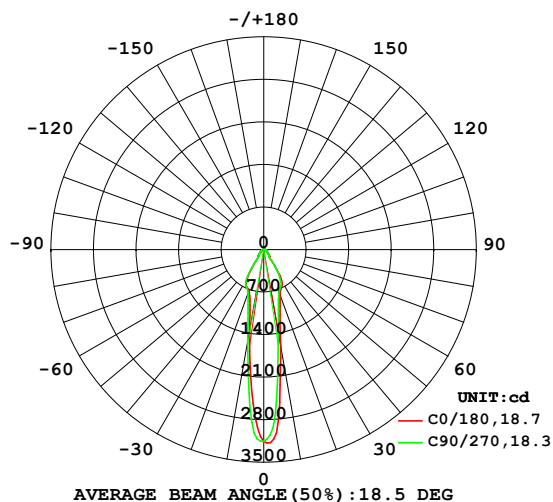


LUMINAIRE PHOTOMETRIC TEST REPORT

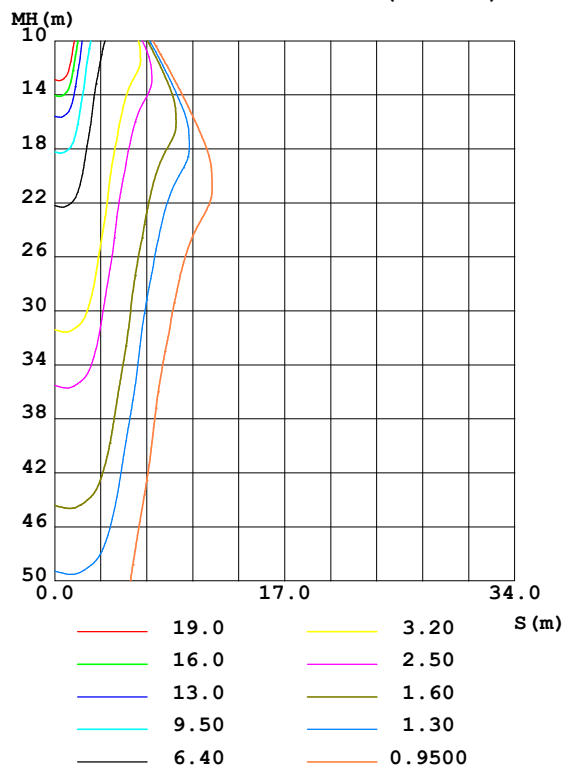
Test:U:240.0V I:0.0642A P:14.30W PF:0.9291 Lamp Flux:1182.82x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_350mA_4000K CRI90_24 DEG		
MFR.: DARKON		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 82.69 lm/W			
MODEL	SLE G7 09mm 12001m	Imax(cd)	3191	S/MH(C0/180)	0.30
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.33
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	1182.8	η UP,DN(C0-180)	0.0,49.8
NOMINAL FLUX(lm)	1182.82	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.2
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	230	η down(%)	100.0	CIBSE SHR MAX	1.00

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:23 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	1618	1478	1388	1316	1349	1447	1523	1659	0- 10	204.5	204.5	17.3,17.3
20	790.1	766.6	745.6	726.8	725.3	728.7	761.5	799.5	10- 20	278.0	482.5	40.8,40.8
30	591.9	573.8	536.8	523.2	538.5	560.9	584.8	597.7	20- 30	308.6	791.1	66.9,66.9
40	144.3	144.8	138.2	138.3	141.7	142.4	136.3	138.5	30- 40	175.2	966.3	81.7,81.7
50	91.38	91.54	88.70	86.14	84.95	85.85	88.59	90.79	40- 50	90.28	1057	89.3,89.3
60	40.52	41.25	41.95	42.36	42.05	41.10	40.39	40.31	50- 60	55.27	1112	94,94
70	31.24	32.06	32.86	33.21	32.77	31.83	31.13	30.98	60- 70	36.69	1149	97.1,97.1
80	15.96	16.84	17.48	17.54	17.11	16.20	15.60	15.61	70- 80	25.77	1174	99.3,99.3
90	0.1564	0.1127	0.0946	0.1859	0.2037	0.1273	0.1310	0.1276	80- 90	8.472	1183	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): 1014.3 lm

%lum = 85.8%

%lamp = 85.8%

Conical surface Flux(120deg): 1111.9 lm

%lum = 94.0%

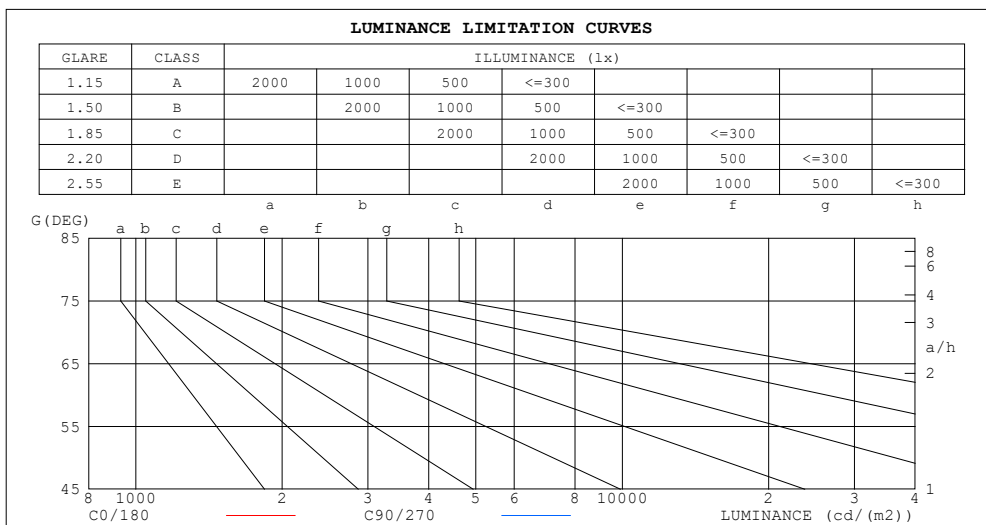
%lamp = 94.0%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:23 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:14.30W PF:0.9291 Lamp Flux:1182.82x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_350mA_4000K CRI90_24 DEG		
MFR.: DARKON		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	68813	73782
80	70754	77453
75	70798	75543
70	70302	73921
65	66136	69294
60	62379	64558
55	82727	83705
50	109437	106171
45	131670	128860

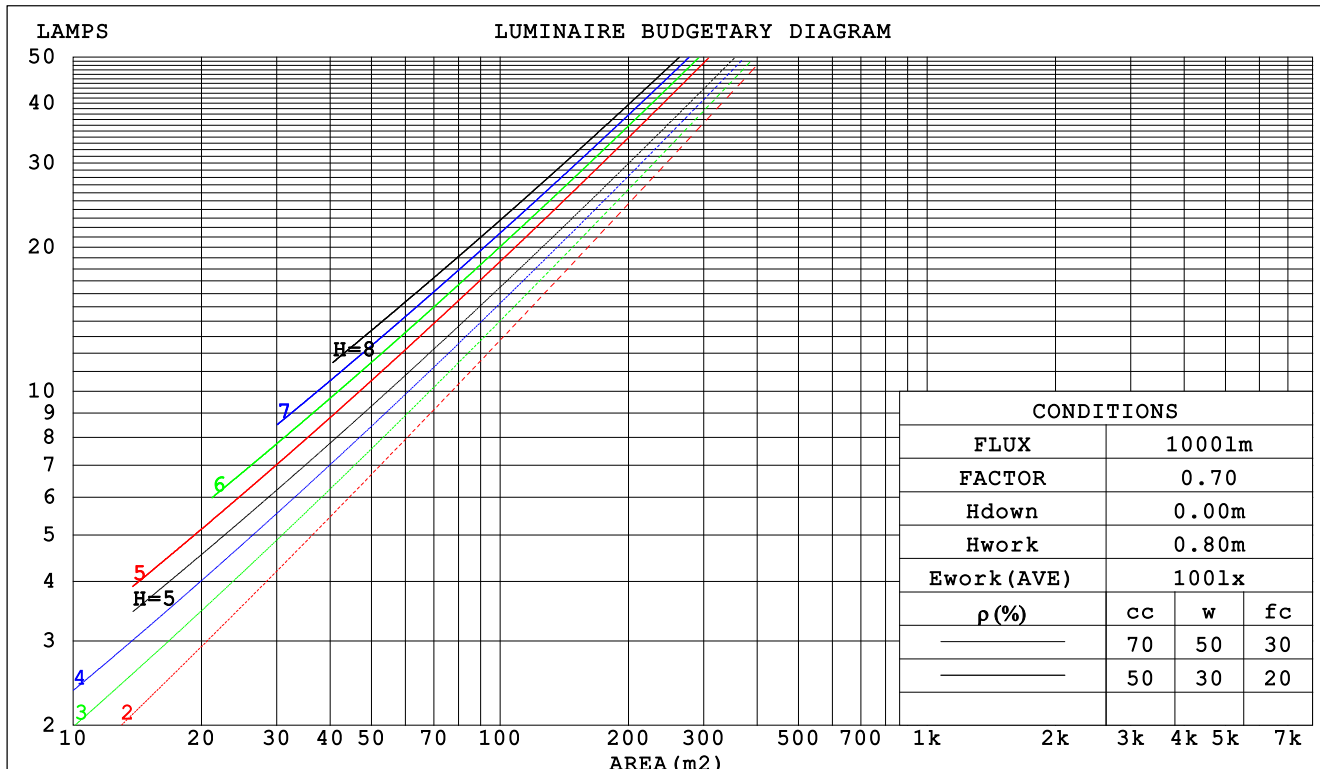
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:23 February 2023

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:14.30W PF:0.9291 Lamp Flux:1182.82x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_350mA_4000K CRI90_24 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	1.07	1.04	1.07	1.05	1.02	1.03	1.01	.99	.99	.98	.96	.96	.95	.93	.92
2.0	1.01	.96	.93	.99	.95	.92	.96	.92	.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	.78
4.0	.87	.81	.77	.86	.80	.76	.84	.79	.75	.82	.78	.74	.80	.76	.74	.72
5.0	.82	.75	.71	.81	.75	.71	.79	.74	.70	.77	.73	.69	.76	.72	.69	.67
6.0	.77	.70	.66	.76	.70	.66	.74	.69	.65	.73	.68	.65	.72	.68	.64	.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	.67	.62	.58	.66	.61	.57	.65	.60	.57	.56
9.0	.65	.59	.55	.64	.59	.55	.64	.58	.55	.63	.58	.54	.62	.57	.54	.53
10.0	.62	.56	.52	.61	.56	.52	.61	.55	.52	.60	.55	.52	.59	.55	.52	.50



C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:JEFF

Test Date:23 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:14.30W PF:0.9291 Lamp Flux:1182.82x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_350mA_4000K CRI90_24 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	.203	.116	.037	.197	.112	.036	.184	.105	.034	.172	.099	.032	.161	.094	.030		
2.0	.191	.105	.032	.185	.102	.031	.175	.097	.030	.165	.092	.029	.156	.088	.028		
3.0	.179	.095	.029	.174	.093	.028	.165	.089	.027	.156	.086	.026	.148	.082	.025		
4.0	.168	.087	.026	.163	.086	.025	.155	.082	.025	.148	.079	.024	.141	.077	.023		
5.0	.158	.080	.023	.154	.079	.023	.147	.076	.023	.140	.074	.022	.134	.072	.022		
6.0	.148	.074	.021	.145	.073	.021	.139	.071	.021	.133	.069	.020	.128	.067	.020		
7.0	.140	.069	.020	.137	.068	.020	.132	.067	.019	.127	.065	.019	.122	.063	.019		
8.0	.133	.065	.018	.130	.064	.018	.126	.063	.018	.121	.061	.018	.117	.060	.017		
9.0	.126	.061	.017	.124	.060	.017	.120	.059	.017	.116	.058	.017	.112	.057	.016		
10.0	.120	.058	.016	.118	.057	.016	.114	.056	.016	.111	.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	.173	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.049	.019	.017	.016		
2.0	.159	.132	.110	.136	.114	.095	.093	.079	.066	.054	.046	.039	.017	.015	.013		
3.0	.147	.114	.087	.126	.098	.076	.086	.068	.053	.050	.040	.031	.016	.013	.010		
4.0	.137	.099	.070	.117	.086	.061	.081	.060	.043	.047	.035	.026	.015	.011	.008		
5.0	.128	.088	.058	.110	.076	.050	.076	.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	.097	.061	.036	.067	.043	.025	.039	.025	.015	.013	.008	.005		
8.0	.107	.065	.035	.092	.056	.031	.064	.039	.022	.037	.023	.013	.012	.008	.004		
9.0	.102	.059	.031	.088	.052	.027	.061	.036	.019	.035	.021	.011	.011	.007	.004		
10.0	.097	.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 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:14.30W PF:0.9291 Lamp Flux:1182.82x1 lm										
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_350mA_4000K						CRI90_24 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	25.6	26.6	25.8	26.7	26.9	25.5	26.5	25.7	26.7	26.8
3H	26.4	27.4	26.7	27.6	27.8	26.5	27.4	26.7	27.6	27.8
4H	26.9	27.8	27.2	28.1	28.3	27.0	27.9	27.3	28.1	28.4
6H	27.4	28.2	27.7	28.5	28.7	27.5	28.4	27.8	28.6	28.9
8H	27.6	28.4	27.9	28.6	28.9	27.8	28.6	28.1	28.8	29.1
12H	27.7	28.5	28.0	28.8	29.0	27.9	28.7	28.2	28.9	29.2
4H 2H	25.8	26.7	26.1	26.9	27.1	25.7	26.6	26.0	26.8	27.1
3H	27.0	27.7	27.3	28.0	28.3	27.0	27.8	27.3	28.0	28.3
4H	27.6	28.3	28.0	28.7	29.0	27.7	28.4	28.1	28.7	29.1
6H	28.3	28.9	28.6	29.2	29.6	28.4	29.1	28.8	29.4	29.7
8H	28.5	29.1	28.9	29.5	29.8	28.7	29.3	29.1	29.7	30.0
12H	28.7	29.2	29.1	29.6	30.0	28.9	29.5	29.3	29.8	30.2
8H 4H	27.9	28.5	28.3	28.8	29.2	28.0	28.6	28.4	28.9	29.3
6H	28.7	29.2	29.1	29.6	30.0	28.9	29.3	29.3	29.7	30.2
8H	29.1	29.5	29.5	29.9	30.4	29.3	29.7	29.7	30.1	30.5
12H	29.3	29.7	29.8	30.2	30.6	29.6	29.9	30.0	30.4	30.8
12H 4H	27.9	28.5	28.3	28.8	29.2	28.0	28.5	28.4	28.9	29.3
6H	28.8	29.2	29.2	29.6	30.1	28.9	29.4	29.4	29.8	30.2
8H	29.2	29.6	29.7	30.0	30.5	29.4	29.7	29.8	30.2	30.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
2.0H	+ 0.9 / - 0.7					+ 0.8 / - 0.6				

CIE Pub.117 Corrected 1183 lm Total Lamp Luminous Flux. (8log(F/F0) = 0.6)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:23 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:14.30W PF:0.9291 Lamp Flux:1182.82x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_350mA_4000K CRI90_24 DEG		
MFR.: DARKON		

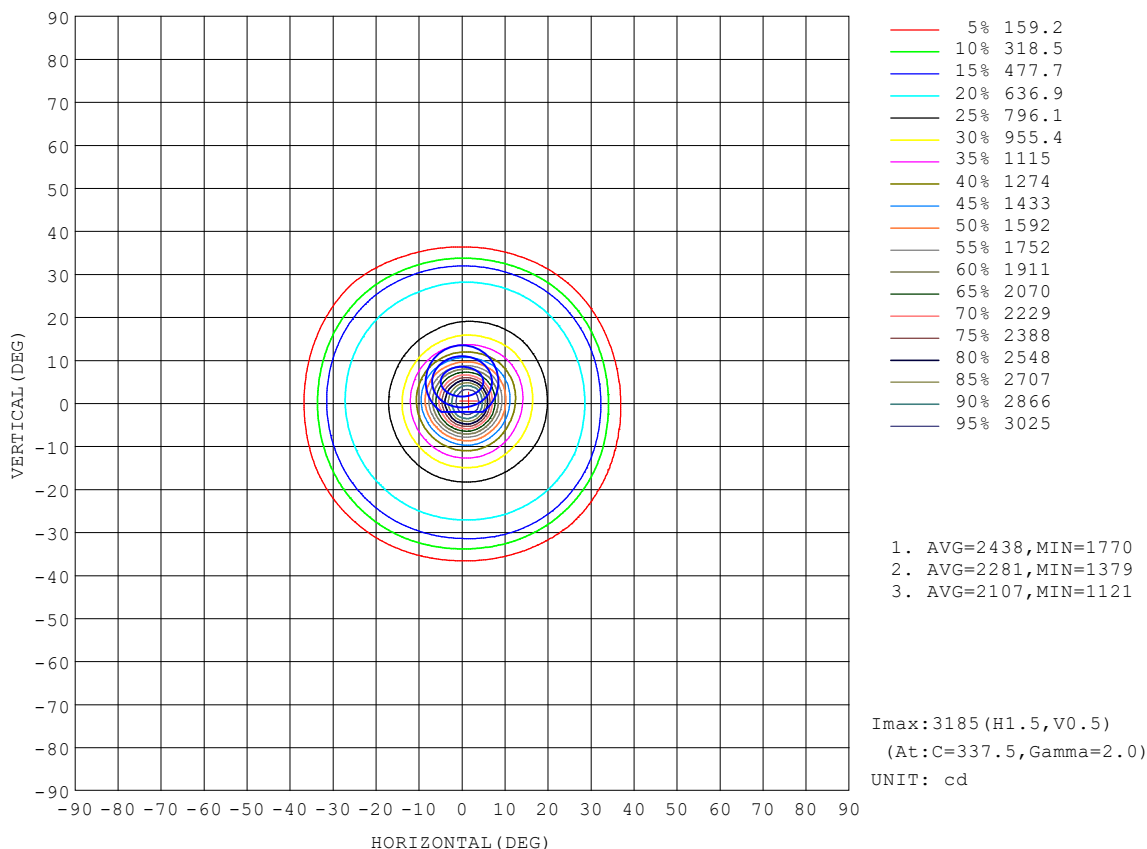
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	80	73	68	80	72	68	79	72	68	64
0.80	88	81	76	88	81	76	86	80	76	72
1.00	94	87	82	93	86	82	91	86	81	77
1.25	98	92	88	97	91	87	95	90	86	81
1.50	102	96	91	100	95	91	98	93	90	85
2.00	105	100	96	104	99	95	101	97	94	88
2.50	107	103	99	106	101	98	102	99	96	90
3.00	109	105	102	108	104	101	104	101	98	92
4.00	112	108	106	110	107	104	106	104	101	94
5.00	113	110	108	111	109	106	107	105	103	95
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 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:14.30W PF:0.9291 Lamp Flux:1182.82x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_350mA_4000K CRI90_24 DEG		
MFR.: DARKON		

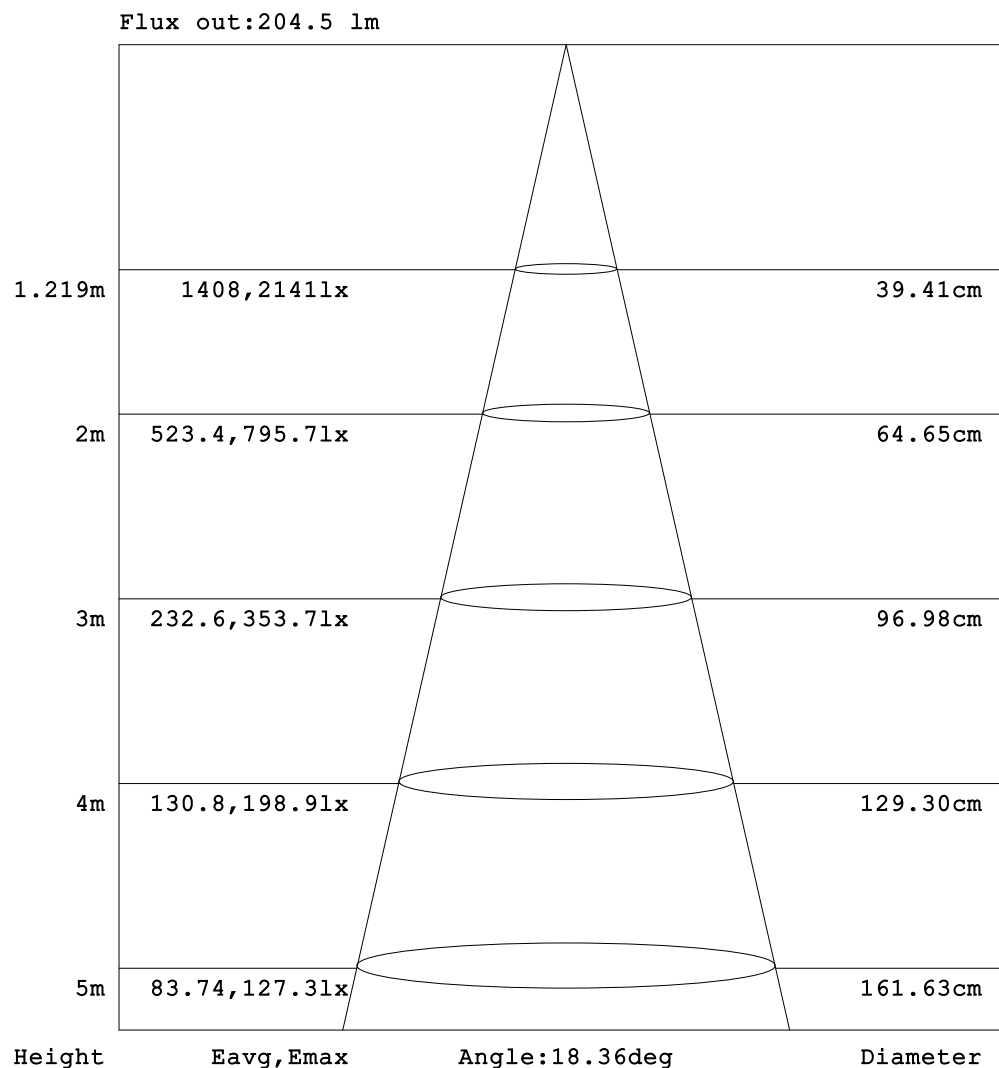


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:23 February 2023

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:14.30W PF:0.9291 Lamp Flux:1182.82x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_350mA_4000K CRI90_24 DEG		
MFR.: DARKON		



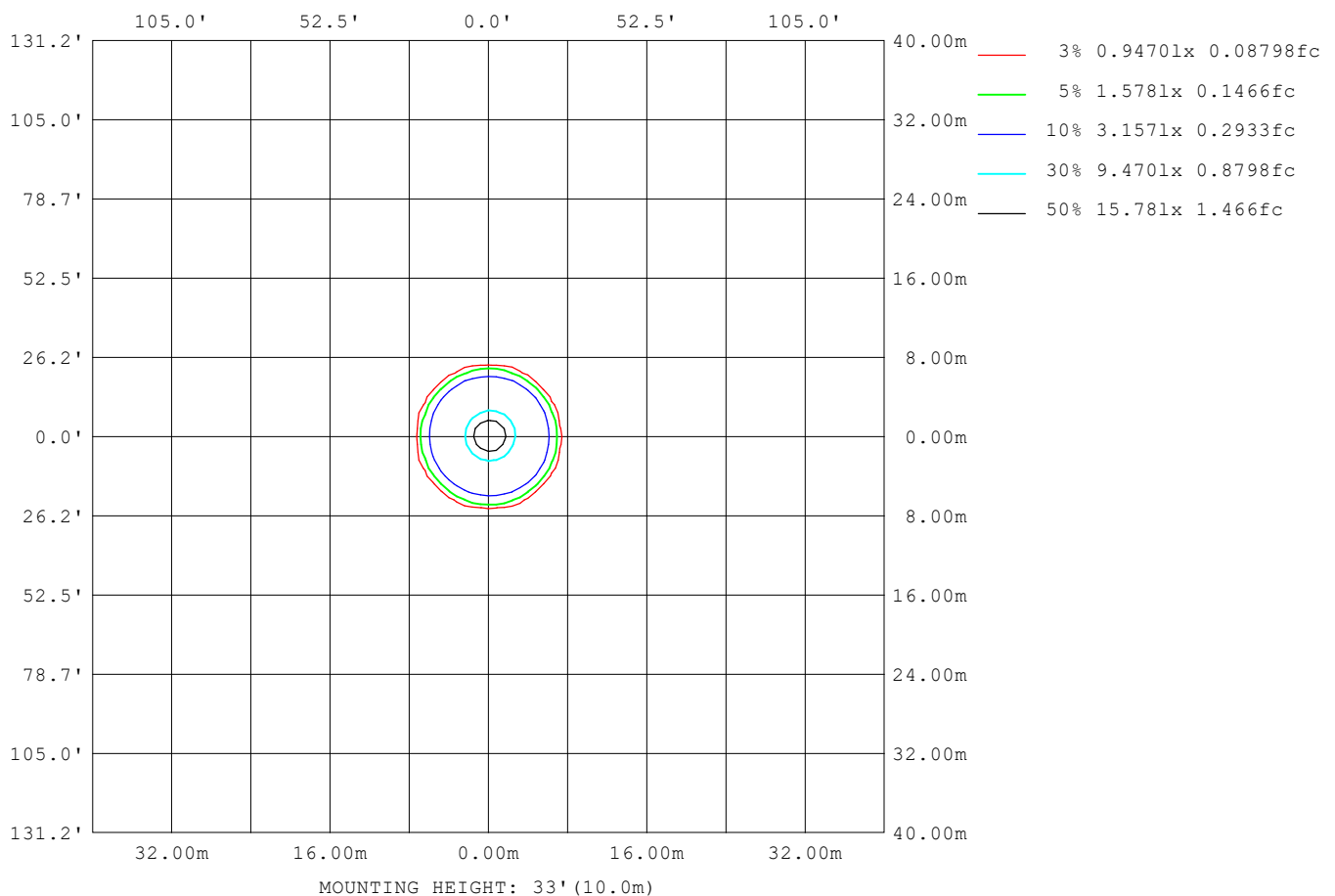
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:23 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:14.30W PF:0.9291 Lamp Flux:1182.82x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_350mA_4000K CRI90_24 DEG		
MFR.: DARKON		



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:23 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:14.30W PF:0.9291 Lamp Flux:1182.82x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_350mA_4000K CRI90_24 DEG		
MFR.: DARKON		

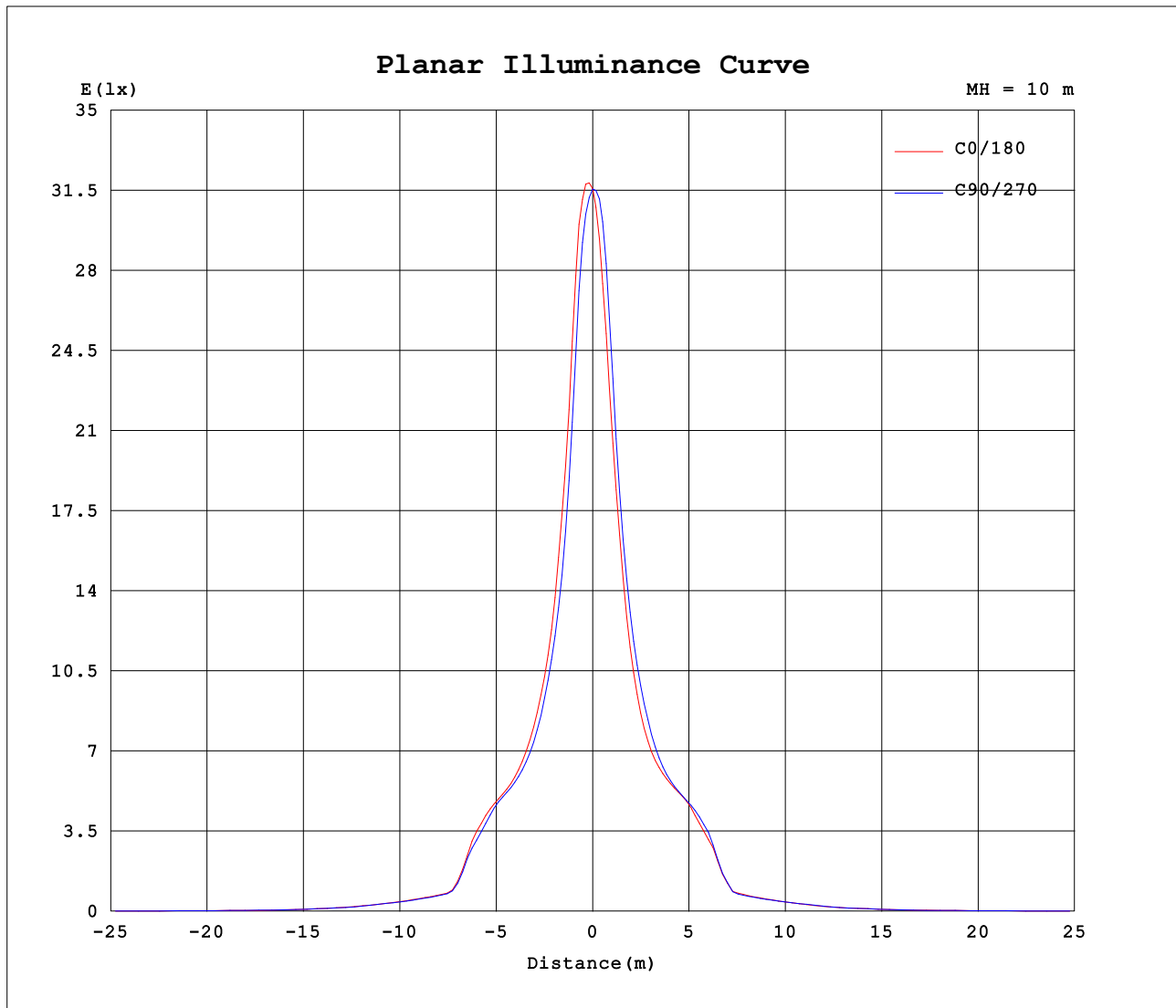
AvgL	cd/m2
L_0~180 (65) av	67936
L_0~180 (75) av	72675
L_0~180 (85) av	69406
L_90~270 (65) av	67830
L_90~270 (75) av	72746
L_90~270 (85) av	69239
L_45 (65) av	67897
L_45 (75) av	72758
L_45 (85) av	69271

Standard: GB/T 29293-2012

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

