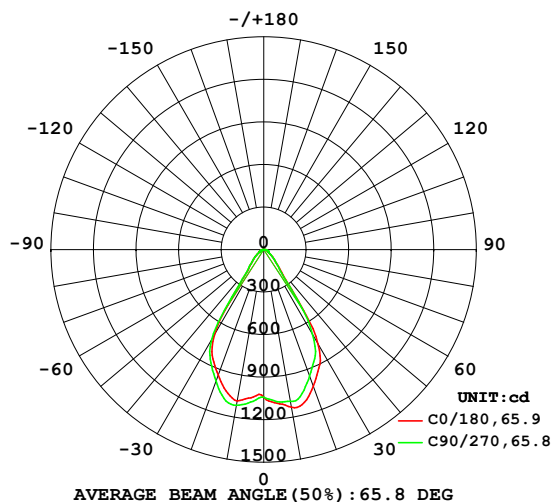


LUMINAIRE PHOTOMETRIC TEST REPORT

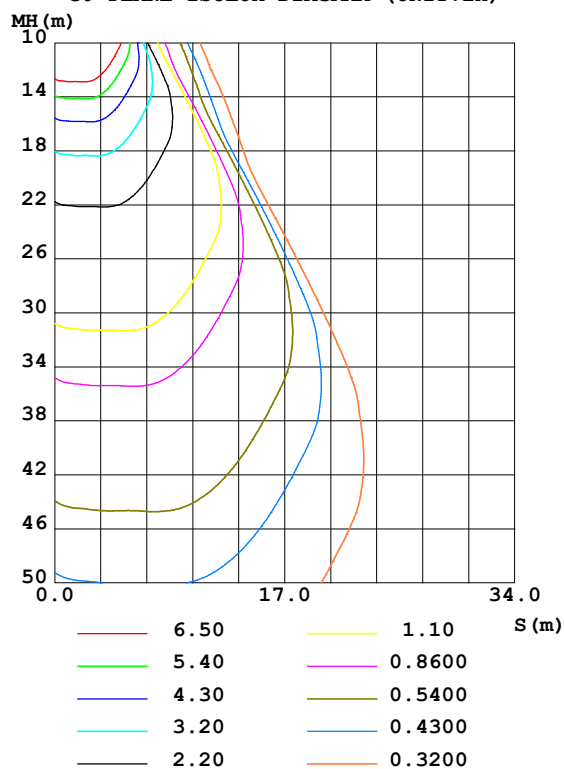
Test:U:240.0V I:0.0642A P:14.33W PF:0.9297 Lamp Flux:1229.4x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_350mA_4000K CRI90_50 DEG		
MFR.: DARKON		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 85.80 lm/W			
MODEL	SLE G7 09mm 1200lm	Imax(cd)	1138	S/MH(C0/180)	0.93
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.94
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	1229.4	η UP,DN(C0-180)	0.0,50.0
NOMINAL FLUX(lm)	1229.4	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	230	η down(%)	100.0	CIBSE SHR MAX	0.70

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:22 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	1129	1102	1086	1081	1083	1078	1114	1129	0- 10	103.3	103.3	8.4,8.4
20	1024	953.2	948.3	964.3	942.3	912.3	986.4	1034	10- 20	297.0	400.3	32.6,32.6
30	766.5	699.9	689.2	697.7	697.0	697.7	737.2	779.6	20- 30	397.3	797.6	64.9,64.9
40	172.4	166.6	166.1	160.1	154.9	155.8	162.5	168.7	30- 40	229.0	1027	83.5,83.5
50	82.47	81.59	81.69	81.46	80.68	79.48	80.04	81.61	40- 50	89.04	1116	90.7,90.7
60	36.56	37.31	37.72	38.06	37.62	36.44	35.76	35.92	50- 60	49.21	1165	94.7,94.7
70	28.71	29.44	29.84	30.02	29.44	28.30	27.75	28.04	60- 70	33.03	1198	97.4,97.4
80	15.44	16.19	16.37	16.11	15.52	14.64	14.35	14.78	70- 80	23.54	1221	99.3,99.3
90	0.1492	0.1164	0.1092	0.1713	0.1965	0.1237	0.1310	0.1166	80- 90	8.000	1229	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): 1076.7 lm

%lum = 87.6%

%lamp = 87.6%

Conical surface Flux(120deg): 1164.8 lm

%lum = 94.7%

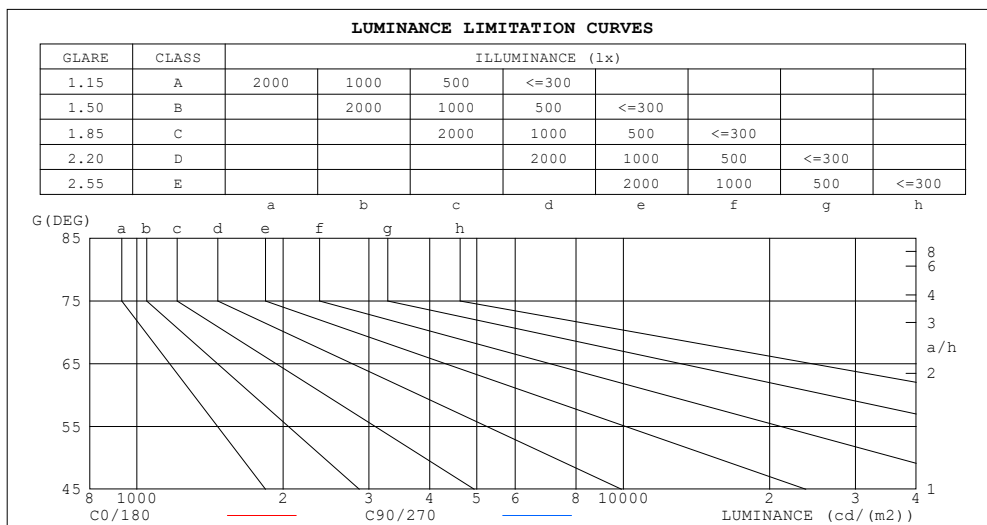
%lamp = 94.7%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:22 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:240.0V I:0.0642A P:14.33W PF:0.9297 Lamp Flux:1229.4x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_350mA_4000K CRI90_50 DEG		
MFR.: DARKON		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	66650	70428
80	68445	72548
75	66280	69429
70	64606	67158
65	60399	62596
60	56281	58059
55	72768	74183
50	98760	97821
45	125186	124100

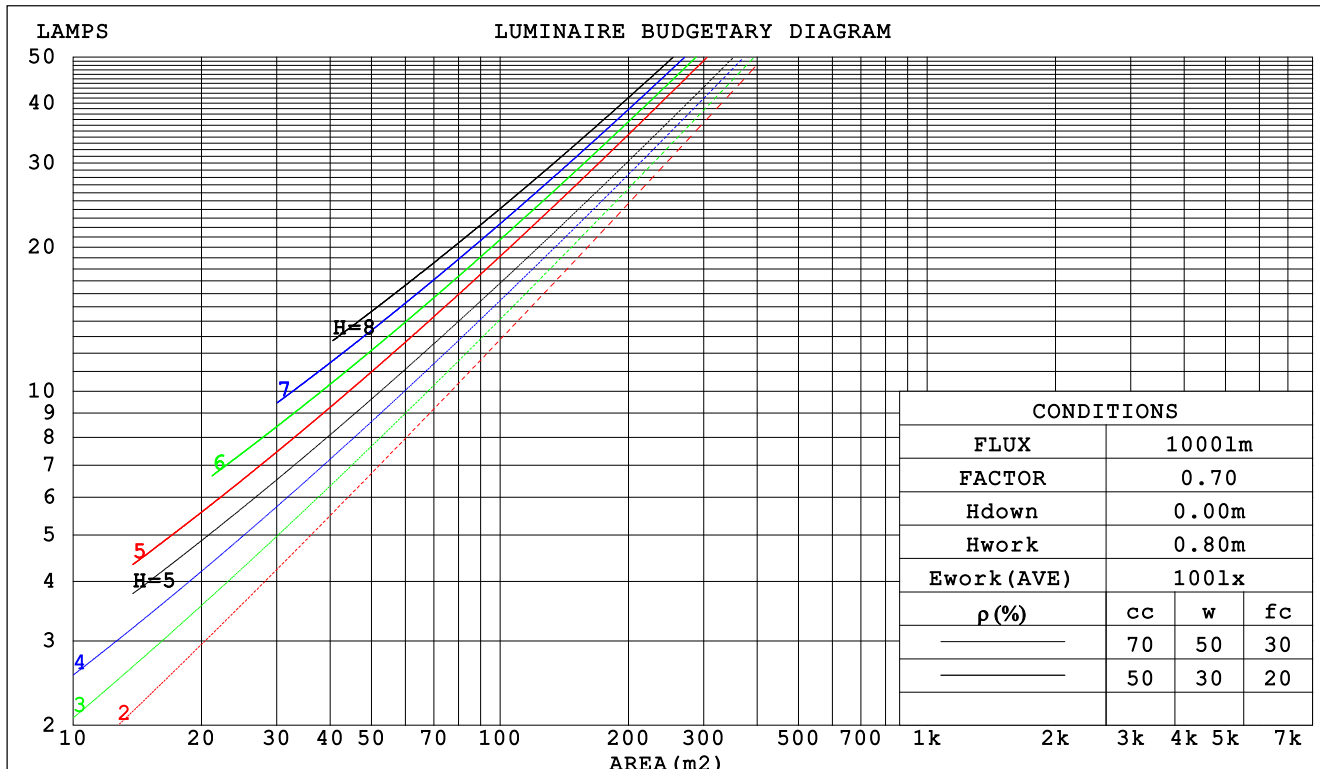
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JEFF
 Test Date:22 February 2023

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:240.0V I:0.0642A P:14.33W PF:0.9297 Lamp Flux:1229.4x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_350mA_4000K CRI90_50 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	1.00
1.0	1.09	1.06	1.04	1.07	1.04	1.02	1.03	1.01	.99	.99	.97	.96	.96	.94	.93	.91
2.0	1.00	.96	.92	.99	.94	.91	.95	.92	.89	.92	.89	.87	.89	.87	.85	.83
3.0	.93	.87	.82	.91	.86	.82	.88	.84	.80	.86	.82	.79	.84	.81	.78	.76
4.0	.86	.80	.75	.85	.79	.74	.82	.77	.73	.80	.76	.73	.78	.75	.72	.70
5.0	.80	.73	.69	.79	.73	.68	.77	.72	.68	.75	.71	.67	.74	.70	.66	.65
6.0	.74	.68	.63	.74	.67	.63	.72	.67	.62	.71	.66	.62	.69	.65	.62	.60
7.0	.70	.63	.58	.69	.63	.58	.68	.62	.58	.66	.61	.58	.65	.61	.57	.56
8.0	.65	.59	.54	.65	.59	.54	.64	.58	.54	.62	.57	.54	.61	.57	.53	.52
9.0	.61	.55	.51	.61	.55	.51	.60	.54	.50	.59	.54	.50	.58	.53	.50	.49
10.0	.58	.52	.48	.57	.51	.47	.57	.51	.47	.56	.51	.47	.55	.50	.47	.46



C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:JEFF

Test Date:22 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:240.0V I:0.0642A P:14.33W PF:0.9297 Lamp Flux:1229.4x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_350mA_4000K	CRI90_50 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	.208	.118	.037	.201	.115	.036	.188	.108	.035	.177	.102	.033	.166	.096	.031	
2.0	.197	.108	.033	.191	.105	.032	.180	.100	.031	.170	.095	.030	.161	.091	.029	
3.0	.185	.099	.030	.180	.097	.029	.171	.093	.028	.162	.089	.027	.154	.085	.026	
4.0	.174	.091	.027	.170	.089	.026	.162	.086	.026	.155	.083	.025	.148	.080	.024	
5.0	.165	.084	.024	.161	.083	.024	.154	.080	.024	.147	.078	.023	.141	.075	.023	
6.0	.156	.078	.022	.153	.077	.022	.146	.075	.022	.141	.073	.021	.135	.071	.021	
7.0	.148	.073	.021	.145	.072	.021	.139	.071	.020	.134	.069	.020	.129	.067	.020	
8.0	.141	.069	.019	.138	.068	.019	.133	.067	.019	.128	.065	.019	.124	.064	.019	
9.0	.134	.065	.018	.132	.064	.018	.127	.063	.018	.123	.062	.018	.119	.061	.017	
10.0	.128	.061	.017	.126	.061	.017	.122	.060	.017	.118	.059	.017	.115	.058	.017	

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	.142	.148	.135	.123	.101	.093	.085	.058	.054	.049	.019	.017	.016	
2.0	.160	.132	.110	.137	.114	.095	.094	.079	.066	.054	.046	.039	.017	.015	.013	
3.0	.148	.114	.086	.127	.098	.075	.087	.068	.052	.050	.040	.031	.016	.013	.010	
4.0	.138	.099	.069	.119	.086	.060	.082	.060	.042	.047	.035	.025	.015	.011	.008	
5.0	.130	.088	.057	.112	.076	.050	.077	.053	.035	.045	.031	.021	.014	.010	.007	
6.0	.123	.079	.047	.105	.068	.041	.073	.048	.029	.042	.028	.017	.014	.009	.006	
7.0	.116	.071	.040	.100	.062	.035	.069	.043	.025	.040	.026	.015	.013	.008	.005	
8.0	.110	.065	.034	.095	.057	.030	.066	.040	.021	.038	.023	.013	.012	.008	.004	
9.0	.105	.060	.030	.091	.052	.026	.063	.037	.019	.037	.022	.011	.012	.007	.004	
10.0	.100	.056	.026	.087	.049	.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:22 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:240.0V I:0.0642A P:14.33W PF:0.9297 Lamp Flux:1229.4x1 lm										
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_350mA_4000K					CRI90_50 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	26.9	26.1	27.1	27.3	25.7	26.8	26.0	27.0	27.2
3H	26.5	27.5	26.8	27.7	27.9	26.4	27.4	26.7	27.6	27.8
4H	26.9	27.8	27.2	28.1	28.3	26.9	27.8	27.2	28.0	28.3
6H	27.3	28.2	27.6	28.4	28.7	27.3	28.2	27.6	28.4	28.7
8H	27.5	28.3	27.8	28.6	28.8	27.5	28.4	27.8	28.6	28.9
12H	27.6	28.4	27.9	28.7	29.0	27.7	28.5	28.0	28.7	29.0
4H 2H	26.0	26.9	26.3	27.1	27.4	25.8	26.8	26.1	27.0	27.2
3H	26.9	27.7	27.2	28.0	28.2	26.8	27.6	27.2	27.9	28.2
4H	27.5	28.2	27.8	28.5	28.8	27.5	28.2	27.8	28.5	28.8
6H	28.0	28.7	28.4	29.0	29.4	28.1	28.7	28.5	29.1	29.4
8H	28.3	28.9	28.7	29.2	29.6	28.4	29.0	28.8	29.3	29.7
12H	28.5	29.0	28.9	29.4	29.8	28.6	29.1	29.0	29.5	29.9
8H 4H	27.7	28.3	28.1	28.6	29.0	27.7	28.3	28.1	28.6	29.0
6H	28.4	28.9	28.9	29.3	29.7	28.5	29.0	28.9	29.4	29.8
8H	28.8	29.2	29.2	29.6	30.1	28.9	29.3	29.3	29.7	30.2
12H	29.1	29.4	29.5	29.9	30.4	29.2	29.5	29.6	30.0	30.5
12H 4H	27.7	28.3	28.1	28.6	29.0	27.7	28.3	28.1	28.6	29.0
6H	28.5	29.0	29.0	29.4	29.8	28.6	29.0	29.0	29.4	29.9
8H	28.9	29.3	29.4	29.7	30.2	29.0	29.4	29.5	29.8	30.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.6					+ 0.4 / - 0.5				
1.5H	+ 0.7 / - 0.4					+ 0.6 / - 0.4				
2.0H	+ 0.9 / - 0.6					+ 0.9 / - 0.5				

CIE Pub.117 Corrected 1229 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:22 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:240.0V I:0.0642A P:14.33W PF:0.9297 Lamp Flux:1229.4x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_350mA_4000K CRI90_50 DEG		
MFR.: DARKON		

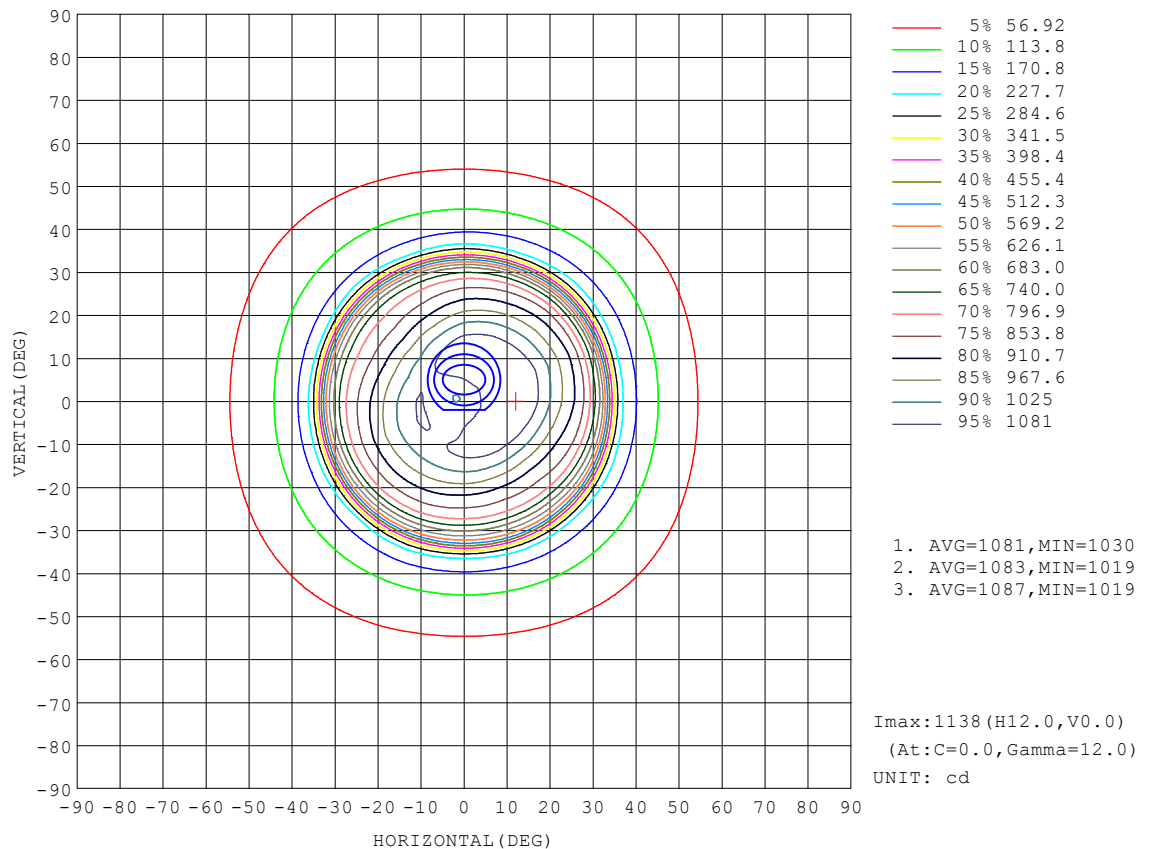
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	81	74	70	81	74	69	80	73	69	65
0.80	89	82	78	89	82	78	87	81	77	73
1.00	95	88	83	94	87	83	92	88	83	78
1.25	99	93	89	98	92	88	96	91	87	83
1.50	102	96	92	101	96	92	99	94	91	86
2.00	106	101	97	104	100	96	101	98	95	89
2.50	108	103	100	106	102	99	103	100	97	90
3.00	110	106	102	108	104	101	104	101	99	92
4.00	112	109	106	110	107	105	106	104	102	94
5.00	114	111	109	111	109	107	107	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: 22 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:240.0V I:0.0642A P:14.33W PF:0.9297 Lamp Flux:1229.4x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_350mA_4000K CRI90_50 DEG		
MFR.: DARKON		

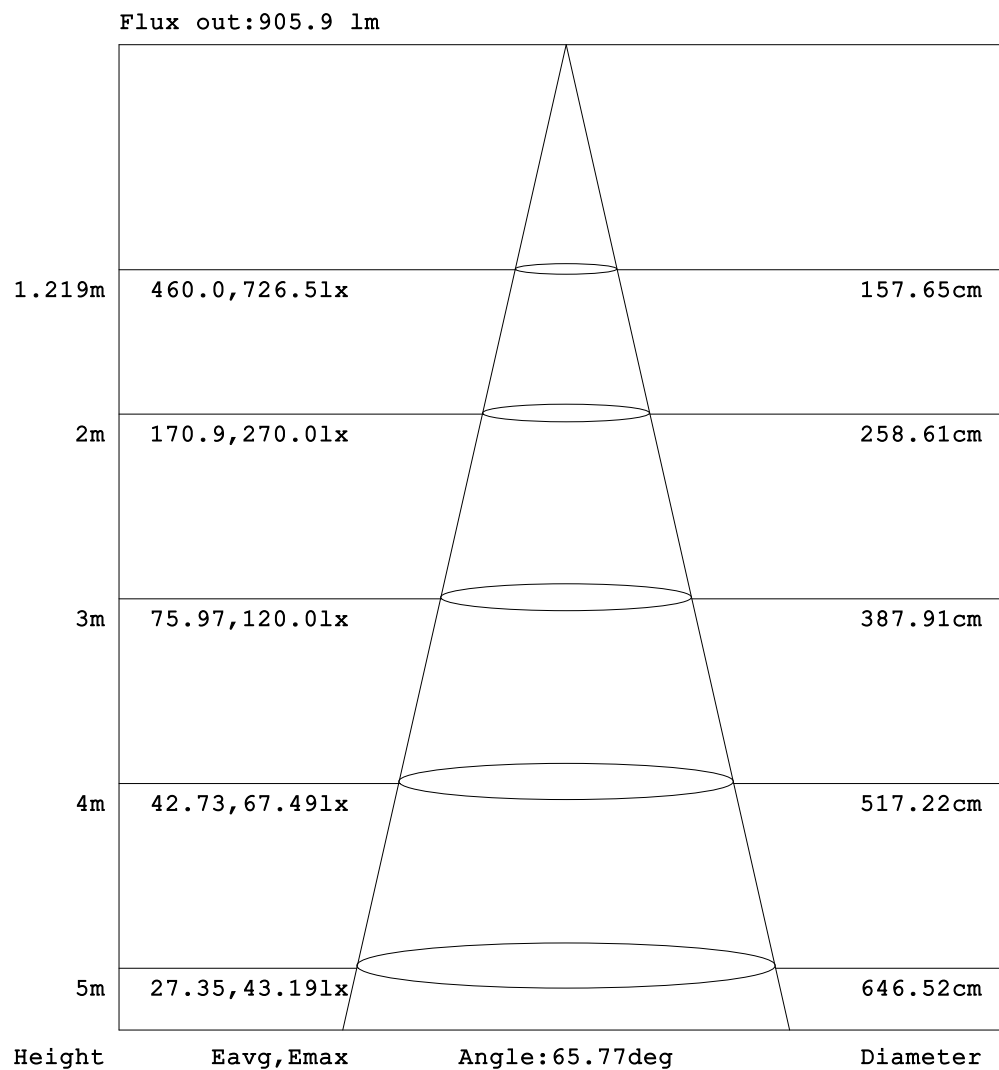


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:22 February 2023

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:240.0V I:0.0642A P:14.33W PF:0.9297 Lamp Flux:1229.4x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_350mA_4000K CRI90_50 DEG		
MFR.: DARKON		



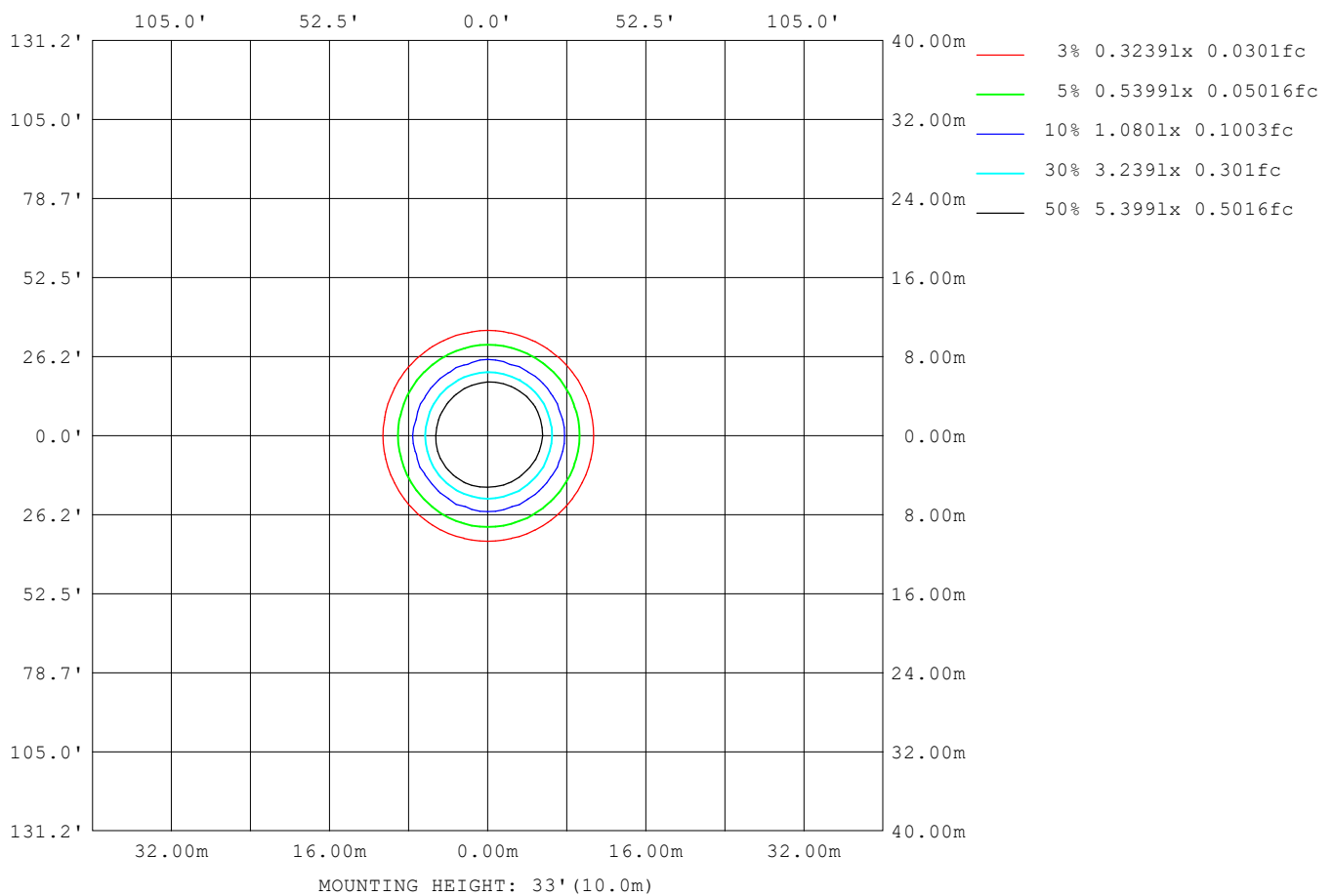
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JEFF
Test Date: 22 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:240.0V I:0.0642A P:14.33W PF:0.9297 Lamp Flux:1229.4x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_350mA_4000K CRI90_50 DEG		
MFR.: DARKON		



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:22 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:240.0V I:0.0642A P:14.33W PF:0.9297 Lamp Flux:1229.4x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_350mA_4000K CRI90_50 DEG		
MFR.: DARKON		

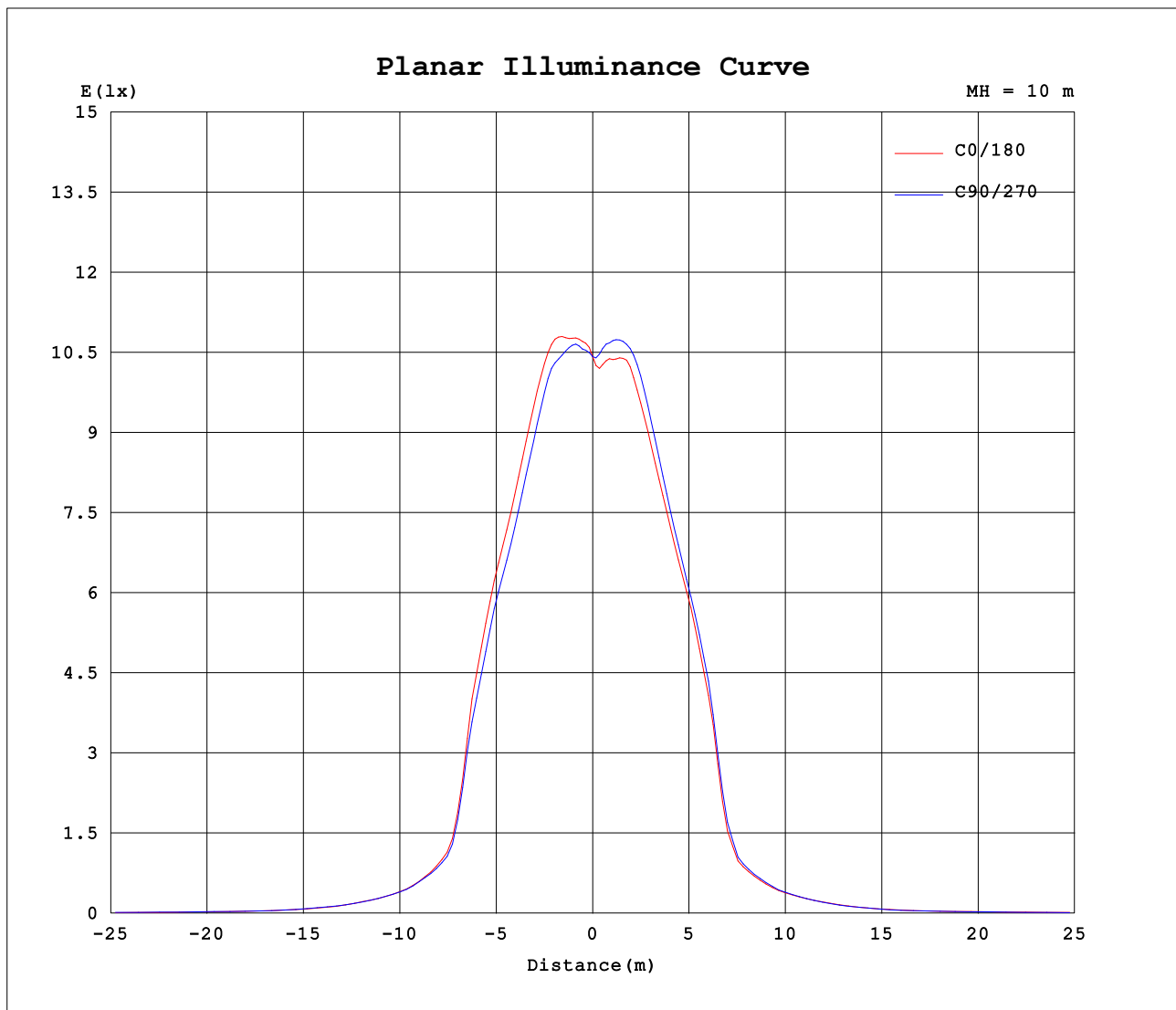
AvgL	cd/m2
L_0~180 (65) av	61432
L_0~180 (75) av	66680
L_0~180 (85) av	66259
L_90~270 (65) av	60794
L_90~270 (75) av	66138
L_90~270 (85) av	65521
L_45 (65) av	61125
L_45 (75) av	66453
L_45 (85) av	65891

Standard: GB/T 29293-2012

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

