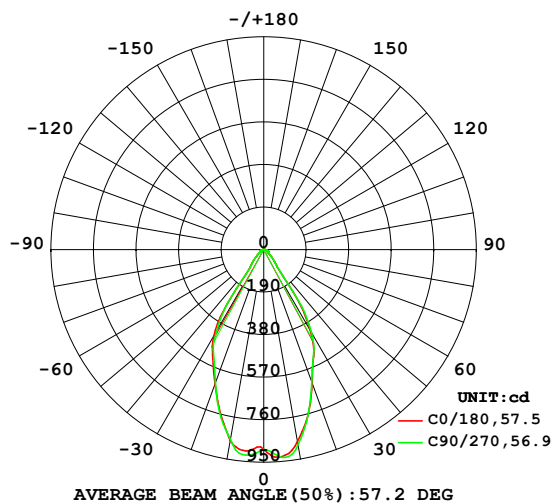


LUMINAIRE PHOTOMETRIC TEST REPORT

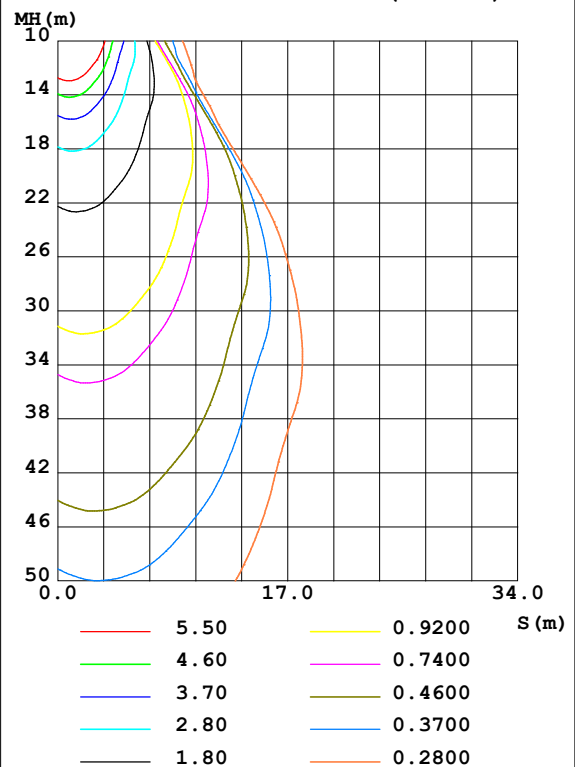
Test:U:239.8V I:0.0487A P:10.33W PF:0.8853 Lamp Flux:779.615x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_3000K CRI90_32 DEGR:LED		WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 75.47 lm/W			
MODEL	SLE G7 09mm 1200lm	Imax(cd)	933.7	S/MH(C0/180)	0.86
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.84
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	779.62	η UP,DN(C0-180)	0.0,50.2
NOMINAL FLUX(lm)	779.615	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	0.90

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:16 January 2024

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.890m [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	870.8	866.8	884.6	878.6	864.6	852.0	861.0	861.8	0- 10	86.43	86.43	11.1,11.1
20	633.8	612.8	629.5	640.2	638.3	614.0	632.8	639.5	10- 20	209.9	296.3	38,38
30	415.6	419.2	427.1	443.4	447.6	433.0	424.7	421.7	20- 30	243.2	539.5	69.2,69.2
40	85.51	86.11	85.43	87.42	85.60	82.33	84.32	86.85	30- 40	140.3	679.7	87.2,87.2
50	35.97	35.91	35.41	34.70	34.46	34.66	35.00	35.54	40- 50	44.47	724.2	92.9,92.9
60	20.81	20.38	19.82	19.43	19.41	19.72	20.29	20.80	50- 60	21.21	745.4	95.6,95.6
70	16.19	15.81	15.21	14.74	14.67	14.93	15.54	16.12	60- 70	17.94	763.4	97.9,97.9
80	8.661	8.355	7.817	7.312	7.164	7.389	7.944	8.487	70- 80	12.35	775.7	99.5,99.5
90	0.0220	0.0147	0.0183	0.0183	0.0183	0.0183	0.0183	0.0183	80- 90	3.901	779.6	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): 706.05 lm

%lum = 90.6%

%lamp = 90.6%

Conical surface Flux(120deg): 745.42 lm

%lum = 95.6%

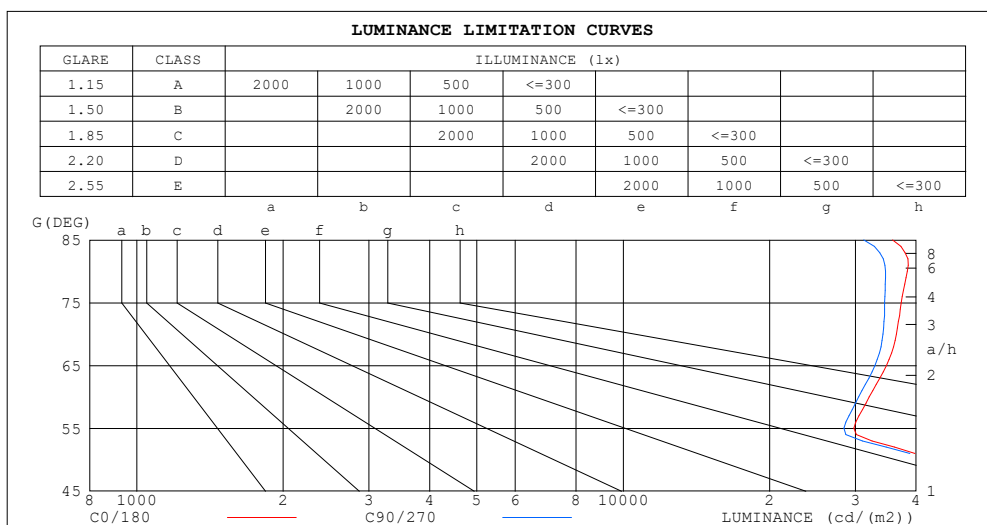
%lamp = 95.6%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:16 January 2024

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.890m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:239.8V I:0.0487A P:10.33W PF:0.8853 Lamp Flux:779.615x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_3000K CRI90_32 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	35811	31212
80	38394	34626
75	37288	34476
70	36445	34215
65	34759	32913
60	32040	30487
55	29805	28417
50	43082	42375
45	62523	62481

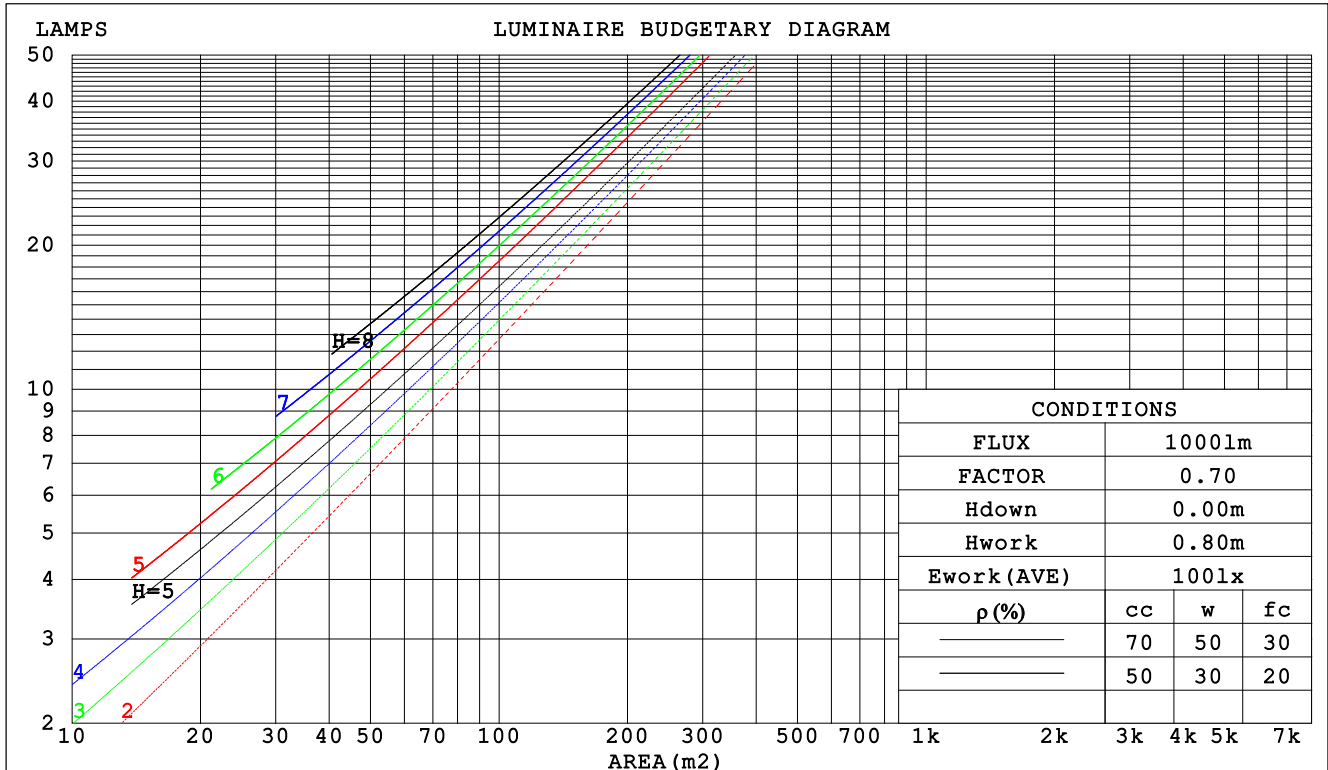
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:16 January 2024

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.890m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:239.8V I:0.0487A P:10.33W PF:0.8853 Lamp Flux:779.615x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_3000K CRI90_32 DEE:LED		WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
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	.90	.96	.92	.96	.93	.90	.93	.91	.88	.91	.88	.86	.85
3.0	.94	.89	.85	.93	.88	.84	.90	.86	.83	.88	.84	.81	.85	.82	.80	.78
4.0	.88	.82	.77	.87	.81	.77	.84	.80	.76	.82	.78	.75	.80	.77	.74	.73
5.0	.82	.76	.71	.81	.75	.71	.79	.74	.70	.78	.73	.70	.76	.72	.69	.68
6.0	.77	.71	.66	.76	.70	.66	.75	.69	.65	.73	.69	.65	.72	.68	.65	.63
7.0	.72	.66	.62	.72	.66	.62	.70	.65	.61	.69	.64	.61	.68	.64	.61	.59
8.0	.68	.62	.58	.68	.62	.58	.66	.61	.57	.65	.61	.57	.64	.60	.57	.55
9.0	.64	.58	.54	.64	.58	.54	.63	.58	.54	.62	.57	.54	.61	.57	.54	.52
10.0	.61	.55	.51	.60	.55	.51	.60	.54	.51	.59	.54	.51	.58	.54	.51	.49



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:16 January 2024

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.890m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:239.8V I:0.0487A P:10.33W PF:0.8853 Lamp Flux:779.615x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_3000K CRI90_32 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
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	.197	.112	.035	.190	.108	.034	.177	.102	.033	.166	.096	.031	.155	.090	.029		
2.0	.186	.102	.031	.180	.099	.031	.170	.094	.029	.160	.090	.028	.151	.085	.027		
3.0	.175	.093	.028	.170	.091	.027	.161	.087	.027	.153	.084	.026	.145	.080	.025		
4.0	.165	.086	.025	.161	.084	.025	.153	.081	.024	.146	.078	.024	.139	.075	.023		
5.0	.156	.080	.023	.152	.078	.023	.145	.076	.022	.139	.073	.022	.133	.071	.021		
6.0	.148	.074	.021	.145	.073	.021	.139	.071	.021	.133	.069	.020	.127	.067	.020		
7.0	.141	.069	.020	.138	.069	.020	.132	.067	.019	.127	.065	.019	.122	.064	.019		
8.0	.134	.065	.018	.131	.065	.018	.126	.063	.018	.122	.062	.018	.118	.060	.018		
9.0	.128	.062	.017	.125	.061	.017	.121	.060	.017	.117	.059	.017	.113	.057	.017		
10.0	.122	.059	.016	.120	.058	.016	.116	.057	.016	.112	.056	.016	.109	.055	.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	.125	.098	.076	.086	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.136	.099	.071	.117	.086	.062	.080	.060	.043	.046	.035	.026	.015	.011	.008	
5.0	.127	.088	.058	.109	.076	.051	.075	.053	.036	.044	.031	.021	.014	.010	.007	
6.0	.120	.078	.049	.103	.068	.042	.071	.048	.030	.041	.028	.018	.013	.009	.006	
7.0	.113	.071	.041	.098	.061	.036	.067	.043	.025	.039	.025	.015	.013	.008	.005	
8.0	.108	.065	.035	.093	.056	.031	.064	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.102	.060	.031	.088	.052	.027	.061	.036	.019	.036	.021	.011	.012	.007	.004	
10.0	.098	.055	.027	.084	.048	.023	.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:16 January 2024

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.890m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:239.8V I:0.0487A P:10.33W PF:0.8853 Lamp Flux:779.615x1 lm										
NAME: DEEPER DOWN_SLE G7 09mm_250mA_3000K CRI90_32 DEE:LED								WEIGHT:		
SPEC.:				DIM.:				SERIAL No.:1		
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	23.0	24.0	23.2	24.2	24.3	23.0	24.0	23.2	24.2	24.4
3H	23.7	24.6	24.0	24.8	25.1	23.7	24.6	23.9	24.8	25.0
4H	24.2	25.0	24.5	25.3	25.5	24.1	24.9	24.4	25.2	25.4
6H	24.6	25.4	24.9	25.7	25.9	24.4	25.3	24.7	25.5	25.8
8H	24.8	25.6	25.1	25.8	26.1	24.6	25.4	24.9	25.6	25.9
12H	24.9	25.7	25.2	25.9	26.2	24.7	25.4	25.0	25.7	26.0
4H 2H	23.1	24.0	23.4	24.2	24.4	23.1	24.0	23.4	24.2	24.4
3H	24.1	24.9	24.4	25.1	25.4	24.1	24.8	24.4	25.1	25.4
4H	24.7	25.4	25.1	25.7	26.0	24.6	25.3	25.0	25.6	25.9
6H	25.3	26.0	25.7	26.3	26.6	25.2	25.8	25.5	26.1	26.5
8H	25.6	26.2	26.0	26.5	26.9	25.4	25.9	25.8	26.3	26.7
12H	25.8	26.3	26.2	26.7	27.1	25.5	26.0	25.9	26.4	26.8
8H 4H	24.9	25.5	25.3	25.9	26.2	24.8	25.4	25.2	25.8	26.1
6H	25.7	26.2	26.2	26.6	27.0	25.5	26.0	26.0	26.4	26.8
8H	26.1	26.5	26.5	26.9	27.4	25.9	26.3	26.3	26.7	27.1
12H	26.4	26.7	26.8	27.2	27.6	26.1	26.5	26.6	26.9	27.4
12H 4H	25.0	25.5	25.4	25.9	26.2	24.9	25.4	25.3	25.8	26.1
6H	25.8	26.2	26.2	26.6	27.1	25.6	26.0	26.1	26.5	26.9
8H	26.2	26.5	26.7	27.0	27.5	26.0	26.3	26.4	26.8	27.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.5					+ 0.6 / - 0.6				
1.5H	+ 1.1 / - 0.5					+ 1.1 / - 0.5				
2.0H	+ 0.8 / - 0.4					+ 0.9 / - 0.4				

CIE Pub.117 Corrected 779.6 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.9)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:16 January 2024

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.890m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:239.8V I:0.0487A P:10.33W PF:0.8853 Lamp Flux:779.615x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_3000K CRI90_32 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

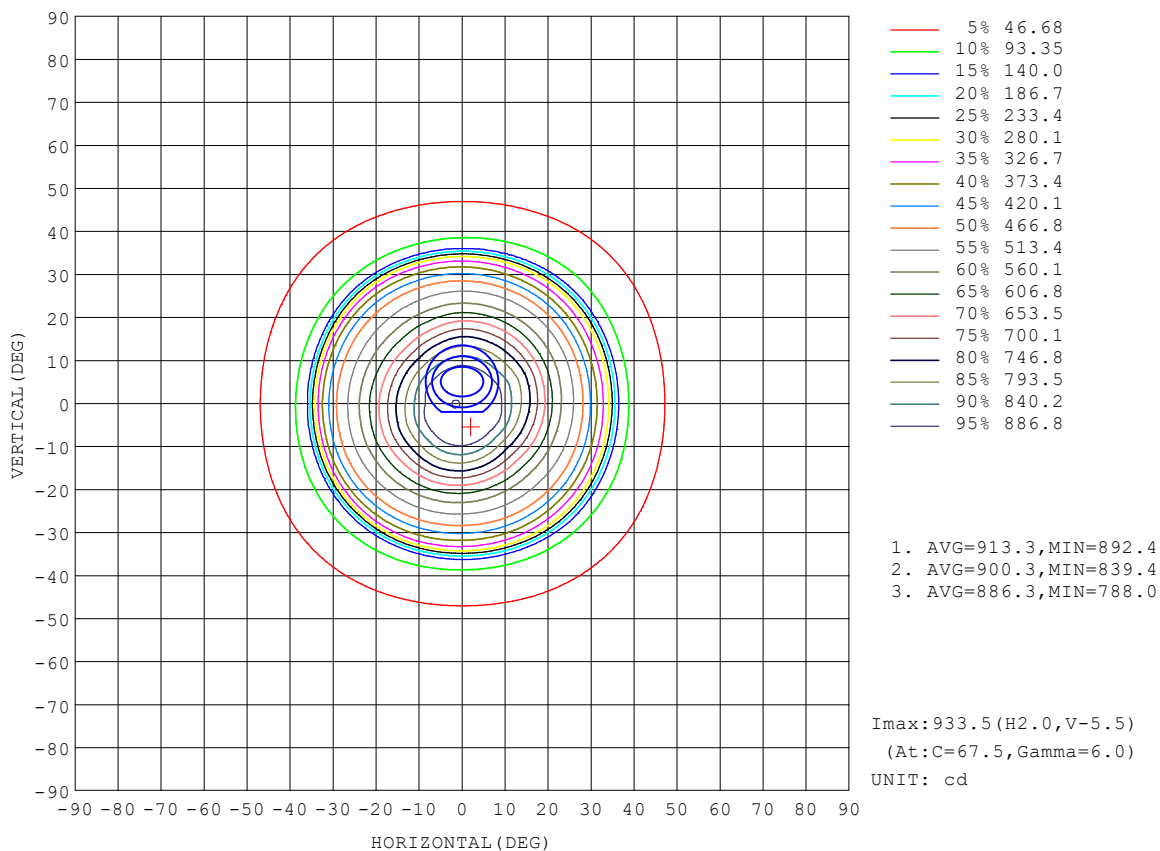
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	77	73	83	77	72	82	76	72	68
0.80	91	85	81	91	84	81	89	84	80	76
1.00	96	90	86	95	89	86	94	89	85	81
1.25	101	95	91	99	94	90	97	93	89	85
1.50	103	98	94	102	97	94	100	96	93	88
2.00	107	102	98	105	101	97	102	99	96	90
2.50	109	104	101	107	103	100	104	101	98	92
3.00	110	107	103	109	105	102	105	102	100	93
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	109	112	110	108	108	106	105	97
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHR NOM = 1.25		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JEFF
Test Date: 16 January 2024

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 7.890m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:239.8V I:0.0487A P:10.33W PF:0.8853 Lamp Flux:779.615x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_3000K CRI90_32 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

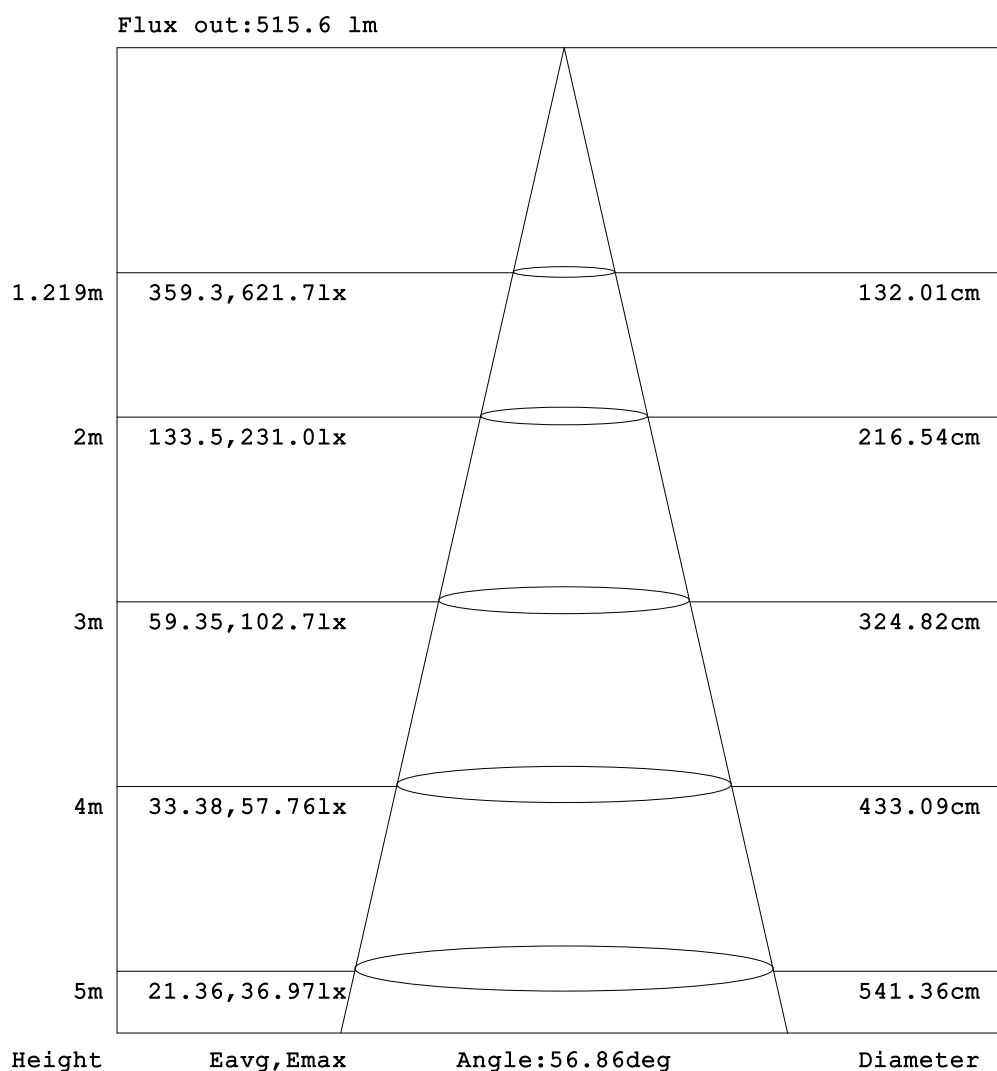


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:16 January 2024

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.890m [K=1.0000]
Remarks:

AAI Figure

Test:U:239.8V I:0.0487A P:10.33W PF:0.8853 Lamp Flux:779.615x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_3000K CRI90_32 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



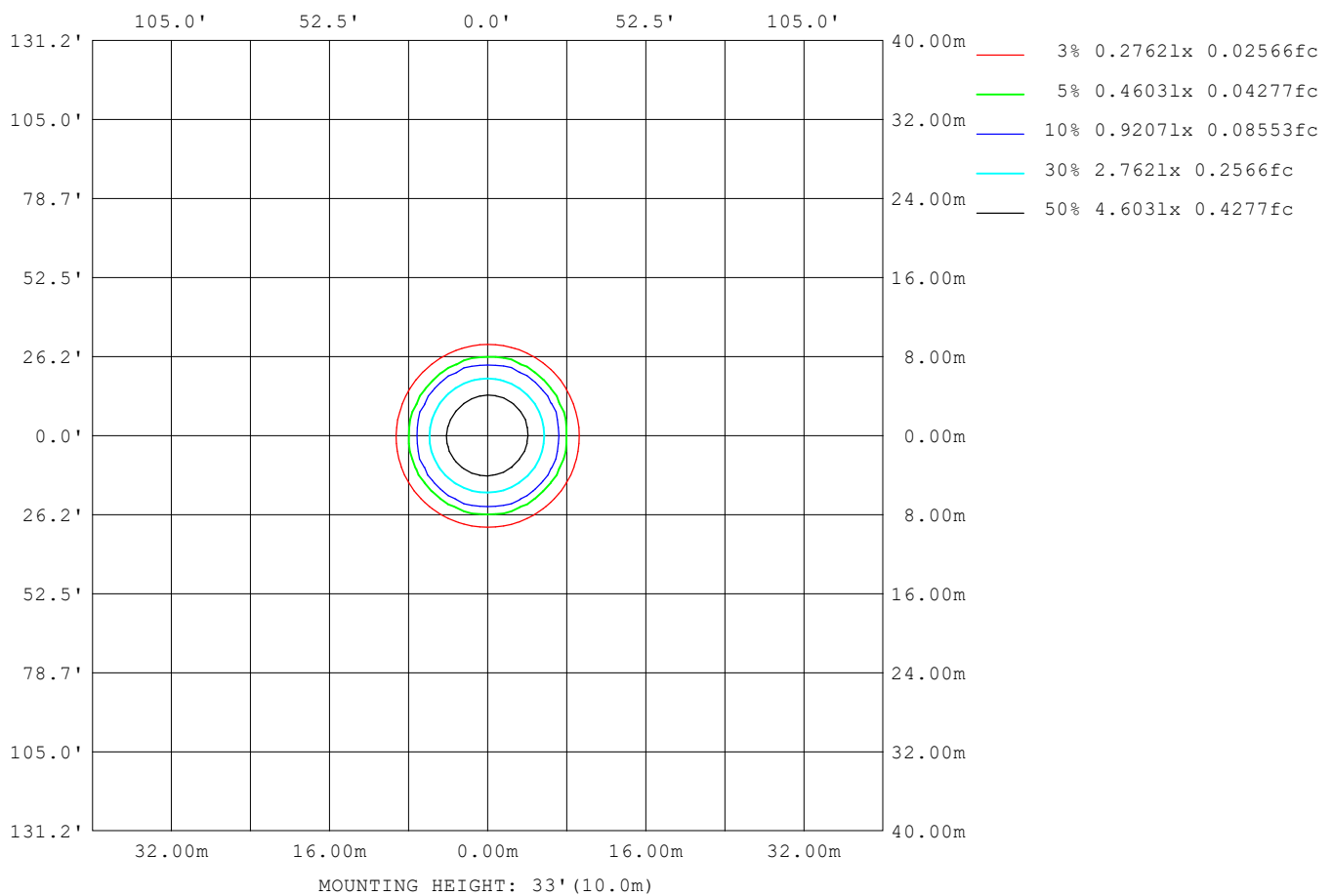
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JEFF
Test Date: 16 January 2024

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 7.890m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:239.8V I:0.0487A P:10.33W PF:0.8853 Lamp Flux:779.615x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_3000K CRI90_32 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:16 January 2024

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.890m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:239.8V I:0.0487A P:10.33W PF:0.8853 Lamp Flux:779.615x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_3000K CRI90_32 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

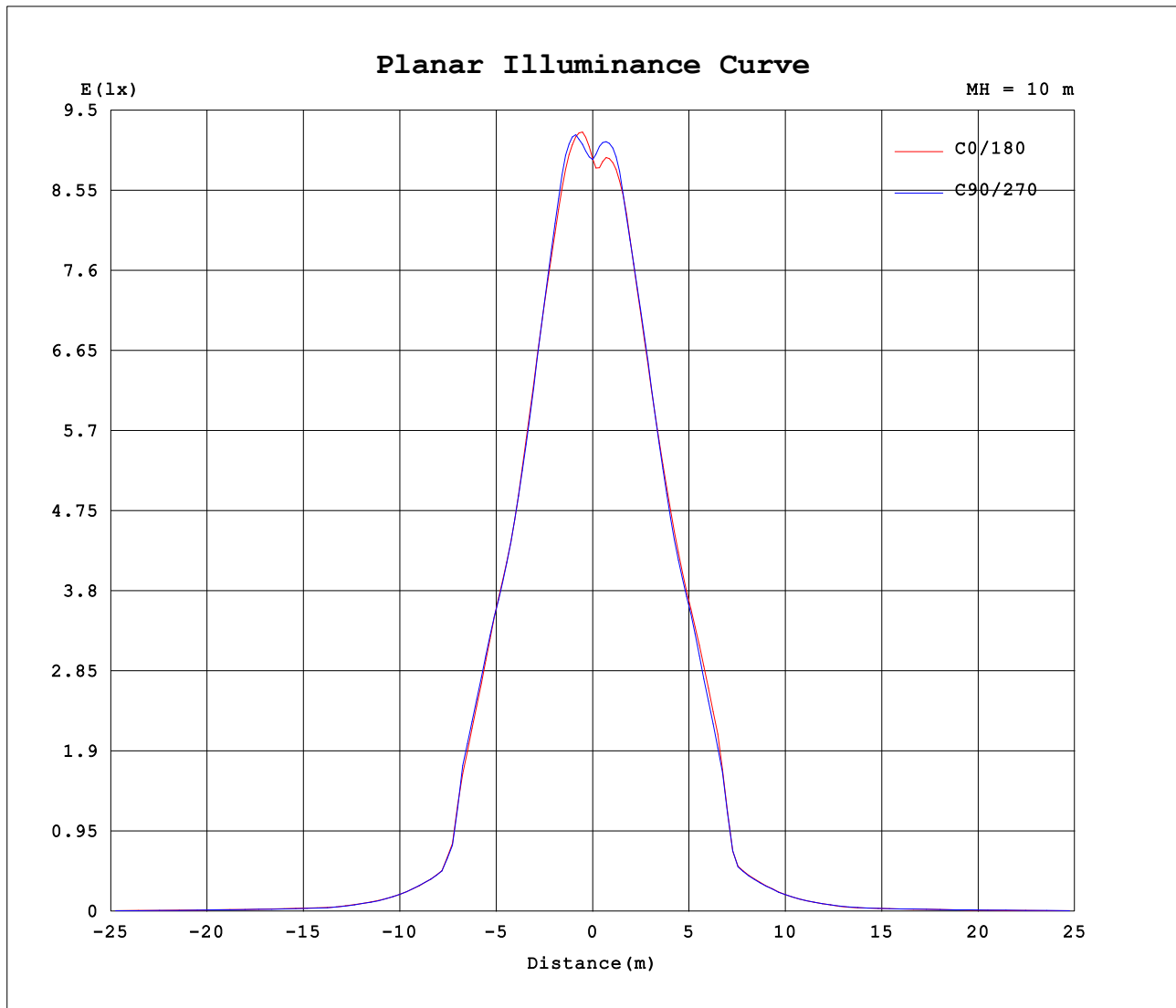
AvgL	cd/m2
L_0~180 (65) av	33400
L_0~180 (75) av	34911
L_0~180 (85) av	31735
L_90~270 (65) av	33288
L_90~270 (75) av	34772
L_90~270 (85) av	31600
L_45 (65) av	33339
L_45 (75) av	34837
L_45 (85) av	31659

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:16 January 2024

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.890m [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: 16 January 2024

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 7.890m [K=1.0000]
Remarks:

