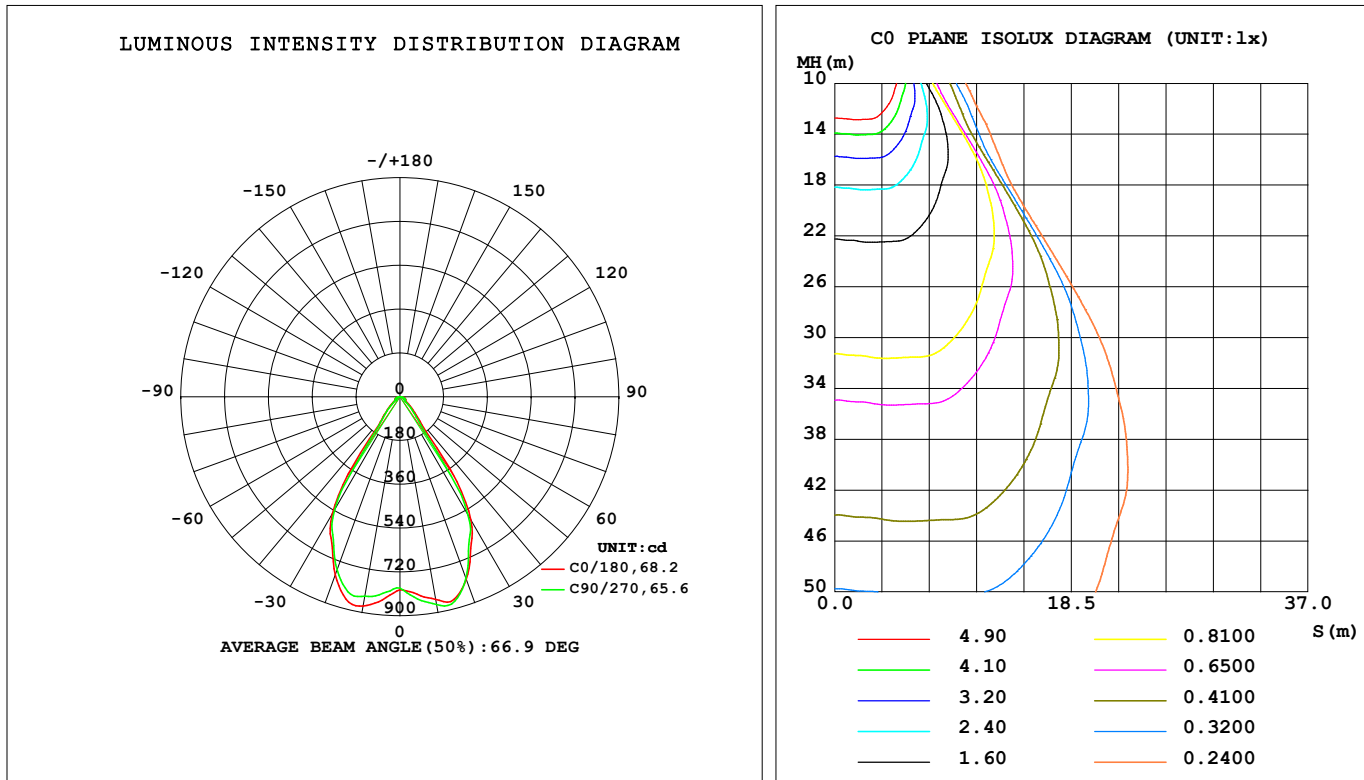


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.05V I:0.0492A P:10.397W PF:0.8799 Freq:50.09Hz Lamp Flux:910.315x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 87.56 lm/W
MODEL	SLE G7 09MM 4000K	I _{max} (cd)	896.8	S/MH (C0/180)	0.97	
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	0.93	
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	910.32	η UP,DN (C0-180)	0.0,50.8	
NOMINAL FLUX (lm)	910.315	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,49.2	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE (V)	230	η down (%)	100.0	CIBSE SHR MAX	0.70	



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JEFF
Test Date: 14 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	844.8	839.6	867.1	889.0	873.2	834.0	832.1	847.2	0- 10	79.59	79.59	8.74,8.74
20	798.3	782.9	793.7	796.5	778.9	751.8	756.7	787.0	10- 20	236.8	316.4	34.8,34.8
30	581.5	570.5	559.5	560.9	554.6	530.4	536.4	567.8	20- 30	308.1	624.5	68.6,68.6
40	119.3	108.3	98.16	106.1	108.6	100.7	98.37	114.6	30- 40	177.4	801.9	88.1,88.1
50	41.97	37.74	28.91	36.75	38.77	35.34	28.02	38.07	40- 50	50.90	852.8	93.7,93.7
60	22.78	22.49	22.42	22.25	22.94	22.30	22.32	22.06	50- 60	23.00	875.8	96.2,96.2
70	17.98	16.69	15.63	16.19	17.56	16.14	15.54	16.43	60- 70	19.70	895.5	98.4,98.4
80	7.147	7.154	5.588	6.631	7.043	6.368	5.337	7.102	70- 80	12.58	908.1	99.8,99.8
90	0.0596	0.0407	0.0376	0.0501	0.0627	0.0439	0.0282	0.0345	80- 90	2.245	910.3	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): 833.08 lm

%lum = 91.5%

%lamp = 91.5%

Conical surface Flux(120deg): 875.79 lm

%lum = 96.2%

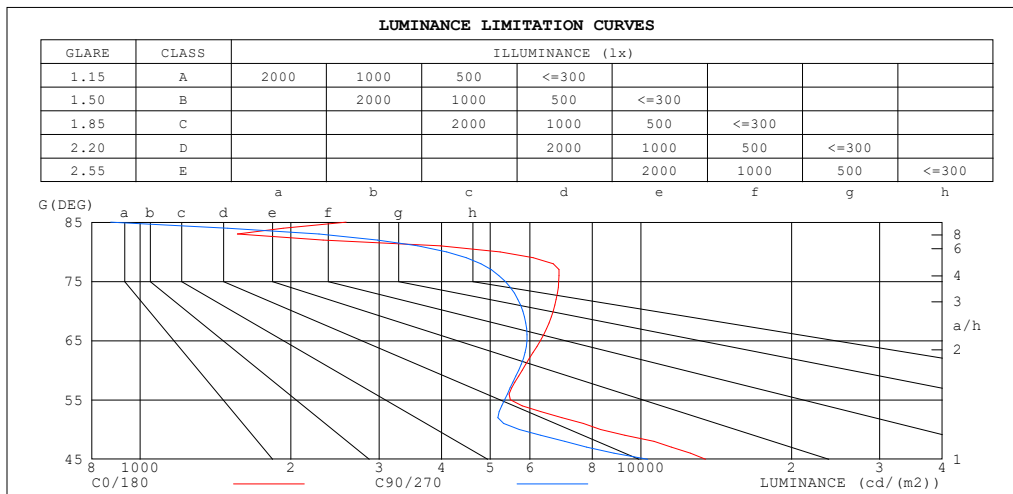
%lamp = 96.2%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:14 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:240.05V I:0.0492A P:10.397W PF:0.8799 Freq:50.09Hz Lamp Flux:910.315x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2578	873
80	5236	4094
75	6852	5364
70	6686	5813
65	6306	5923
60	5796	5704
55	5487	5342
50	8306	5721
45	13472	10322

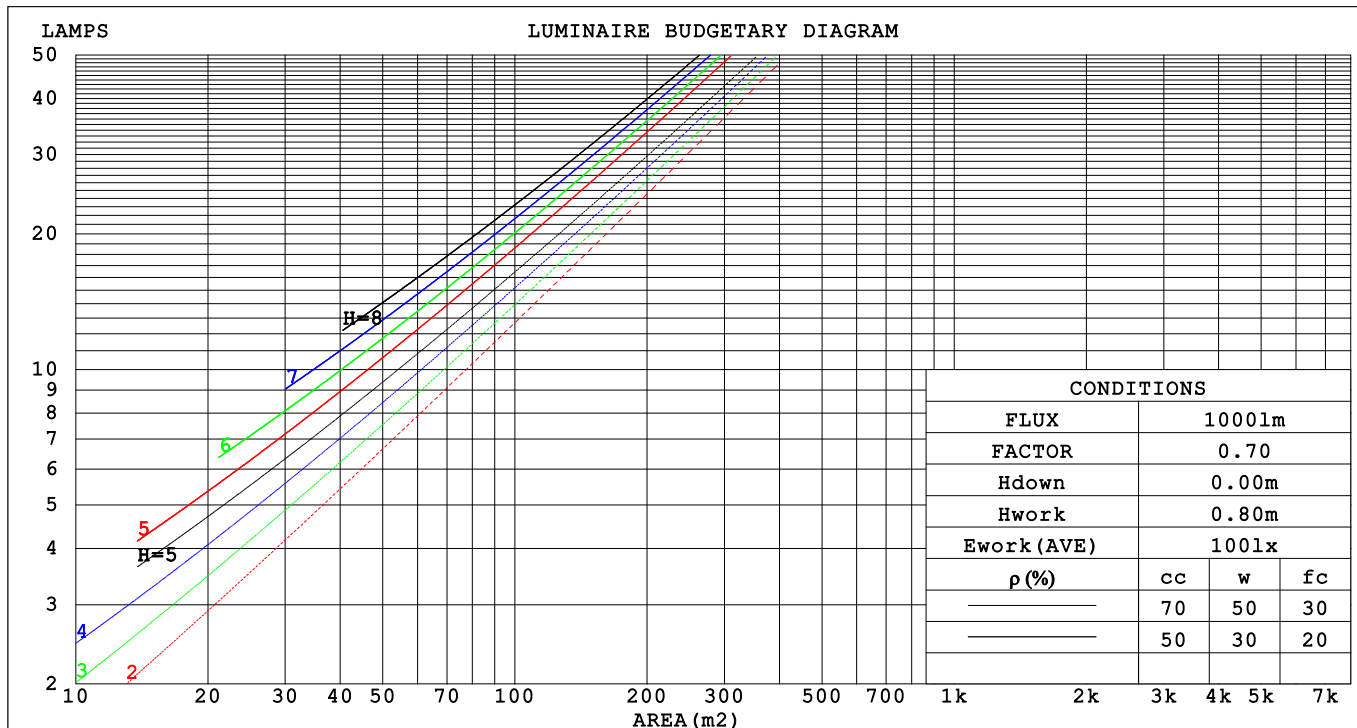
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:14 October 2020

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:240.05V I:0.0492A P:10.397W PF:0.8799 Freq:50.09Hz Lamp Flux:910.315x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_50	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	.00
1.0	1.10	1.07	1.05	1.08	1.05	1.03	1.04	1.02	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.01	.97	.93	.00	.96	.92	.96	.93	.90	.93	.91	.88	.91	.88	.86	.85
3.0	.94	.89	.84	.93	.88	.84	.90	.86	.82	.87	.84	.81	.85	.82	.80	.78
4.0	.87	.82	.77	.86	.81	.77	.84	.79	.76	.82	.78	.75	.80	.77	.74	.72
5.0	.82	.75	.71	.81	.75	.70	.79	.74	.70	.77	.73	.69	.75	.72	.69	.67
6.0	.76	.70	.65	.75	.70	.65	.74	.69	.65	.72	.68	.64	.71	.67	.64	.62
7.0	.72	.65	.61	.71	.65	.61	.70	.64	.60	.68	.64	.60	.67	.63	.60	.58
8.0	.67	.61	.57	.67	.61	.57	.66	.60	.56	.64	.60	.56	.63	.59	.56	.54
9.0	.63	.57	.53	.63	.57	.53	.62	.56	.53	.61	.56	.53	.60	.56	.52	.51
10.0	.60	.54	.50	.59	.54	.50	.58	.53	.49	.58	.53	.49	.57	.52	.49	.48



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:14 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:240.05V I:0.0492A P:10.397W PF:0.8799 Freq:50.09Hz Lamp Flux:910.315x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_50	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	.195	.111	.035	.189	.108	.034	.176	.101	.032	.164	.095	.030	.153	.089	.029	
2.0	.186	.102	.031	.180	.099	.031	.170	.094	.029	.160	.090	.028	.151	.085	.027	
3.0	.176	.094	.028	.171	.092	.028	.162	.088	.027	.153	.084	.026	.146	.081	.025	
4.0	.167	.087	.025	.162	.085	.025	.154	.082	.024	.147	.079	.024	.140	.076	.023	
5.0	.158	.080	.023	.154	.079	.023	.147	.077	.023	.141	.074	.022	.135	.072	.022	
6.0	.150	.075	.022	.147	.074	.021	.140	.072	.021	.135	.070	.021	.129	.068	.020	
7.0	.143	.071	.020	.140	.070	.020	.134	.068	.020	.129	.066	.019	.124	.065	.019	
8.0	.136	.066	.019	.133	.066	.019	.129	.064	.018	.124	.063	.018	.120	.061	.018	
9.0	.130	.063	.018	.128	.062	.017	.123	.061	.017	.119	.060	.017	.115	.059	.017	
10.0	.124	.060	.017	.122	.059	.016	.118	.058	.016	.115	.057	.016	.111	.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	.143	.148	.135	.123	.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	.136	.099	.071	.117	.086	.061	.081	.060	.043	.047	.035	.026	.015	.011	.008	
5.0	.128	.088	.058	.110	.076	.050	.076	.053	.036	.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	.114	.071	.041	.098	.062	.036	.068	.043	.025	.039	.025	.015	.013	.008	.005	
8.0	.108	.065	.035	.093	.056	.031	.065	.040	.022	.038	.023	.013	.012	.008	.004	
9.0	.103	.060	.030	.089	.052	.027	.062	.036	.019	.036	.022	.011	.012	.007	.004	
10.0	.099	.055	.027	.085	.048	.023	.059	.034	.017	.034	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:14 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:240.05V I:0.0492A P:10.397W PF:0.8799 Freq:50.09Hz Lamp Flux:910.315x1 lm										
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_50						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				
x = 2H y = 2H						18.6	19.6	18.8	19.8	19.9
3H						17.6	18.6	17.8	18.8	18.9
4H						18.1	19.0	18.4	19.2	19.4
6H						18.4	19.2	18.6	19.5	19.7
8H						18.5	19.4	18.8	19.6	19.8
12H						18.5	19.3	18.8	19.6	19.8
4H 2H						18.5	19.3	18.8	19.5	19.8
3H						18.6	19.5	18.8	19.7	19.9
4H						18.4	19.1	18.7	19.4	19.7
6H						18.8	19.5	19.1	19.8	20.1
8H						19.1	19.7	19.4	20.0	20.4
12H						19.1	19.7	19.5	20.0	20.4
8H 4H						19.0	19.6	19.5	19.9	20.3
6H						19.8	19.5	19.3	19.9	20.2
8H						20.3	19.8	19.7	20.2	20.6
12H						20.4	19.8	19.8	20.2	20.6
12H 4H						20.5	19.7	19.8	20.1	20.6
6H						19.8	19.5	19.4	19.8	20.2
8H						20.3	19.8	19.8	20.2	20.6
12H						20.4	19.8	19.9	20.2	20.7
Variations with the observer position at spacings:										
S = 1.0H						+ 1.0 / - 0.9			+ 0.7 / - 0.9	
1.5H						+ 2.0 / - 1.0			+ 1.4 / - 1.0	
2.0H						+ 1.5 / - 0.6			+ 1.0 / - 0.5	

CIE Pub.117, 910.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.3)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:14 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:240.05V I:0.0492A P:10.397W PF:0.8799 Freq:50.09Hz Lamp Flux:910.315x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

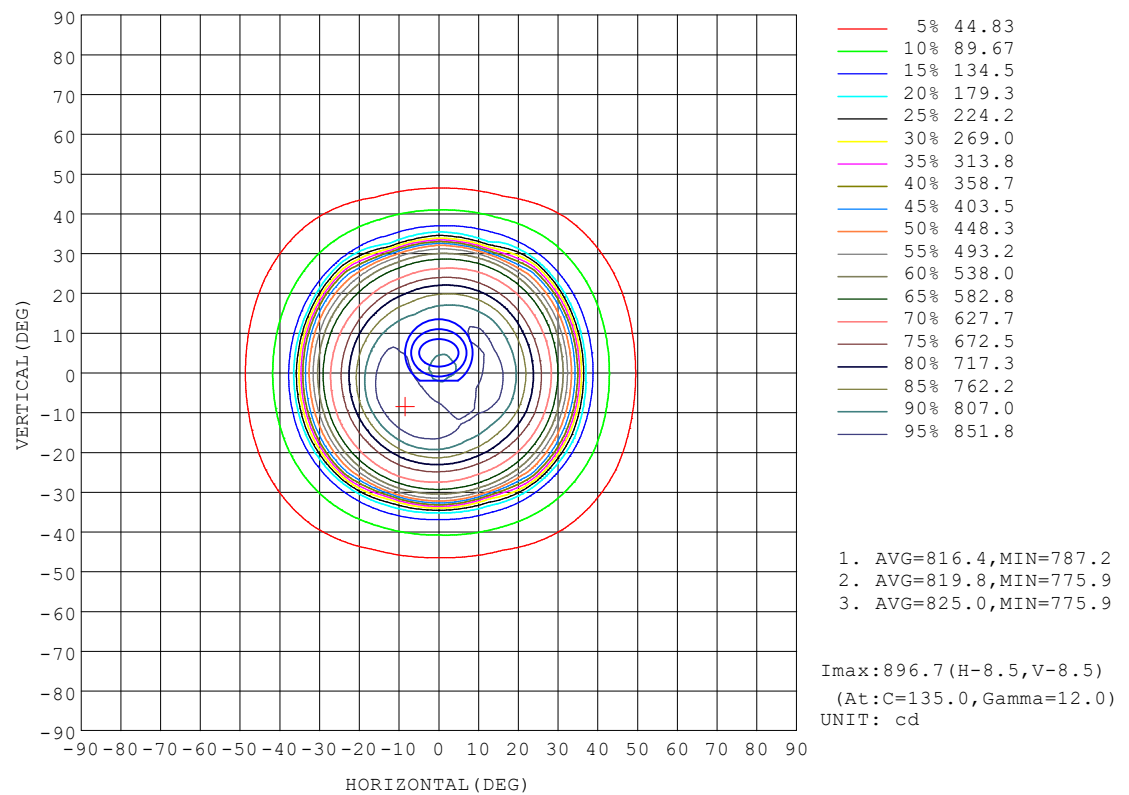
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	77	73	84	77	73	83	77	73	69
0.80	92	85	81	91	85	81	90	84	81	77
1.00	97	90	86	96	90	86	94	90	86	81
1.25	101	95	91	100	95	91	98	93	90	86
1.50	104	99	95	103	98	94	100	96	93	88
2.00	107	102	99	106	101	98	103	99	96	91
2.50	109	105	101	107	103	100	104	101	99	92
3.00	111	107	104	109	105	103	105	103	101	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	110	112	110	108	108	107	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:14 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:240.05V I:0.0492A P:10.397W PF:0.8799 Freq:50.09Hz Lamp Flux:910.315x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

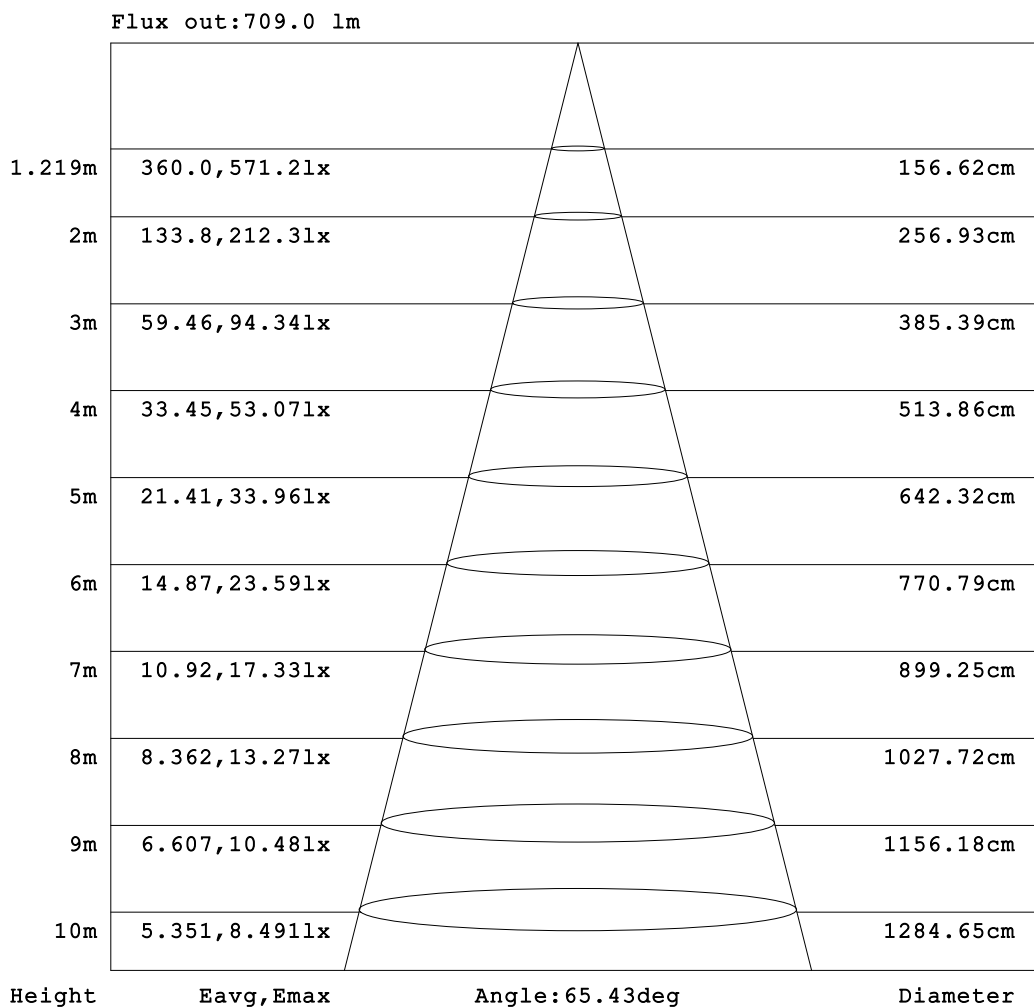


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:14 October 2020

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:240.05V I:0.0492A P:10.397W PF:0.8799 Freq:50.09Hz Lamp Flux:910.315x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



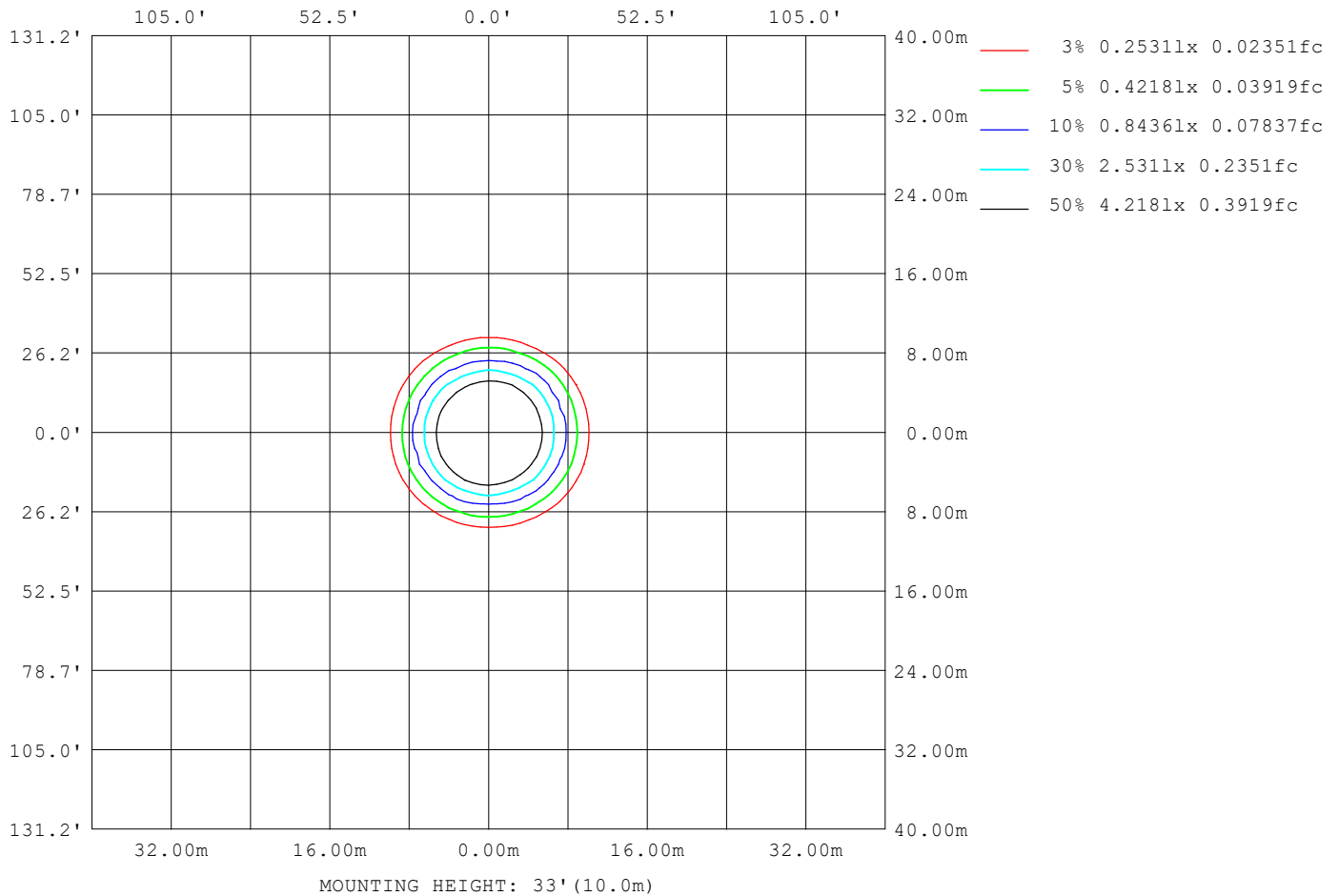
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:14 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:240.05V I:0.0492A P:10.397W PF:0.8799 Freq:50.09Hz Lamp Flux:910.315x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_50	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:14 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:240.05V I:0.0492A P:10.397W PF:0.8799 Freq:50.09Hz Lamp Flux:910.315x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

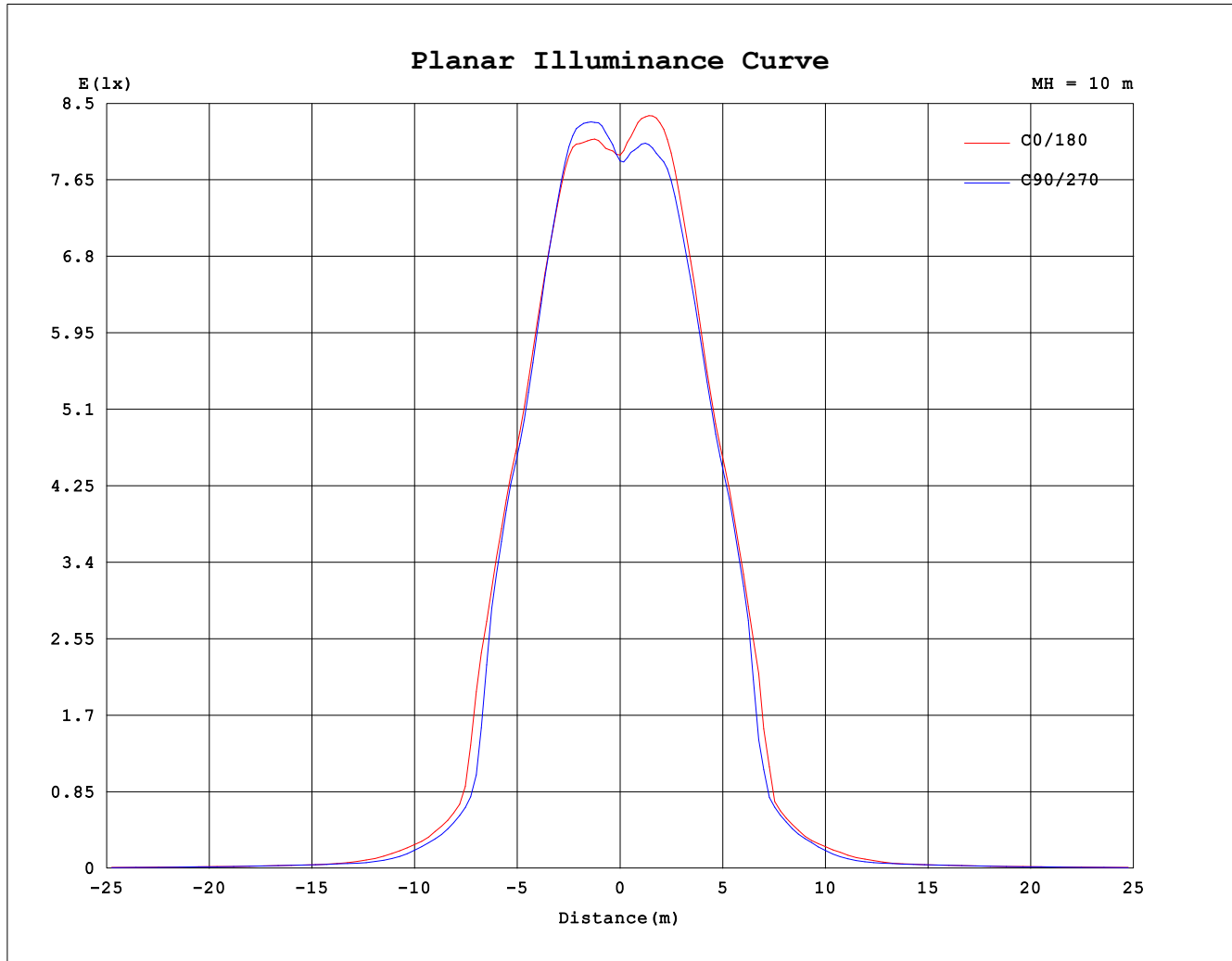
AvgL	cd/m2
L_0~180 (65) av	6297
L_0~180 (75) av	6691
L_0~180 (85) av	2338
L_90~270 (65) av	5906
L_90~270 (75) av	5343
L_90~270 (85) av	812
L_45 (65) av	6015
L_45 (75) av	5838
L_45 (85) av	1475

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:14 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: 14 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:

```