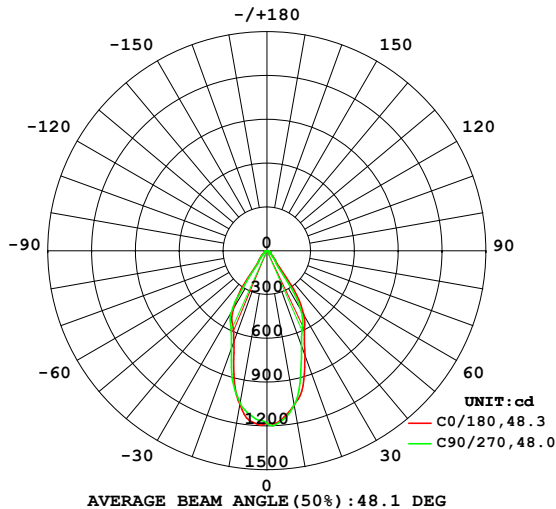


LUMINAIRE PHOTOMETRIC TEST REPORT

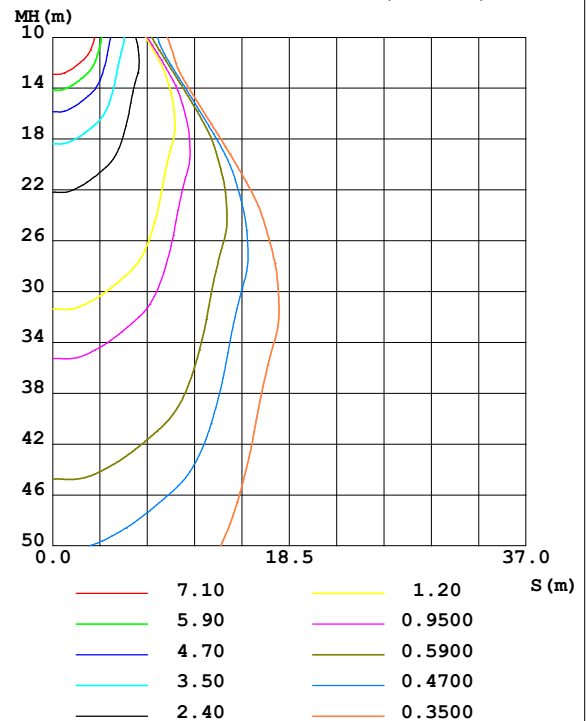
Test:U:239.96V I:0.0495A P:10.449W PF:0.8802 Freq:50.08Hz Lamp Flux:878.722x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_32	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
TRIDONIC SLE G7 09mm 1200lm 830 R ADV		Eff: 84.10 lm/W			
NOMINAL POWER(W)		I _{max} (cd)	1200	S/MH(C0/180)	0.69
RATED VOLTAGE(V)	220.0	LOR(%)	100.0	S/MH(C90/270)	0.73
NOMINAL FLUX(lm)	878.722	TOTAL FLUX(lm)	878.72	η UP,DN(C0-180)	0.0,50.2
LAMPS INSIDE	1	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.8
TEST VOLTAGE(V)	230	η up(%)	0.0	CIBSE SHR NOM	0.75
		η down(%)	100.0	CIBSE SHR MAX	0.85

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:29 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	1073	1077	1073	1062	1072	1056	1060	1066	0- 10	107.7	107.7	12.3,12.3
20	762.2	732.3	694.2	670.5	664.7	680.5	715.5	740.6	10- 20	249.2	356.9	40.6,40.6
30	505.3	485.5	461.6	456.3	462.5	479.1	491.2	509.6	20- 30	268.8	625.8	71.2,71.2
40	97.11	91.30	82.12	88.07	87.86	84.46	80.13	92.23	30- 40	149.2	774.9	88.2,88.2
50	42.19	38.41	30.21	38.02	39.82	36.15	28.37	38.83	40- 50	45.22	820.2	93.3,93.3
60	22.93	23.00	23.29	23.27	23.74	22.74	22.38	22.09	50- 60	23.57	843.7	96,96
70	18.01	17.13	16.32	16.97	18.09	16.22	15.26	16.27	60- 70	20.08	863.8	98.3,98.3
80	6.990	7.268	5.796	6.998	7.124	6.187	5.058	6.760	70- 80	12.68	876.5	99.7,99.7
90	0.0533	0.0345	0.0313	0.0470	0.0470	0.0376	0.0345	0.0313	80- 90	2.221	878.7	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): 801.48 lm

%lum = 91.2%

%lamp = 91.2%

Conical surface Flux(120deg): 843.74 lm

%lum = 96.0%

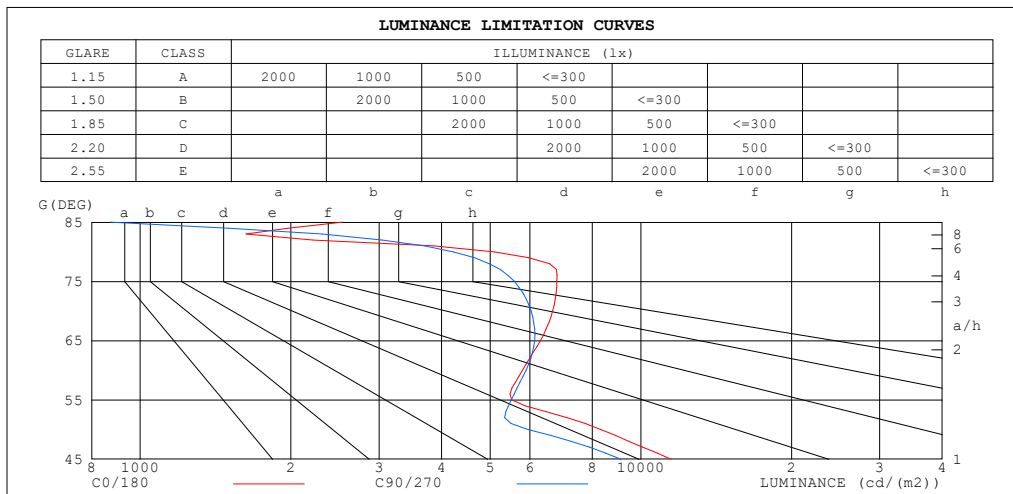
%lamp = 96.0%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:29 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:239.96V I:0.0495A P:10.449W PF:0.8802 Freq:50.08Hz Lamp Flux:878.722x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_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	2535	873
80	5096	4225
75	6795	5592
70	6665	6039
65	6305	6136
60	5804	5895
55	5523	5515
50	8309	5949
45	11498	9128

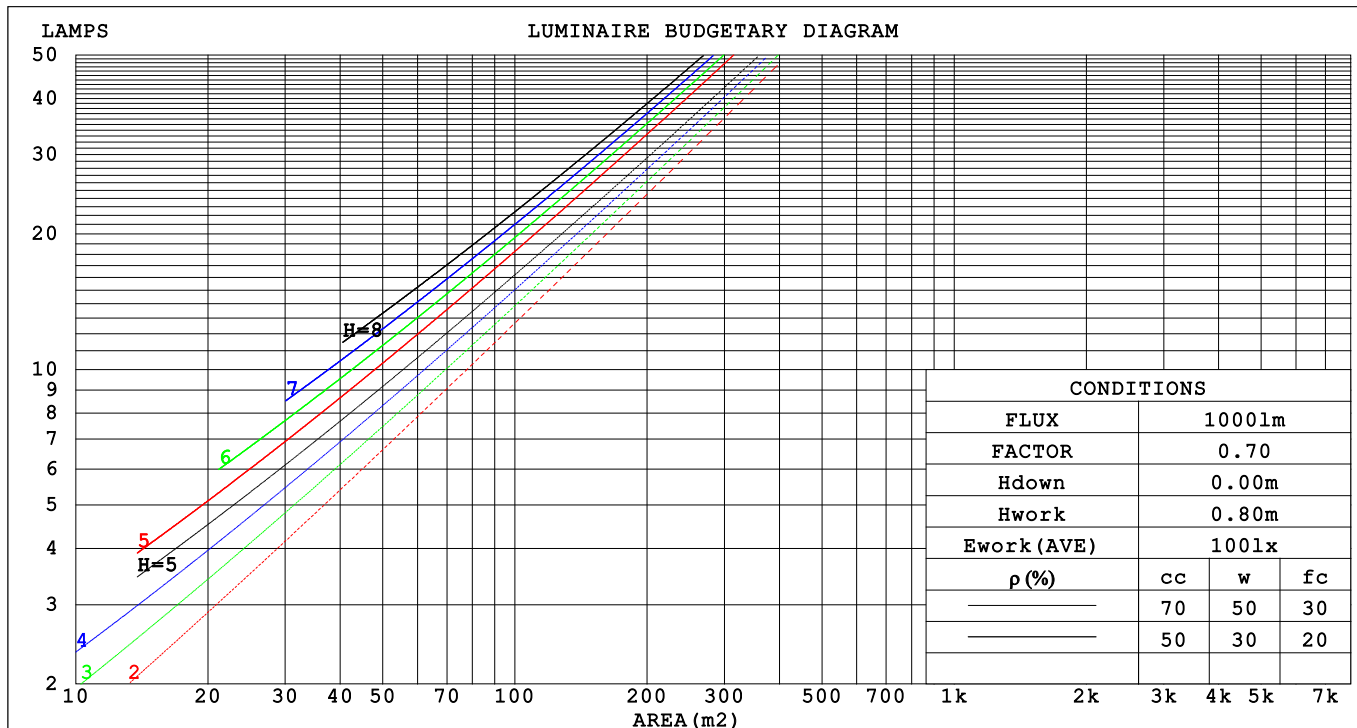
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:29 October 2020

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:239.96V I:0.0495A P:10.449W PF:0.8802 Freq:50.08Hz Lamp Flux:878.722x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_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	.56	.64	.59	.55	.63	.59	.55	.62	.58	.55	.54
10.0	.62	.56	.53	.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:29 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:239.96V I:0.0495A P:10.449W PF:0.8802 Freq:50.08Hz Lamp Flux:878.722x1 lm											
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_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	.098	.031	.160	.092	.030	.149	.086	.028	
2.0	.181	.099	.030	.176	.097	.030	.165	.092	.028	.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	.161	.084	.025	.157	.082	.024	.149	.079	.024	.142	.076	.023	.135	.073	.022	
5.0	.153	.078	.023	.149	.076	.022	.142	.074	.022	.136	.072	.021	.130	.069	.021	
6.0	.145	.073	.021	.141	.071	.021	.135	.069	.020	.130	.067	.020	.124	.066	.019	
7.0	.137	.068	.019	.135	.067	.019	.129	.065	.019	.124	.064	.019	.120	.062	.018	
8.0	.131	.064	.018	.128	.063	.018	.124	.062	.018	.119	.060	.017	.115	.059	.017	
9.0	.125	.060	.017	.123	.060	.017	.118	.059	.017	.114	.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	.126	.087	.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:29 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:239.96V I:0.0495A P:10.449W PF:0.8802 Freq:50.08Hz Lamp Flux:878.722x1 lm											
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_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		17.9	18.9	18.1	19.0	19.2	16.9	17.9	17.2	18.1	18.3
3H		18.5	19.4	18.8	19.6	19.8	17.7	18.6	18.0	18.8	19.0
4H		18.9	19.8	19.2	20.0	20.2	18.1	18.9	18.3	19.1	19.4
6H		19.3	20.1	19.6	20.3	20.6	18.3	19.1	18.6	19.3	19.6
8H		19.3	20.0	19.6	20.3	20.5	18.3	19.1	18.6	19.3	19.6
12H		19.2	20.0	19.6	20.2	20.5	18.3	19.0	18.6	19.3	19.6
4H 2H		18.0	18.8	18.2	19.0	19.3	17.1	18.0	17.4	18.2	18.4
3H		18.9	19.6	19.2	19.9	20.2	18.1	18.9	18.5	19.1	19.4
4H		19.4	20.1	19.8	20.4	20.7	18.6	19.3	19.0	19.6	19.9
6H		19.9	20.5	20.3	20.8	21.2	19.0	19.6	19.4	19.9	20.3
8H		19.9	20.5	20.3	20.8	21.2	19.0	19.6	19.4	19.9	20.3
12H		19.9	20.4	20.3	20.8	21.2	19.0	19.5	19.4	19.9	20.3
8H 4H		19.6	20.1	20.0	20.5	20.8	18.9	19.4	19.3	19.8	20.1
6H		20.2	20.6	20.6	21.0	21.4	19.3	19.8	19.7	20.2	20.6
8H		20.3	20.7	20.7	21.1	21.5	19.4	19.8	19.8	20.2	20.6
12H		20.3	20.7	20.8	21.1	21.6	19.3	19.7	19.8	20.1	20.6
12H 4H		19.6	20.1	20.0	20.4	20.8	18.9	19.4	19.3	19.7	20.1
6H		20.2	20.6	20.6	21.0	21.4	19.3	19.7	19.8	20.2	20.6
8H		20.3	20.6	20.8	21.1	21.6	19.4	19.8	19.9	20.2	20.7
Variations with the observer position at spacings:											
S = 1.0H		+ 0.7 / - 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, 878.7 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:29 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:239.96V I:0.0495A P:10.449W PF:0.8802 Freq:50.08Hz Lamp Flux:878.722x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_32	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

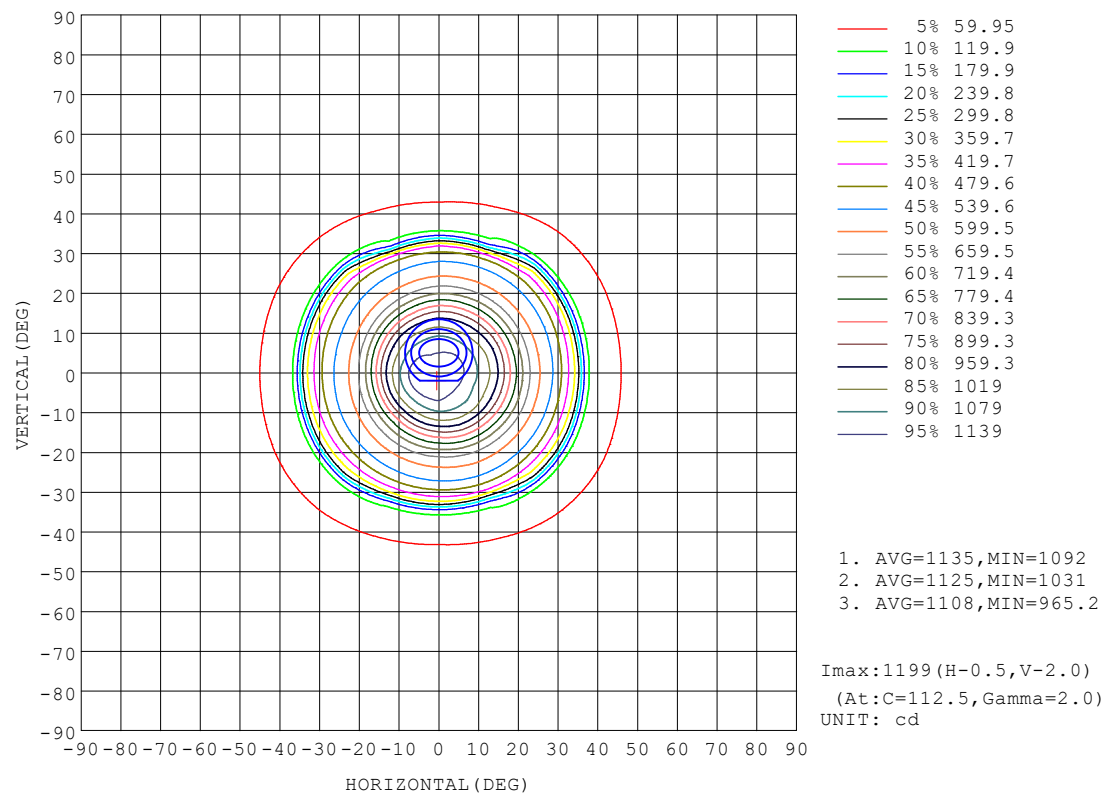
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	77	73	84	77	73	83	77	73	69
0.80	92	85	81	91	85	81	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:29 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:239.96V I:0.0495A P:10.449W PF:0.8802 Freq:50.08Hz Lamp Flux:878.722x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_32	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

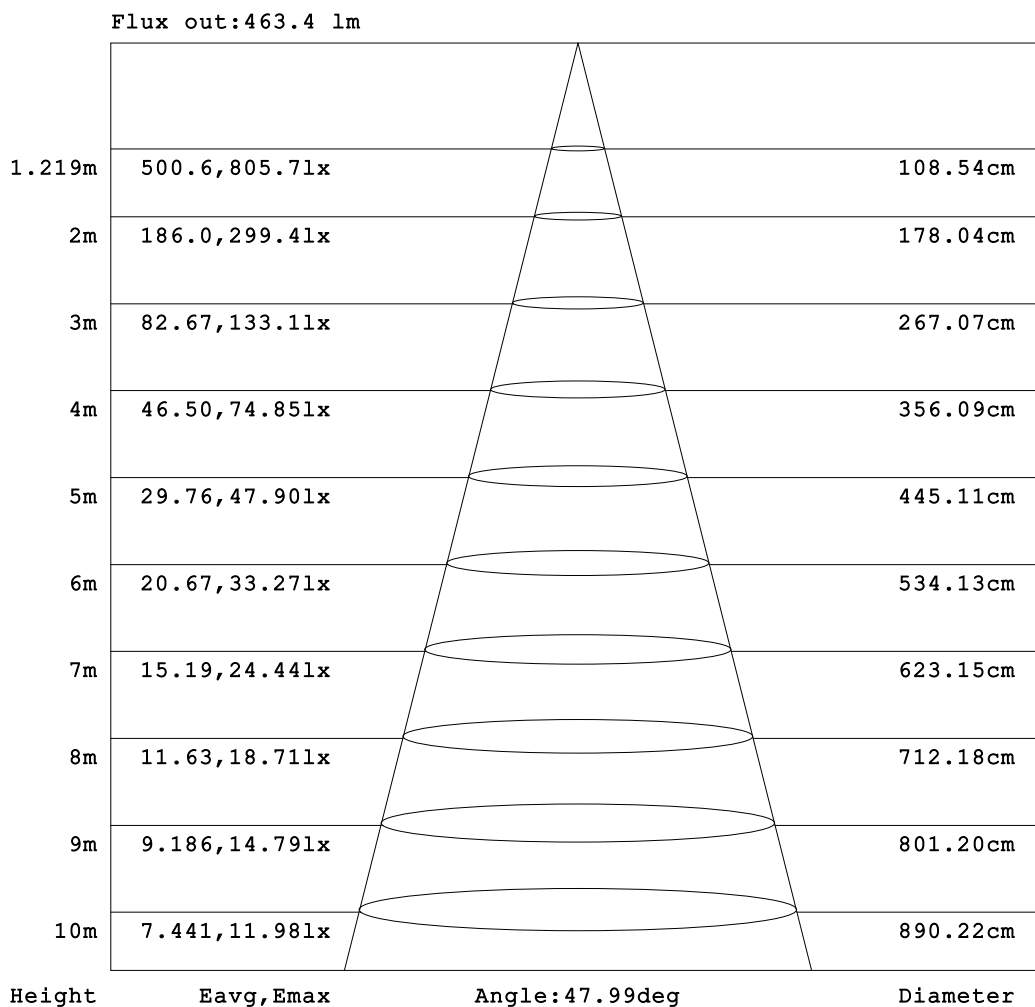


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:29 October 2020

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:239.96V I:0.0495A P:10.449W PF:0.8802 Freq:50.08Hz Lamp Flux:878.722x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_32	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



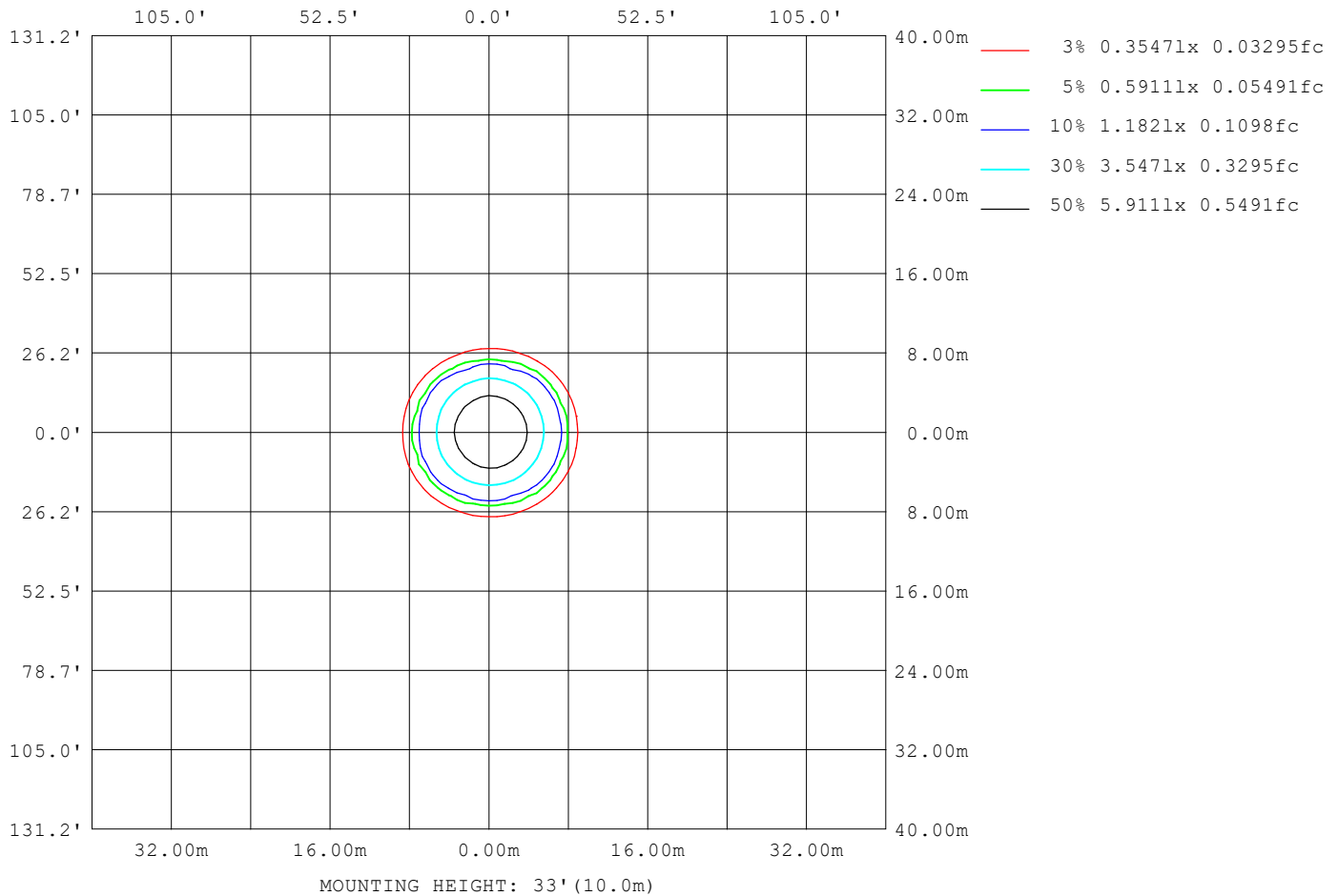
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:29 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:239.96V I:0.0495A P:10.449W PF:0.8802 Freq:50.08Hz Lamp Flux:878.722x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_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:29 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:239.96V I:0.0495A P:10.449W PF:0.8802 Freq:50.08Hz Lamp Flux:878.722x1 lm		
NAME: DEEPER DOWN LED_WHT_SLE G7 09mm_250mA_3K_32	DEG TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

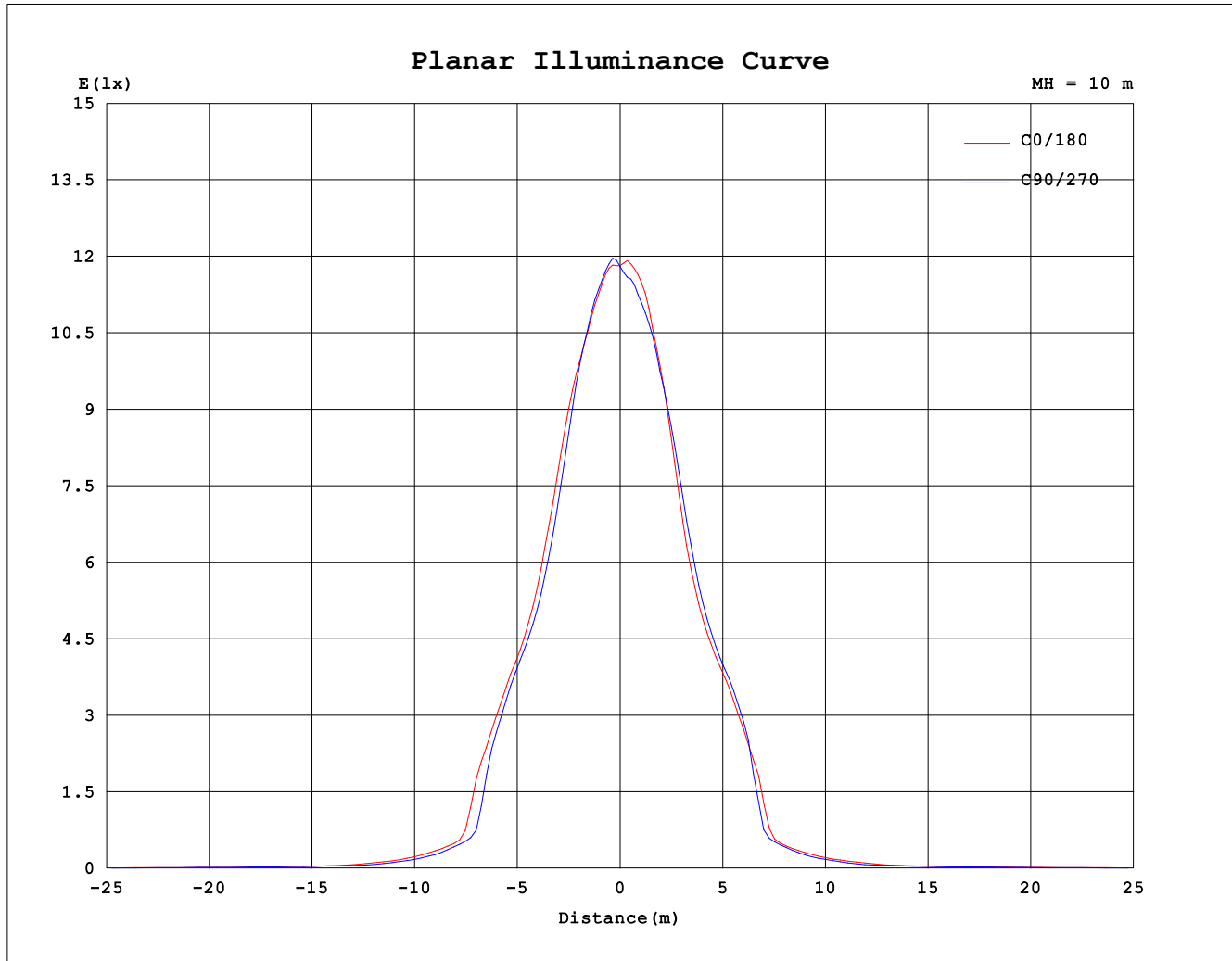
AvgL	cd/m2
L_0~180 (65) av	6388
L_0~180 (75) av	6716
L_0~180 (85) av	2323
L_90~270 (65) av	5988
L_90~270 (75) av	5332
L_90~270 (85) av	789
L_45 (65) av	6110
L_45 (75) av	5863
L_45 (85) av	1430

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:29 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: 29 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:

```