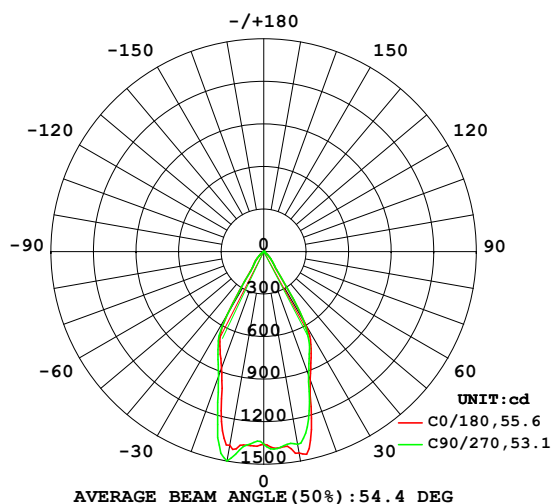


LUMINAIRE PHOTOMETRIC TEST REPORT

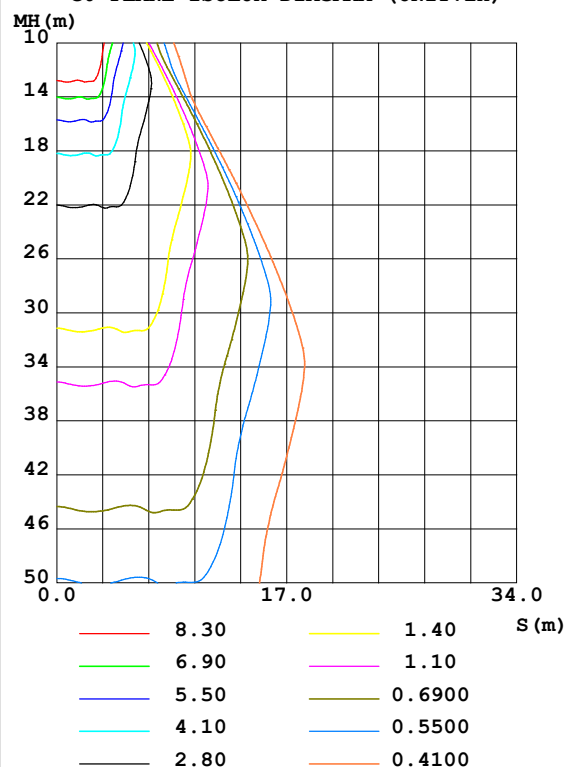
Test:U:239.9V I:0.0641A P:14.29W PF:0.9291 Lamp Flux:1016.35x1 lm		
NAME: DEEP DOWN MINI_GUNMETAL REF_SLE G7 09mm_350mA_4000K CRI90_32 DEG		
MFR.: DARKON		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 71.10 lm/W			
MODEL	SLE G7 09mm 1200lm	Imax(cd)	1498	S/MH(C0/180)	0.78
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.82
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	1016.4	η UP,DN(C0-180)	0.0,50.5
NOMINAL FLUX(lm)	1016.35	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	230	η down(%)	100.0	CIBSE SHR MAX	0.80

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	1441	1421	1380	1357	1386	1470	1498	1453	0- 10	133.2	133.2	13.1,13.1
20	960.0	952.9	928.8	909.7	874.2	890.4	934.0	974.9	10- 20	336.3	469.4	46.2,46.2
30	584.9	594.4	570.7	555.2	519.6	493.5	515.6	569.9	20- 30	347.5	816.9	80.4,80.4
40	101.4	101.3	101.1	98.28	97.08	95.43	97.40	104.0	30- 40	136.2	953.1	93.8,93.8
50	35.32	36.85	36.16	35.38	34.09	33.25	33.97	34.63	40- 50	49.32	1002	98.6,98.6
60	1.260	1.458	1.383	1.267	1.269	1.140	1.062	1.126	50- 60	13.59	1016	100,100
70	0.0950	0.0948	0.1020	0.0946	0.0509	0.0546	0.0543	0.0546	60- 70	0.2942	1016	100,100
80	0.0183	0.0219	0.0255	0.0436	0.0292	0	0	0	70- 80	0.0353	1016	100,100
90	0	0	0	0.0145	0.0292	0	0	0	80- 90	0.0105	1016	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): 982.98 lm

%lum = 96.7%

%lamp = 96.7%

Conical surface Flux(120deg): 1016 lm

%lum = 100.0%

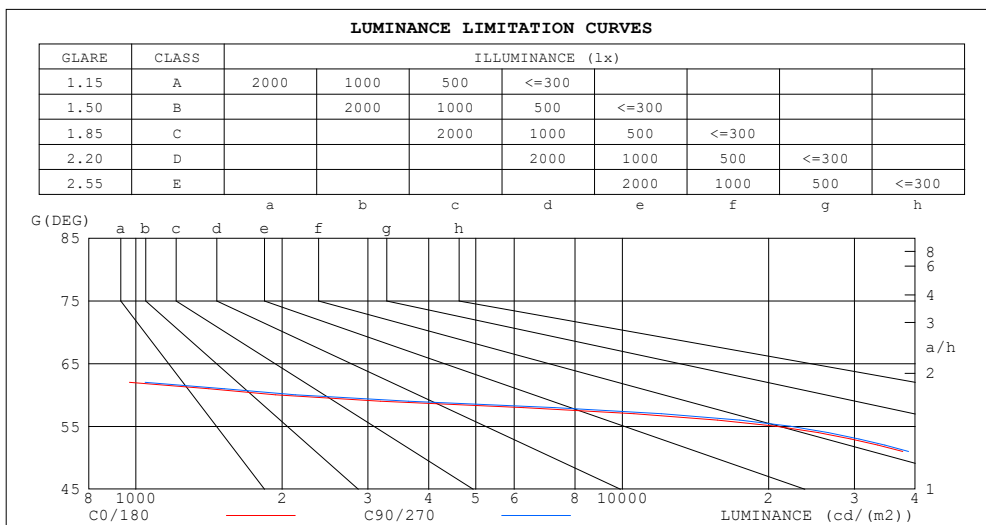
%lamp = 100.0%

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:0.9291 Lamp Flux:1016.35x1 lm		
NAME: DEEP DOWN MINI_GUNMETAL REF_SLE G7 09mm_350mA_4000K CRI90_32 DEG		
MFR.: DARKON		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	64	65
80	81	113
75	130	162
70	214	230
65	286	292
60	1936	2129
55	20688	22150
50	42222	43307
45	69426	70563

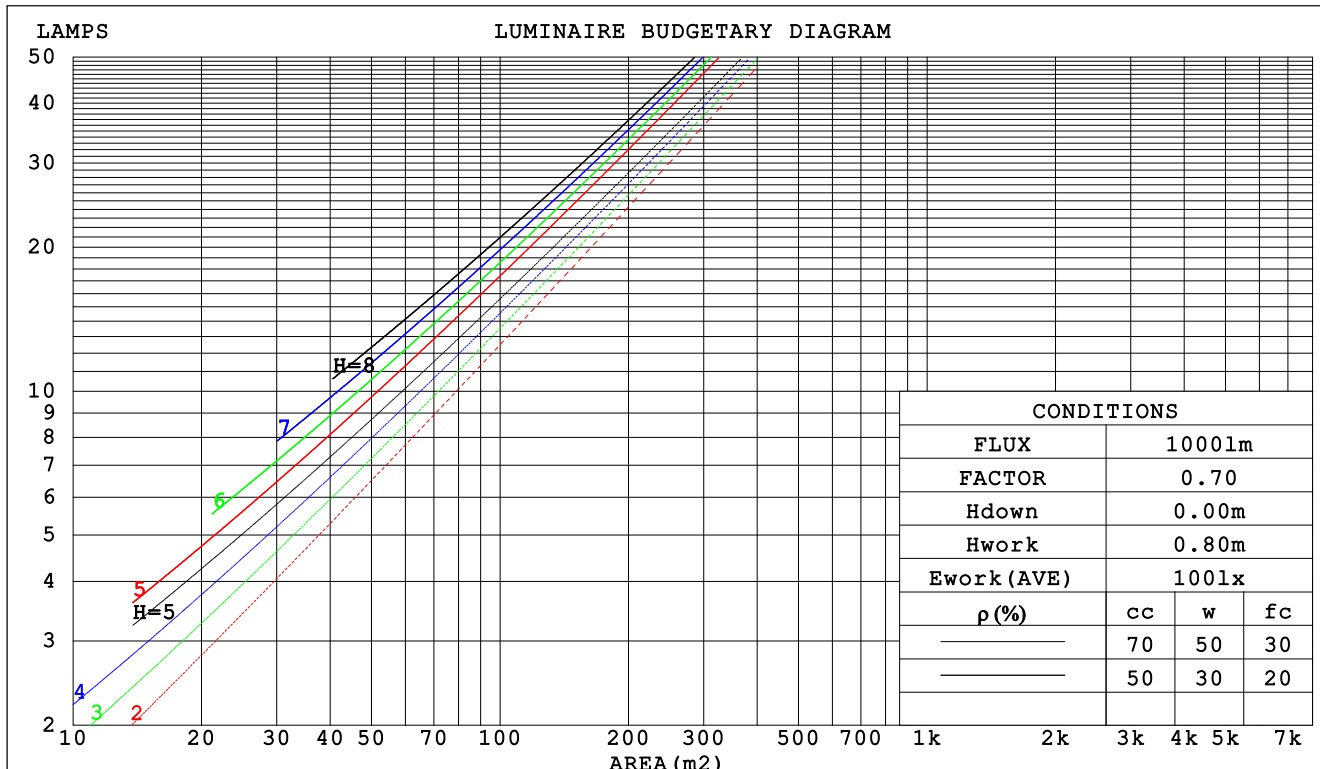
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:24 February 2023

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:0.9291 Lamp Flux:1016.35x1 lm		
NAME: DEEP DOWN MINI_GUNMETAL REF_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	1.00
1.0	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96	.94
2.0	1.04	1.00	.97	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.93	.92	.90	.88
3.0	.98	.93	.89	.96	.92	.89	.94	.90	.87	.91	.88	.86	.89	.87	.84	.83
4.0	.92	.87	.83	.91	.86	.82	.89	.84	.81	.87	.83	.80	.85	.82	.79	.78
5.0	.86	.81	.77	.86	.80	.77	.84	.79	.76	.82	.78	.75	.81	.77	.75	.73
6.0	.82	.76	.72	.81	.76	.72	.79	.75	.71	.78	.74	.71	.77	.73	.70	.69
7.0	.77	.72	.68	.77	.71	.68	.75	.71	.67	.74	.70	.67	.73	.69	.66	.65
8.0	.73	.68	.64	.73	.67	.64	.72	.67	.63	.71	.66	.63	.70	.66	.63	.62
9.0	.70	.64	.60	.69	.64	.60	.68	.63	.60	.67	.63	.60	.66	.63	.60	.58
10.0	.66	.61	.57	.66	.61	.57	.65	.60	.57	.64	.60	.57	.64	.59	.57	.55



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:0.9291 Lamp Flux:1016.35x1 lm		
NAME: DEEP DOWN MINI_GUNMETAL REF_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	.169	.096	.030	.162	.092	.029	.149	.086	.027	.138	.079	.025	.127	.074	.024	
2.0	.161	.088	.027	.155	.085	.026	.145	.080	.025	.135	.076	.024	.126	.071	.022	
3.0	.153	.081	.024	.148	.079	.024	.139	.075	.023	.131	.072	.022	.123	.068	.021	
4.0	.146	.076	.022	.142	.074	.022	.134	.071	.021	.127	.068	.021	.120	.065	.020	
5.0	.139	.071	.020	.135	.069	.020	.129	.067	.020	.122	.065	.019	.117	.062	.019	
6.0	.133	.066	.019	.129	.065	.019	.124	.063	.018	.118	.061	.018	.113	.059	.018	
7.0	.127	.063	.018	.124	.062	.018	.119	.060	.017	.114	.058	.017	.109	.057	.017	
8.0	.121	.059	.017	.119	.059	.017	.114	.057	.016	.110	.056	.016	.106	.054	.016	
9.0	.116	.056	.016	.114	.056	.016	.110	.054	.015	.106	.053	.015	.103	.052	.015	
10.0	.112	.054	.015	.110	.053	.015	.106	.052	.015	.103	.051	.014	.099	.050	.014	

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	.171	.157	.146	.146	.135	.125	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.155	.133	.114	.133	.114	.098	.091	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.142	.114	.091	.122	.098	.079	.084	.068	.055	.048	.040	.033	.016	.013	.011	
4.0	.131	.099	.074	.113	.085	.064	.077	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.122	.087	.061	.105	.075	.053	.072	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.115	.078	.051	.099	.067	.044	.068	.047	.031	.039	.028	.019	.013	.009	.006	
7.0	.108	.070	.043	.093	.061	.038	.064	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.102	.064	.037	.088	.055	.032	.061	.039	.023	.036	.023	.014	.011	.007	.005	
9.0	.097	.058	.032	.084	.051	.028	.058	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.093	.054	.028	.080	.047	.024	.056	.033	.017	.032	.019	.010	.010	.006	.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:0.9291 Lamp Flux:1016.35x1 lm										
NAME: DEEP DOWN MINI_GUNMETAL REF_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	21.6	22.5	21.8	22.7	22.8	21.8	22.7	22.0	22.9	23.0
3H	21.5	22.3	21.7	22.5	22.7	21.6	22.5	21.9	22.7	22.9
4H	21.4	22.1	21.6	22.4	22.6	21.6	22.3	21.8	22.6	22.8
6H	21.3	22.0	21.6	22.2	22.5	21.5	22.2	21.8	22.4	22.7
8H	21.2	21.9	21.5	22.2	22.4	21.4	22.1	21.7	22.4	22.6
12H	21.2	21.9	21.5	22.1	22.4	21.4	22.1	21.7	22.3	22.6
4H 2H	21.4	22.2	21.7	22.4	22.6	21.6	22.4	21.9	22.6	22.8
3H	21.2	21.9	21.5	22.1	22.4	21.4	22.1	21.7	22.3	22.6
4H	21.1	21.7	21.5	22.0	22.3	21.3	21.9	21.7	22.2	22.5
6H	21.0	21.6	21.4	21.9	22.2	21.2	21.7	21.6	22.1	22.4
8H	21.0	21.5	21.4	21.8	22.2	21.2	21.7	21.6	22.0	22.4
12H	20.9	21.4	21.3	21.7	22.1	21.1	21.6	21.5	21.9	22.3
8H 4H	21.0	21.5	21.4	21.8	22.2	21.2	21.7	21.6	22.0	22.4
6H	20.9	21.3	21.3	21.7	22.1	21.1	21.5	21.5	21.9	22.3
8H	20.8	21.2	21.3	21.6	22.0	21.0	21.4	21.4	21.8	22.2
12H	20.8	21.1	21.2	21.5	22.0	20.9	21.2	21.4	21.7	22.2
12H 4H	20.9	21.4	21.3	21.7	22.1	21.1	21.6	21.5	21.9	22.3
6H	20.8	21.2	21.3	21.6	22.0	21.0	21.4	21.4	21.8	22.2
8H	20.8	21.1	21.2	21.5	22.0	20.9	21.2	21.4	21.7	22.2
Variations with the observer position at spacings:										
S = 1.0H	+ 2.4 / -11.2					+ 2.4 / -10.6				
1.5H	+ 3.0 / - 5.4					+ 2.9 / - 5.3				
2.0H	+ 5.4 / -28.9					+ 5.4 / -28.6				

CIE Pub.117 Corrected 1016 lm Total Lamp Luminous Flux. (8log(F/F0) = 0.1)

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:

UTILIZATION FACTORS TABLE

Test:U:239.9V I:0.0641A P:14.29W PF:0.9291 Lamp Flux:1016.35x1 lm		
NAME: DEEP DOWN MINI_GUNMETAL REF_SLE G7 09mm_350mA_4000K CRI90_32 DEG		
MFR.: DARKON		

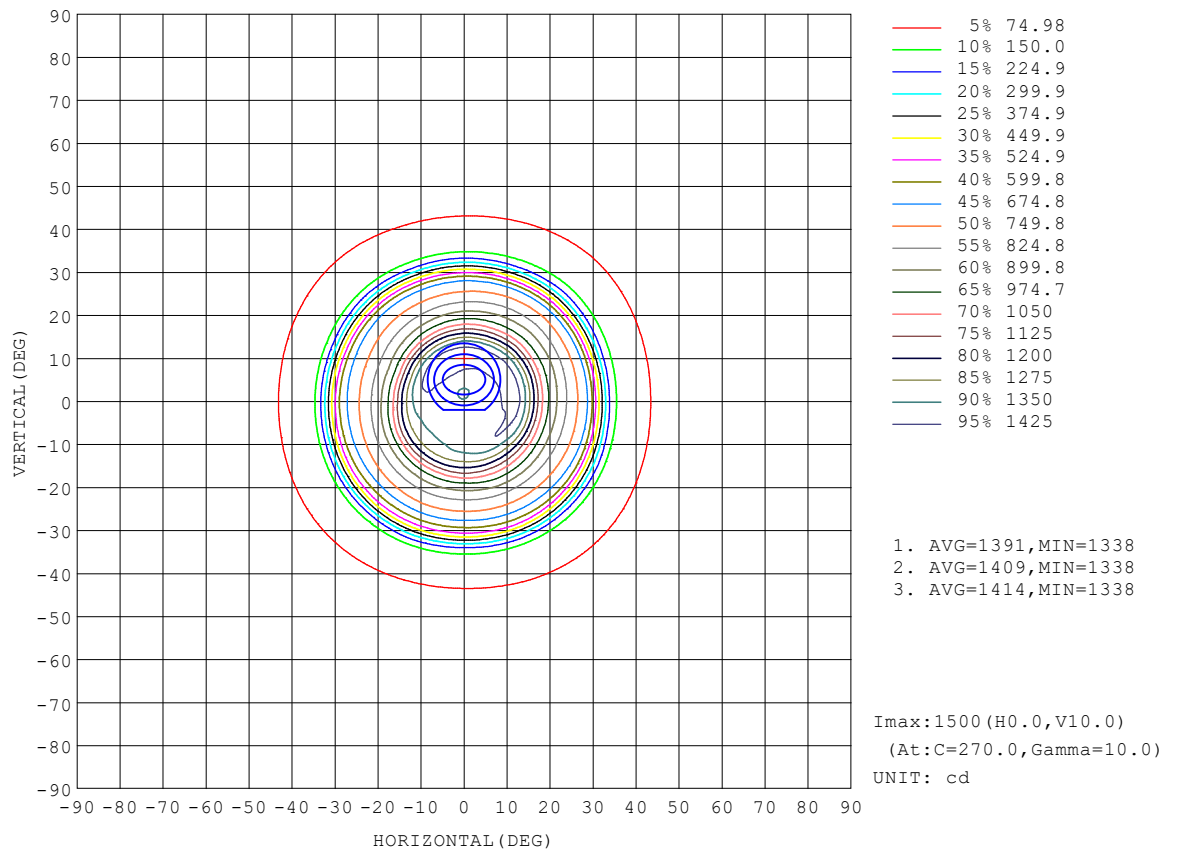
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	88	81	77	87	81	77	86	81	77	74
0.80	95	89	86	94	89	85	93	88	85	81
1.00	100	94	91	99	94	90	97	93	90	86
1.25	104	99	95	103	98	95	101	97	94	90
1.50	106	102	98	105	101	98	103	99	97	92
2.00	109	105	102	107	104	101	105	102	99	94
2.50	110	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	96
4.00	114	111	109	112	110	108	108	106	105	98
5.00	115	113	111	113	111	110	109	108	106	99
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNM = 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:0.9291 Lamp Flux:1016.35x1 lm		
NAME: DEEP DOWN MINI_GUNMETAL REF_SLE G7 09mm_350mA_4000K CRI90_32 DEG		
MFR.: DARKON		

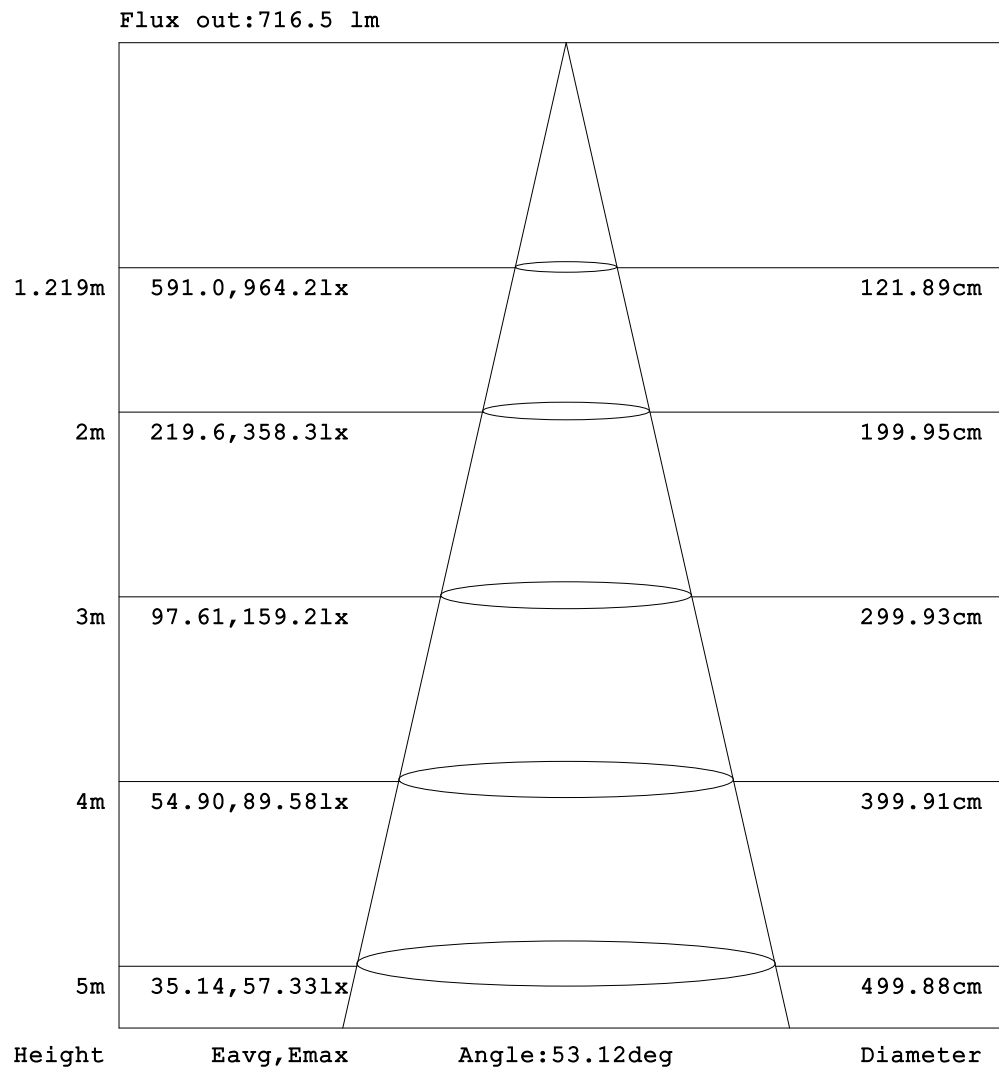


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:24 February 2023

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:0.9291 Lamp Flux:1016.35x1 lm		
NAME: DEEP DOWN MINI_GUNMETAL REF_SLE G7 09mm_350mA_4000K CRI90_32 DEG		
MFR.: DARKON		



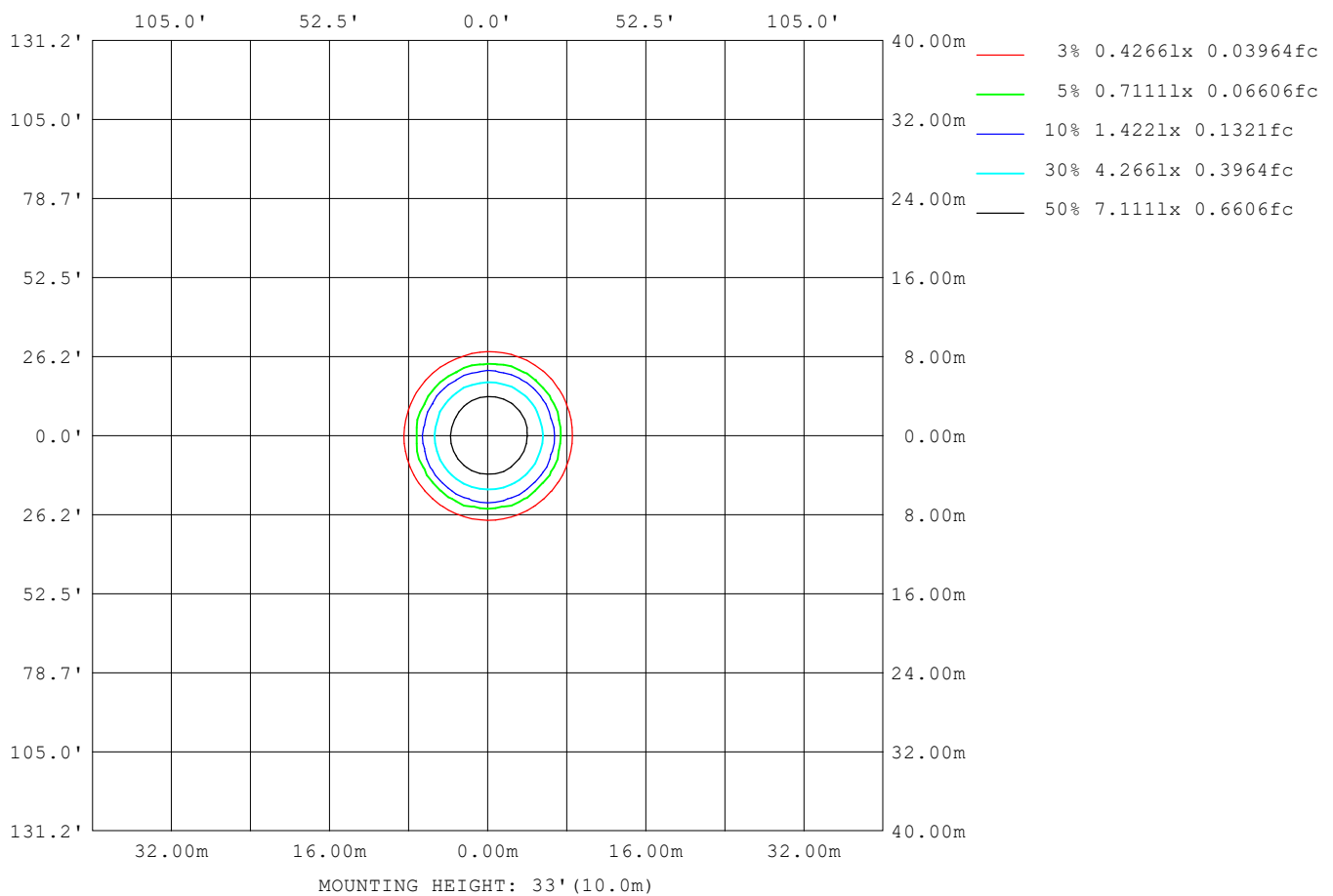
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.9291 Lamp Flux:1016.35x1 lm		
NAME: DEEP DOWN MINI_GUNMETAL REF_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:0.9291 Lamp Flux:1016.35x1 lm		
NAME: DEEP DOWN MINI_GUNMETAL REF_SLE G7 09mm_350mA_4000K CRI90_32 DEG		
MFR.: DARKON		

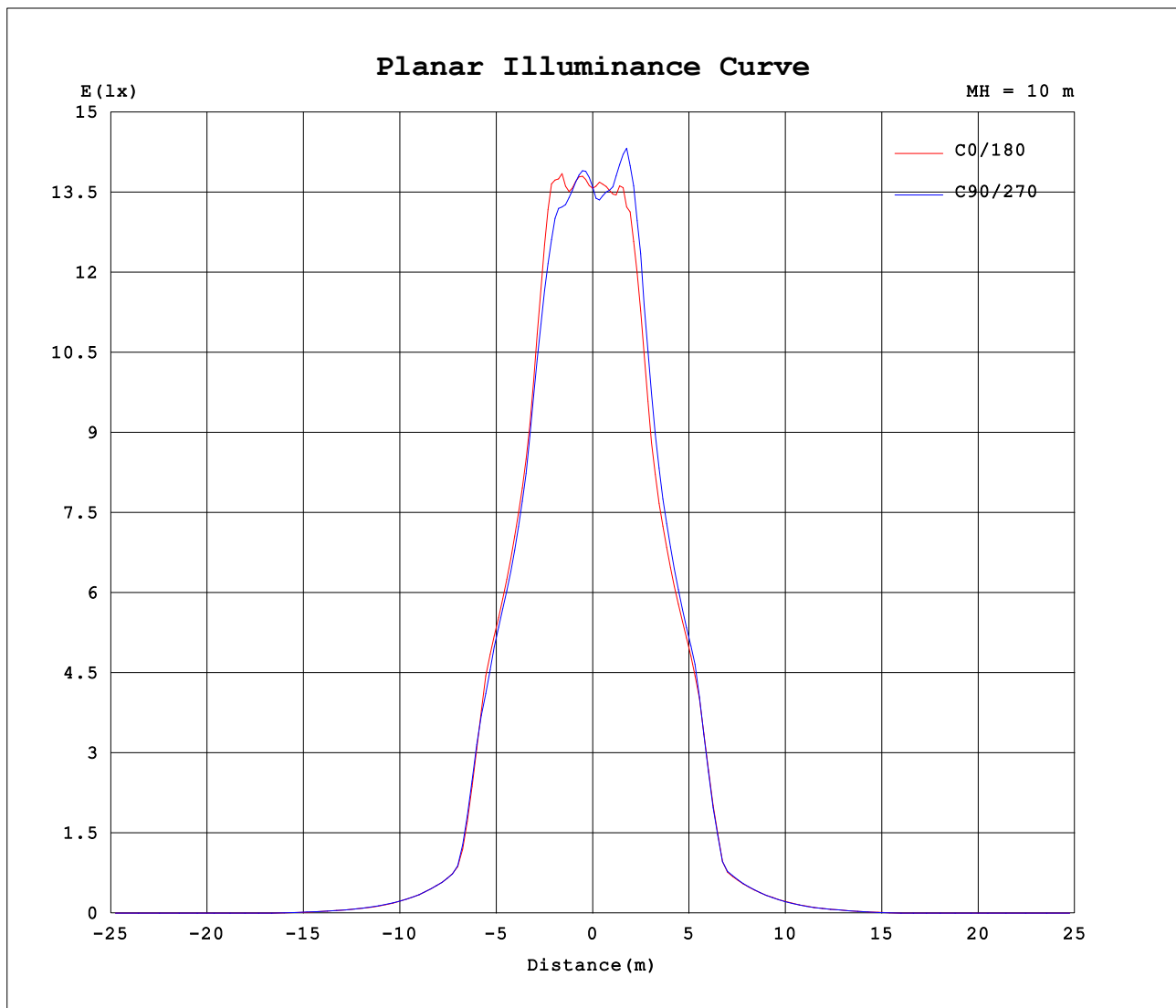
AvgL	cd/m2
L_0~180 (65) av	249
L_0~180 (75) av	108
L_0~180 (85) av	161
L_90~270 (65) av	252
L_90~270 (75) av	81
L_90~270 (85) av	32
L_45 (65) av	240
L_45 (75) av	76
L_45 (85) av	112

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:

