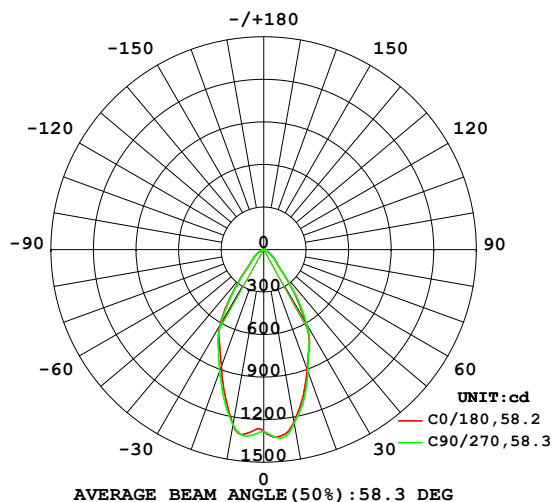


LUMINAIRE PHOTOMETRIC TEST REPORT

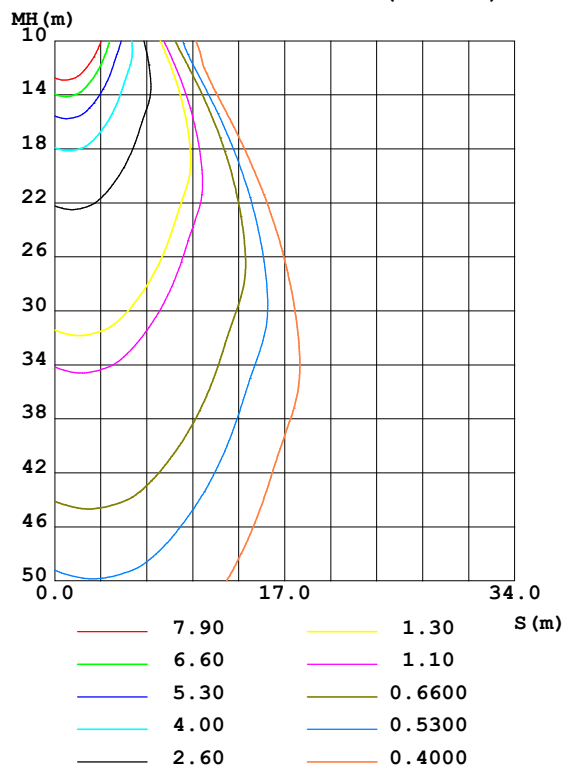
Test:U:239.9V I:0.0641A P:14.29W PF:0.9292 Lamp Flux:1215.34x1 lm		
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_32 DEG		
MFR.: DARKON		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 85.07 lm/W			
MODEL	SLE G7 09mm 1200lm	Imax(cd)	1334	S/MH(C0/180)	0.82
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.84
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	1215.3	η UP,DN(C0-180)	0.0,49.8
NOMINAL FLUX(lm)	1215.34	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.2
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:24 February 2023

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.995m [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	1234	1230	1243	1255	1255	1256	1253	1241	0- 10	123.8	123.8	10.2,10.2
20	897.7	899.1	911.5	905.3	876.6	878.0	910.1	935.6	10- 20	300.9	424.7	34.9,34.9
30	591.8	594.7	606.4	619.2	621.5	609.4	606.7	613.4	20- 30	346.7	771.4	63.5,63.5
40	195.6	203.3	207.0	212.0	224.6	218.9	213.6	210.1	30- 40	247.4	1019	83.8,83.8
50	92.77	92.47	93.12	92.69	95.06	94.76	97.01	98.15	40- 50	103.5	1122	92.3,92.3
60	38.02	37.89	38.03	38.38	39.42	39.90	39.92	39.45	50- 60	58.07	1180	97.1,97.1
70	11.76	11.58	11.58	11.70	11.95	11.98	11.96	11.93	60- 70	20.62	1201	98.8,98.8
80	7.478	7.347	7.300	7.315	7.537	7.602	7.636	7.646	70- 80	10.63	1212	99.7,99.7
90	0.0328	0.0291	0.0291	0.0291	0.0364	0.0364	0.0400	0.0328	80- 90	3.788	1215	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): 1077 lm

%lum = 88.6%

%lamp = 88.6%

Conical surface Flux(120deg): 1180.3 lm

%lum = 97.1%

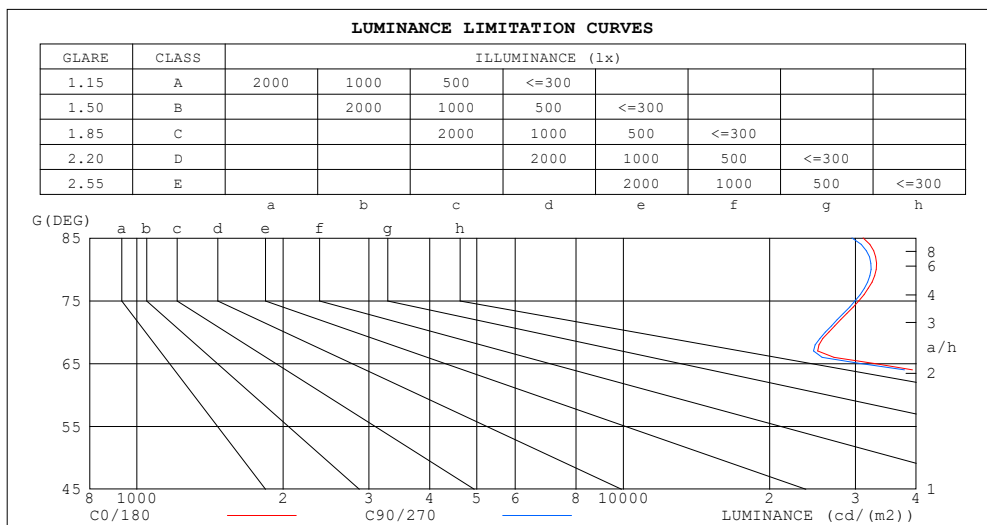
%lamp = 97.1%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:24 February 2023

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.995m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:239.9V I:0.0641A P:14.29W PF:0.9292 Lamp Flux:1215.34x1 lm		
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_32 DEG		
MFR.: DARKON		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	31143	29525
80	33142	32352
75	30538	29985
70	26458	26048
65	32772	30665
60	58512	58535
55	85081	84526
50	111071	111481
45	140405	138589

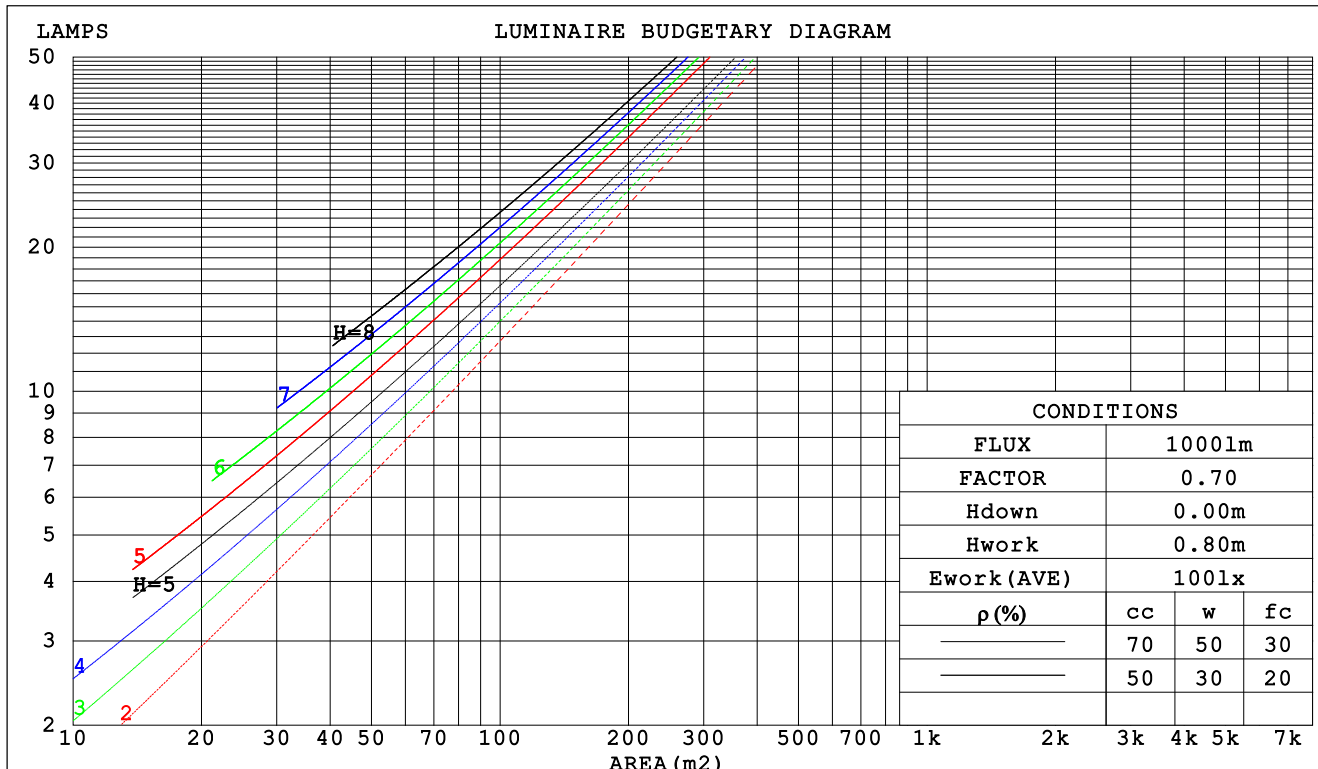
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JEFF
Test Date: 24 February 2023

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 7.995m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:239.9V I:0.0641A P:14.29W PF:0.9292 Lamp Flux:1215.34x1 lm		
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_32 DEG		
MFR.: DARKON		

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	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	.99	.95	.92	.96	.93	.90	.93	.90	.88	.90	.88	.86	.84
3.0	.94	.88	.84	.92	.87	.83	.89	.85	.82	.87	.83	.80	.85	.82	.79	.77
4.0	.87	.81	.76	.86	.80	.76	.83	.79	.75	.81	.77	.74	.79	.76	.73	.71
5.0	.81	.74	.70	.80	.74	.69	.78	.73	.69	.76	.72	.68	.75	.71	.68	.66
6.0	.75	.69	.64	.75	.68	.64	.73	.68	.64	.72	.67	.63	.70	.66	.63	.61
7.0	.71	.64	.60	.70	.64	.59	.69	.63	.59	.67	.62	.59	.66	.62	.58	.57
8.0	.66	.60	.55	.66	.60	.55	.64	.59	.55	.63	.58	.55	.62	.58	.55	.53
9.0	.62	.56	.52	.62	.56	.52	.61	.55	.52	.60	.55	.51	.59	.55	.51	.50
10.0	.59	.53	.49	.58	.52	.49	.58	.52	.48	.57	.52	.48	.56	.51	.48	.47



C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:JEFF

Test Date:24 February 2023

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295

Humidity:65.0%

Test Distance:7.995m [K=1.0000]

Remarks:

WEC AND CCEC

Test:U:239.9V I:0.0641A P:14.29W PF:0.9292 Lamp Flux:1215.34x1 lm		
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_32 DEG		
MFR.: DARKON		

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	.109	.034	.178	.102	.033	.166	.096	.031	.155	.090	.029		
2.0	.189	.103	.032	.183	.101	.031	.172	.096	.030	.162	.091	.028	.153	.087	.027		
3.0	.179	.095	.029	.174	.093	.028	.165	.089	.027	.156	.086	.026	.148	.082	.025		
4.0	.170	.088	.026	.165	.087	.026	.157	.084	.025	.150	.081	.024	.143	.078	.024		
5.0	.161	.082	.024	.157	.081	.024	.150	.078	.023	.144	.076	.023	.138	.074	.022		
6.0	.153	.077	.022	.150	.076	.022	.143	.073	.021	.138	.071	.021	.132	.070	.021		
7.0	.145	.072	.020	.142	.071	.020	.137	.069	.020	.132	.068	.020	.127	.066	.019		
8.0	.138	.068	.019	.136	.067	.019	.131	.065	.019	.126	.064	.018	.122	.063	.018		
9.0	.132	.064	.018	.130	.063	.018	.125	.062	.018	.121	.061	.017	.117	.060	.017		
10.0	.126	.060	.017	.124	.060	.017	.120	.059	.017	.116	.058	.016	.113	.057	.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	.173	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.158	.132	.110	.136	.114	.096	.093	.079	.067	.054	.046	.039	.017	.015	.013	
3.0	.147	.114	.087	.126	.098	.076	.087	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.137	.099	.070	.118	.086	.061	.081	.060	.043	.047	.035	.025	.015	.011	.008	
5.0	.129	.088	.057	.111	.076	.050	.076	.053	.035	.044	.031	.021	.014	.010	.007	
6.0	.122	.079	.048	.105	.068	.042	.072	.048	.030	.042	.028	.018	.014	.009	.006	
7.0	.115	.071	.041	.099	.062	.035	.068	.043	.025	.040	.026	.015	.013	.008	.005	
8.0	.109	.065	.035	.094	.057	.030	.065	.040	.021	.038	.023	.013	.012	.008	.004	
9.0	.104	.060	.030	.090	.052	.026	.062	.037	.019	.036	.022	.011	.012	.007	.004	
10.0	.100	.056	.026	.086	.048	.023	.060	.034	.016	.035	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:24 February 2023

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.995m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:239.9V I:0.0641A P:14.29W PF:0.9292 Lamp Flux:1215.34x1 lm										
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_32 DEG										
MFR.: DARKON										
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	25.9	27.0	26.2	27.1	27.3	26.0	27.0	26.2	27.2	27.4
3H	25.9	26.9	26.2	27.1	27.3	26.0	26.9	26.2	27.1	27.3
4H	25.9	26.8	26.2	27.1	27.3	26.0	26.9	26.3	27.1	27.4
6H	26.0	26.8	26.3	27.1	27.3	26.1	26.9	26.4	27.2	27.4
8H	26.0	26.8	26.3	27.1	27.4	26.1	26.9	26.4	27.2	27.4
12H	26.0	26.8	26.4	27.1	27.4	26.1	26.9	26.4	27.1	27.4
4H 2H	25.9	26.8	26.1	27.0	27.2	25.9	26.8	26.2	27.1	27.3
3H	25.9	26.7	26.2	26.9	27.2	26.0	26.7	26.3	27.0	27.3
4H	26.0	26.7	26.3	27.0	27.3	26.1	26.8	26.4	27.1	27.4
6H	26.1	26.8	26.5	27.1	27.5	26.2	26.8	26.6	27.2	27.5
8H	26.2	26.8	26.6	27.2	27.5	26.3	26.8	26.7	27.2	27.6
12H	26.3	26.8	26.7	27.2	27.6	26.3	26.8	26.7	27.2	27.6
8H 4H	26.0	26.5	26.4	26.9	27.3	26.0	26.6	26.4	27.0	27.3
6H	26.2	26.7	26.6	27.1	27.5	26.2	26.7	26.7	27.1	27.5
8H	26.3	26.8	26.8	27.2	27.6	26.4	26.8	26.8	27.2	27.6
12H	26.4	26.8	26.9	27.2	27.7	26.4	26.8	26.9	27.3	27.7
12H 4H	25.9	26.5	26.4	26.8	27.2	26.0	26.5	26.4	26.9	27.3
6H	26.2	26.6	26.7	27.0	27.5	26.2	26.7	26.7	27.1	27.5
8H	26.4	26.7	26.8	27.2	27.6	26.4	26.7	26.9	27.2	27.7
Variations with the observer position at spacings:										
S = 1.0H	+ 1.6 / - 1.9					+ 1.7 / - 2.0				
1.5H	+ 2.4 / - 1.1					+ 2.7 / - 1.2				
2.0H	+ 2.0 / - 2.2					+ 2.0 / - 2.2				

CIE Pub.117 Corrected 1215 lm Total Lamp Luminous Flux. (8log(F/F0) = 0.7)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:24 February 2023

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.995m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:239.9V I:0.0641A P:14.29W PF:0.9292 Lamp Flux:1215.34x1 lm		
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_32 DEG		
MFR.: DARKON		

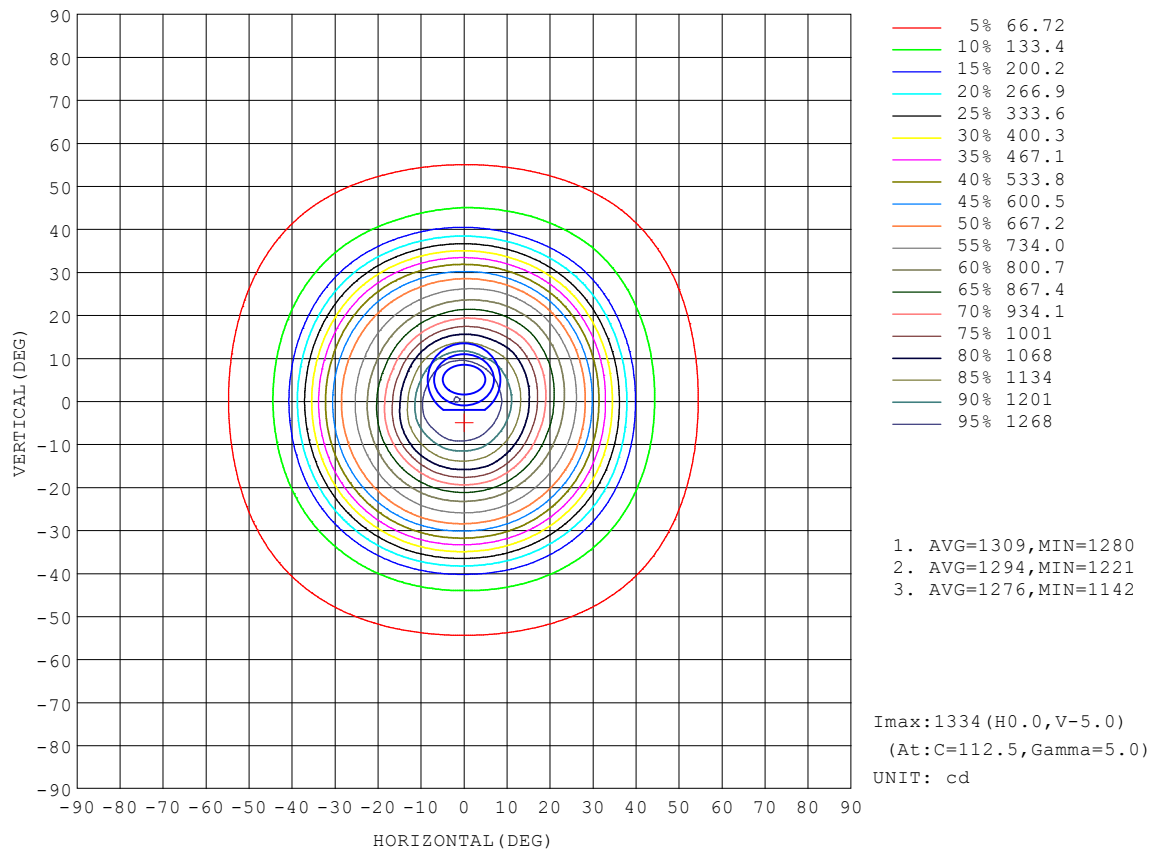
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	81	74	69	81	74	69	80	73	69	65
0.80	89	83	78	89	82	78	87	82	78	73
1.00	95	88	84	94	88	84	92	88	83	79
1.25	100	94	90	99	93	89	97	92	88	84
1.50	103	97	93	102	97	93	99	95	92	87
2.00	106	102	98	105	100	97	102	98	96	90
2.50	108	104	100	107	103	100	103	100	98	91
3.00	110	106	103	108	105	102	105	102	100	93
4.00	113	109	107	110	108	105	107	104	103	95
5.00	114	111	109	112	109	107	108	106	104	96
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: 24 February 2023

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity: 65.0%
 Test Distance: 7.995m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:239.9V I:0.0641A P:14.29W PF:0.9292 Lamp Flux:1215.34x1 lm		
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_32 DEG		
MFR.: DARKON		

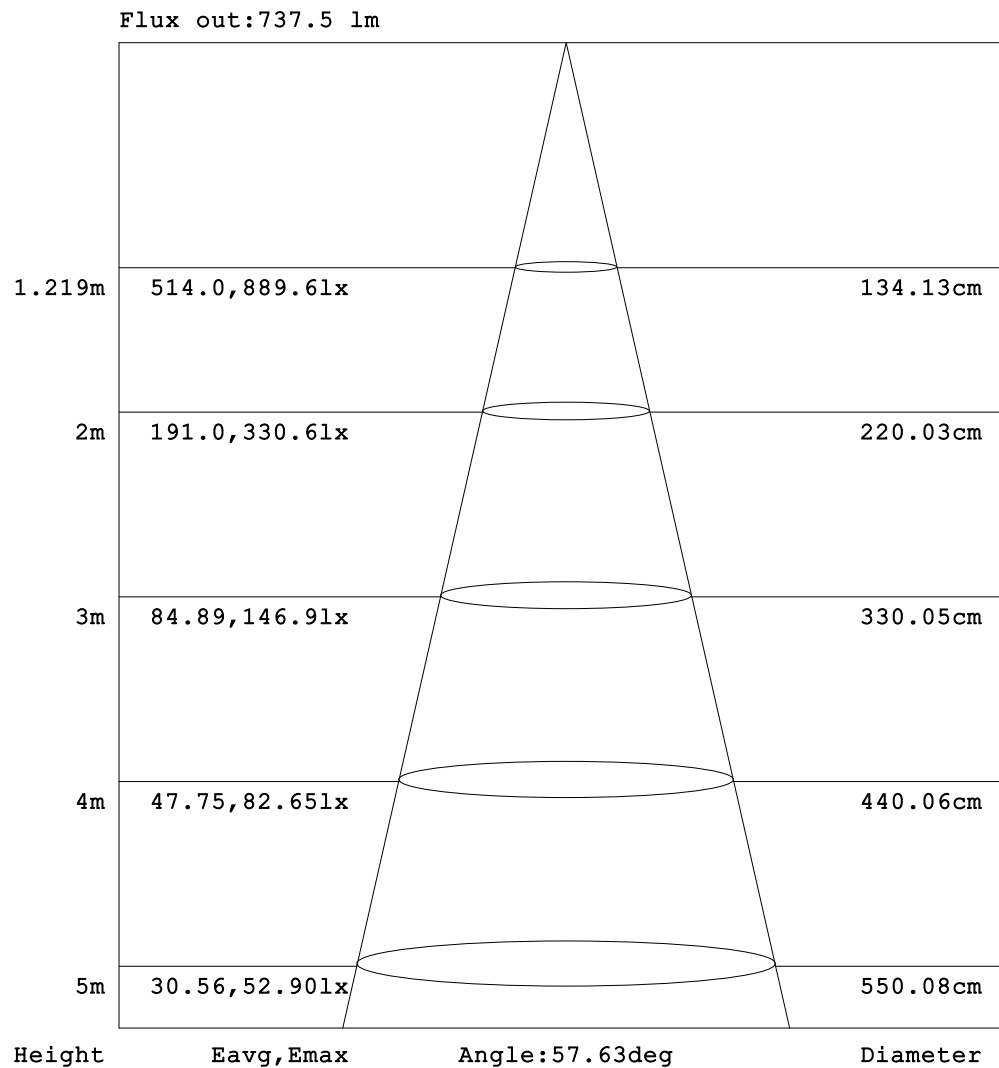


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:24 February 2023

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.995m [K=1.0000]
Remarks:

AAI Figure

Test:U:239.9V I:0.0641A P:14.29W PF:0.9292 Lamp Flux:1215.34x1 lm		
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_32 DEG		
MFR.: DARKON		



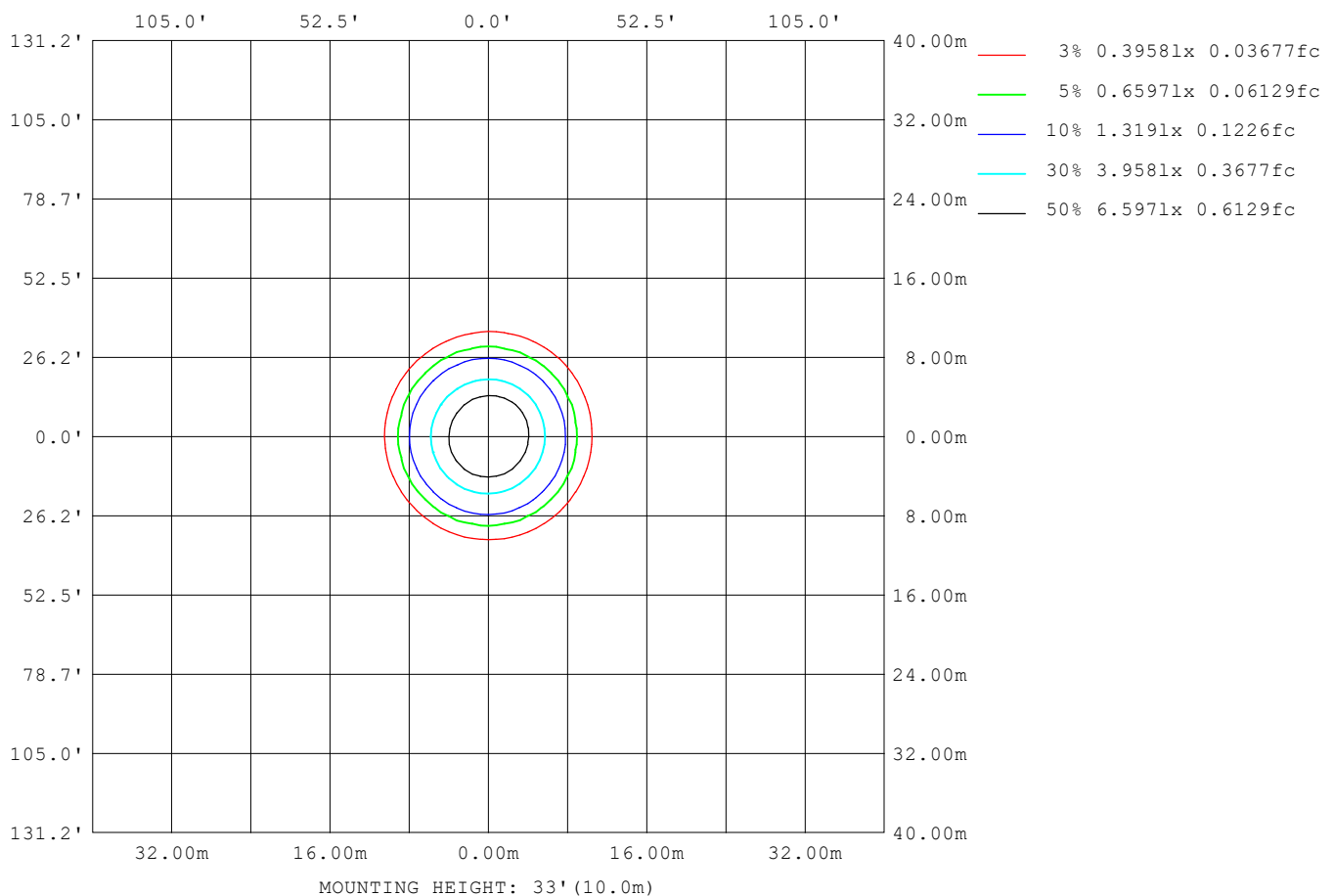
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JEFF
Test Date: 24 February 2023

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 7.995m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:239.9V I:0.0641A P:14.29W PF:0.9292 Lamp Flux:1215.34x1 lm		
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_32 DEG		
MFR.: DARKON		



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:24 February 2023

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.995m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:239.9V I:0.0641A P:14.29W PF:0.9292 Lamp Flux:1215.34x1 lm		
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_32 DEG		
MFR.: DARKON		

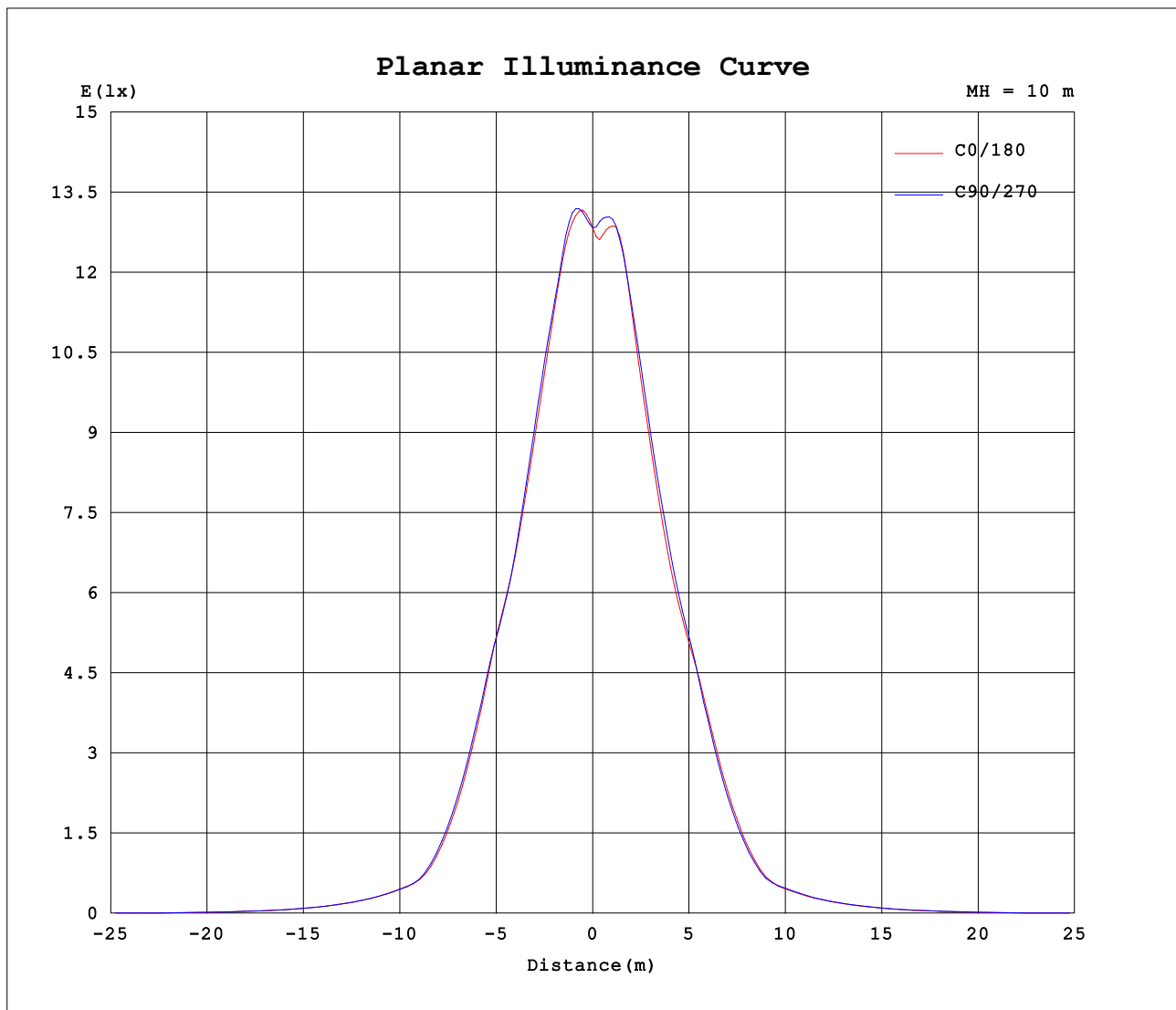
AvgL	cd/m2
L_0~180 (65) av	32378
L_0~180 (75) av	30761
L_0~180 (85) av	30713
L_90~270 (65) av	32939
L_90~270 (75) av	30532
L_90~270 (85) av	30640
L_45 (65) av	32631
L_45 (75) av	30595
L_45 (85) av	30650

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:24 February 2023

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.995m [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: 24 February 2023

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 7.995m [K=1.0000]
Remarks:

