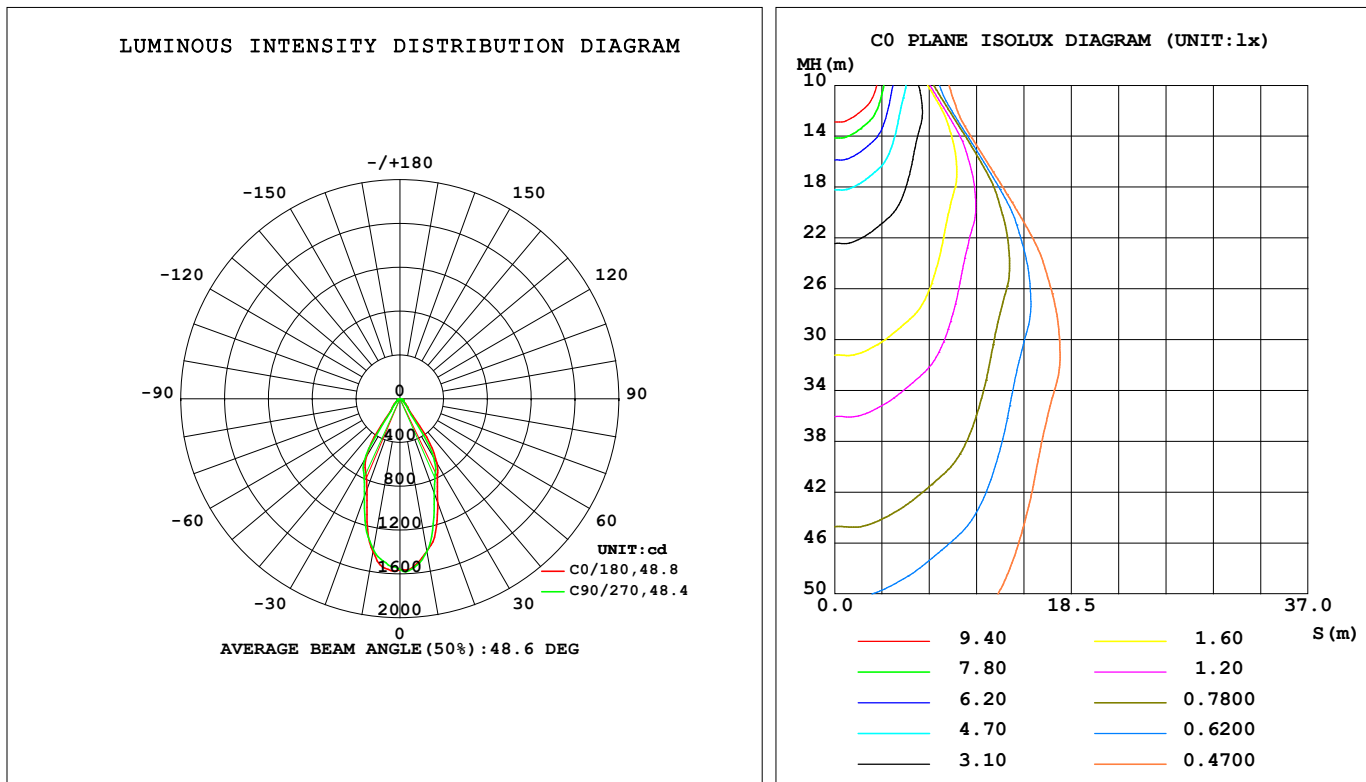


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:239.86V I:0.0643A P:14.247W PF:0.9238 Freq:50.08Hz Lamp Flux:1166.08x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_32	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 81.85 lm/W
MODEL	SLE G7 09MM 3000K	I _{max} (cd)	1583	S/MH (C0/180)	0.69	
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	0.74	
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	1166.1	η UP,DN (C0-180)	0.0,50.2	
NOMINAL FLUX (lm)	1166.08	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,49.8	
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: 23 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	1414	1421	1416	1405	1418	1397	1398	1405	0- 10	142.2	142.2	12.2,12.2
20	1010	970.9	921.0	891.4	885.1	904.1	949.6	981.8	10- 20	329.8	472.1	40.5,40.5
30	672.5	646.3	613.6	607.3	615.0	635.3	652.3	676.2	20- 30	357.2	829.3	71.1,71.1
40	127.0	120.5	108.3	117.3	117.1	111.1	106.3	124.5	30- 40	198.9	1028	88.2,88.2
50	56.27	50.32	39.96	50.86	52.73	47.21	37.64	52.17	40- 50	60.09	1088	93.3,93.3
60	30.47	30.52	30.86	30.85	31.46	30.16	29.72	29.34	50- 60	31.27	1120	96,96
70	23.97	22.68	21.64	22.56	23.97	21.47	20.30	21.72	60- 70	26.65	1146	98.3,98.3
80	9.524	9.569	7.736	9.403	9.590	8.126	6.771	9.166	70- 80	16.86	1163	99.7,99.7
90	0.1128	0.0815	0.0784	0.0909	0.0972	0.0846	0.0784	0.0815	80- 90	2.991	1166	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): 1063.5 lm

%lum = 91.2%

%lamp = 91.2%

Conical surface Flux(120deg): 1119.6 lm

%lum = 96.0%

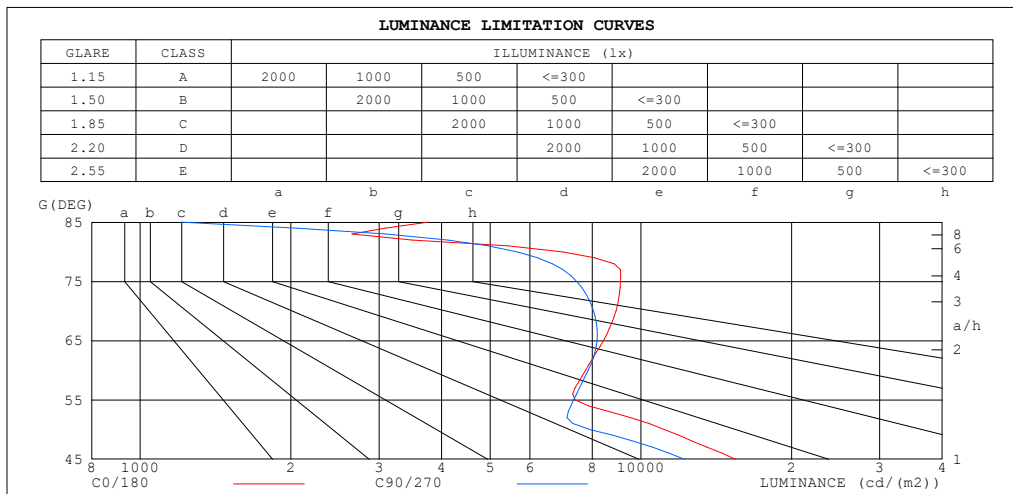
%lamp = 96.0%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:23 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:239.86V I:0.0643A P:14.247W PF:0.9238 Freq:50.08Hz Lamp Flux:1166.08x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_32	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3760	1208
80	6978	5668
75	9109	7445
70	8918	8052
65	8422	8177
60	7752	7852
55	7385	7349
50	11138	7909
45	15448	12229

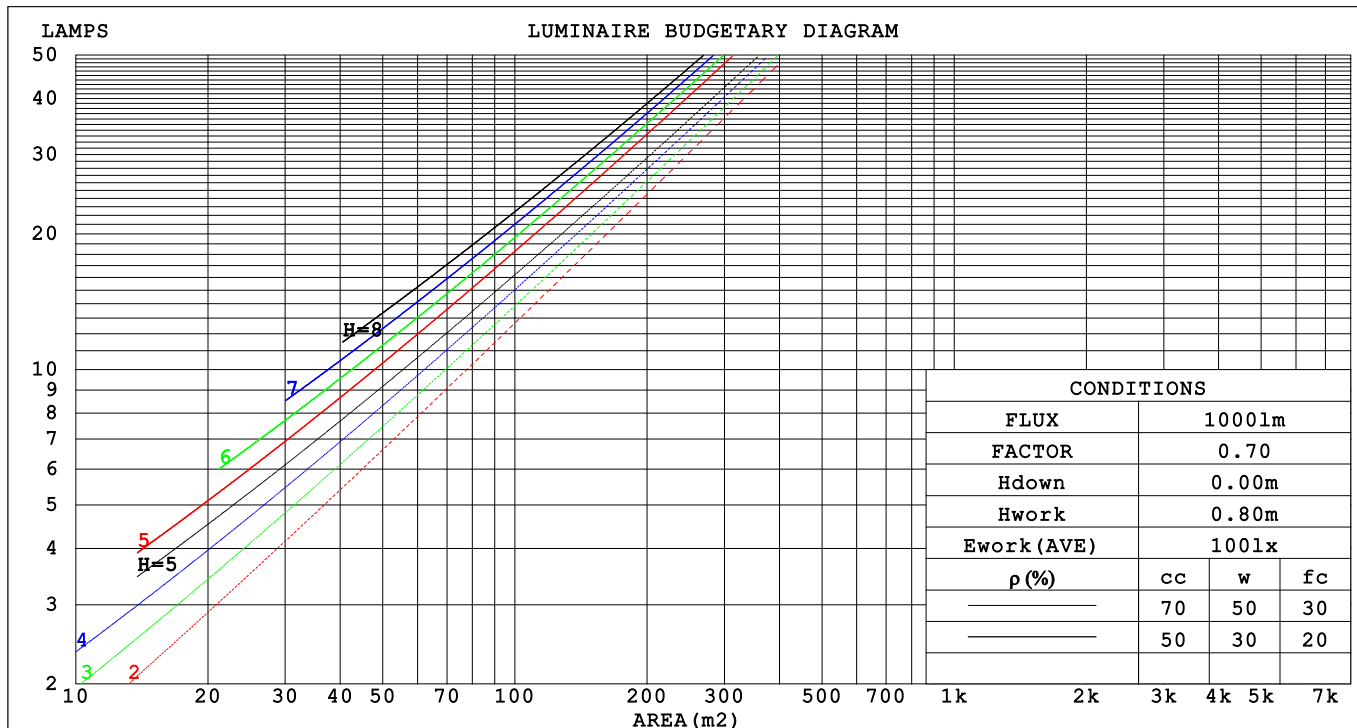
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:23 October 2020

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:239.86V I:0.0643A P:14.247W PF:0.9238 Freq:50.08Hz Lamp Flux:1166.08x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_32	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	1.00
1.0	1.10	1.07	1.05	1.08	1.06	1.03	1.04	1.02	1.00	1.00	.99	.97	.97	.95	.94	.93
2.0	1.02	.98	.94	1.00	.96	.93	.97	.94	.91	.94	.91	.89	.91	.89	.87	.85
3.0	.95	.90	.85	.93	.89	.85	.91	.87	.83	.88	.85	.82	.86	.83	.81	.79
4.0	.88	.83	.78	.87	.82	.78	.85	.81	.77	.83	.79	.76	.81	.78	.75	.74
5.0	.83	.77	.72	.82	.76	.72	.80	.75	.71	.78	.74	.71	.77	.73	.70	.69
6.0	.78	.72	.67	.77	.71	.67	.76	.70	.67	.74	.70	.66	.73	.69	.66	.64
7.0	.73	.67	.63	.73	.67	.63	.71	.66	.62	.70	.66	.62	.69	.65	.62	.60
8.0	.69	.63	.59	.69	.63	.59	.68	.62	.59	.67	.62	.58	.66	.61	.58	.57
9.0	.66	.60	.56	.65	.59	.55	.64	.59	.55	.63	.58	.55	.62	.58	.55	.54
10.0	.62	.56	.52	.62	.56	.52	.61	.56	.52	.60	.55	.52	.59	.55	.52	.51



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:23 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:239.86V I:0.0643A P:14.247W PF:0.9238 Freq:50.08Hz Lamp Flux:1166.08x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_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	.184	.105	.033	.172	.099	.031	.160	.092	.030	.149	.087	.028	
2.0	.182	.099	.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	.081	.025	.141	.078	.024	
4.0	.162	.084	.025	.157	.082	.024	.149	.079	.024	.142	.076	.023	.135	.073	.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	.069	.020	.130	.067	.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	.096	.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:23 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:239.86V I:0.0643A P:14.247W PF:0.9238 Freq:50.08Hz Lamp Flux:1166.08x1 lm											
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_32						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	18.0	19.0	18.3	19.2	19.4	16.9	17.9	17.1	18.0	18.2
	3H	18.7	19.6	18.9	19.8	20.0	17.7	18.6	17.9	18.8	19.0
	4H	19.1	19.9	19.3	20.1	20.4	18.0	18.9	18.3	19.1	19.3
	6H	19.4	20.2	19.7	20.4	20.7	18.3	19.1	18.6	19.3	19.6
	8H	19.4	20.1	19.7	20.4	20.7	18.3	19.1	18.6	19.3	19.6
	12H	19.3	20.1	19.7	20.4	20.6	18.3	19.0	18.6	19.3	19.5
4H	2H	18.1	19.0	18.4	19.2	19.4	17.1	17.9	17.3	18.1	18.4
	3H	19.0	19.7	19.3	20.0	20.3	18.1	18.9	18.4	19.1	19.4
	4H	19.5	20.2	19.9	20.5	20.8	18.6	19.3	19.0	19.6	19.9
	6H	20.0	20.6	20.4	20.9	21.3	19.0	19.6	19.4	19.9	20.3
	8H	20.0	20.6	20.4	20.9	21.3	19.0	19.6	19.4	19.9	20.3
	12H	20.0	20.5	20.4	20.9	21.3	19.0	19.5	19.4	19.9	20.3
8H	4H	19.7	20.2	20.1	20.6	20.9	18.8	19.4	19.2	19.7	20.1
	6H	20.2	20.7	20.7	21.1	21.5	19.3	19.7	19.7	20.1	20.6
	8H	20.4	20.8	20.8	21.2	21.6	19.4	19.8	19.8	20.2	20.6
	12H	20.4	20.8	20.9	21.2	21.7	19.3	19.7	19.8	20.1	20.6
12H	4H	19.6	20.1	20.1	20.5	20.9	18.8	19.4	19.3	19.7	20.1
	6H	20.2	20.7	20.7	21.1	21.5	19.3	19.7	19.8	20.1	20.6
	8H	20.4	20.7	20.9	21.2	21.6	19.4	19.7	19.9	20.2	20.7
Variations with the observer position at spacings:											
S = 1.0H	+ 0.8 / - 0.7					+ 0.5 / - 0.6					
1.5H	+ 1.5 / - 0.7					+ 0.9 / - 0.8					
2.0H	+ 1.1 / - 0.5					+ 0.8 / - 0.5					

CIE Pub.117, 1166 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:23 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:239.86V I:0.0643A P:14.247W PF:0.9238 Freq:50.08Hz Lamp Flux:1166.08x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_32	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

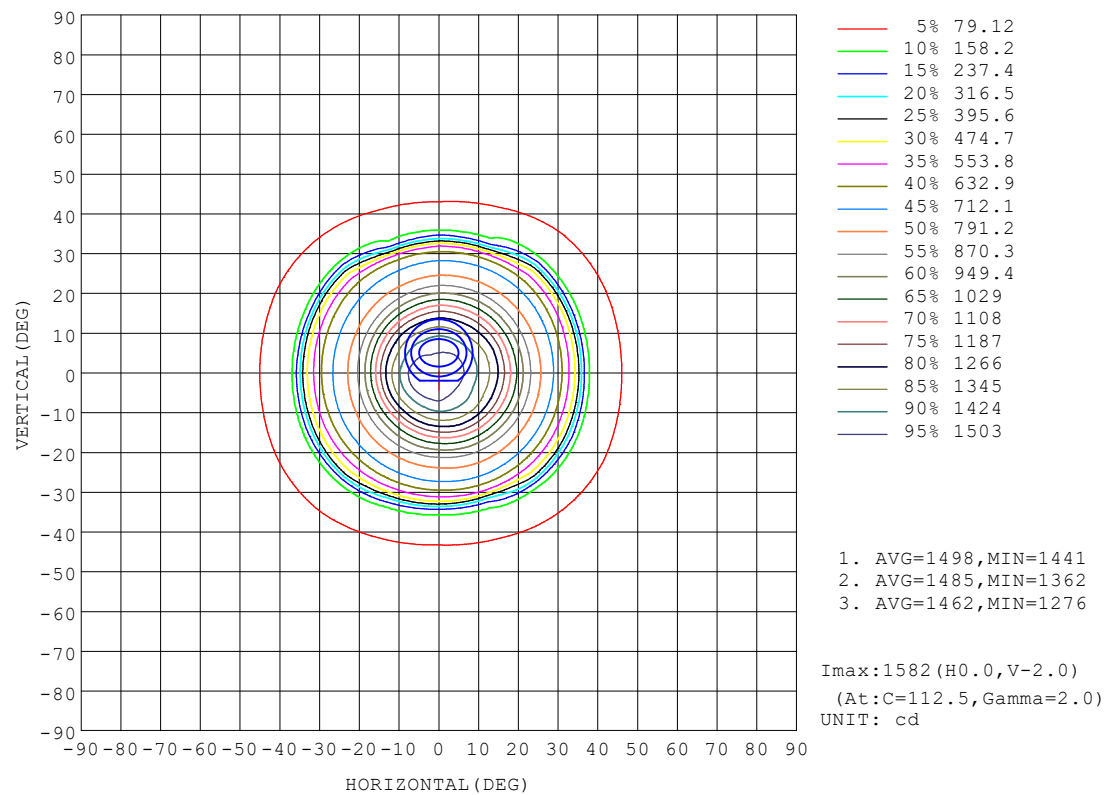
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	77	73	84	77	73	83	77	73	69
0.80	92	85	81	91	85	81	90	85	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	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:23 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:239.86V I:0.0643A P:14.247W PF:0.9238 Freq:50.08Hz Lamp Flux:1166.08x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_32	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

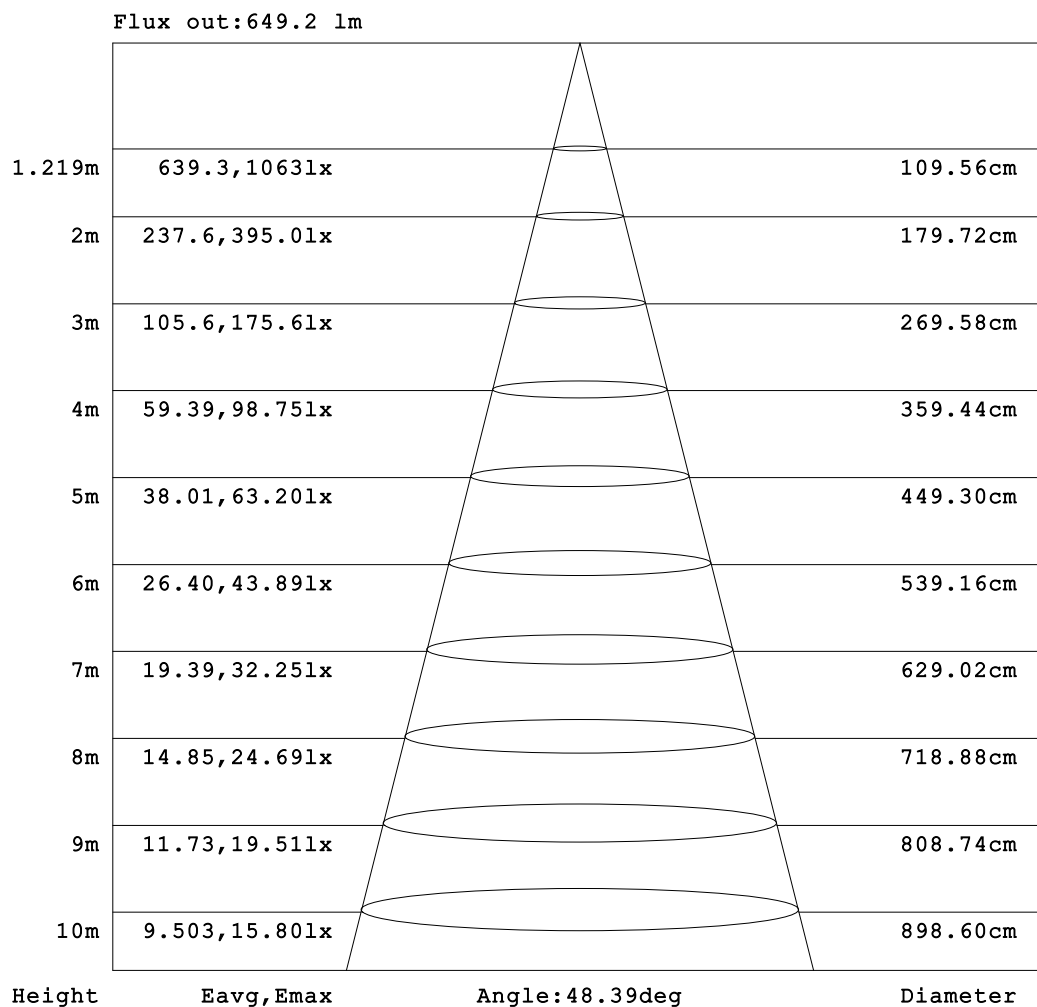


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JEFF
Test Date: 23 October 2020

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:239.86V I:0.0643A P:14.247W PF:0.9238 Freq:50.08Hz Lamp Flux:1166.08x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_32	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



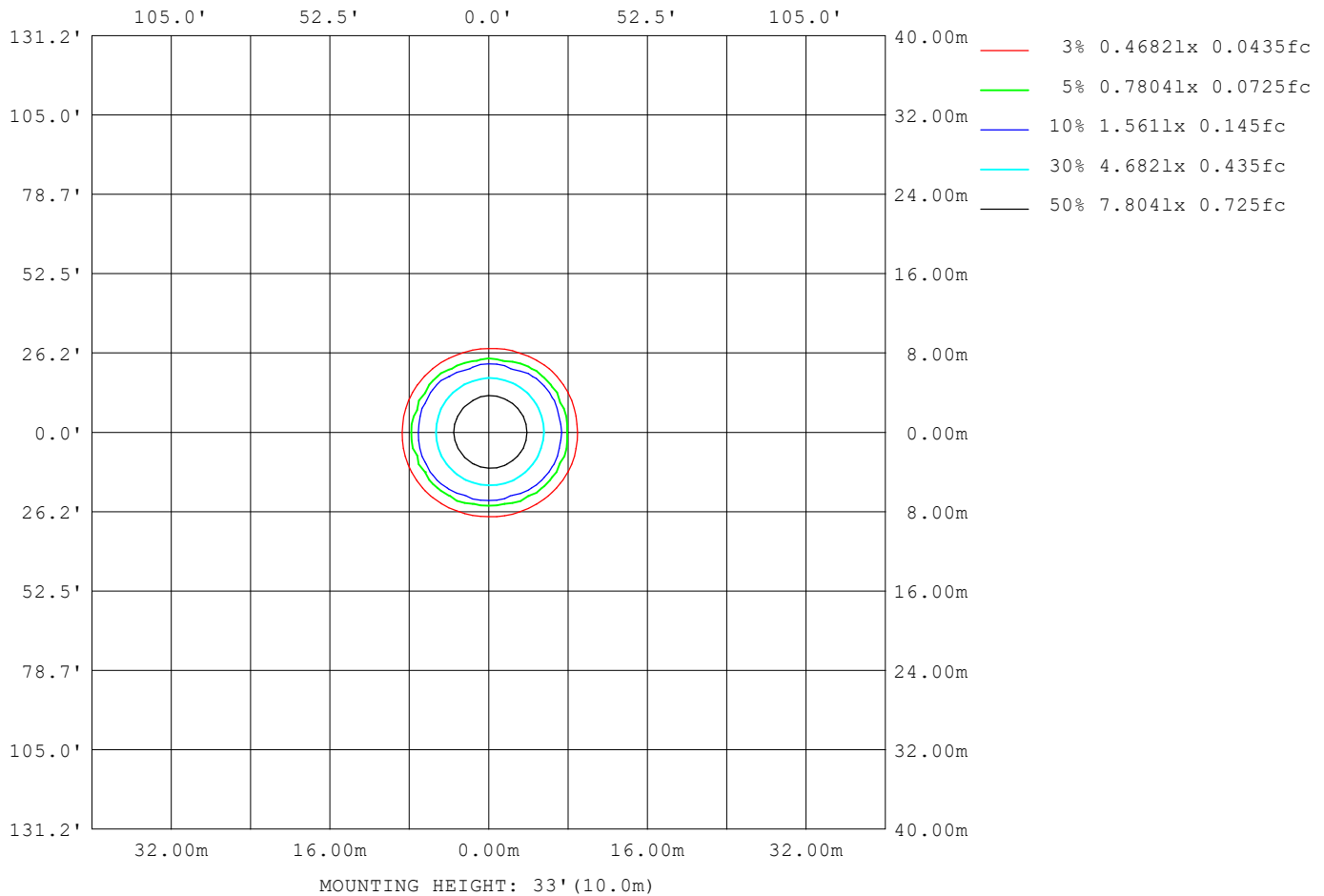
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:23 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:239.86V I:0.0643A P:14.247W PF:0.9238 Freq:50.08Hz Lamp Flux:1166.08x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_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:23 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:239.86V I:0.0643A P:14.247W PF:0.9238 Freq:50.08Hz Lamp Flux:1166.08x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_350mA_3K_32	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

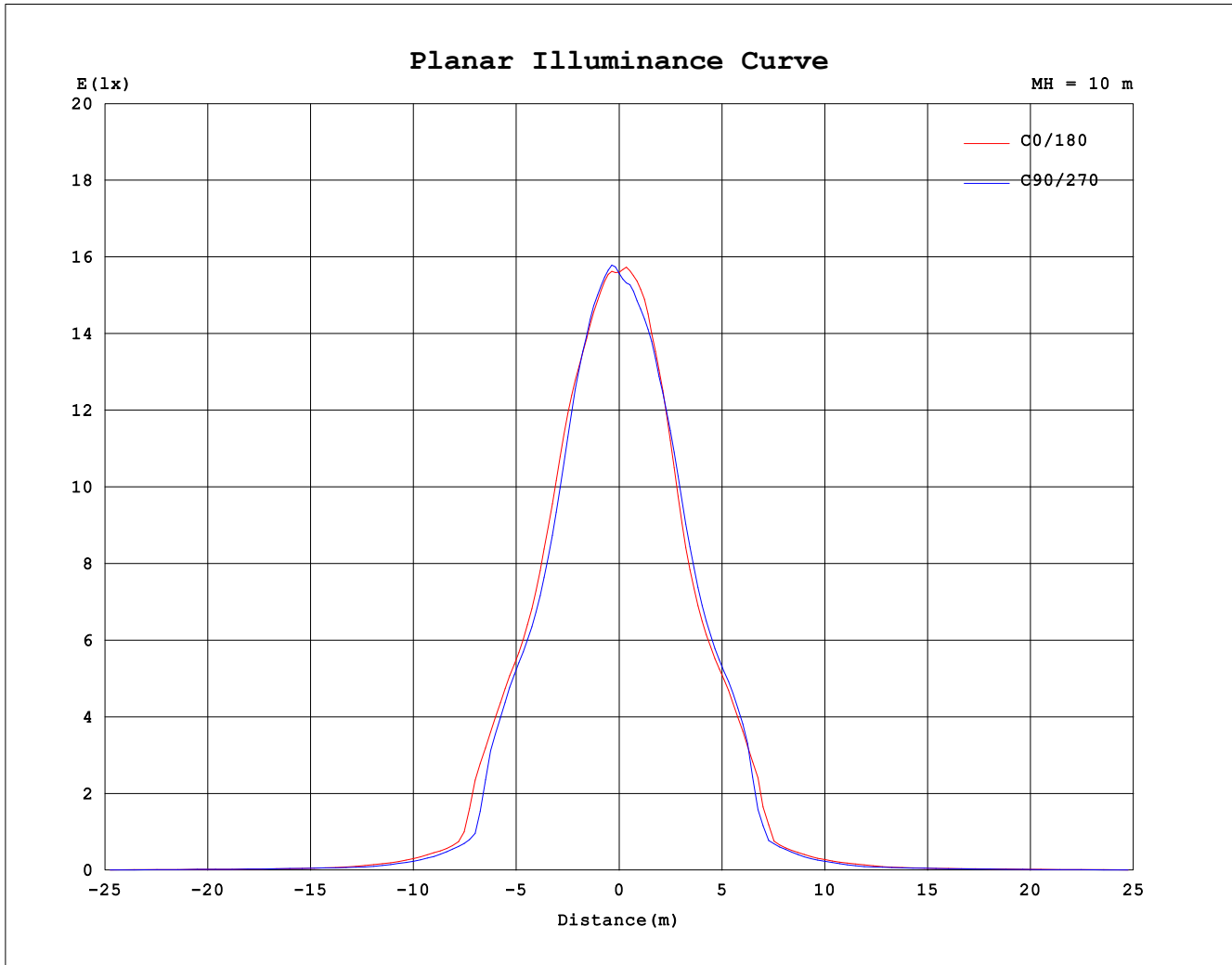
AvgL	cd/m2
L_0~180 (65) av	8521
L_0~180 (75) av	8972
L_0~180 (85) av	3419
L_90~270 (65) av	7989
L_90~270 (75) av	7123
L_90~270 (85) av	1101
L_45 (65) av	8150
L_45 (75) av	7834
L_45 (85) av	1985

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:23 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: 23 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:

```