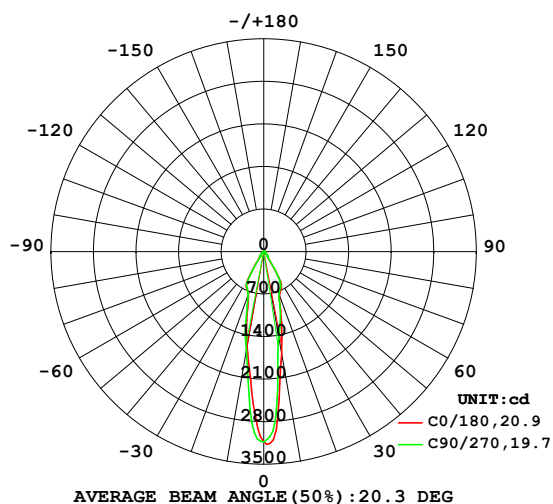


LUMINAIRE PHOTOMETRIC TEST REPORT

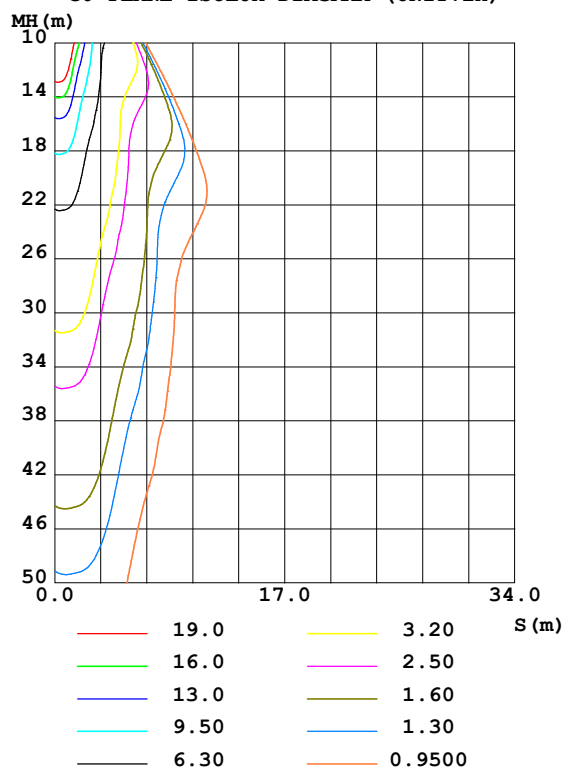
Test:U:239.9V I:0.0641A P:14.29W PF:0.9294 Lamp Flux:1001.82x1 lm		
NAME: DEEP DOWN MINI_GUNMETAL REF_SLE G7 09mm_350mA_4000K CRI90_24 DEG		
MFR.: DARKON		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 70.09 lm/W			
MODEL	SLE G7 09mm 12001m	Imax(cd)	3174	S/MH(C0/180)	0.34
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.36
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	1001.8	η UP,DN(C0-180)	0.0,49.9
NOMINAL FLUX(lm)	1001.82	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.1
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: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	1715	1604	1447	1477	1591	1636	1654	1746	0- 10	208.0	208.0	20.8,20.8
20	765.9	754.4	744.6	736.9	752.0	740.8	757.0	758.0	10- 20	303.8	511.7	51.1,51.1
30	495.0	513.3	505.0	506.3	501.6	478.5	472.1	487.7	20- 30	299.6	811.4	81,81
40	99.33	100.9	99.76	101.6	99.07	94.94	94.38	98.16	30- 40	119.8	931.2	92.9,92.9
50	41.40	43.39	44.73	41.32	38.77	38.65	40.27	40.98	40- 50	55.17	986.3	98.5,98.5
60	1.275	1.319	1.235	1.128	1.049	0.9262	0.9448	1.141	50- 60	15.21	1002	100,100
70	0.0693	0.0729	0.0729	0.0731	0.0433	0.0545	0.0254	0.0254	60- 70	0.2554	1002	100,100
80	0.0073	0.0110	0.0109	0.0328	0.0146	0	0	0	70- 80	0.0225	1002	100,100
90	0	0	0	0.0182	0.0146	0	0	0	80- 90	0.0057	1002	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): 962.97 lm

%lum = 96.1%
%lamp = 96.1%

Conical surface Flux(120deg): 1001.5 lm

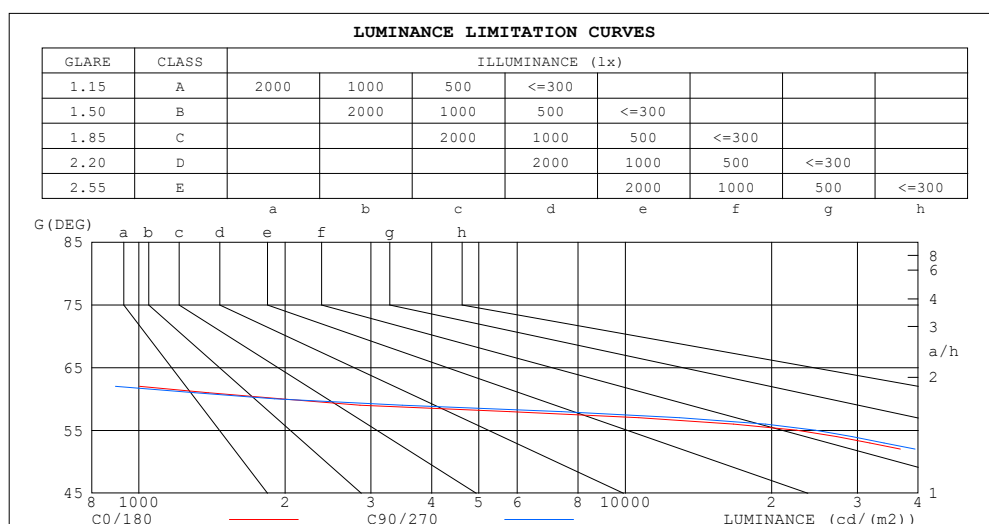
%lum = 100.0%
%lamp = 100.0%

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:0.9294 Lamp Flux:1001.82x1 lm		
NAME: DEEP DOWN MINI_GUNMETAL REF_SLE G7 09mm_350mA_4000K CRI90_24 DEG		
MFR.: DARKON		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	32	0
80	33	48
75	87	108
70	156	164
65	225	232
60	1961	1901
55	22525	24576
50	49543	53550
45	79480	83338

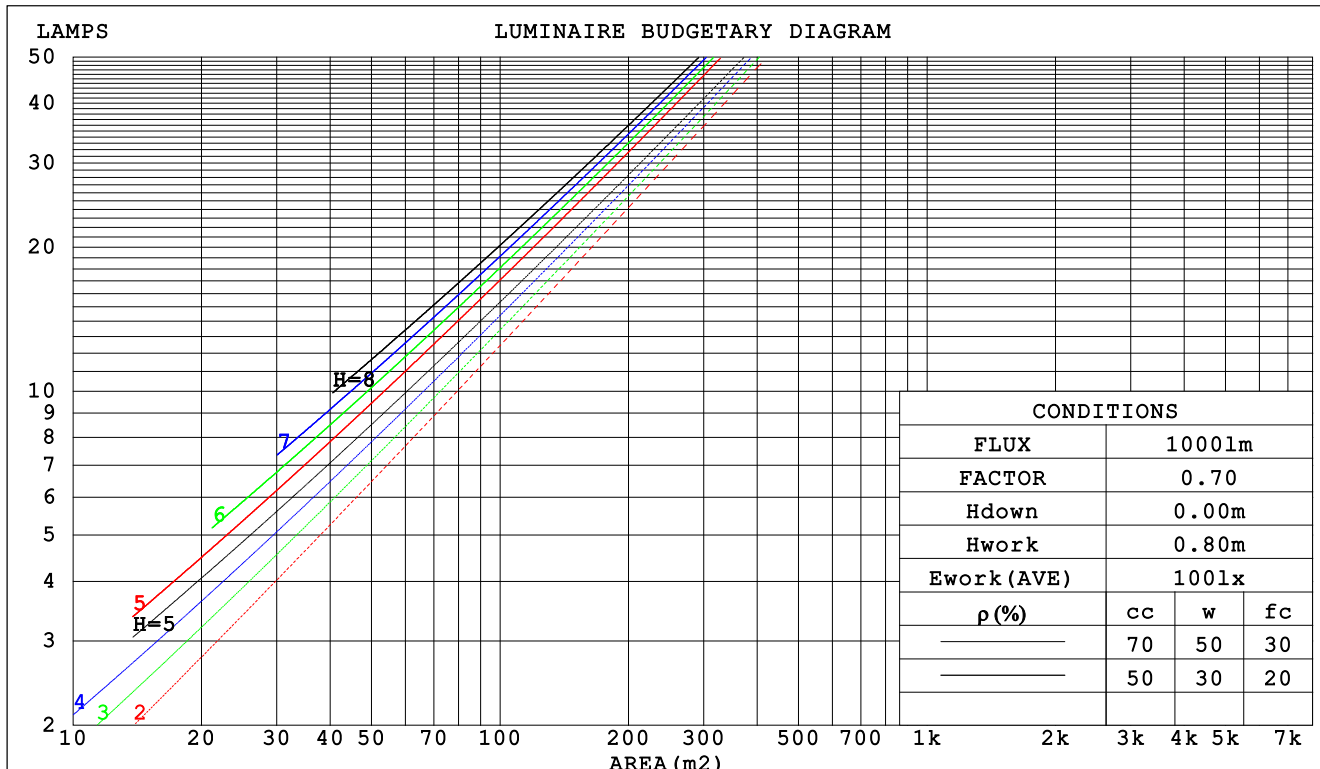
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:24 February 2023

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:0.9294 Lamp Flux:1001.82x1 lm		
NAME: DEEP DOWN MINI_GUNMETAL REF_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	1.12	1.09	1.07	1.09	1.07	1.06	1.05	1.04	1.02	1.02	1.00	.99	.98	.97	.96	.95
2.0	1.05	1.01	.98	1.03	.90	.97	.90	.97	.95	.97	.95	.93	.94	.92	.91	.89
3.0	.99	.94	.90	.97	.93	.90	.95	.91	.88	.92	.89	.87	.90	.88	.86	.84
4.0	.93	.88	.84	.92	.87	.84	.90	.86	.83	.88	.85	.82	.86	.83	.81	.80
5.0	.88	.83	.79	.87	.82	.79	.85	.81	.78	.84	.80	.77	.82	.79	.77	.75
6.0	.84	.78	.74	.83	.78	.74	.81	.77	.74	.80	.76	.73	.79	.75	.73	.71
7.0	.79	.74	.70	.79	.74	.70	.78	.73	.70	.76	.72	.69	.75	.72	.69	.68
8.0	.76	.70	.67	.75	.70	.67	.74	.70	.66	.73	.69	.66	.72	.69	.66	.65
9.0	.72	.67	.64	.72	.67	.63	.71	.66	.63	.70	.66	.63	.69	.66	.63	.62
10.0	.69	.64	.61	.69	.64	.61	.68	.63	.60	.67	.63	.60	.67	.63	.60	.59



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:0.9294 Lamp Flux:1001.82x1 lm		
NAME: DEEP DOWN MINI_GUNMETAL REF_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	.163	.093	.029	.156	.089	.028	.144	.082	.026	.132	.076	.024	.122	.070	.023		
2.0	.155	.085	.026	.149	.082	.025	.139	.077	.024	.129	.073	.023	.120	.068	.021		
3.0	.147	.078	.023	.142	.076	.023	.133	.072	.022	.125	.069	.021	.118	.065	.020		
4.0	.140	.073	.021	.136	.071	.021	.128	.068	.020	.121	.065	.020	.114	.062	.019		
5.0	.133	.068	.020	.129	.066	.019	.123	.064	.019	.117	.062	.018	.111	.059	.018		
6.0	.127	.063	.018	.123	.062	.018	.118	.060	.018	.112	.058	.017	.107	.057	.017		
7.0	.121	.060	.017	.118	.059	.017	.113	.057	.016	.108	.056	.016	.104	.054	.016		
8.0	.115	.056	.016	.113	.056	.016	.109	.054	.015	.104	.053	.015	.100	.052	.015		
9.0	.111	.053	.015	.108	.053	.015	.104	.052	.015	.101	.050	.014	.097	.049	.014		
10.0	.106	.051	.014	.104	.050	.014	.100	.049	.014	.097	.048	.014	.094	.047	.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	.170	.157	.146	.146	.135	.126	.100	.093	.087	.057	.054	.051	.018	.017	.016		
2.0	.154	.133	.115	.132	.114	.099	.090	.079	.069	.052	.046	.040	.017	.015	.013		
3.0	.141	.113	.092	.121	.098	.079	.083	.068	.056	.048	.040	.033	.015	.013	.011		
4.0	.130	.099	.075	.111	.085	.065	.077	.059	.046	.044	.035	.027	.014	.011	.009		
5.0	.121	.087	.062	.104	.075	.054	.071	.052	.038	.041	.031	.022	.013	.010	.007		
6.0	.113	.077	.052	.097	.067	.045	.067	.047	.032	.039	.028	.019	.013	.009	.006		
7.0	.106	.069	.044	.091	.060	.038	.063	.042	.027	.037	.025	.016	.012	.008	.005		
8.0	.100	.063	.038	.086	.055	.033	.060	.038	.023	.035	.023	.014	.011	.007	.005		
9.0	.095	.058	.033	.082	.050	.029	.057	.035	.020	.033	.021	.012	.011	.007	.004		
10.0	.090	.053	.029	.078	.046	.025	.054	.033	.018	.031	.019	.011	.010	.006	.004		

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:0.9294 Lamp Flux:1001.82x1 lm										
NAME: DEEP DOWN MINI_GUNMETAL REF_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	21.2	22.1	21.5	22.3	22.4	21.5	22.4	21.7	22.5	22.7
3H	21.1	21.9	21.3	22.1	22.3	21.3	22.1	21.6	22.3	22.5
4H	21.0	21.7	21.3	21.9	22.2	21.3	22.0	21.5	22.2	22.4
6H	20.9	21.6	21.2	21.8	22.1	21.2	21.9	21.5	22.1	22.3
8H	20.9	21.5	21.2	21.8	22.0	21.1	21.8	21.4	22.0	22.3
12H	20.8	21.5	21.1	21.7	22.0	21.1	21.7	21.4	22.0	22.3
4H 2H	21.0	21.8	21.3	22.0	22.2	21.3	22.0	21.6	22.2	22.5
3H	20.8	21.5	21.2	21.7	22.0	21.1	21.7	21.4	22.0	22.3
4H	20.7	21.3	21.1	21.6	21.9	21.0	21.6	21.4	21.9	22.2
6H	20.6	21.2	21.0	21.5	21.8	20.9	21.4	21.3	21.8	22.1
8H	20.6	21.1	21.0	21.4	21.8	20.9	21.3	21.3	21.7	22.1
12H	20.5	21.0	21.0	21.3	21.7	20.8	21.2	21.2	21.6	22.0
8H 4H	20.6	21.1	21.0	21.4	21.8	20.9	21.3	21.3	21.7	22.1
6H	20.5	20.9	20.9	21.3	21.7	20.8	21.1	21.2	21.5	22.0
8H	20.4	20.8	20.9	21.2	21.6	20.7	21.0	21.1	21.5	21.9
12H	20.4	20.7	20.8	21.1	21.6	20.6	20.9	21.1	21.4	21.8
12H 4H	20.5	21.0	21.0	21.3	21.7	20.8	21.2	21.2	21.6	22.0
6H	20.4	20.8	20.9	21.2	21.6	20.7	21.0	21.1	21.5	21.9
8H	20.4	20.7	20.8	21.1	21.6	20.6	20.9	21.1	21.4	21.8
Variations with the observer position at spacings:										
S = 1.0H	+ 2.5 / -11.8					+ 2.6 / -10.4				
1.5H	+ 2.0 / - 5.3					+ 1.7 / - 5.0				
2.0H	+ 5.5 / -33.5					+ 5.5 / -33.0				

CIE Pub.117 Corrected 1002 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.0)

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:

UTILIZATION FACTORS TABLE

Test:U:239.9V I:0.0641A P:14.29W PF:0.9294 Lamp Flux:1001.82x1 lm		
NAME: DEEP DOWN MINI_GUNMETAL REF_SLE G7 09mm_350mA_4000K CRI90_24 DEG		
MFR.: DARKON		

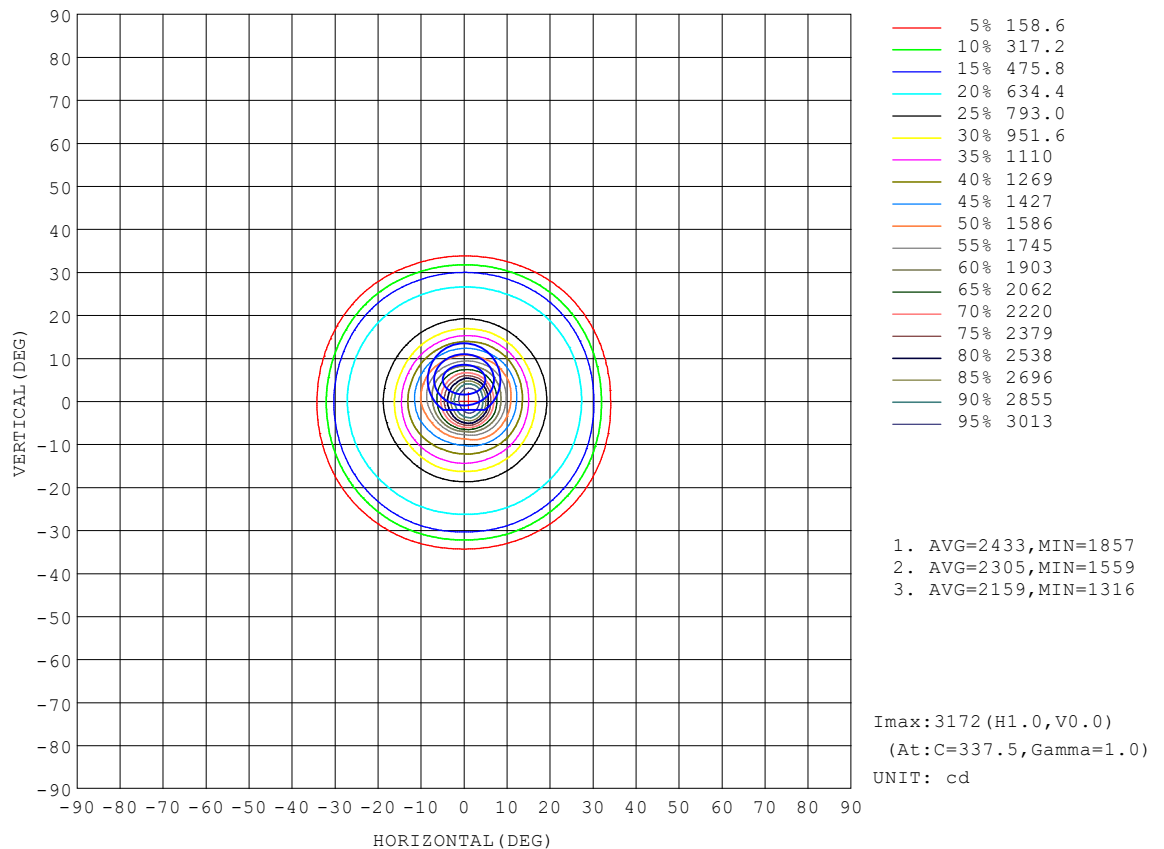
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	86	80	77	86	80	77	73
0.80	95	89	85	94	88	85	93	88	84	81
1.00	99	94	90	98	93	90	97	93	89	85
1.25	103	98	95	102	98	94	100	96	94	89
1.50	106	101	98	105	101	98	103	99	96	92
2.00	109	105	102	107	104	101	105	102	99	94
2.50	110	107	104	109	105	103	106	103	101	95
3.00	112	109	106	110	107	105	107	104	103	96
4.00	114	111	109	112	109	108	108	106	105	98
5.00	115	113	111	113	111	109	109	108	106	99
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:0.9294 Lamp Flux:1001.82x1 lm		
NAME: DEEP DOWN MINI_GUNMETAL REF_SLE G7 09mm_350mA_4000K CRI90_24 DEG		
MFR.: DARKON		

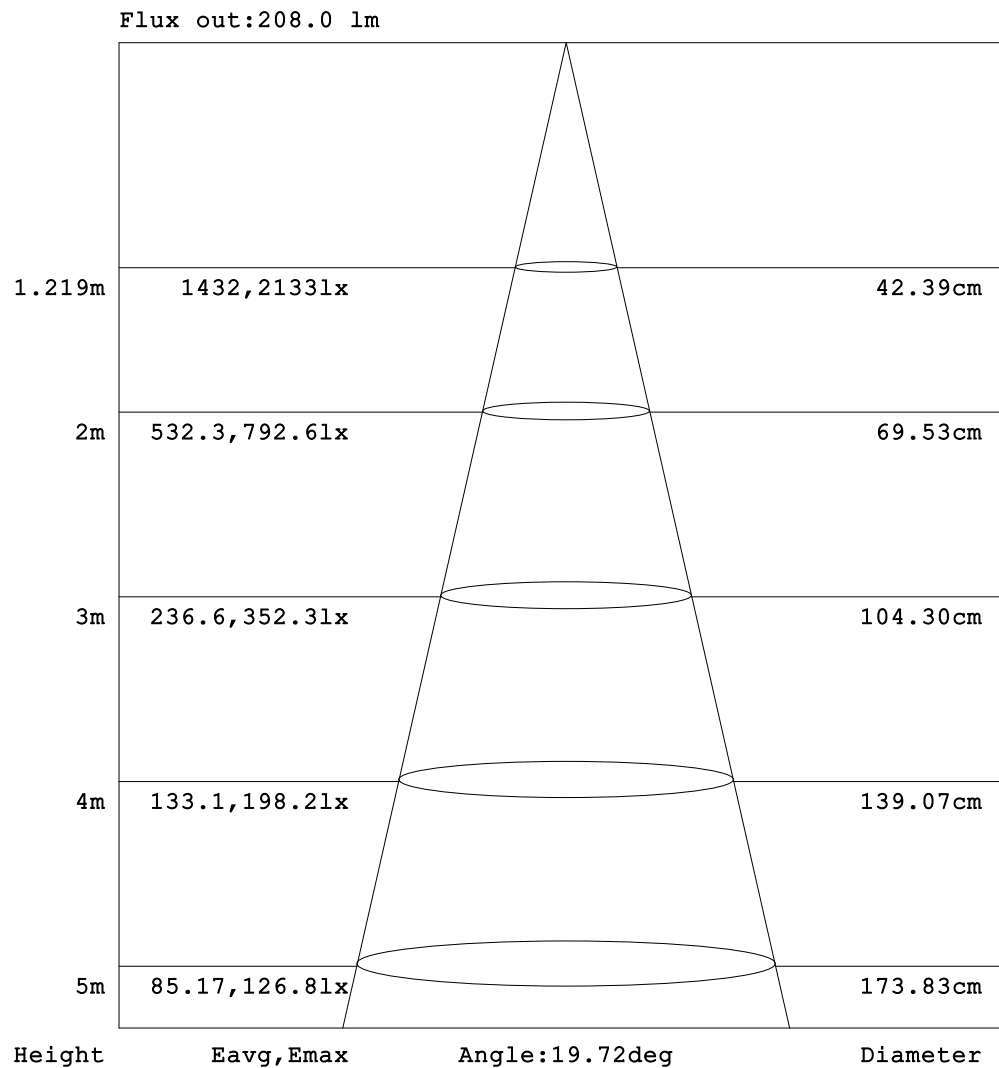


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:24 February 2023

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:0.9294 Lamp Flux:1001.82x1 lm		
NAME: DEEP DOWN MINI_GUNMETAL REF_SLE G7 09mm_350mA_4000K CRI90_24 DEG		
MFR.: DARKON		



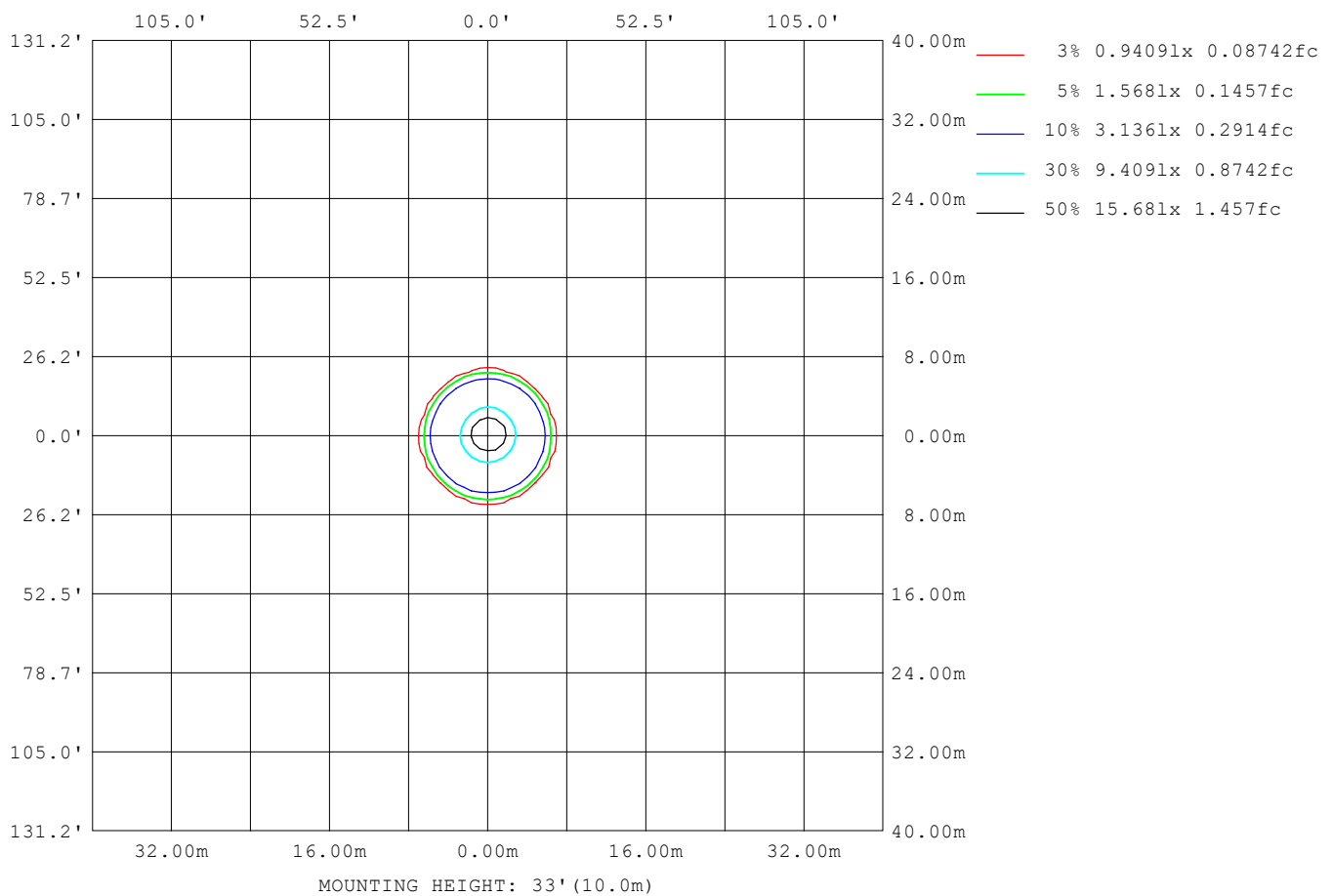
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JEFF
Test Date: 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:0.9294 Lamp Flux:1001.82x1 lm		
NAME: DEEP DOWN MINI_GUNMETAL REF_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: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:0.9294 Lamp Flux:1001.82x1 lm		
NAME: DEEP DOWN MINI_GUNMETAL REF_SLE G7 09mm_350mA_4000K CRI90_24 DEG		
MFR.: DARKON		

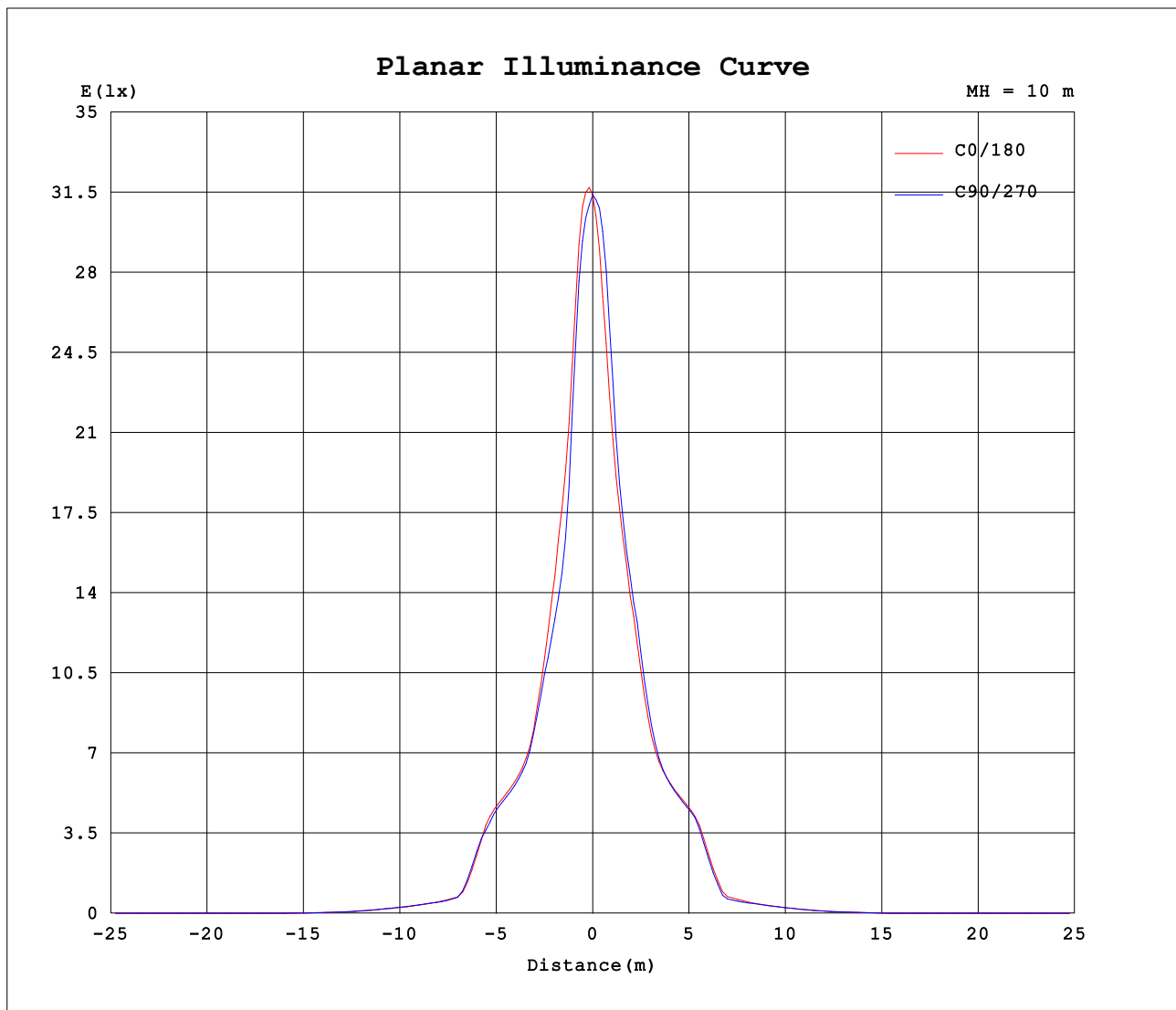
AvgL	cd/m2
L_0~180 (65) av	189
L_0~180 (75) av	65
L_0~180 (85) av	80
L_90~270 (65) av	182
L_90~270 (75) av	54
L_90~270 (85) av	0
L_45 (65) av	187
L_45 (75) av	49
L_45 (85) av	72

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:

