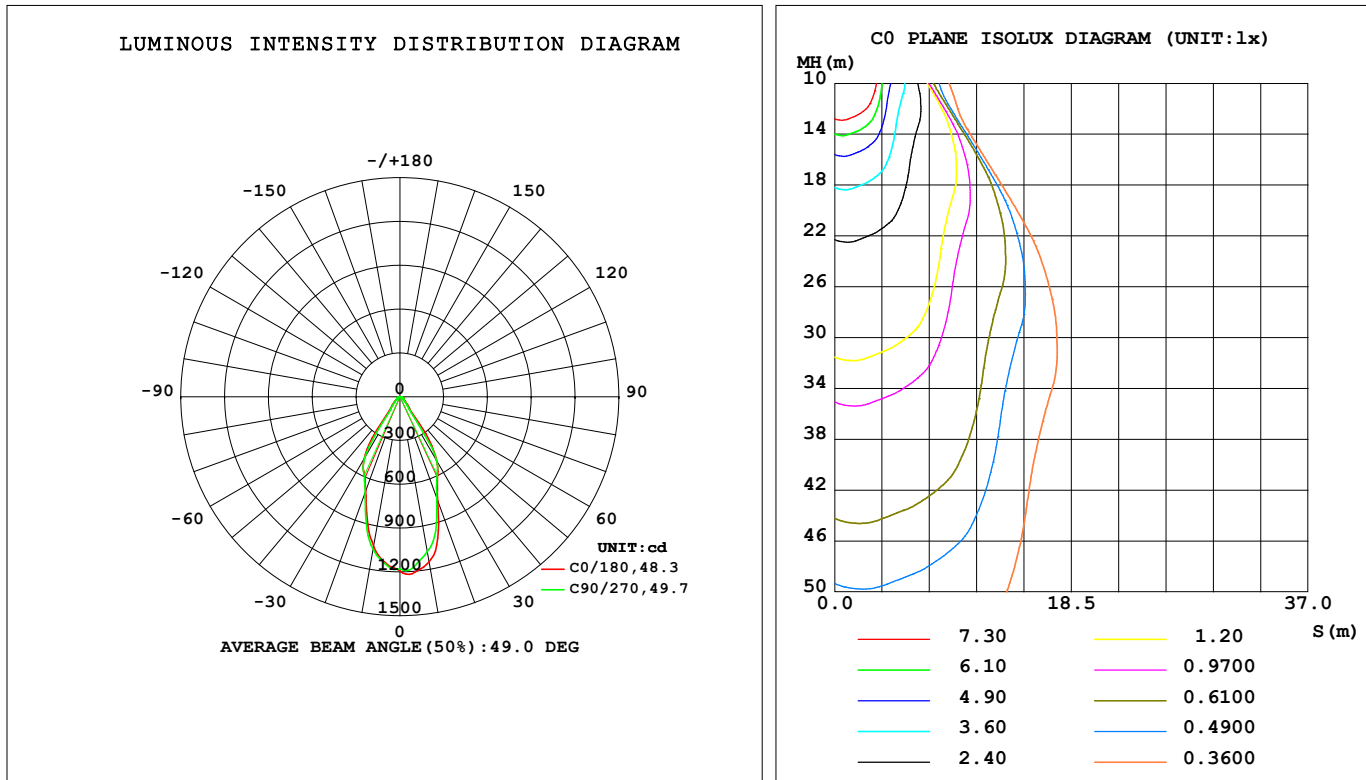


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:239.81V I:0.0494A P:10.426W PF:0.8800 Freq:50.09Hz Lamp Flux:896.767x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_32	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 86.01 lm/W
MODEL	SLE G7 09MM 4000K	I _{max} (cd)	1219	S/MH (C0/180)	0.70	
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	0.72	
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	896.77	η UP,DN (C0-180)	0.0,50.9	
NOMINAL FLUX (lm)	896.767	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,49.1	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE (V)	230	η down (%)	100.0	CIBSE SHR MAX	0.85	



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	1148	1129	1078	1053	1041	1034	1060	1100	0- 10	108.5	108.5	12.1,12.1
20	758.9	763.9	738.5	709.8	688.7	687.5	699.8	730.3	10- 20	254.5	363.1	40.5,40.5
30	502.0	500.5	499.4	497.2	489.6	476.7	482.1	492.6	20- 30	274.7	637.7	71.1,71.1
40	99.68	91.04	83.50	91.73	94.85	88.43	83.29	94.79	30- 40	152.7	790.4	88.1,88.1
50	43.09	37.95	30.15	39.40	41.12	36.89	29.44	39.89	40- 50	46.39	836.8	93.3,93.3
60	23.70	23.26	23.41	23.37	24.07	23.37	23.26	23.09	50- 60	24.07	860.9	96,96
70	18.64	17.09	16.20	16.98	18.42	16.85	16.15	17.27	60- 70	20.56	881.4	98.3,98.3
80	7.386	7.073	5.632	6.800	7.376	6.528	5.549	7.613	70- 80	13.02	894.5	99.7,99.7
90	0.0627	0.0439	0.0407	0.0627	0.0752	0.0376	0.0345	0.0376	80- 90	2.295	896.8	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): 817.71 lm

%lum = 91.2%

%lamp = 91.2%

Conical surface Flux(120deg): 860.89 lm

%lum = 96.0%

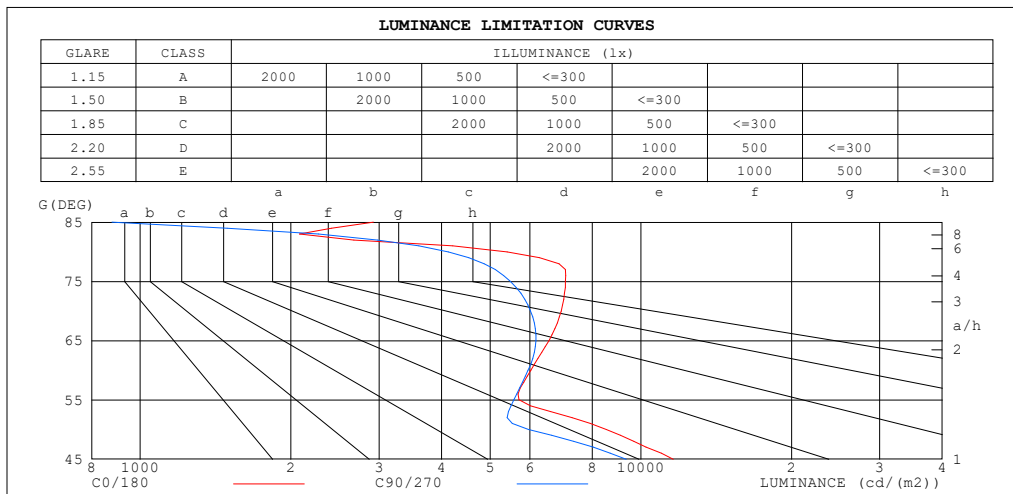
%lamp = 96.0%

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:239.81V I:0.0494A P:10.426W PF:0.8800 Freq:50.09Hz Lamp Flux:896.767x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_32	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2924	878
80	5412	4126
75	7074	5491
70	6934	6025
65	6555	6172
60	6031	5956
55	5713	5580
50	8529	5968
45	11608	9352

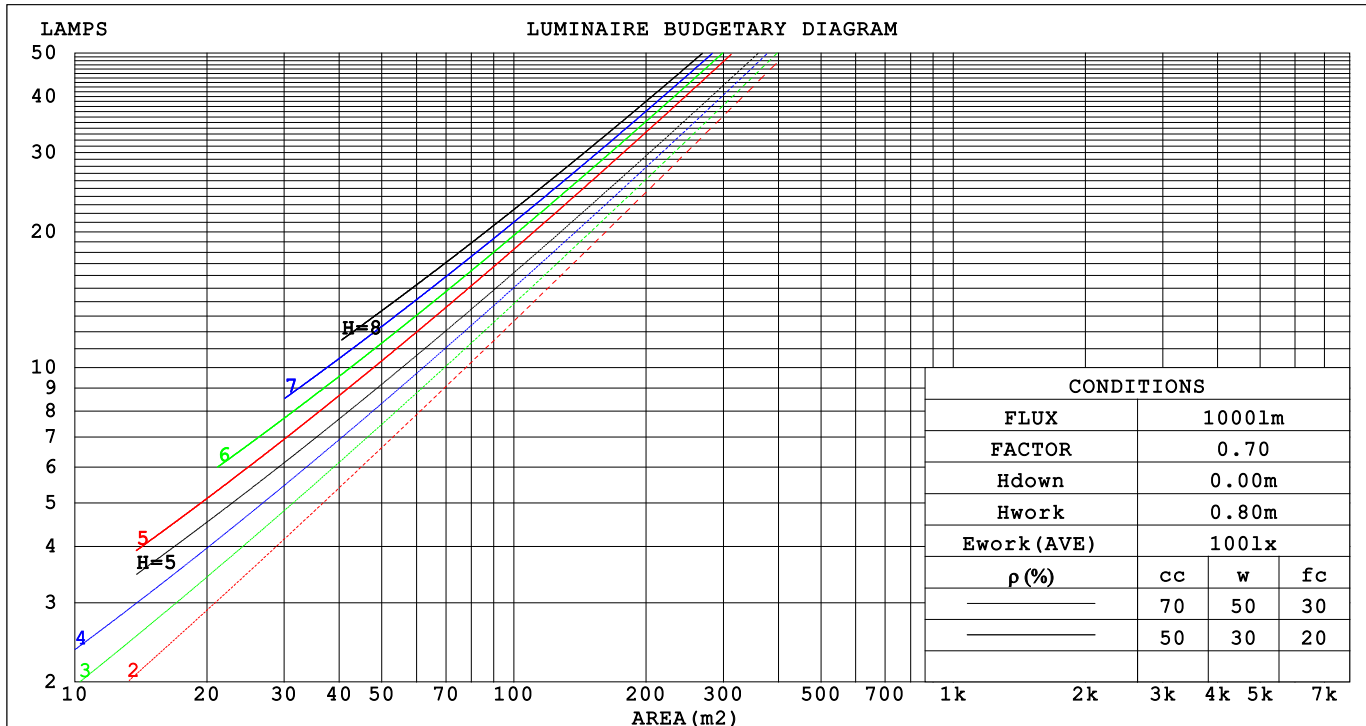
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:22 October 2020

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:239.81V I:0.0494A P:10.426W PF:0.8800 Freq:50.09Hz Lamp Flux:896.767x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_32	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:239.81V I:0.0494A P:10.426W PF:0.8800 Freq:50.09Hz Lamp Flux:896.767x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_32	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	.191	.109	.034	.185	.105	.033	.172	.099	.031	.160	.092	.030	.149	.087	.028	
2.0	.182	.100	.031	.176	.097	.030	.165	.092	.029	.155	.087	.027	.146	.083	.026	
3.0	.171	.091	.027	.166	.089	.027	.157	.085	.026	.149	.082	.025	.141	.078	.024	
4.0	.162	.084	.025	.157	.082	.024	.150	.079	.024	.142	.076	.023	.135	.074	.022	
5.0	.153	.078	.023	.149	.077	.022	.142	.074	.022	.136	.072	.021	.130	.069	.021	
6.0	.145	.073	.021	.142	.072	.021	.136	.070	.020	.130	.068	.020	.125	.066	.019	
7.0	.138	.068	.019	.135	.067	.019	.129	.065	.019	.124	.064	.019	.120	.062	.018	
8.0	.131	.064	.018	.129	.063	.018	.124	.062	.018	.119	.060	.017	.115	.059	.017	
9.0	.125	.061	.017	.123	.060	.017	.119	.059	.017	.115	.057	.016	.111	.056	.016	
10.0	.120	.057	.016	.118	.057	.016	.114	.056	.016	.110	.055	.016	.107	.054	.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	.158	.132	.111	.135	.114	.096	.092	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.145	.114	.088	.125	.098	.077	.086	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.135	.099	.071	.116	.086	.062	.080	.060	.044	.046	.035	.026	.015	.011	.008	
5.0	.127	.088	.059	.109	.076	.051	.075	.053	.036	.043	.031	.021	.014	.010	.007	
6.0	.119	.078	.049	.102	.068	.043	.071	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.112	.071	.042	.097	.061	.036	.067	.043	.026	.039	.025	.015	.013	.008	.005	
8.0	.106	.064	.036	.092	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.101	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.097	.055	.027	.083	.048	.024	.058	.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: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:239.81V I:0.0494A P:10.426W PF:0.8800 Freq:50.09Hz Lamp Flux:896.767x1 lm										
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_32 DEG TYPE:LED						WEIGHT:				
SPEC.:						DIM.:				
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						Viewed endwise				
3H										
4H										
6H										
8H										
12H										
4H 2H										
3H										
4H										
6H										
8H										
12H										
8H 4H										
6H										
8H										
12H										
12H 4H										
6H										
8H										
Variations with the observer position at spacings:										
S = 1.0H						+ 0.7 / - 0.6				
1.5H						+ 0.5 / - 0.6				
2.0H						+ 1.3 / - 0.7				
						+ 0.9 / - 0.8				
						+ 1.0 / - 0.5				
						+ 0.8 / - 0.5				

CIE Pub.117, 896.8 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -0.4$)

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:239.81V I:0.0494A P:10.426W PF:0.8800 Freq:50.09Hz Lamp Flux:896.767x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_32	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

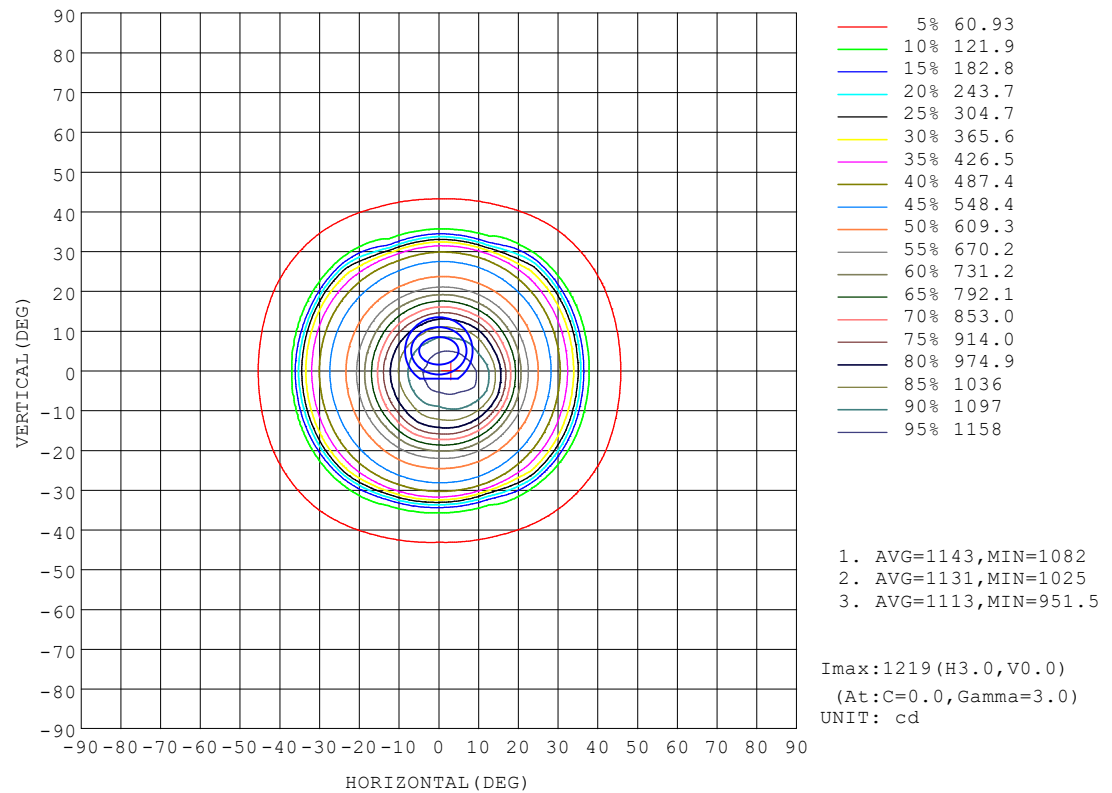
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	77	73	84	77	73	83	77	73	69
0.80	92	85	81	91	85	81	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	105	101	98	103	99	96	91
2.50	109	105	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	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: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:239.81V I:0.0494A P:10.426W PF:0.8800 Freq:50.09Hz Lamp Flux:896.767x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_32	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

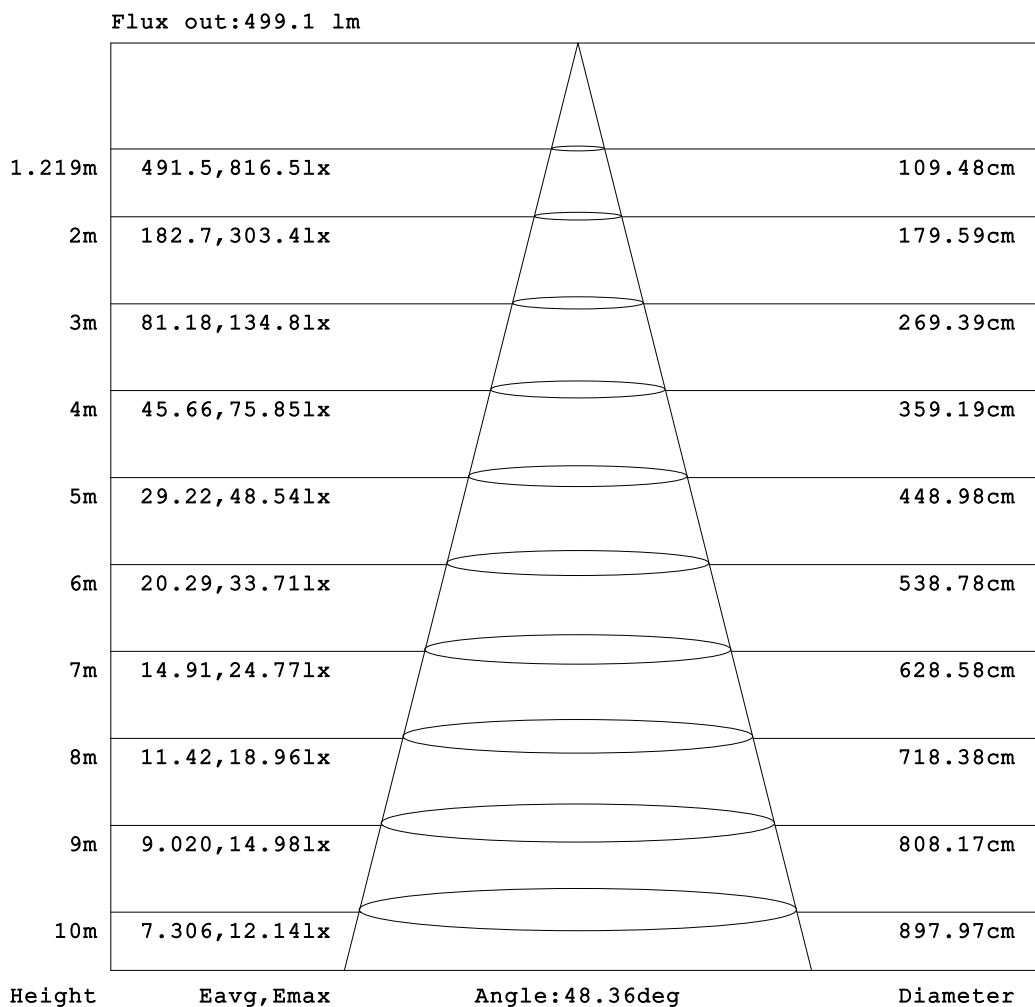


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:22 October 2020

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:239.81V I:0.0494A P:10.426W PF:0.8800 Freq:50.09Hz Lamp Flux:896.767x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_32	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



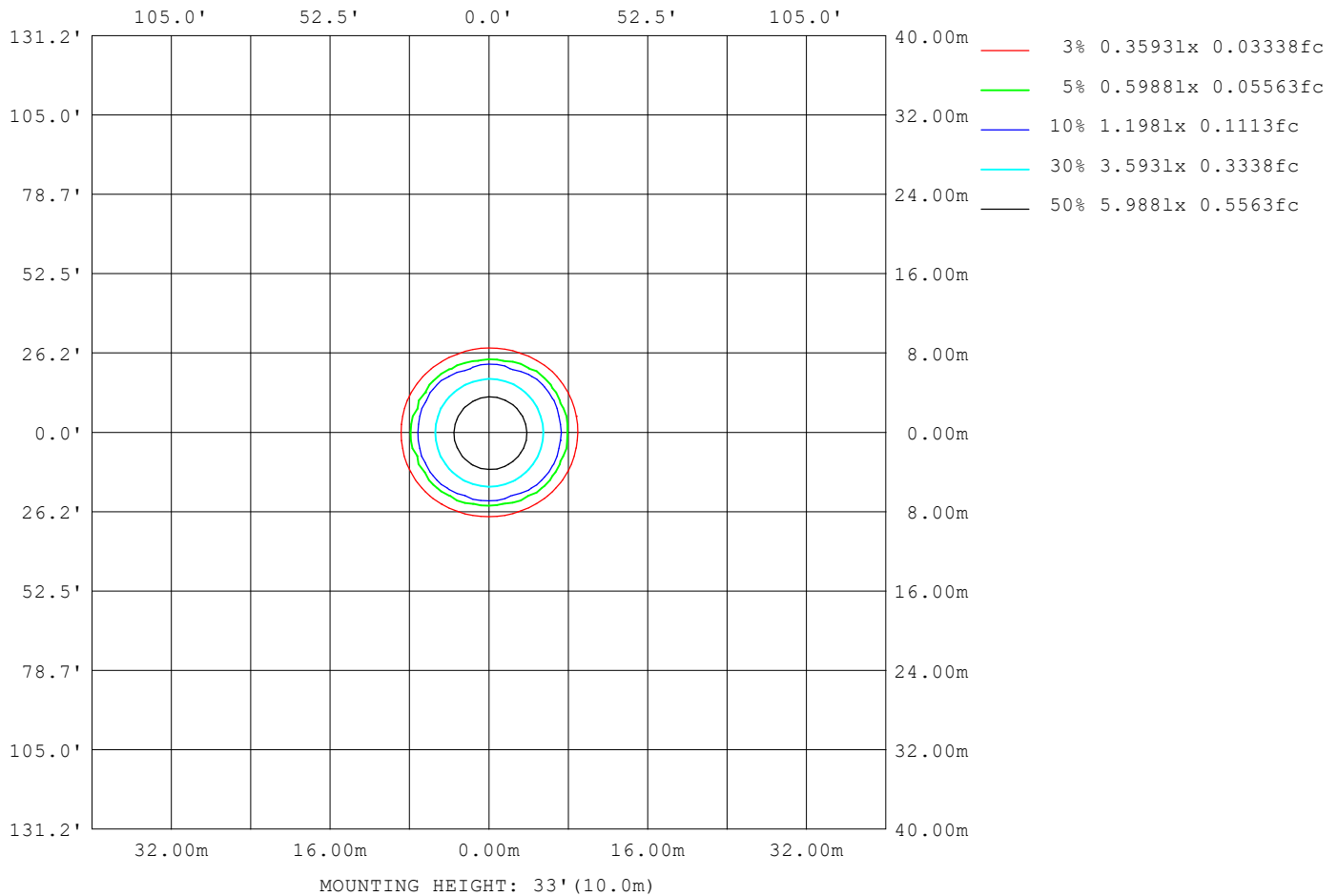
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:239.81V I:0.0494A P:10.426W PF:0.8800 Freq:50.09Hz Lamp Flux:896.767x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_32	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:239.81V I:0.0494A P:10.426W PF:0.8800 Freq:50.09Hz Lamp Flux:896.767x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_4K_32	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

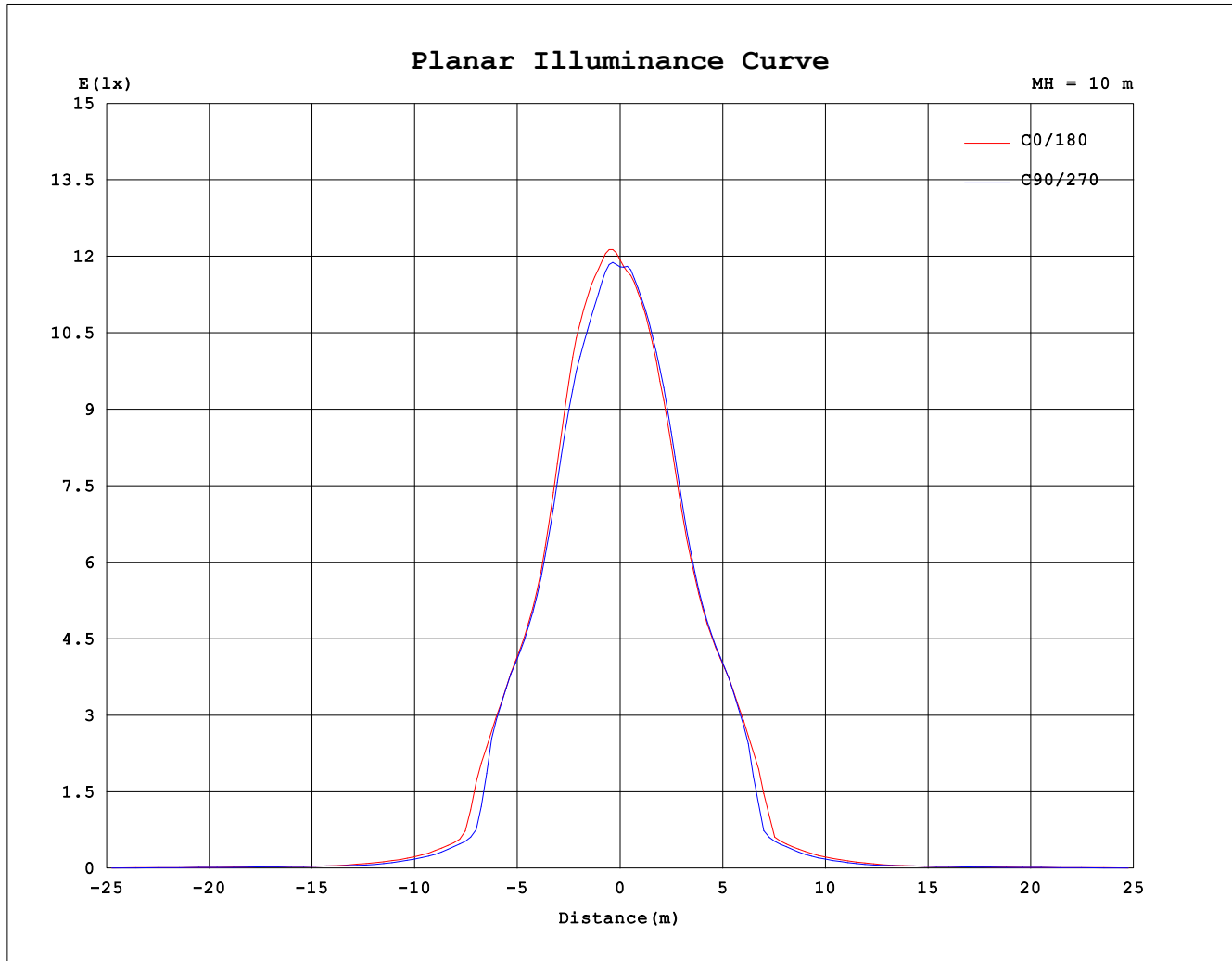
AvgL	cd/m2
L_0~180 (65) av	6577
L_0~180 (75) av	6941
L_0~180 (85) av	2622
L_90~270 (65) av	6155
L_90~270 (75) av	5505
L_90~270 (85) av	828
L_45 (65) av	6278
L_45 (75) av	6045
L_45 (85) av	1511

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
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Temperature:25.3DEG
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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:

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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:

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