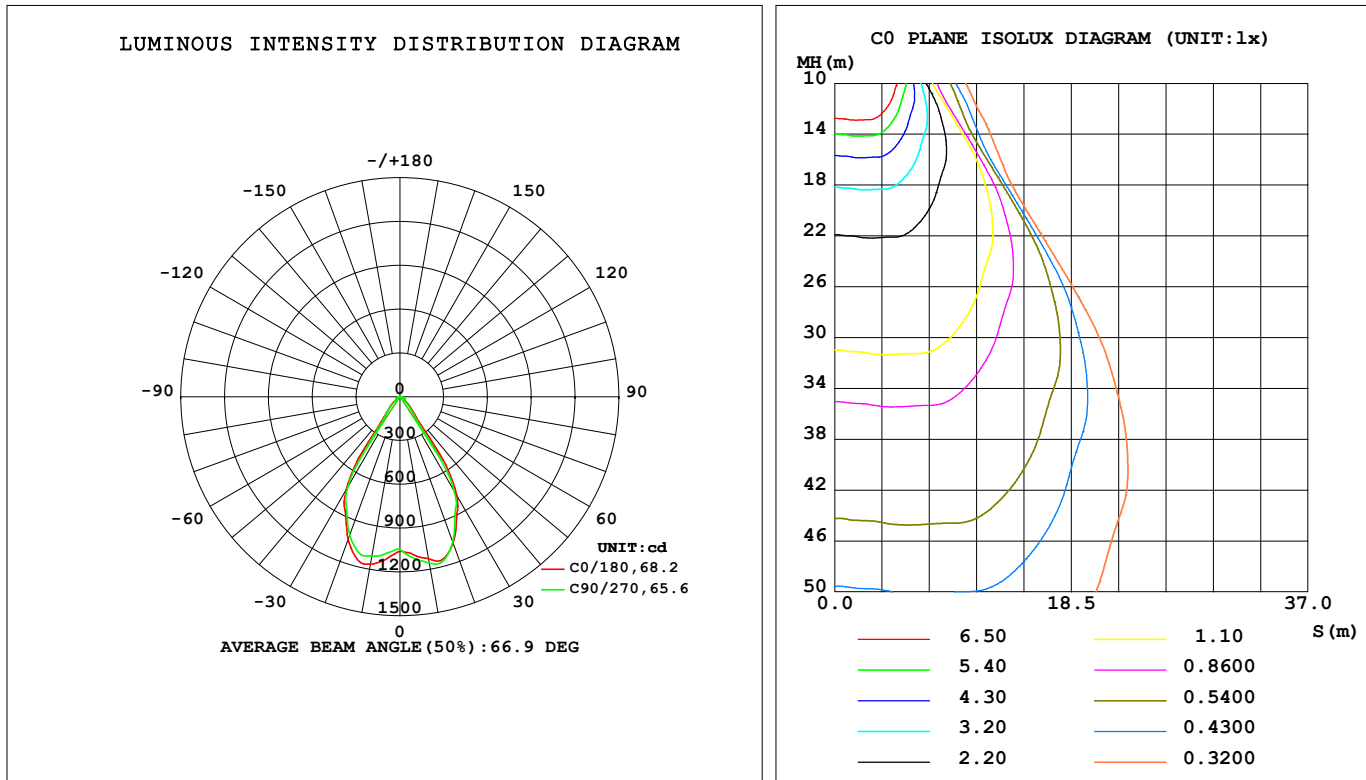


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:239.85V I:0.0640A P:14.172W PF:0.9230 Freq:50.09Hz Lamp Flux:1211.91x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_4K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 85.51 lm/W
MODEL	SLE G7 09MM 4000K	I _{max} (cd)	1193	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)	1211.9	η UP,DN (C0-180)		0.0,50.8
NOMINAL FLUX (lm)	1211.91	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	1127	1118	1156	1183	1165	1111	1108	1128	0- 10	106.0	106.0	8.74,8.74
20	1065	1044	1057	1060	1039	1002	1007	1047	10- 20	315.5	421.4	34.8,34.8
30	775.8	759.0	743.2	746.1	738.2	706.6	716.0	755.6	20- 30	410.4	831.8	68.6,68.6
40	159.5	144.6	129.2	141.4	144.7	134.2	131.1	152.4	30- 40	235.6	1067	88.1,88.1
50	55.98	50.33	38.58	49.03	51.69	47.05	37.28	50.77	40- 50	67.76	1135	93.7,93.7
60	30.34	29.95	29.93	29.67	30.58	29.68	29.69	29.40	50- 60	30.65	1166	96.2,96.2
70	23.95	22.25	20.90	21.60	23.40	21.46	20.65	21.91	60- 70	26.26	1192	98.4,98.4
80	9.527	9.553	7.504	8.876	9.403	8.455	7.086	9.482	70- 80	16.77	1209	99.8,99.8
90	0.1128	0.0909	0.0815	0.1003	0.1160	0.0909	0.0815	0.0784	80- 90	3.024	1212	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): 1108.9 lm

%lum = 91.5%

%lamp = 91.5%

Conical surface Flux(120deg): 1165.9 lm

%lum = 96.2%

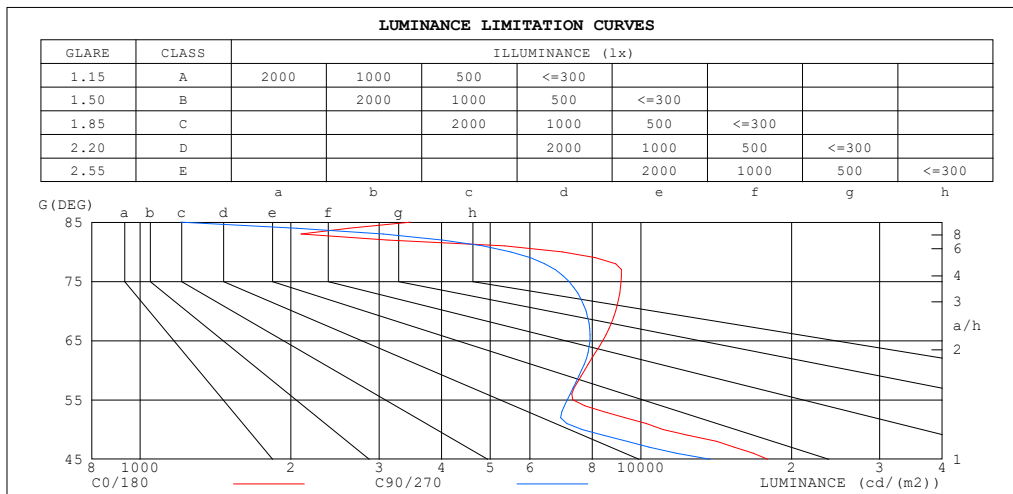
%lamp = 96.2%

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:239.85V I:0.0640A P:14.172W PF:0.9230 Freq:50.09Hz Lamp Flux:1211.91x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_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	3468	1206
80	6980	5498
75	9132	7183
70	8907	7775
65	8399	7915
60	7719	7615
55	7318	7132
50	11080	7636
45	17914	13743

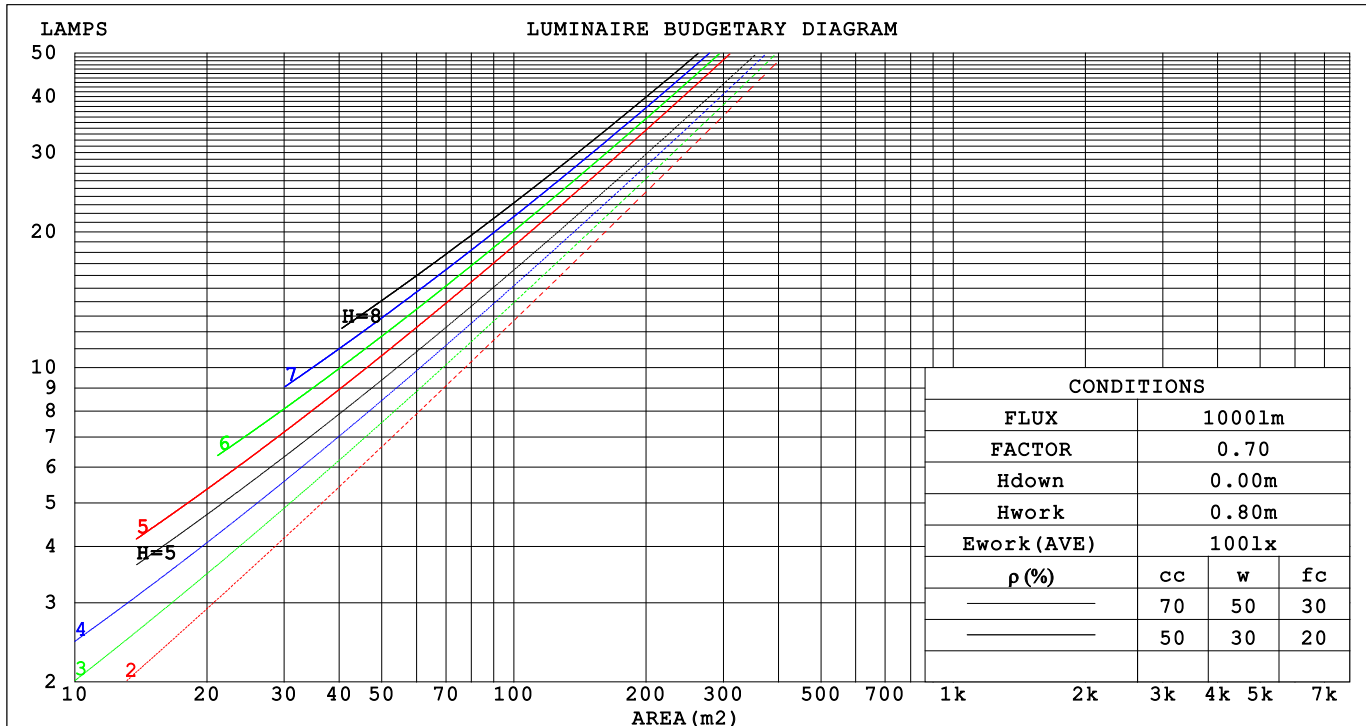
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:14 October 2020

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:239.85V I:0.0640A P:14.172W PF:0.9230 Freq:50.09Hz Lamp Flux:1211.91x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_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						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:239.85V I:0.0640A P:14.172W PF:0.9230 Freq:50.09Hz Lamp Flux:1211.91x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_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	.154	.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:239.85V I:0.0640A P:14.172W PF:0.9230 Freq:50.09Hz Lamp Flux:1211.91x1 lm											
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_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					Viewed endwise				
x = 2H y = 2H	2H	18.5	19.5	18.7	19.7	19.8	17.6	18.6	17.8	18.8	19.0
	3H	19.0	19.9	19.2	20.1	20.3	18.1	19.0	18.4	19.2	19.5
	4H	19.3	20.2	19.6	20.4	20.6	18.4	19.3	18.7	19.5	19.7
	6H	19.5	20.4	19.8	20.6	20.9	18.5	19.4	18.8	19.6	19.9
	8H	19.5	20.3	19.9	20.6	20.9	18.5	19.3	18.9	19.6	19.9
	12H	19.5	20.3	19.8	20.6	20.8	18.5	19.3	18.8	19.6	19.8
4H	2H	18.5	19.4	18.7	19.6	19.8	17.6	18.5	17.9	18.8	19.0
	3H	19.2	19.9	19.5	20.2	20.5	18.4	19.2	18.7	19.4	19.7
	4H	19.7	20.3	20.0	20.6	21.0	18.8	19.5	19.2	19.8	20.1
	6H	20.1	20.7	20.4	21.0	21.4	19.1	19.7	19.5	20.0	20.4
	8H	20.1	20.7	20.5	21.0	21.4	19.1	19.7	19.5	20.0	20.4
	12H	20.1	20.6	20.5	21.0	21.4	19.1	19.6	19.5	20.0	20.4
8H	4H	19.8	20.3	20.1	20.7	21.0	19.0	19.5	19.4	19.9	20.3
	6H	20.3	20.8	20.7	21.1	21.6	19.3	19.8	19.8	20.2	20.6
	8H	20.4	20.8	20.8	21.2	21.7	19.4	19.8	19.8	20.2	20.7
	12H	20.4	20.8	20.9	21.2	21.7	19.4	19.7	19.8	20.2	20.6
12H	4H	19.7	20.3	20.1	20.6	21.0	19.0	19.5	19.4	19.9	20.3
	6H	20.3	20.7	20.7	21.1	21.6	19.4	19.8	19.8	20.2	20.6
	8H	20.4	20.8	20.9	21.2	21.7	19.4	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, 1212 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: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:239.85V I:0.0640A P:14.172W PF:0.9230 Freq:50.09Hz Lamp Flux:1211.91x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_4K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

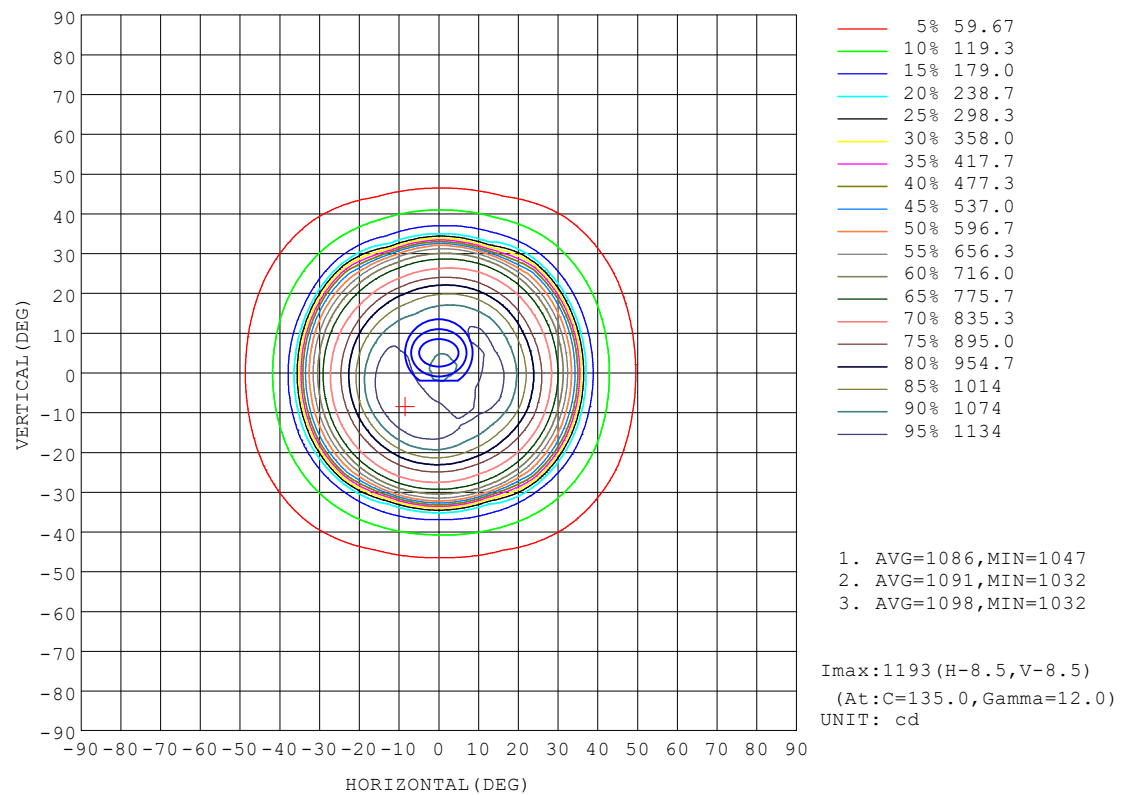
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	77	73	84	77	73	83	77	73	69
0.80	92	85	81	91	85	81	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:239.85V I:0.0640A P:14.172W PF:0.9230 Freq:50.09Hz Lamp Flux:1211.91x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_4K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

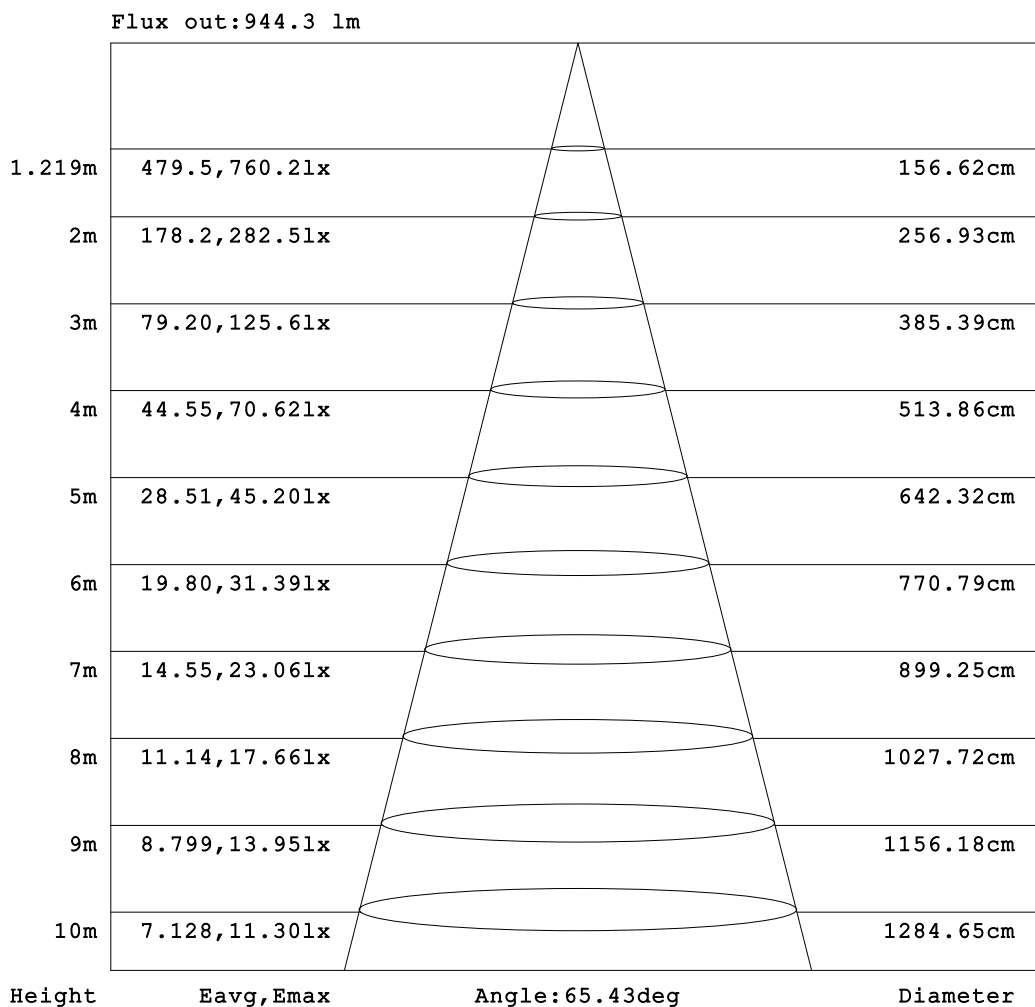


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:14 October 2020

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:239.85V I:0.0640A P:14.172W PF:0.9230 Freq:50.09Hz Lamp Flux:1211.91x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_4K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



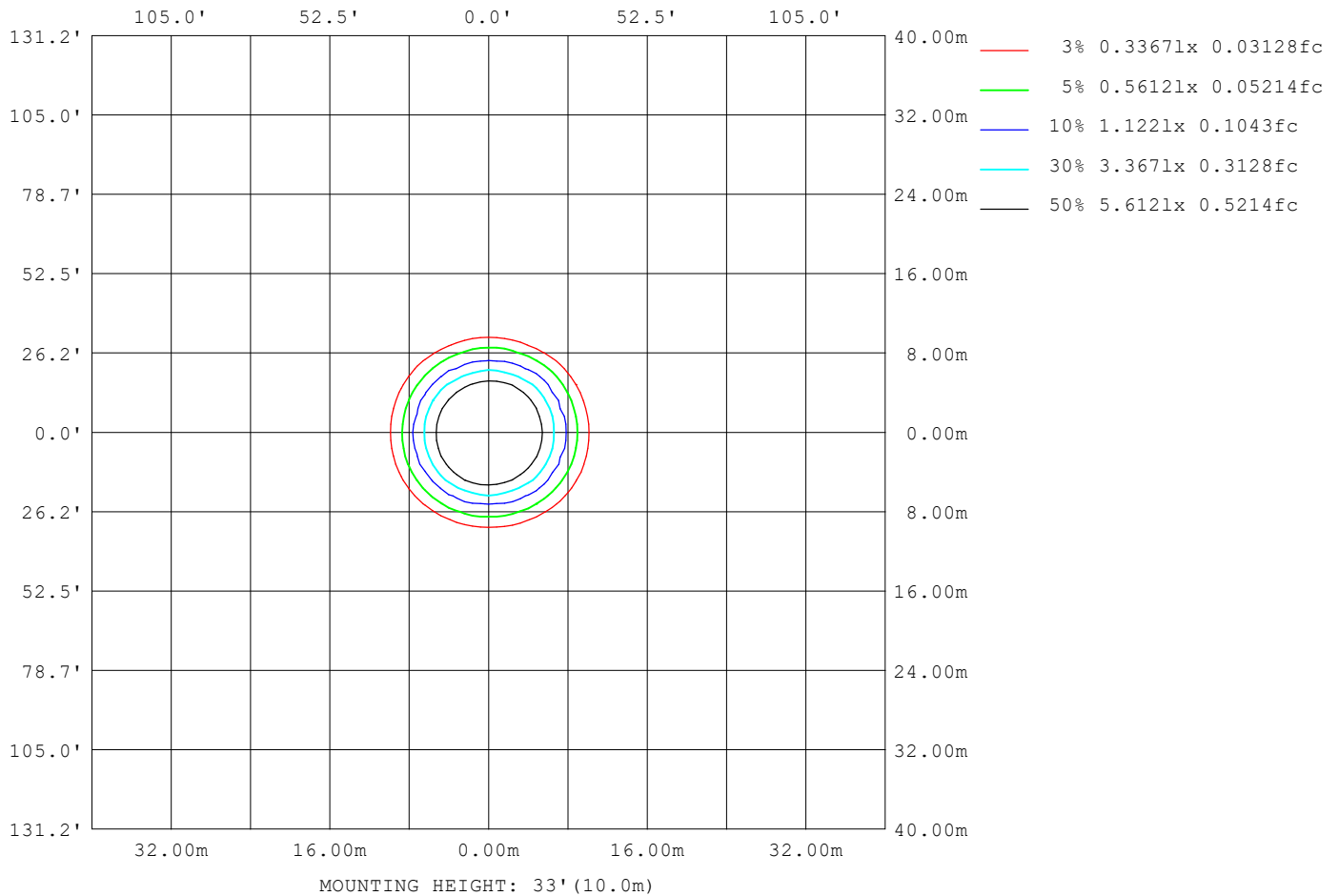
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:239.85V I:0.0640A P:14.172W PF:0.9230 Freq:50.09Hz Lamp Flux:1211.91x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_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:239.85V I:0.0640A P:14.172W PF:0.9230 Freq:50.09Hz Lamp Flux:1211.91x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_4K_50	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

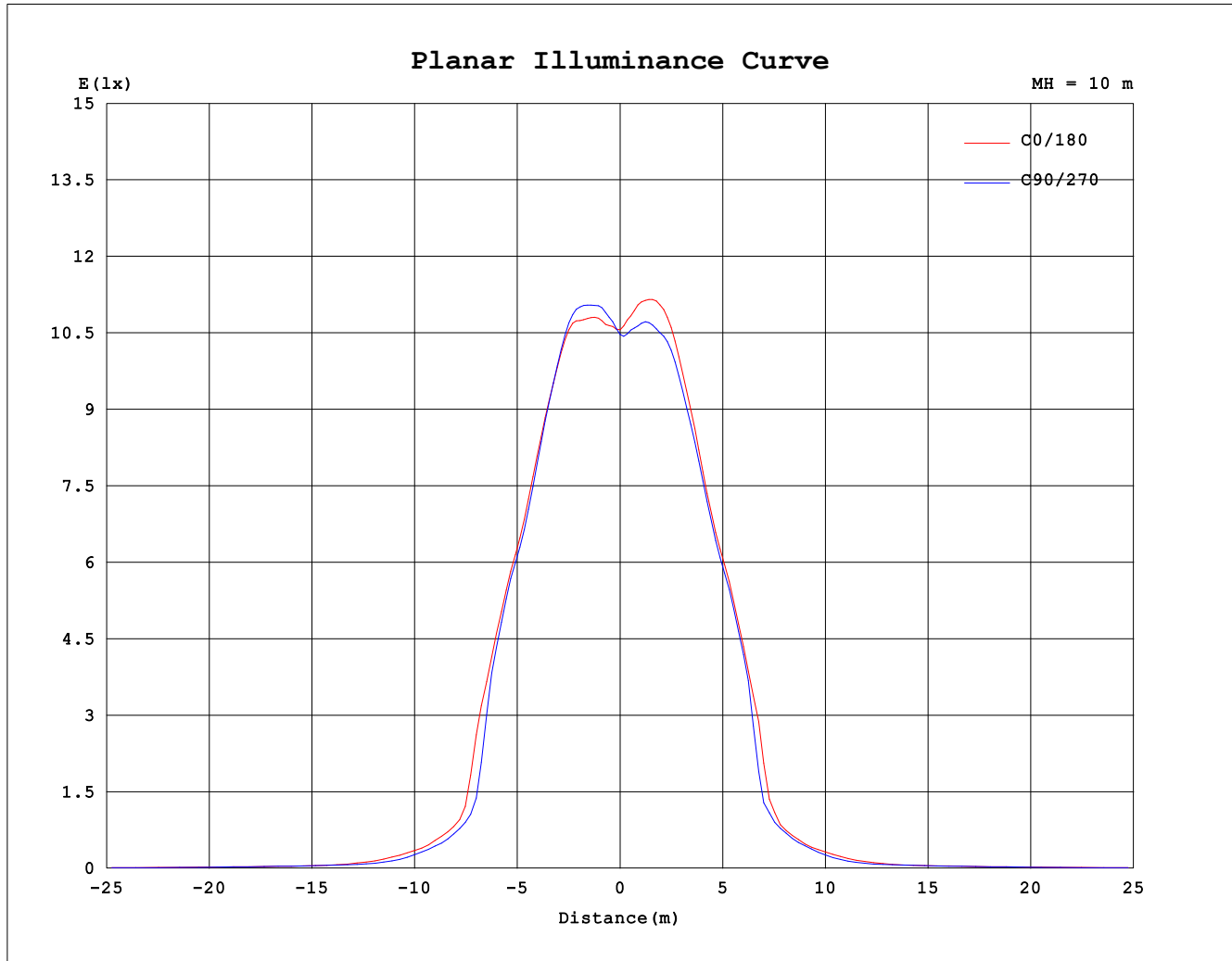
AvgL	cd/m2
L_0~180 (65) av	8393
L_0~180 (75) av	8916
L_0~180 (85) av	3162
L_90~270 (65) av	7872
L_90~270 (75) av	7122
L_90~270 (85) av	1123
L_45 (65) av	8014
L_45 (75) av	7779
L_45 (85) av	1999

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:

```