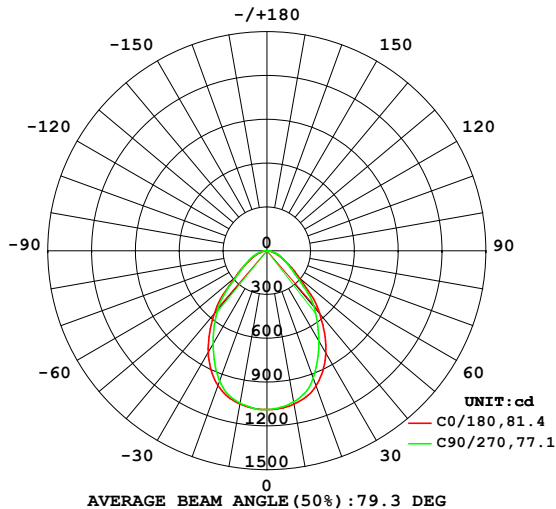


LUMINAIRE PHOTOMETRIC TEST REPORT

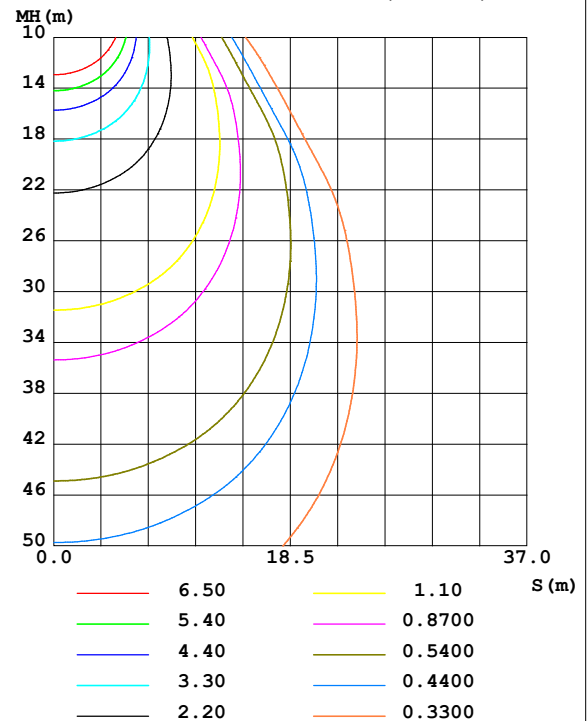
Test:U:239.95V I:0.1147A P:25.740W PF:0.9349 Freq:50.09Hz Lamp Flux:1881.44x1 lm		
NAME: CAPITAL T / 465 / SM / WHT / C-DEG V2 + LT80 / HOYE AIMED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Darkon	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
LLE MODEL x280mm 1250lm 840 2T ADV		Eff: 73.10 lm/W			
NOMINAL POWER(W)		I _{max} (cd)	1089	S/MH(C0/180)	1.12
RATED VOLTAGE(V)	240	LOR(%)	100.0	S/MH(C90/270)	1.06
NOMINAL FLUX(lm)	1881.44	TOTAL FLUX(lm)	1881.4	η UP,DN(C0-180)	0.0,49.4
LAMPS INSIDE	1	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.6
TEST VOLTAGE(V)	240	η up(%)	0.0	CIBSE SHR NOM	1.00
		η down(%)	100.0	CIBSE SHR MAX	1.15

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:Ky
Test Date:06 October 2017

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	1067	1055	1051	1059	1067	1067	1060	1061	0- 10	102.6	102.6	5.45,5.45
20	985.1	949.8	928.3	961.4	982.3	976.7	948.9	965.2	10- 20	287.8	390.3	20.7,20.7
30	806.8	743.7	713.0	760.4	804.8	782.2	739.4	766.3	20- 30	399.1	789.5	42,42
40	562.2	523.2	502.2	539.7	560.9	561.4	527.3	544.0	30- 40	406.7	1196	63.6,63.6
50	288.6	269.6	256.8	288.7	287.3	300.7	271.8	289.8	40- 50	315.9	1512	80.4,80.4
60	145.4	142.7	148.0	149.4	145.0	154.8	154.6	150.6	50- 60	184.3	1696	90.2,90.2
70	78.16	79.71	84.99	83.83	77.77	86.78	87.53	84.66	60- 70	112.6	1809	96.1,96.1
80	27.10	28.31	31.73	31.33	26.86	33.85	33.65	31.16	70- 80	58.78	1868	99.3,99.3
90	0.6462	1.060	1.616	1.387	0.6649	1.922	2.415	1.530	80- 90	13.66	1881	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): 1374 lm

%lum = 73.0%

%lamp = 73.0%

Conical surface Flux(120deg): 1696.4 lm

%lum = 90.2%

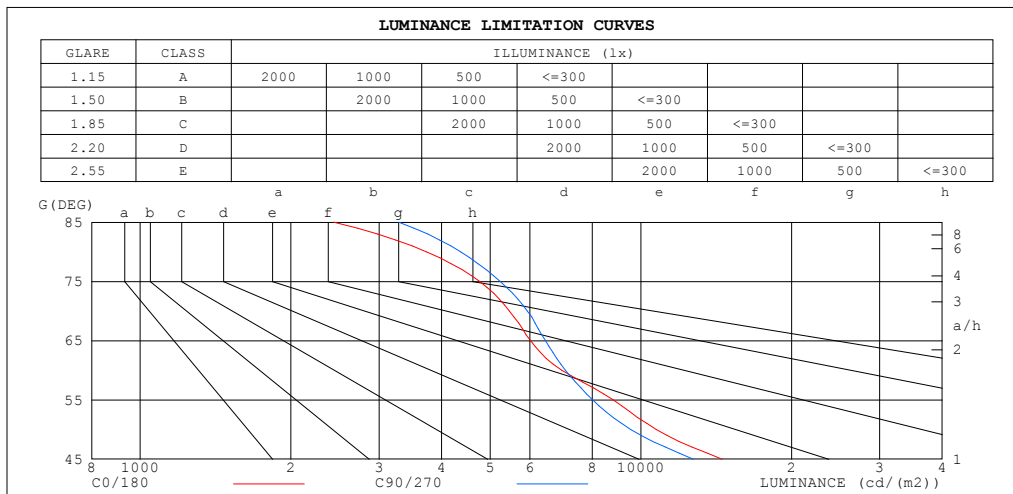
%lamp = 90.2%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Ky
Test Date:06 October 2017

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:239.95V I:0.1147A P:25.740W PF:0.9349 Freq:50.09Hz Lamp Flux:1881.44x1 lm		
NAME: CAPITAL T / 465 / SM / WHT / C-DEG V2 + LT80 / HOYE AMED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Darkon	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2436	3284
80	3731	4367
75	4762	5234
70	5463	5938
65	6026	6449
60	6952	7072
55	8805	8010
50	10733	9545
45	14535	12731

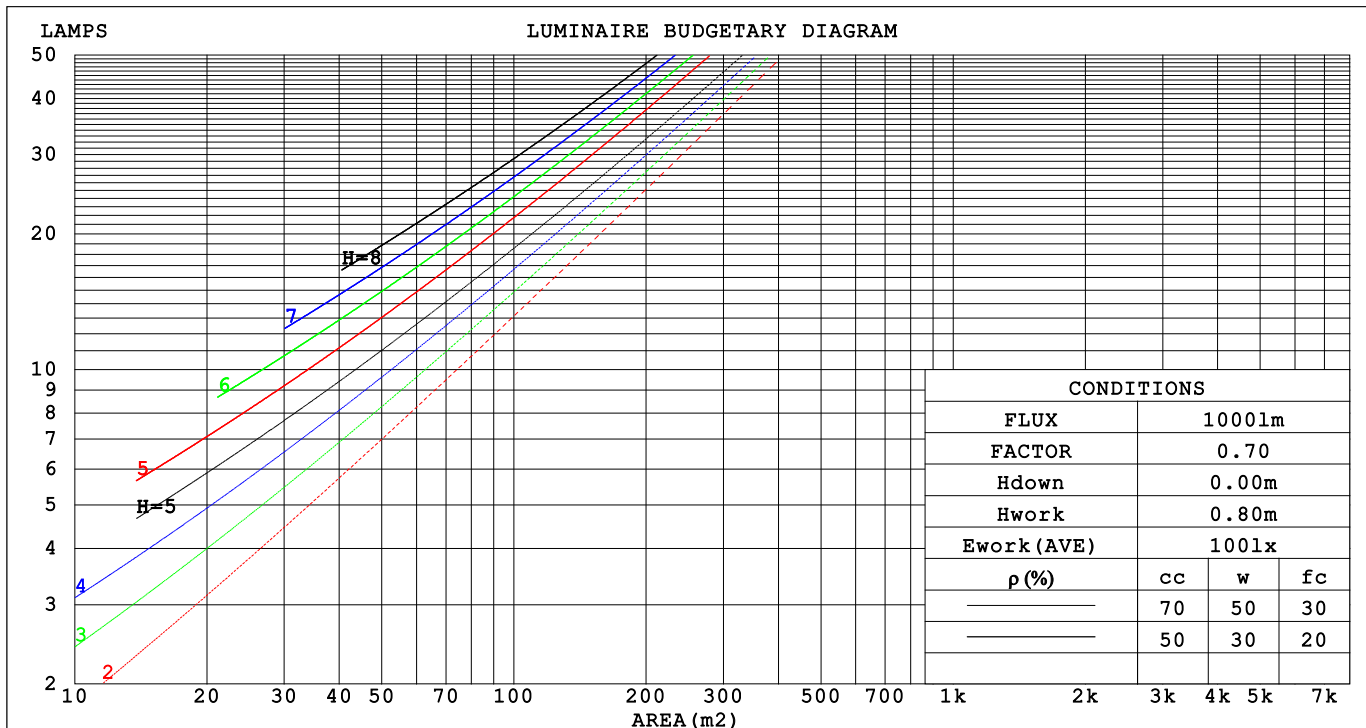
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Ky
Test Date:06 October 2017

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:239.95V I:0.1147A P:25.740W PF:0.9349 Freq:50.09Hz Lamp Flux:1881.44x1 lm		
NAME: CAPITAL T / 465 / SM / WHT / C-DEG V2 + LT80 / HOVTYPE AINED	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															



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Ky
Test Date:06 October 2017

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:239.95V I:0.1147A P:25.740W PF:0.9349 Freq:50.09Hz Lamp Flux:1881.44x1 lm		
NAME: CAPITAL T / 465 / SM / WHT / C-DEG V2 + LT80 / HO465 AIMED	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	.247	.140	.044	.240	.137	.043	.227	.130	.042	.215	.124	.040	.204	.118	.038	
2.0	.237	.130	.040	.231	.127	.039	.220	.122	.038	.209	.117	.037	.200	.113	.036	
3.0	.223	.119	.036	.218	.117	.035	.208	.113	.034	.199	.109	.033	.191	.106	.033	
4.0	.209	.109	.032	.205	.107	.032	.196	.104	.031	.188	.101	.030	.181	.098	.030	
5.0	.197	.100	.029	.193	.099	.029	.185	.096	.028	.178	.094	.028	.171	.091	.027	
6.0	.185	.093	.027	.181	.092	.026	.174	.089	.026	.168	.087	.026	.162	.085	.025	
7.0	.174	.086	.024	.171	.085	.024	.165	.083	.024	.159	.082	.024	.154	.080	.023	
8.0	.164	.080	.023	.161	.079	.022	.156	.078	.022	.151	.076	.022	.146	.075	.022	
9.0	.155	.075	.021	.153	.074	.021	.148	.073	.021	.143	.072	.021	.139	.071	.020	
10.0	.147	.071	.020	.145	.070	.020	.141	.069	.019	.136	.068	.019	.133	.067	.019	

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	.176	.157	.139	.151	.134	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016		
2.0	.165	.132	.105	.141	.114	.090	.097	.079	.063	.056	.046	.037	.018	.015	.012		
3.0	.155	.114	.081	.133	.098	.070	.091	.068	.049	.053	.040	.029	.017	.013	.010		
4.0	.147	.100	.064	.126	.086	.056	.087	.060	.039	.050	.035	.023	.016	.011	.008		
5.0	.139	.089	.052	.120	.077	.045	.082	.054	.032	.048	.032	.019	.015	.010	.006		
6.0	.132	.081	.043	.114	.070	.038	.079	.049	.027	.046	.029	.016	.015	.009	.005		
7.0	.126	.073	.037	.108	.064	.032	.075	.045	.023	.044	.026	.013	.014	.009	.004		
8.0	.120	.068	.031	.103	.059	.027	.072	.041	.019	.042	.024	.012	.013	.008	.004		
9.0	.115	.063	.027	.099	.054	.024	.068	.038	.017	.040	.023	.010	.013	.007	.003		
10.0	.110	.058	.024	.094	.051	.021	.065	.036	.015	.038	.021	.009	.012	.007	.003		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Ky
Test Date:06 October 2017

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:239.95V I:0.1147A P:25.740W PF:0.9349 Freq:50.09Hz Lamp Flux:1881.44x1 lm											
NAME: CAPITAL T / 465 / SM / WHT / C-DEG V2 + LT80 / HOYE AIMED								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	17.2	18.5	17.5	18.7	18.9	16.9	18.2	17.1	18.4	18.5	
	3H	17.9	19.1	18.2	19.3	19.5	17.7	18.9	18.0	19.1	19.3
	4H	18.2	19.3	18.5	19.5	19.8	18.0	19.2	18.3	19.4	19.6
	6H	18.3	19.4	18.6	19.6	19.9	18.3	19.3	18.6	19.6	19.8
	8H	18.3	19.4	18.7	19.6	19.9	18.3	19.3	18.6	19.6	19.9
	12H	18.3	19.3	18.7	19.6	19.9	18.3	19.3	18.7	19.6	19.9
4H	2H	17.4	18.6	17.7	18.8	19.0	17.1	18.3	17.4	18.5	18.7
	3H	18.3	19.3	18.7	19.6	19.9	18.1	19.1	18.5	19.4	19.7
	4H	18.7	19.6	19.1	19.9	20.2	18.6	19.5	19.0	19.8	20.1
	6H	18.9	19.7	19.3	20.1	20.4	18.9	19.7	19.3	20.0	20.4
	8H	19.0	19.7	19.4	20.1	20.5	19.0	19.7	19.4	20.1	20.5
	12H	19.0	19.7	19.4	20.0	20.4	19.1	19.7	19.5	20.1	20.5
8H	4H	18.8	19.5	19.2	19.9	20.3	18.7	19.4	19.1	19.8	20.2
	6H	19.1	19.7	19.6	20.1	20.6	19.1	19.7	19.6	20.1	20.6
	8H	19.2	19.8	19.7	20.2	20.6	19.3	19.8	19.7	20.2	20.7
	12H	19.3	19.7	19.7	20.2	20.6	19.4	19.8	19.8	20.3	20.7
12H	4H	18.8	19.5	19.2	19.8	20.2	18.7	19.4	19.1	19.7	20.1
	6H	19.1	19.7	19.6	20.1	20.5	19.1	19.7	19.6	20.1	20.5
	8H	19.3	19.7	19.7	20.2	20.6	19.3	19.8	19.8	20.2	20.7
Variations with the observer position at spacings:											
S = 1.0H	+ 0.6 / - 0.8					+ 0.6 / - 0.7					
1.5H	+ 0.6 / - 0.6					+ 0.5 / - 0.5					
2.0H	+ 1.6 / - 0.9					+ 1.2 / - 0.7					

CIE Pub.117, 1881 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.2)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Ky
Test Date:06 October 2017

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:239.95V I:0.1147A P:25.740W PF:0.9349 Freq:50.09Hz Lamp Flux:1881.44x1 lm		
NAME: CAPITAL T / 465 / SM / WHT / C-DEG V2 + LT80	/ HOYE AIMED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Darkon	SUR.:	Shielding Angle:

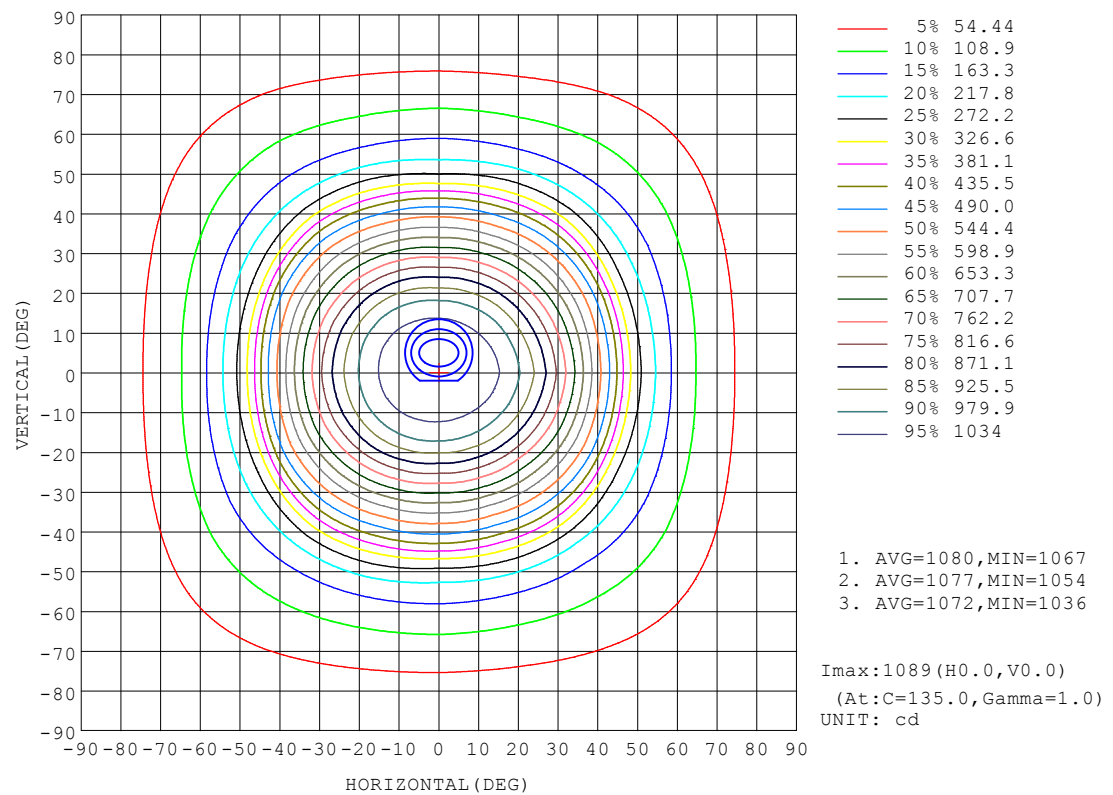
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	59	53	68	59	53	67	59	53	48
0.80	78	69	63	77	69	63	76	68	62	57
1.00	86	77	71	85	76	71	83	77	70	64
1.25	92	84	78	90	83	78	88	82	77	71
1.50	96	88	83	94	87	82	92	86	81	75
2.00	101	95	90	99	93	89	96	91	87	81
2.50	104	98	93	102	97	92	99	94	91	83
3.00	107	101	97	105	100	96	101	97	94	86
4.00	110	105	102	107	104	100	103	100	98	90
5.00	111	108	105	109	106	103	105	102	100	92
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:06 October 2017

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:239.95V I:0.1147A P:25.740W PF:0.9349 Freq:50.09Hz Lamp Flux:1881.44x1 lm		
NAME: CAPITAL T / 465 / SM / WHT / C-DEG V2 + LT80 / HOYE AIMED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Darkon	SUR.:	Shielding Angle:

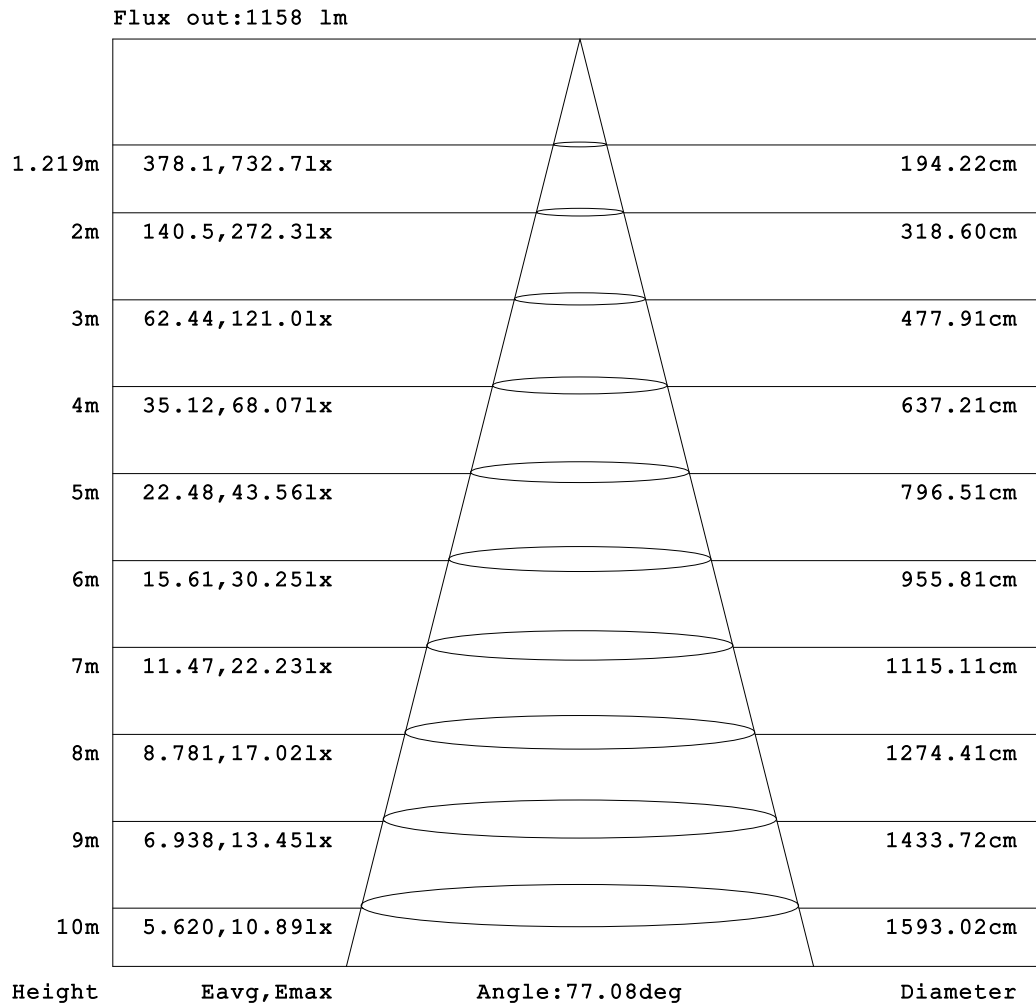


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Ky
Test Date:06 October 2017

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:239.95V I:0.1147A P:25.740W PF:0.9349 Freq:50.09Hz Lamp Flux:1881.44x1 lm		
NAME: CAPITAL T / 465 / SM / WHT / C-DEG V2 + LT80 / HOYE AIMED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Darkon	SUR.:	Shielding Angle:



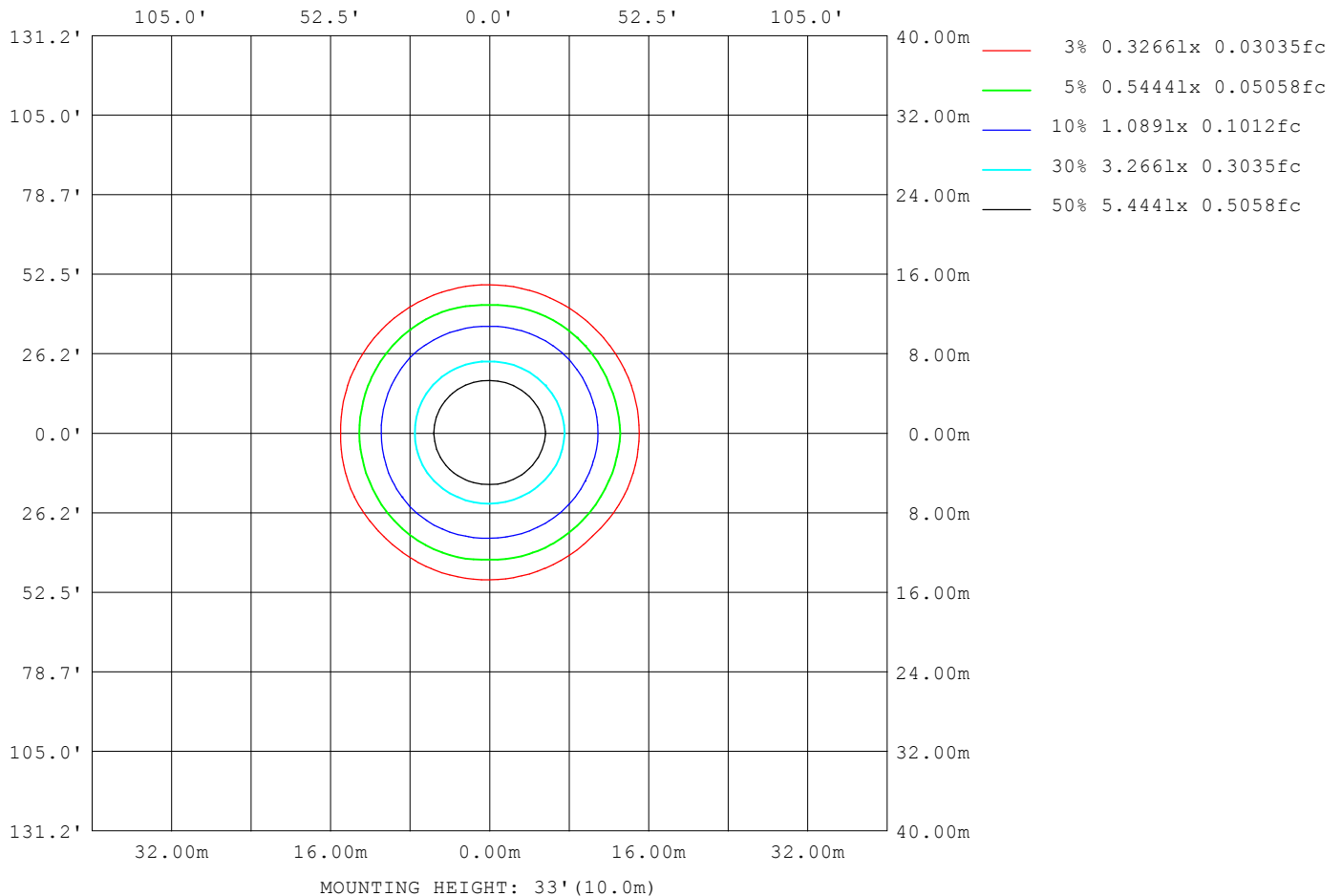
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Ky
Test Date:06 October 2017

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:239.95V I:0.1147A P:25.740W PF:0.9349 Freq:50.09Hz Lamp Flux:1881.44x1 lm		
NAME: CAPITAL T / 465 / SM / WHT / C-DEG V2 + LT80	/ HOYE AIMED	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:Ky
Test Date:06 October 2017

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:239.95V I:0.1147A P:25.740W PF:0.9349 Freq:50.09Hz Lamp Flux:1881.44x1 lm		
NAME: CAPITAL T / 465 / SM / WHT / C-DEG V2 + LT80 / HOYE AMED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Darkon	SUR.:	Shielding Angle:

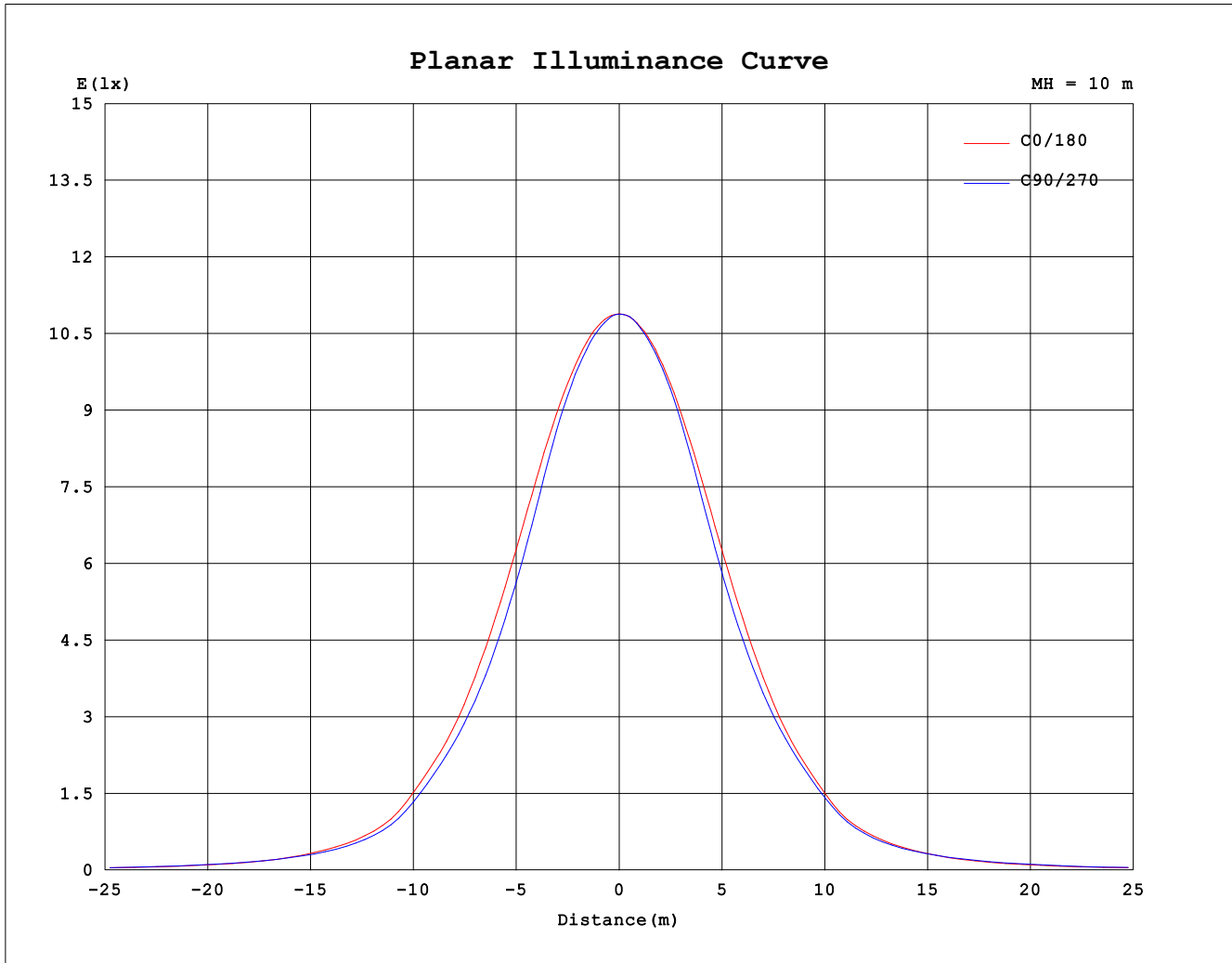
AvgL	cd/m2
L_0~180 (65) av	6028
L_0~180 (75) av	4748
L_0~180 (85) av	2408
L_90~270 (65) av	6578
L_90~270 (75) av	5342
L_90~270 (85) av	3459
L_45 (65) av	6403
L_45 (75) av	5182
L_45 (85) av	3132

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Ky
Test Date:06 October 2017

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: 06 October 2017

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:

