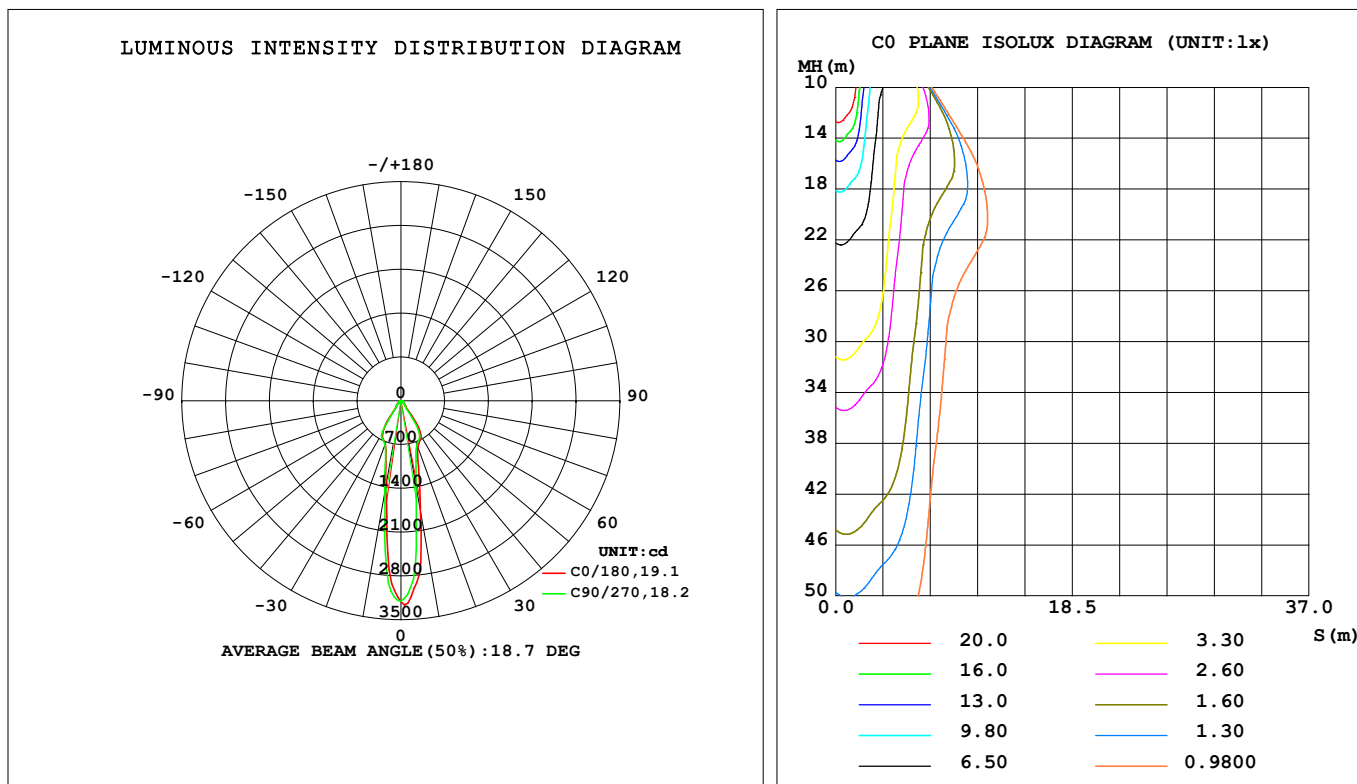


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:239.97V I:0.0642A P:14.226W PF:0.9233 Freq:50.09Hz Lamp Flux:1147.23x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_24	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 80.64 lm/W
MODEL	SLE G7 09MM 3000K	I _{max} (cd)	3264	S/MH (C0/180)		0.29
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		0.32
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	1147.2	η UP,DN (C0-180)		0.0,50.3
NOMINAL FLUX (lm)	1147.23	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	1816	1742	1399	1328	1399	1495	1498	1582	0- 10	213.5	213.5	18.6,18.6
20	795.7	795.1	753.8	735.3	743.3	755.6	753.2	766.7	10- 20	283.2	496.6	43.3,43.3
30	638.5	621.4	577.6	570.6	574.6	608.2	619.1	633.7	20- 30	317.8	814.4	71,71
40	119.3	115.5	107.1	112.8	116.2	111.0	105.2	117.1	30- 40	189.4	1004	87.5,87.5
50	60.84	52.95	41.75	53.12	54.99	49.70	39.17	55.29	40- 50	63.27	1067	93,93
60	31.11	31.44	32.14	32.16	32.47	30.94	30.36	29.94	50- 60	32.40	1099	95.8,95.8
70	24.34	23.25	22.56	23.61	24.78	22.08	20.69	22.03	60- 70	27.42	1127	98.2,98.2
80	9.456	9.726	7.974	9.791	9.931	8.343	6.861	9.177	70- 80	17.29	1144	99.7,99.7
90	0.1191	0.0846	0.0784	0.0972	0.1066	0.0909	0.0846	0.0878	80- 90	3.045	1147	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): 1040.2 lm

%lum = 90.7%

%lamp = 90.7%

Conical surface Flux(120deg): 1099.5 lm

%lum = 95.8%

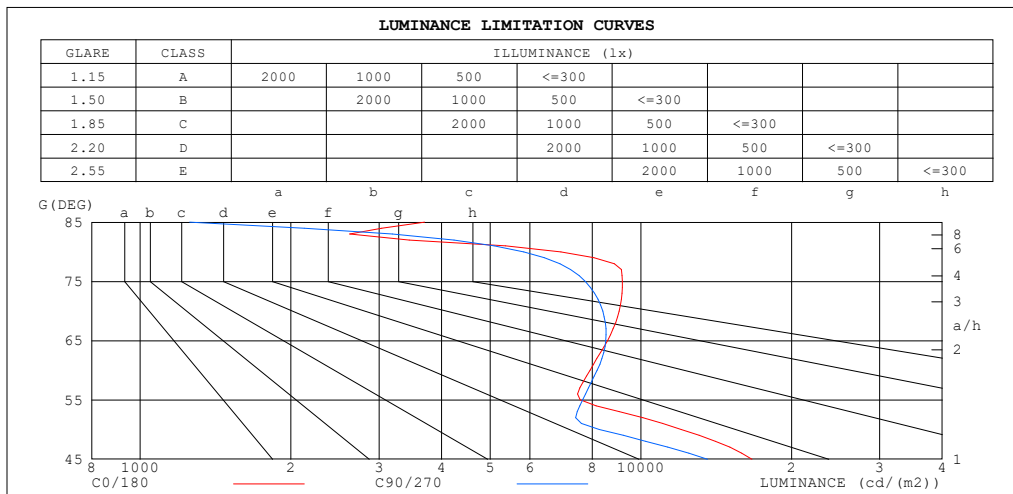
%lamp = 95.8%

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:239.97V I:0.0642A P:14.226W PF:0.9233 Freq:50.09Hz Lamp Flux:1147.23x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_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	3701	1257
80	6928	5843
75	9187	7742
70	9055	8394
65	8586	8515
60	7917	8179
55	7560	7654
50	12042	8264
45	16673	13594

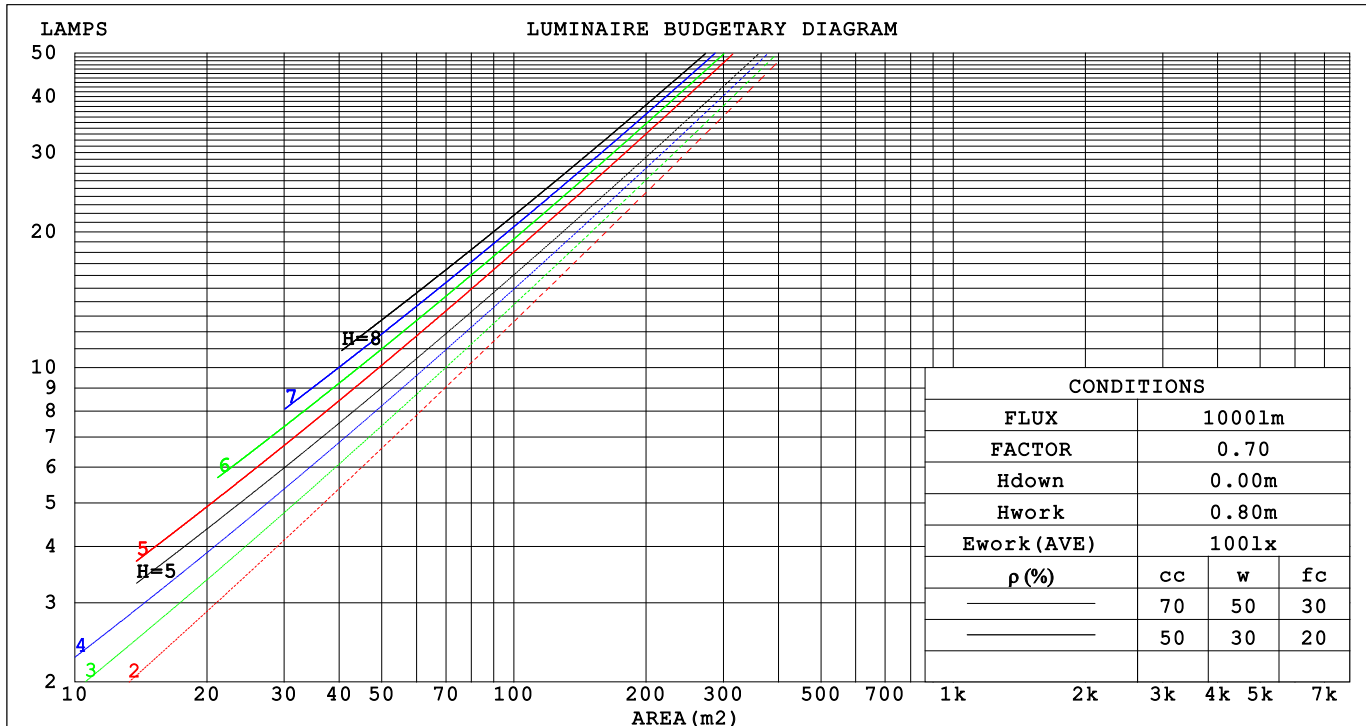
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:22 October 2020

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:239.97V I:0.0642A P:14.226W PF:0.9233 Freq:50.09Hz Lamp Flux:1147.23x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_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															



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:239.97V I:0.0642A P:14.226W PF:0.9233 Freq:50.09Hz Lamp Flux:1147.23x1 lm									
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_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	.162	.090	.028	.152	.085	.027	.143	.081	.025	
3.0	.167	.089	.027	.163	.087	.026	.153	.083	.025	.145	.079	.024	.137	.076	.024	
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	.071	.020	.138	.069	.020	.132	.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	.111	.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	.057	.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:239.97V I:0.0642A P:14.226W PF:0.9233 Freq:50.09Hz Lamp Flux:1147.23x1 lm											
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_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		18.1	19.1	18.4	19.2	19.4	16.9	17.9	17.2	18.1	18.2
3H		18.8	19.7	19.0	19.9	20.1	17.8	18.7	18.1	18.9	19.1
4H		19.2	20.0	19.5	20.2	20.5	18.2	19.0	18.5	19.3	19.5
6H		19.5	20.3	19.8	20.5	20.8	18.5	19.2	18.8	19.5	19.7
8H		19.5	20.3	19.8	20.5	20.8	18.5	19.2	18.8	19.5	19.8
12H		19.5	20.2	19.8	20.5	20.7	18.4	19.2	18.8	19.4	19.7
4H 2H		18.2	19.0	18.5	19.3	19.5	17.2	18.0	17.4	18.2	18.4
3H		19.1	19.8	19.4	20.1	20.4	18.3	19.0	18.6	19.3	19.6
4H		19.7	20.3	20.0	20.6	20.9	18.8	19.5	19.2	19.8	20.1
6H		20.1	20.7	20.5	21.0	21.4	19.2	19.8	19.6	20.1	20.5
8H		20.2	20.7	20.6	21.1	21.4	19.2	19.8	19.6	20.1	20.5
12H		20.2	20.7	20.6	21.0	21.4	19.2	19.7	19.6	20.1	20.5
8H 4H		19.8	20.4	20.2	20.7	21.1	19.0	19.6	19.4	19.9	20.3
6H		20.4	20.8	20.8	21.2	21.7	19.5	20.0	19.9	20.4	20.8
8H		20.5	20.9	21.0	21.3	21.8	19.6	20.0	20.0	20.4	20.8
12H		20.6	20.9	21.0	21.3	21.8	19.5	19.9	20.0	20.3	20.8
12H 4H		19.8	20.3	20.2	20.7	21.1	19.1	19.5	19.5	19.9	20.3
6H		20.4	20.8	20.8	21.2	21.7	19.5	19.9	20.0	20.4	20.8
8H		20.5	20.9	21.0	21.3	21.8	19.6	20.0	20.1	20.4	20.9
Variations with the observer position at spacings:											
S = 1.0H		+ 0.6 / - 0.6					+ 0.5 / - 0.5				
1.5H		+ 1.2 / - 0.7					+ 0.6 / - 0.7				
2.0H		+ 1.2 / - 0.6					+ 1.0 / - 0.5				

CIE Pub.117, 1147 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 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:239.97V I:0.0642A P:14.226W PF:0.9233 Freq:50.09Hz Lamp Flux:1147.23x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_24	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

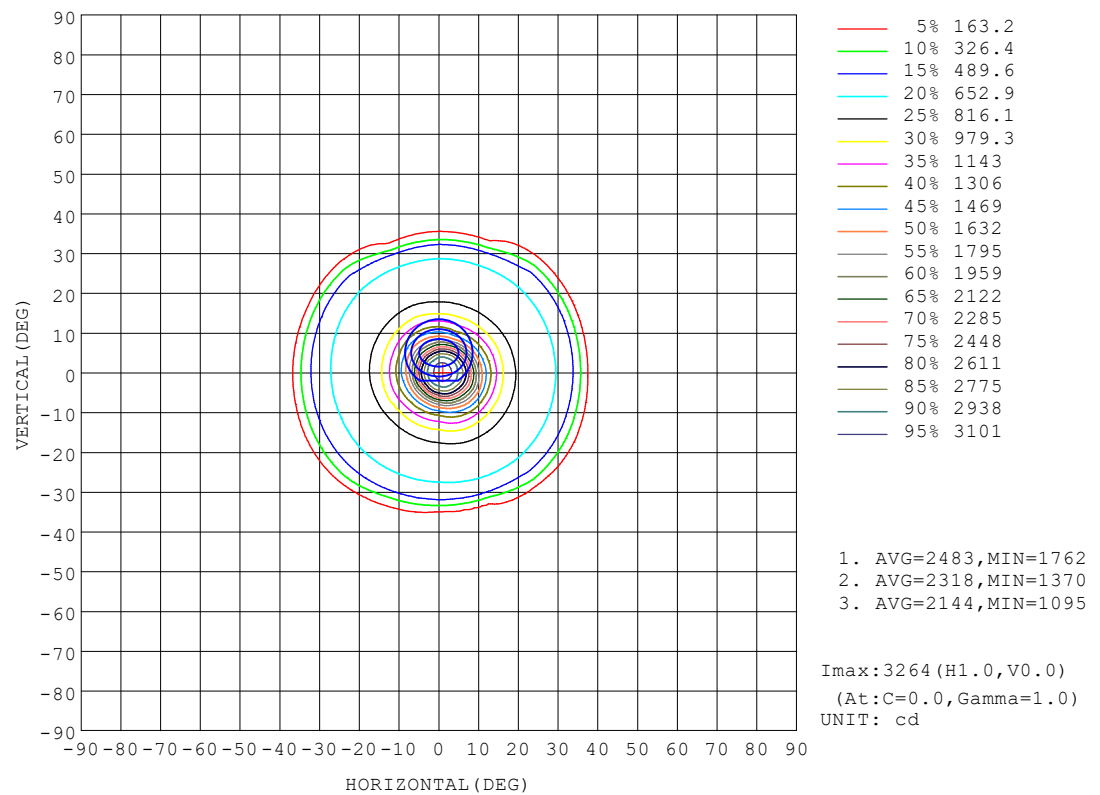
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	77	73	83	77	73	83	76	73	69
0.80	92	85	81	91	85	81	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:239.97V I:0.0642A P:14.226W PF:0.9233 Freq:50.09Hz Lamp Flux:1147.23x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_24	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

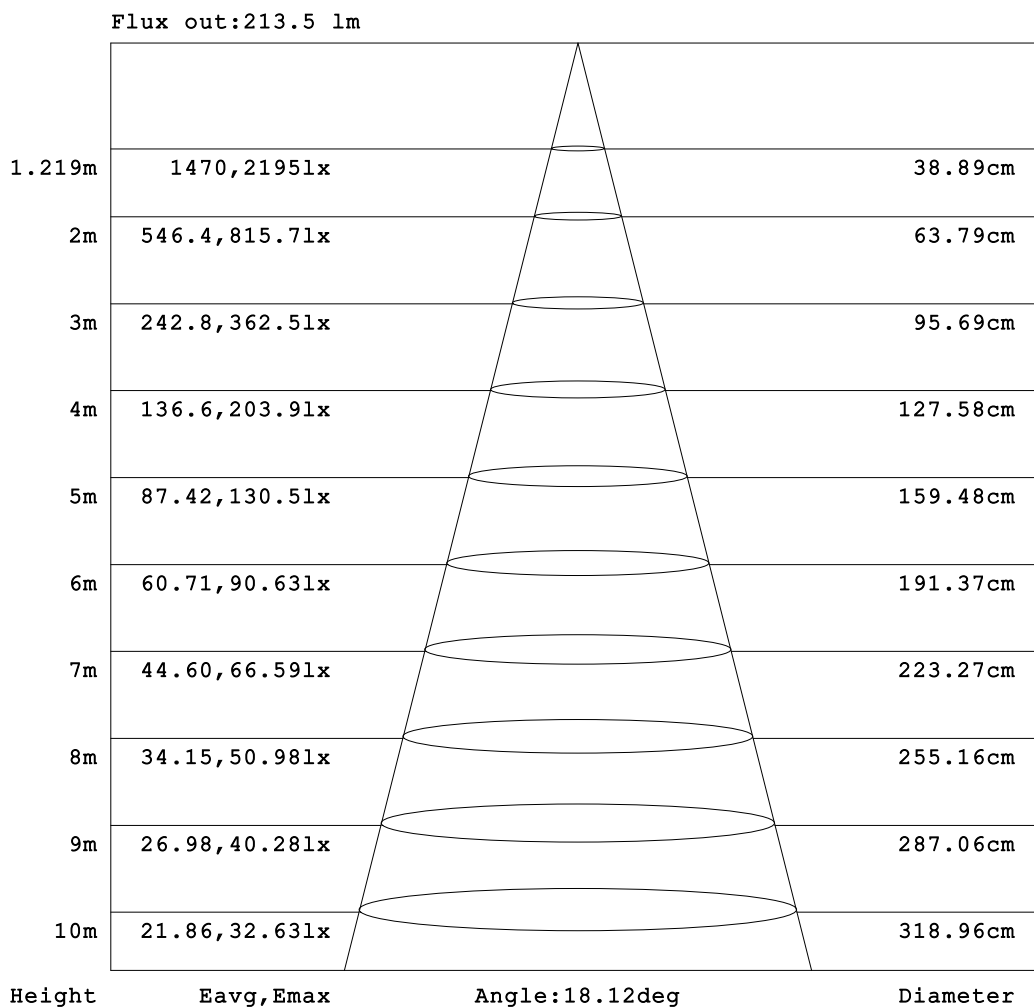


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:22 October 2020

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:239.97V I:0.0642A P:14.226W PF:0.9233 Freq:50.09Hz Lamp Flux:1147.23x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_24	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



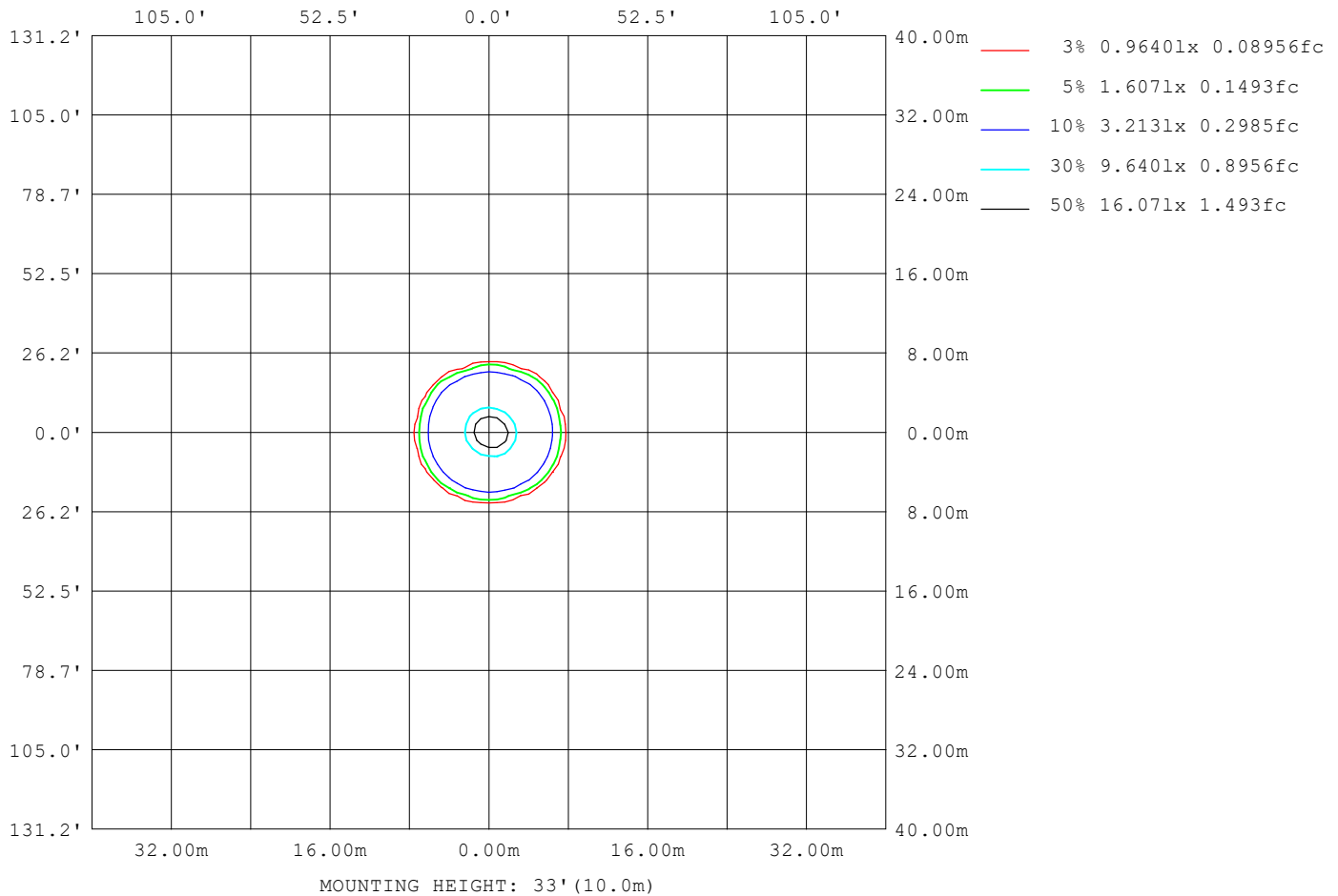
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:239.97V I:0.0642A P:14.226W PF:0.9233 Freq:50.09Hz Lamp Flux:1147.23x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_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:239.97V I:0.0642A P:14.226W PF:0.9233 Freq:50.09Hz Lamp Flux:1147.23x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_24	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

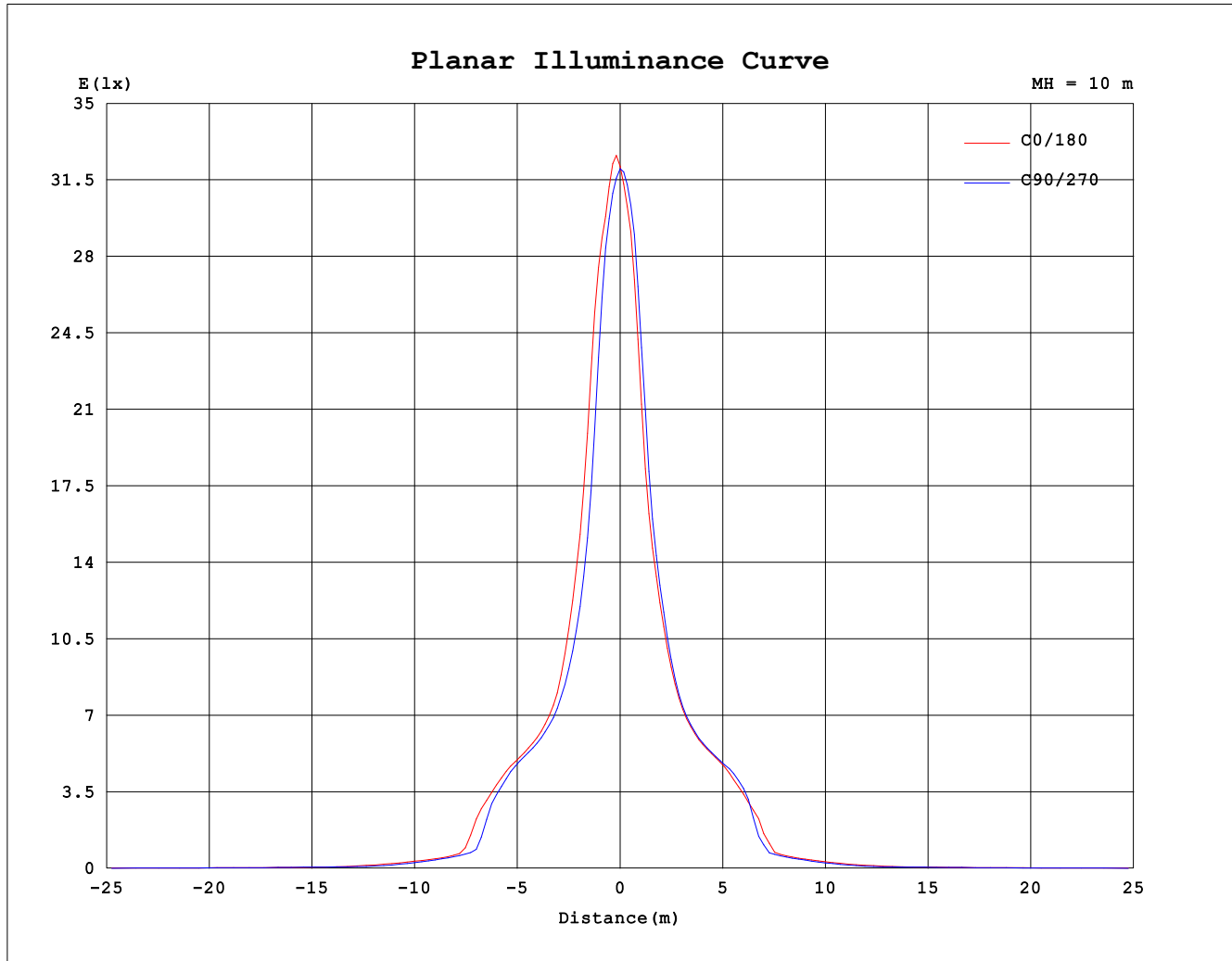
AvgL	cd/m2
L_0~180 (65) av	8741
L_0~180 (75) av	9174
L_0~180 (85) av	3440
L_90~270 (65) av	8236
L_90~270 (75) av	7328
L_90~270 (85) av	1143
L_45 (65) av	8386
L_45 (75) av	8043
L_45 (85) av	2024

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:

```