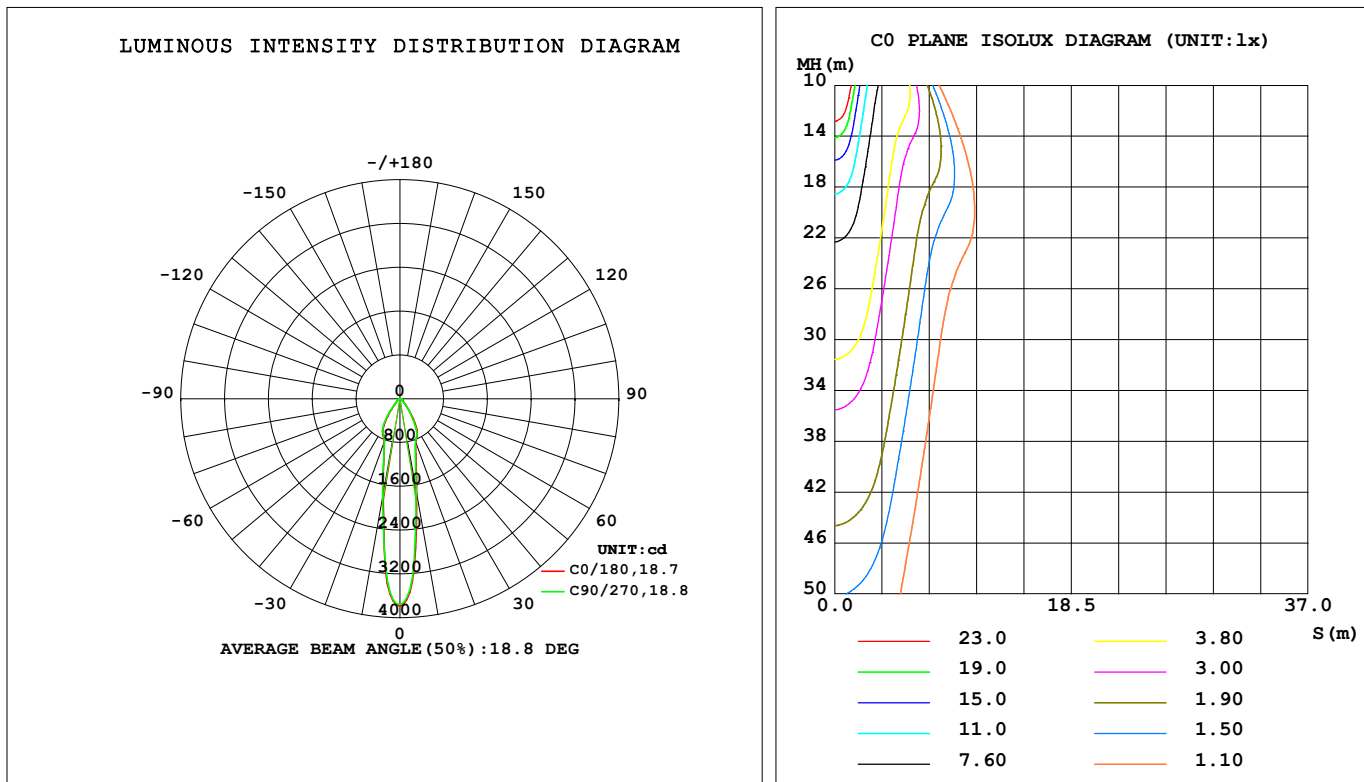


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.03V I:0.0689A P:16.081W PF:0.9719 Freq:50.09Hz Lamp Flux:1310.69x1 lm		
NAME: DeepDownLED_WHT_SLE 10mm_350mA_4K_24°	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Darkon	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 81.51 lm/W
MODEL	SLE G6 10mm 840	I _{max} (cd)	3786	S/MH (C0/180)	0.32	
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	0.33	
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	1310.7	η UP,DN (C0-180)	0.0,49.0	
NOMINAL FLUX (lm)	1310.69	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,51.0	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE (V)	220.0	η down (%)	100.0	CIBSE SHR MAX	1.00	



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	1776	1772	1716	1627	1772	1839	1823	1717	0- 10	243.1	243.1	18.5,18.5
20	858.1	852.5	837.4	832.5	844.3	852.7	835.9	836.6	10- 20	322.4	565.5	43.1,43.1
30	604.9	565.5	560.3	575.7	610.9	637.8	640.9	613.2	20- 30	334.3	899.8	68.7,68.7
40	213.0	198.2	195.8	194.5	210.2	228.2	234.4	219.1	30- 40	245.6	1145	87.4,87.4
50	66.60	64.98	64.31	64.33	65.94	66.15	66.82	67.15	40- 50	96.38	1242	94.7,94.7
60	29.15	27.91	27.81	28.26	29.43	30.33	30.56	30.07	50- 60	39.94	1282	97.8,97.8
70	9.770	9.587	9.448	9.433	9.613	9.699	9.745	9.734	60- 70	16.69	1298	99.1,99.1
80	6.556	6.342	6.196	6.188	6.333	6.485	6.590	6.596	70- 80	8.788	1307	99.7,99.7
90	0.0497	0.0466	0.0497	0.0466	0.0497	0.0342	0.0404	0.0435	80- 90	3.471	1311	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): 1205.6 lm

%lum = 92.0%

%lamp = 92.0%

Conical surface Flux(120deg): 1281.7 lm

%lum = 97.8%

%lamp = 97.8%

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

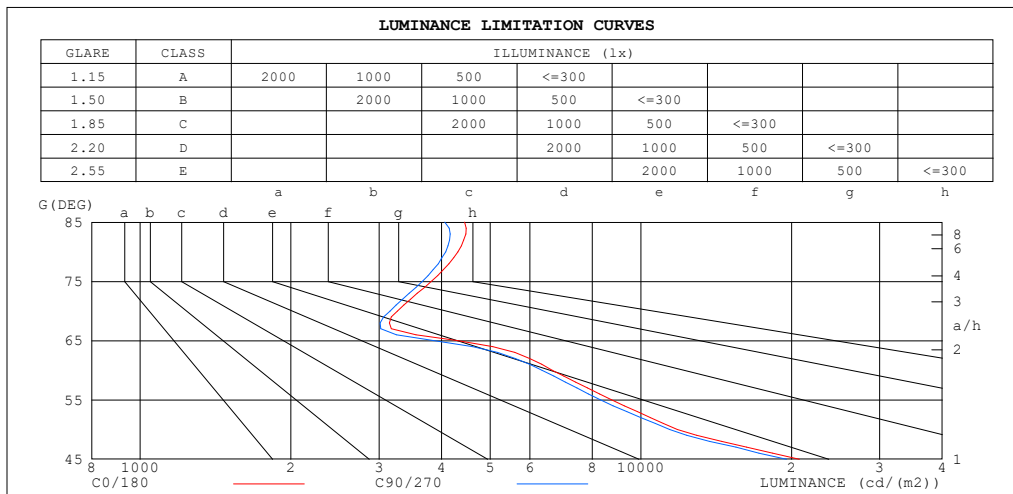
Humidity:65.0%

Test Distance:7.220m [K=1.0000]

Remarks:

LUMINANCE LIMITATION CURVES

Test:U:240.03V I:0.0689A P:16.081W PF:0.9719 Freq:50.09Hz Lamp Flux:1310.69x1 lm		
NAME: DeepDownLED_WHT_SLE 10mm_350mA_4K_24°	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Darkon	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	4449	4057
80	4313	4077
75	3818	3664
70	3264	3156
65	4301	3857
60	6660	6354
55	8744	8306
50	11836	11430
45	20732	19544

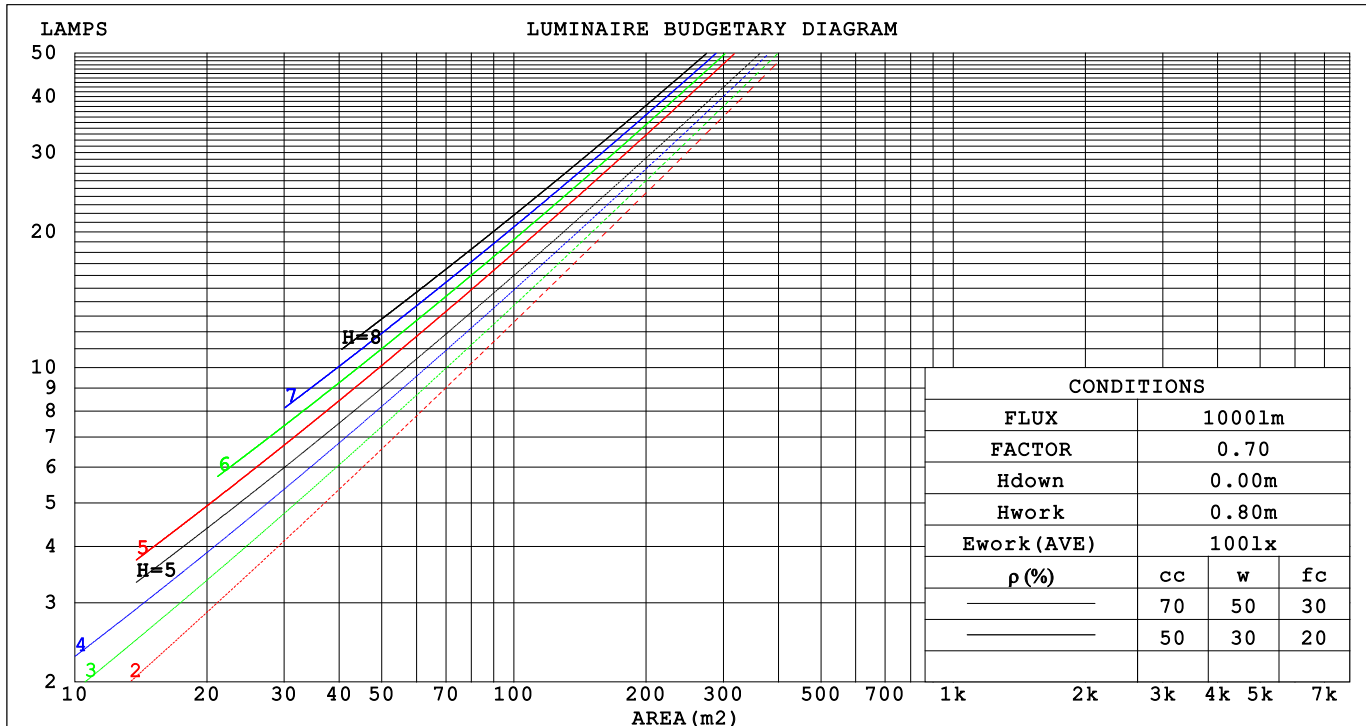
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Ky
Test Date:29 June 2018

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:240.03V I:0.0689A P:16.081W PF:0.9719 Freq:50.09Hz Lamp Flux:1310.69x1 lm		
NAME: DeepDownLED_WHT_SLE 10mm_350mA_4K_24°	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:240.03V I:0.0689A P:16.081W PF:0.9719 Freq:50.09Hz Lamp Flux:1310.69x1 lm		
NAME: DeepDownLED_WHT_SLE 10mm_350mA_4K_24°	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	.183	.104	.033	.176	.100	.032	.163	.094	.030	.152	.088	.028	.141	.082	.026	
2.0	.174	.095	.029	.168	.093	.029	.158	.088	.027	.148	.083	.026	.139	.079	.025	
3.0	.165	.088	.026	.160	.086	.026	.151	.082	.025	.143	.078	.024	.135	.075	.023	
4.0	.156	.081	.024	.152	.079	.023	.144	.076	.023	.137	.073	.022	.130	.071	.022	
5.0	.148	.075	.022	.144	.074	.022	.137	.072	.021	.131	.069	.021	.125	.067	.020	
6.0	.140	.070	.020	.137	.069	.020	.131	.067	.020	.126	.065	.019	.120	.063	.019	
7.0	.133	.066	.019	.131	.065	.019	.125	.063	.018	.120	.062	.018	.116	.060	.018	
8.0	.127	.062	.017	.125	.061	.017	.120	.060	.017	.115	.058	.017	.111	.057	.017	
9.0	.121	.059	.016	.119	.058	.016	.115	.057	.016	.111	.056	.016	.107	.054	.016	
10.0	.116	.056	.015	.114	.055	.015	.110	.054	.015	.107	.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	.100	.093	.086	.058	.054	.050	.019	.017	.016		
2.0	.157	.132	.112	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013		
3.0	.144	.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	.107	.076	.052	.074	.053	.037	.043	.031	.022	.014	.010	.007		
6.0	.117	.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	.095	.054	.028	.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: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:240.03V I:0.0689A P:16.081W PF:0.9719 Freq:50.09Hz Lamp Flux:1310.69x1 lm											
NAME: DeepDownLED_WHT_SLE 10mm_350mA_4K_24°					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	17.5	18.4	17.7	18.6	18.7	17.1	18.1	17.3	18.2	18.4	
	3H	17.4	18.3	17.7	18.5	18.7	17.1	18.0	17.3	18.1	18.4
	4H	17.4	18.3	17.7	18.5	18.7	17.1	17.9	17.4	18.1	18.4
	6H	17.5	18.3	17.8	18.5	18.8	17.2	17.9	17.4	18.2	18.4
	8H	17.5	18.3	17.8	18.5	18.8	17.2	17.9	17.5	18.2	18.4
	12H	17.5	18.3	17.9	18.5	18.8	17.2	17.9	17.5	18.2	18.5
4H	2H	17.3	18.2	17.6	18.4	18.6	17.0	17.8	17.3	18.1	18.3
	3H	17.4	18.1	17.7	18.3	18.6	17.0	17.7	17.3	18.0	18.3
	4H	17.4	18.1	17.8	18.4	18.7	17.1	17.8	17.5	18.1	18.4
	6H	17.6	18.1	17.9	18.5	18.8	17.2	17.8	17.6	18.2	18.5
	8H	17.6	18.2	18.0	18.5	18.9	17.3	17.8	17.7	18.2	18.6
	12H	17.7	18.2	18.1	18.5	18.9	17.4	17.8	17.8	18.2	18.6
8H	4H	17.4	17.9	17.8	18.3	18.6	17.1	17.6	17.5	18.0	18.3
	6H	17.6	18.0	18.0	18.4	18.8	17.3	17.7	17.7	18.1	18.5
	8H	17.7	18.1	18.2	18.5	19.0	17.4	17.8	17.9	18.2	18.7
	12H	17.8	18.2	18.3	18.6	19.1	17.5	17.9	18.0	18.3	18.8
12H	4H	17.4	17.8	17.8	18.2	18.6	17.0	17.5	17.5	17.9	18.3
	6H	17.6	18.0	18.0	18.4	18.8	17.3	17.7	17.7	18.1	18.5
	8H	17.7	18.1	18.2	18.5	19.0	17.4	17.8	17.9	18.2	18.7
Variations with the observer position at spacings:											
S = 1.0H	+ 2.1 / - 2.7					+ 1.7 / - 2.6					
1.5H	+ 3.5 / - 2.3					+ 2.9 / - 2.1					
2.0H	+ 3.2 / - 1.7					+ 3.1 / - 1.7					

CIE Pub.117, 1311 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.9)

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:240.03V I:0.0689A P:16.081W PF:0.9719 Freq:50.09Hz Lamp Flux:1310.69x1 lm		
NAME: DeepDownLED_WHT_SLE 10mm_350mA_4K_24°	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) $k(RI) \times RCR = 5$									
$k = 0.60$	84	77	72	83	76	72	82	76	72	68
0.80	92	85	81	91	85	81	90	84	80	76
1.00	97	90	86	96	90	86	94	90	86	81
1.25	101	95	91	100	95	91	98	94	90	86
1.50	104	99	95	103	98	95	100	97	93	89
2.00	107	103	99	106	102	98	103	100	97	91
2.50	109	105	102	107	104	101	104	101	99	93
3.00	111	107	104	109	106	103	106	103	101	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:Ky

Test Date:29 June 2018

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

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

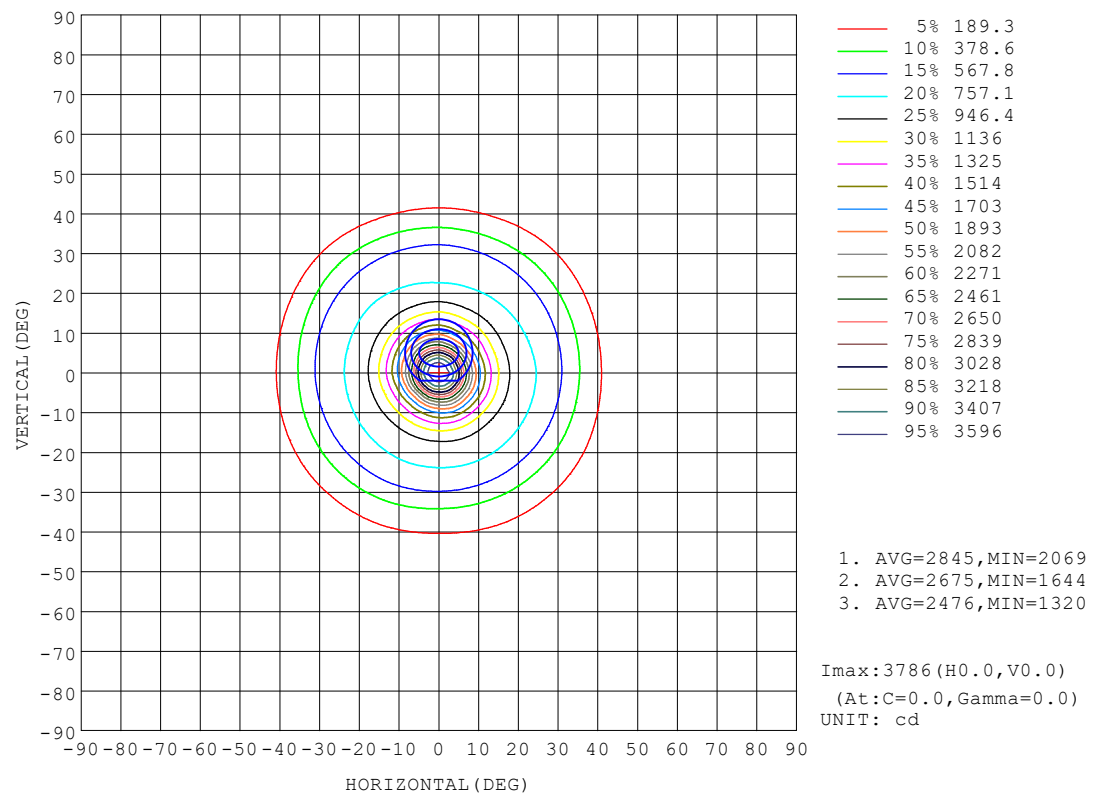
Humidity:65.0%

Test Distance:7.220m [K=1.0000]

Remarks:

ISOCANDELA DIAGRAM

Test:U:240.03V I:0.0689A P:16.081W PF:0.9719 Freq:50.09Hz Lamp Flux:1310.69x1 lm		
NAME: DeepDownLED_WHT_SLE 10mm_350mA_4K_24°	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Darkon	SUR.:	Shielding Angle:

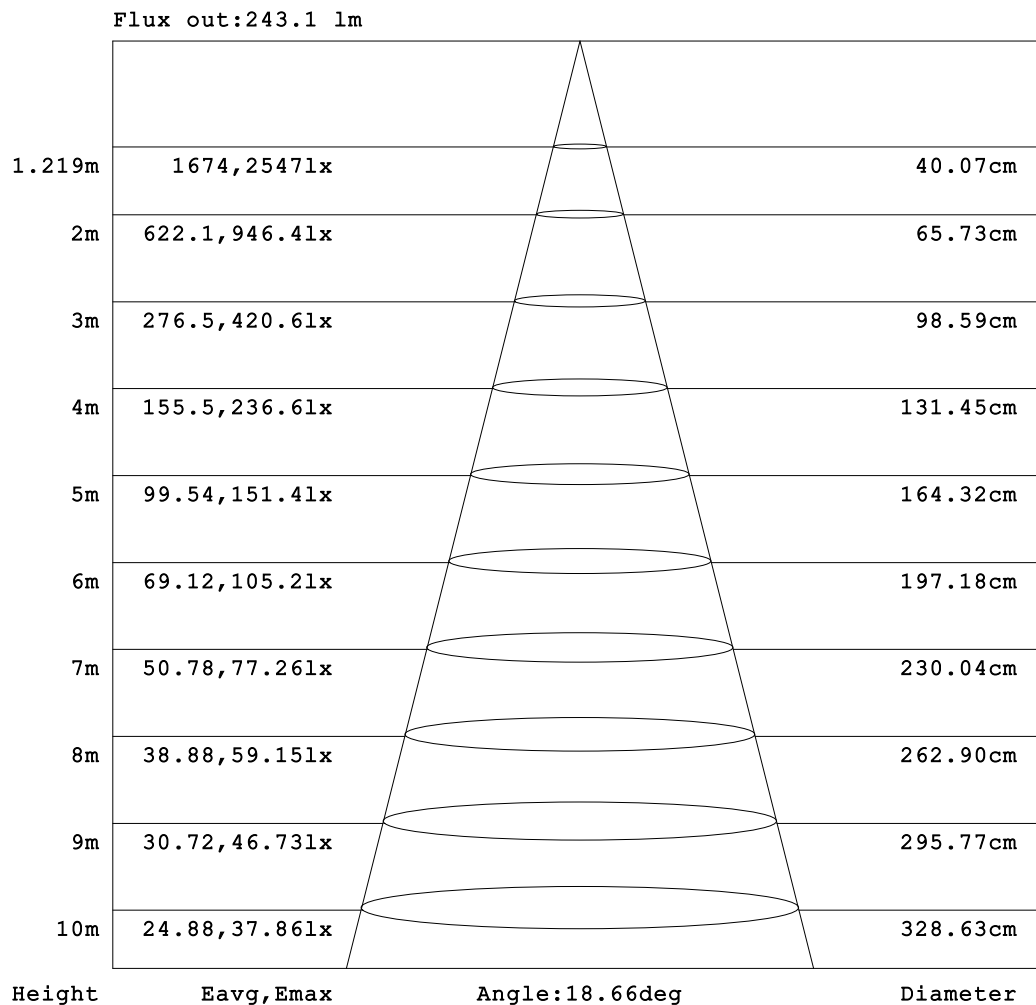


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Ky
Test Date:29 June 2018

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:240.03V I:0.0689A P:16.081W PF:0.9719 Freq:50.09Hz Lamp Flux:1310.69x1 lm		
NAME: DeepDownLED_WHT_SLE 10mm_350mA_4K_24°	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

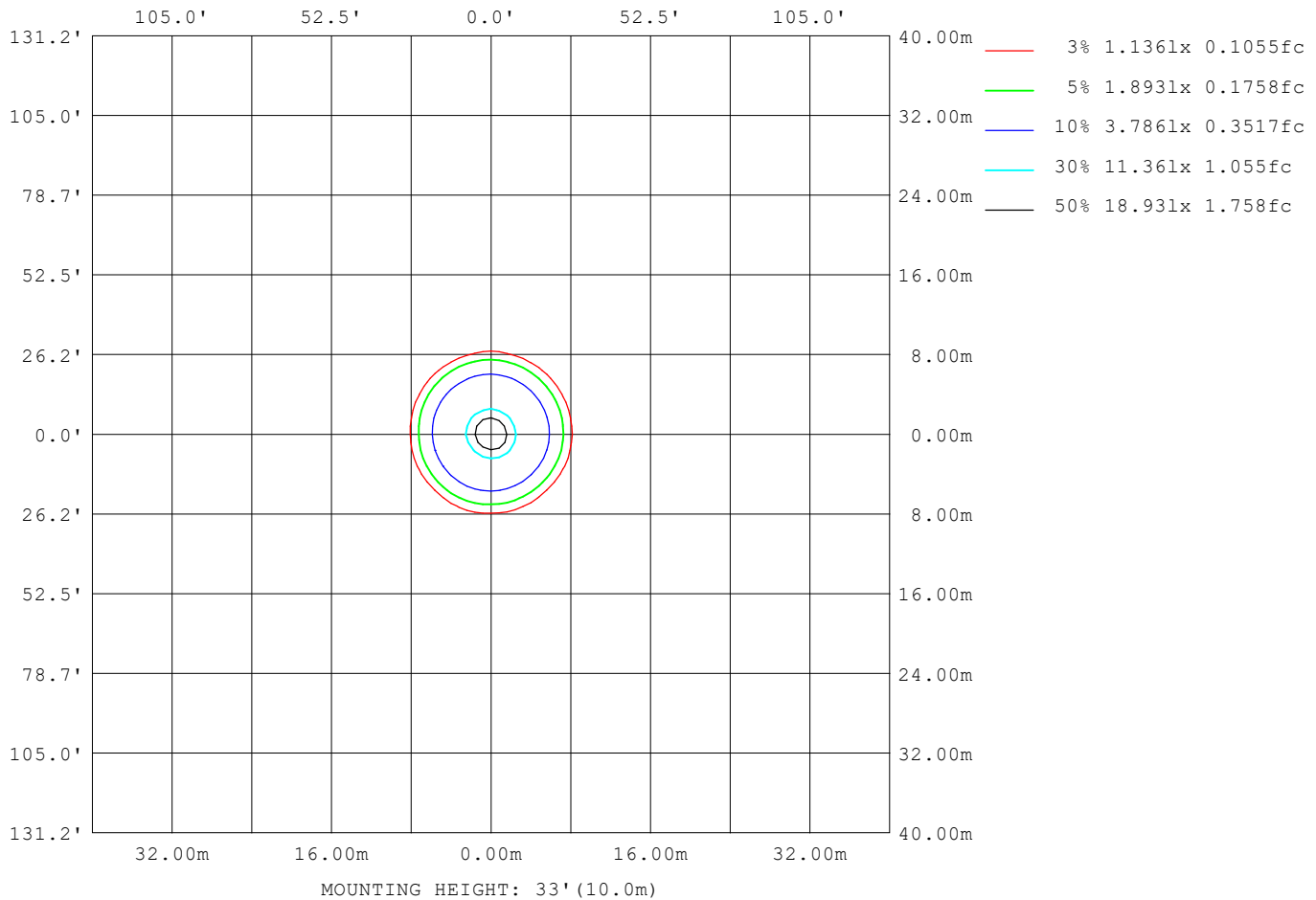
Humidity:65.0%

Test Distance:7.220m [K=1.0000]

Remarks:

ISOLUX DIAGRAM

Test:U:240.03V I:0.0689A P:16.081W PF:0.9719 Freq:50.09Hz Lamp Flux:1310.69x1 lm		
NAME: DeepDownLED_WHT_SLE 10mm_350mA_4K_24°	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:240.03V I:0.0689A P:16.081W PF:0.9719 Freq:50.09Hz Lamp Flux:1310.69x1 lm		
NAME: DeepDownLED_WHT_SLE 10mm_350mA_4K_24°	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Darkon	SUR.:	Shielding Angle:

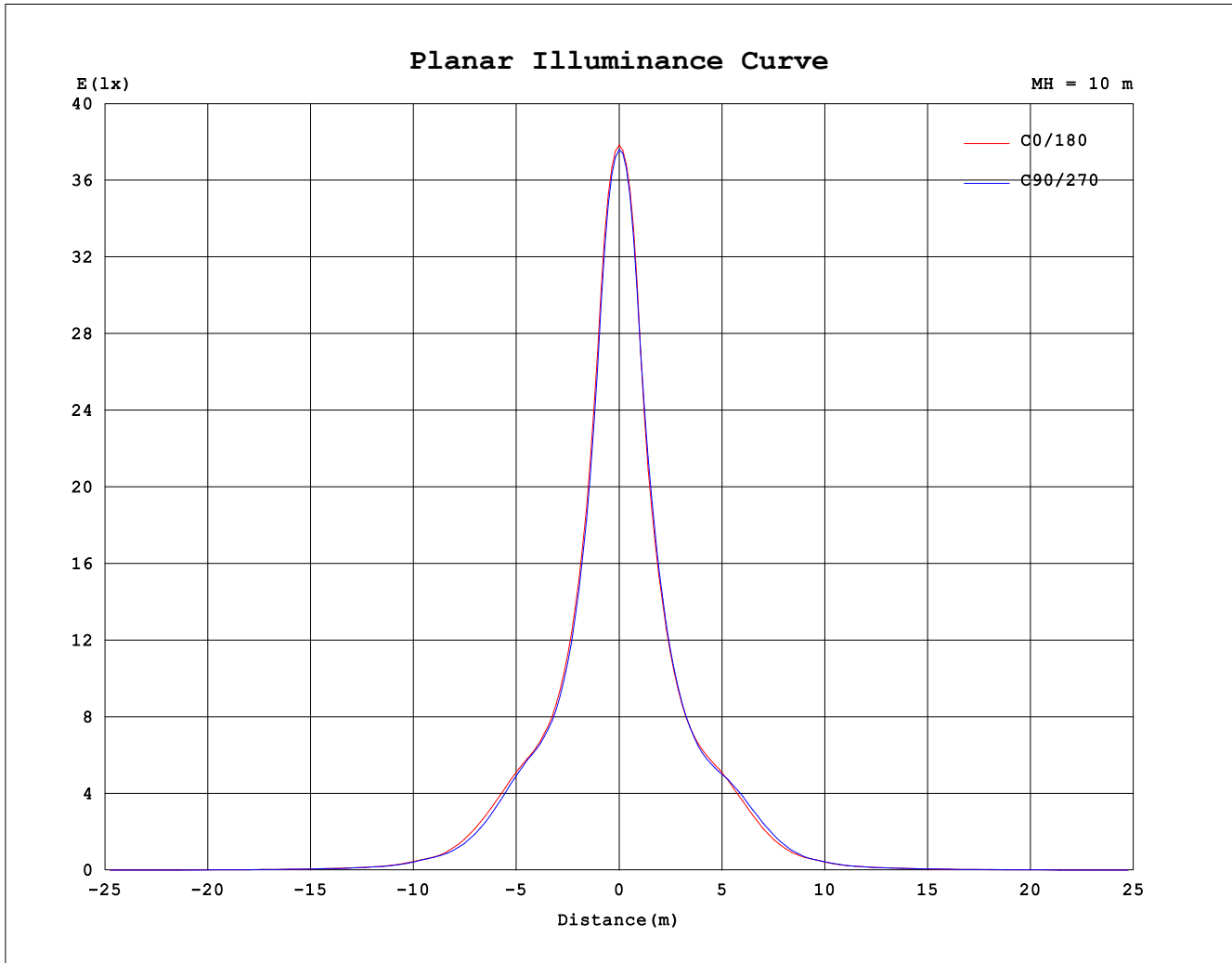
AvgL	cd/m2
L_0~180 (65) av	4194
L_0~180 (75) av	3778
L_0~180 (85) av	4316
L_90~270 (65) av	4102
L_90~270 (75) av	3739
L_90~270 (85) av	4304
L_45 (65) av	4131
L_45 (75) av	3748
L_45 (85) av	4295

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:

