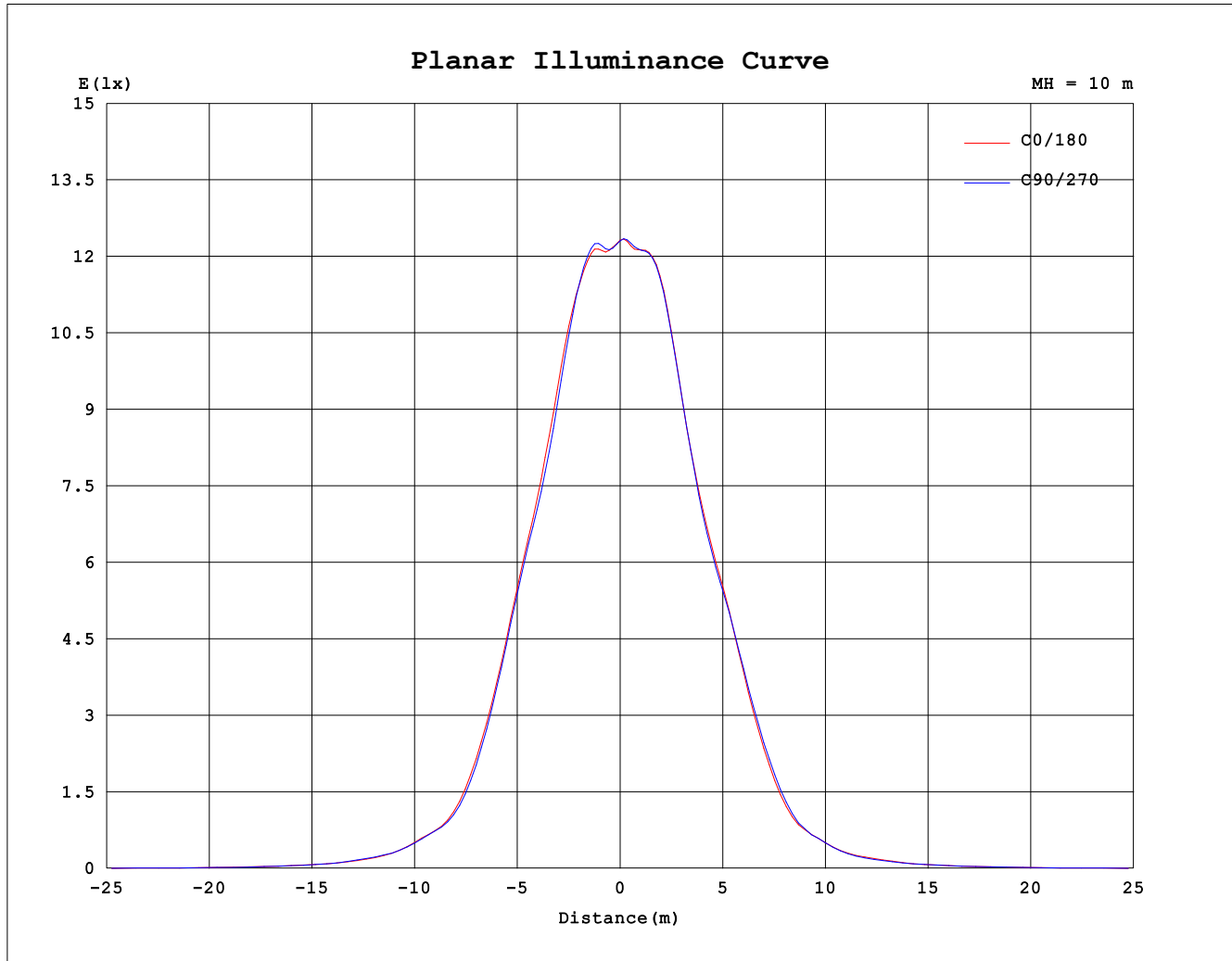
AvgL	cd/m2
L_0~180 (65) av	3972
L_0~180 (75) av	3774
L_0~180 (85) av	4418
L_90~270 (65) av	3905
L_90~270 (75) av	3743
L_90~270 (85) av	4410
L_45 (65) av	3920
L_45 (75) av	3757
L_45 (85) av	4414

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Ky
Test Date:29 June 2018

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.220m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Ky

Test Date: 29 June 2018

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.366

Humidity: 65.0%

Test Distance: 7.220m [K=1.0000]

Remarks:

