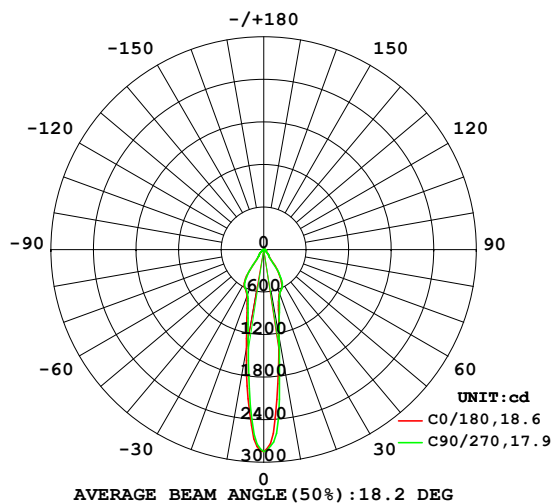


LUMINAIRE PHOTOMETRIC TEST REPORT

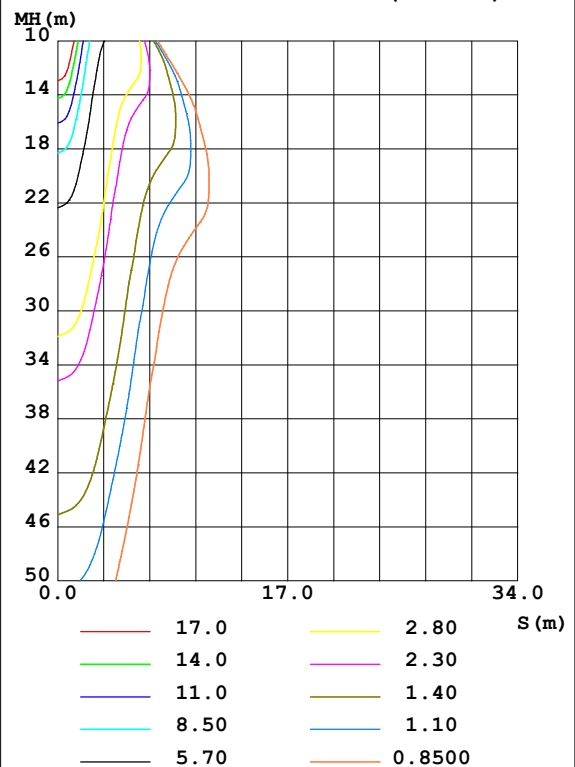
Test:U:239.8V I:0.0638A P:14.21W PF:0.9278 Lamp Flux:1021.34x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_350mA_3000K CRI90_24 DEE:LED		WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 71.89 lm/W			
MODEL	SLE G7 09mm 1200lm	Imax(cd)	2847	S/MH(C0/180)	0.34
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.31
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	1021.3	η UP,DN(C0-180)	0.0,49.8
NOMINAL FLUX(lm)	1021.34	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:16 January 2024

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.890m [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	1232	1251	1267	1348	1414	1379	1277	1219	0- 10	181.6	181.6	17.8,17.8
20	658.3	665.5	667.5	688.6	696.0	693.2	674.2	669.3	10- 20	247.0	428.6	42,42
30	488.1	495.1	510.3	531.0	551.6	561.3	533.7	505.6	20- 30	279.5	708.1	69.3,69.3
40	116.4	119.1	112.5	107.6	109.1	112.5	109.2	109.9	30- 40	172.3	880.4	86.2,86.2
50	52.38	52.05	51.05	49.84	49.37	49.29	50.11	51.80	40- 50	63.57	943.9	92.4,92.4
60	29.80	29.06	27.79	26.73	26.39	26.78	28.01	29.36	50- 60	29.86	973.8	95.3,95.3
70	23.25	22.62	21.38	20.30	19.90	20.18	21.37	22.73	60- 70	25.00	998.8	97.8,97.8
80	12.40	11.95	10.92	9.965	9.560	9.784	10.73	11.86	70- 80	17.19	1016	99.5,99.5
90	0.0440	0.0367	0.0367	0.0366	0.0403	0.0403	0.0404	0.0365	80- 90	5.360	1021	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): 916.75 lm

%lum = 89.8%

%lamp = 89.8%

Conical surface Flux(120deg): 973.79 lm

%lum = 95.3%

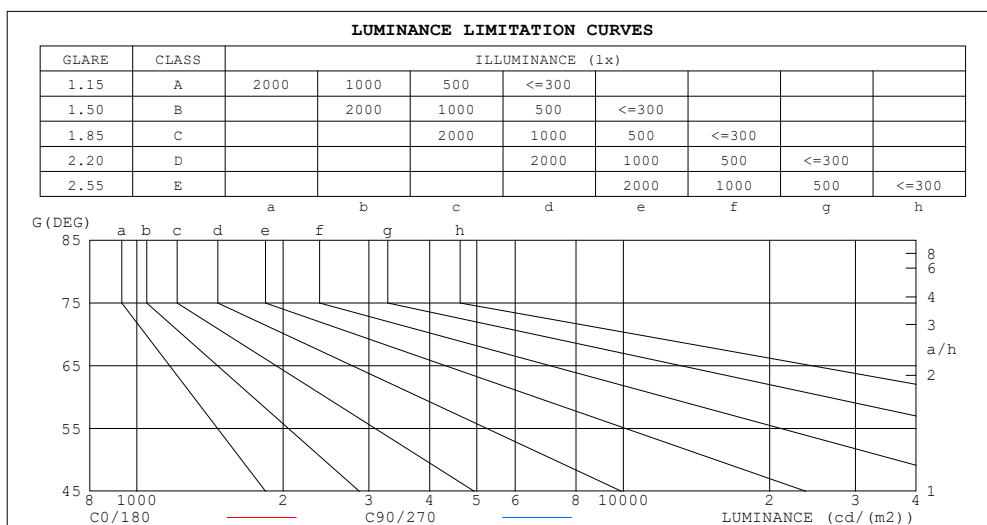
%lamp = 95.3%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:16 January 2024

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.890m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:239.8V I:0.0638A P:14.21W PF:0.9278 Lamp Flux:1021.34x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_350mA_3000K CRI90_24 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	50882	43593
80	54940	48365
75	53607	48479
70	52316	48085
65	49808	46169
60	45876	42752
55	42650	39882
50	62718	61093
45	93758	92890

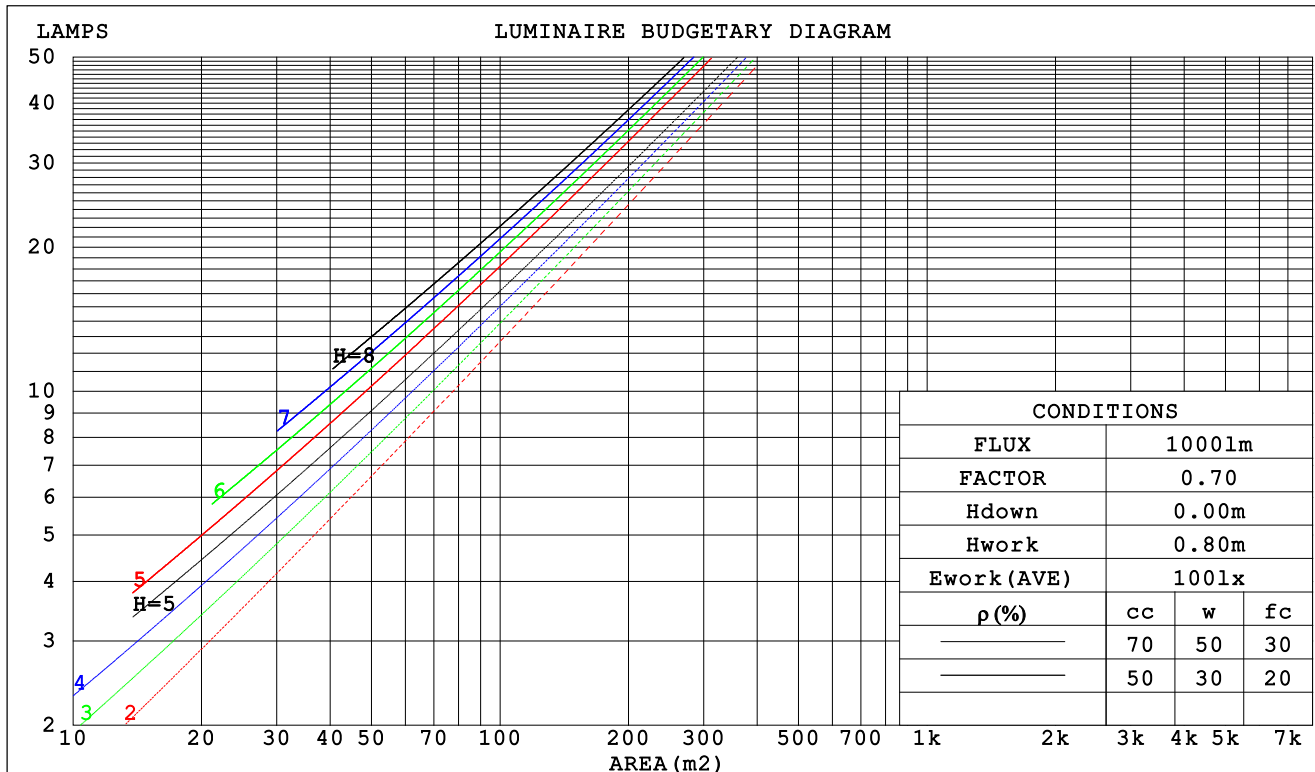
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:16 January 2024

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.890m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:239.8V I:0.0638A P:14.21W PF:0.9278 Lamp Flux:1021.34x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_350mA_3000K CRI90_24 DEE:LED		WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

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	1.10	1.07	1.05	1.08	1.05	1.03	1.04	1.02	.00	.00	.98	.97	.97	.95	.94	.92
2.0	1.02	.98	.94	1.00	.96	.93	.97	.94	.91	.94	.91	.89	.91	.89	.87	.85
3.0	.95	.90	.85	.93	.89	.85	.91	.87	.83	.88	.85	.82	.86	.83	.81	.79
4.0	.89	.83	.79	.87	.82	.78	.85	.81	.77	.83	.79	.76	.81	.78	.75	.74
5.0	.83	.77	.73	.82	.77	.72	.80	.76	.72	.79	.75	.71	.77	.74	.71	.69
6.0	.78	.72	.68	.78	.72	.68	.76	.71	.67	.75	.70	.67	.73	.69	.66	.65
7.0	.74	.68	.64	.73	.68	.64	.72	.67	.63	.71	.66	.63	.70	.66	.63	.61
8.0	.70	.64	.60	.70	.64	.60	.68	.63	.60	.67	.63	.59	.66	.62	.59	.58
9.0	.67	.61	.57	.66	.61	.57	.65	.60	.57	.64	.60	.56	.63	.59	.56	.55
10.0	.63	.58	.54	.63	.57	.54	.62	.57	.54	.61	.57	.54	.61	.56	.53	.52



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:16 January 2024

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.890m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:239.8V I:0.0638A P:14.21W PF:0.9278 Lamp Flux:1021.34x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_350mA_3000K CRI90_24 DEBE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

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	.193	.110	.035	.187	.106	.034	.174	.100	.032	.162	.094	.030	.152	.088	.028		
2.0	.182	.100	.031	.177	.097	.030	.166	.092	.029	.156	.087	.027	.147	.083	.026		
3.0	.171	.091	.027	.166	.089	.027	.157	.085	.026	.149	.081	.025	.141	.078	.024		
4.0	.161	.084	.025	.157	.082	.024	.149	.079	.024	.141	.076	.023	.135	.073	.022		
5.0	.152	.077	.022	.148	.076	.022	.141	.073	.022	.135	.071	.021	.129	.069	.021		
6.0	.143	.072	.021	.140	.071	.020	.134	.069	.020	.128	.067	.020	.123	.065	.019		
7.0	.136	.067	.019	.133	.066	.019	.128	.065	.019	.123	.063	.018	.118	.061	.018		
8.0	.129	.063	.018	.127	.062	.018	.122	.061	.017	.117	.059	.017	.113	.058	.017		
9.0	.123	.059	.017	.121	.059	.017	.116	.058	.016	.112	.056	.016	.109	.055	.016		
10.0	.117	.056	.016	.115	.056	.016	.111	.055	.015	.108	.054	.015	.104	.053	.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	.172	.157	.144	.147	.135	.124	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.158	.132	.111	.135	.114	.096	.093	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.145	.114	.088	.125	.098	.077	.086	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.135	.099	.071	.116	.086	.062	.080	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.126	.087	.059	.108	.076	.051	.075	.053	.036	.043	.031	.021	.014	.010	.007	
6.0	.118	.078	.049	.102	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.112	.071	.042	.096	.061	.036	.066	.043	.026	.039	.025	.015	.012	.008	.005	
8.0	.106	.064	.036	.091	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.100	.059	.031	.086	.051	.027	.060	.036	.019	.035	.021	.012	.011	.007	.004	
10.0	.095	.055	.027	.082	.047	.024	.057	.033	.017	.033	.020	.010	.011	.006	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:16 January 2024

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.890m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:239.8V I:0.0638A P:14.21W PF:0.9278 Lamp Flux:1021.34x1 lm											
NAME: DEEPER DOWN_SLE G7 09mm_350mA_3000K CRI90_24 DEEE:LED						WEIGHT:					
SPEC.:						DIM.:		SERIAL No.:1			
MFR.: DARKON						SUR.:		Shielding Angle:			
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	2H	23.9	24.8	24.1	25.0	25.2	23.9	24.9	24.1	25.0	25.2
	3H	24.8	25.7	25.1	25.9	26.1	24.7	25.6	25.0	25.8	26.0
	4H	25.3	26.2	25.6	26.4	26.6	25.2	26.0	25.4	26.2	26.5
	6H	25.8	26.6	26.1	26.9	27.1	25.6	26.4	25.9	26.6	26.9
	8H	26.0	26.8	26.3	27.0	27.3	25.7	26.5	26.0	26.8	27.0
	12H	26.2	26.9	26.5	27.2	27.4	25.8	26.6	26.2	26.8	27.1
4H	2H	24.1	24.9	24.3	25.1	25.4	24.1	24.9	24.4	25.2	25.4
	3H	25.3	26.0	25.6	26.3	26.6	25.2	25.9	25.5	26.2	26.5
	4H	26.0	26.7	26.3	27.0	27.3	25.8	26.5	26.2	26.8	27.1
	6H	26.7	27.3	27.0	27.6	27.9	26.4	27.0	26.8	27.3	27.7
	8H	26.9	27.5	27.3	27.8	28.2	26.6	27.2	27.0	27.5	27.9
	12H	27.1	27.6	27.5	28.0	28.4	26.8	27.3	27.2	27.7	28.1
8H	4H	26.2	26.8	26.6	27.1	27.5	26.1	26.6	26.5	27.0	27.3
	6H	27.1	27.5	27.5	27.9	28.3	26.8	27.3	27.3	27.7	28.1
	8H	27.5	27.9	27.9	28.3	28.7	27.2	27.6	27.6	28.0	28.4
	12H	27.7	28.1	28.2	28.5	29.0	27.4	27.7	27.9	28.2	28.7
12H	4H	26.2	26.8	26.7	27.1	27.5	26.1	26.6	26.5	27.0	27.4
	6H	27.1	27.5	27.6	28.0	28.4	26.9	27.3	27.4	27.7	28.2
	8H	27.6	27.9	28.0	28.4	28.8	27.3	27.6	27.7	28.1	28.5
Variations with the observer position at spacings:											
S = 1.0H	+ 0.4 / - 0.5					+ 0.5 / - 0.5					
1.5H	+ 0.5 / - 0.5					+ 0.5 / - 0.5					
2.0H	+ 1.0 / - 0.4					+ 1.1 / - 0.5					

CIE Pub.117 Corrected 1021 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:16 January 2024

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.890m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:239.8V I:0.0638A P:14.21W PF:0.9278 Lamp Flux:1021.34x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_350mA_3000K CRI90_24 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

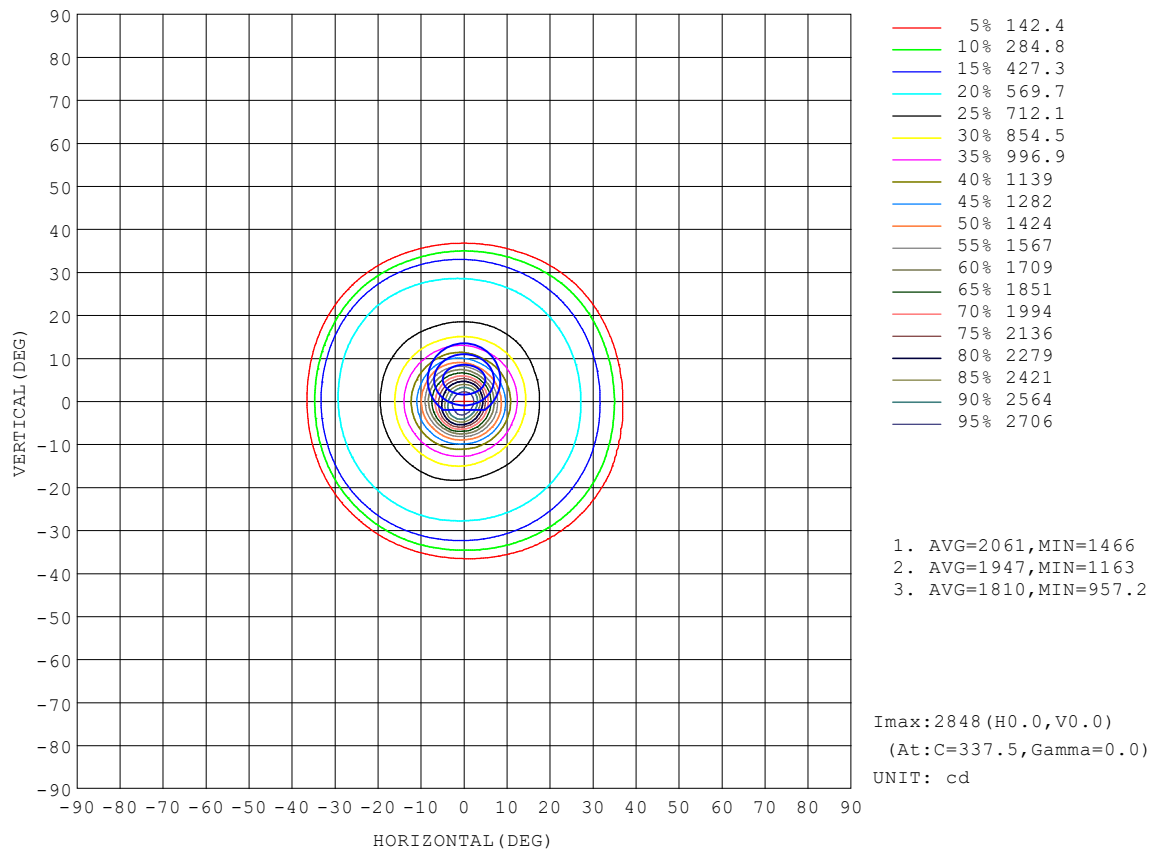
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	83	76	72	83	76	72	82	75	72	68
0.80	91	84	80	90	84	80	89	83	79	75
1.00	96	89	85	95	89	85	93	89	84	80
1.25	100	94	90	99	94	90	97	92	89	84
1.50	103	98	94	102	97	93	100	95	92	87
2.00	106	102	98	105	100	97	102	98	96	90
2.50	108	104	101	107	103	100	104	100	98	91
3.00	110	106	103	108	105	102	105	102	100	93
4.00	113	109	107	110	108	105	107	105	103	95
5.00	114	111	109	112	109	108	108	106	104	97
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHR NOM = 1.25		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JEFF
Test Date: 16 January 2024

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 7.890m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:239.8V I:0.0638A P:14.21W PF:0.9278 Lamp Flux:1021.34x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_350mA_3000K CRI90_24 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

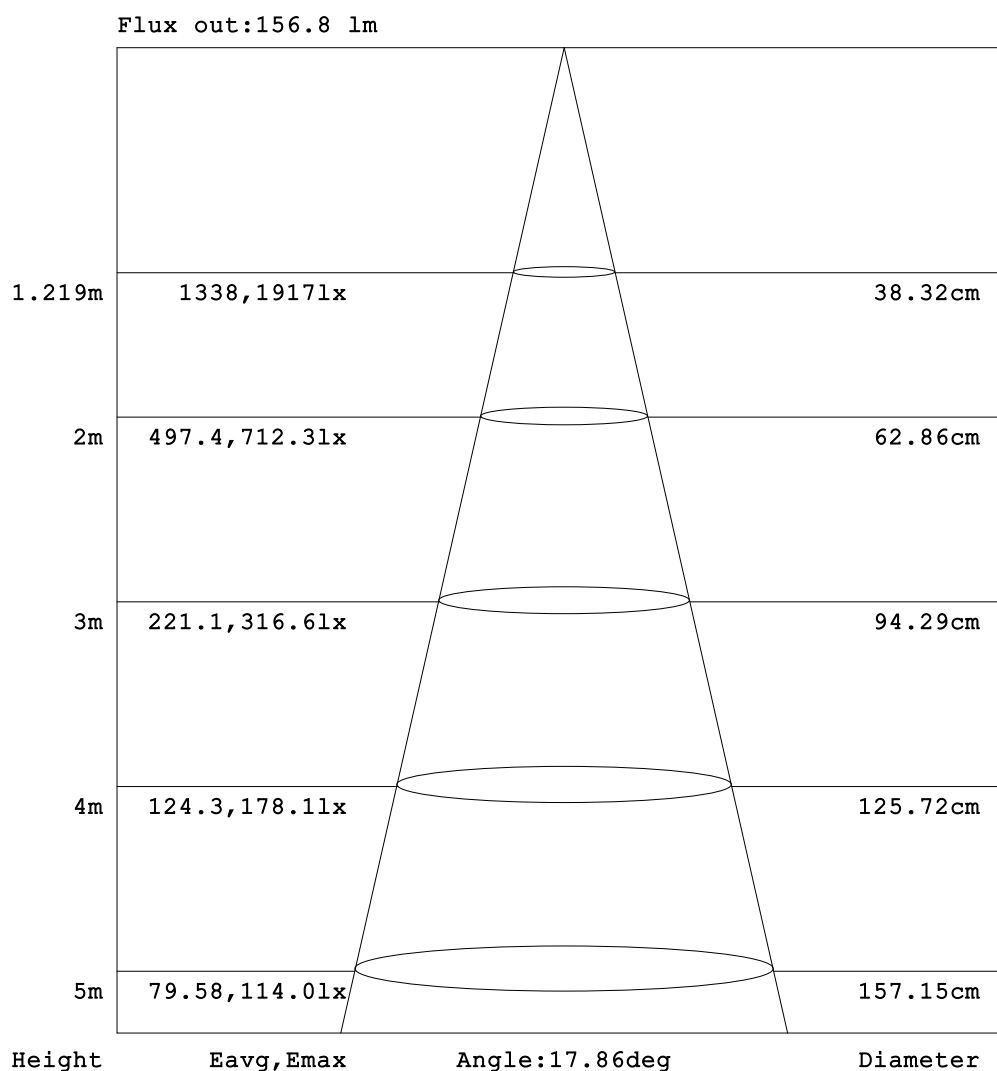


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:16 January 2024

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.890m [K=1.0000]
Remarks:

AAI Figure

Test:U:239.8V I:0.0638A P:14.21W PF:0.9278 Lamp Flux:1021.34x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_350mA_3000K CRI90_24 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



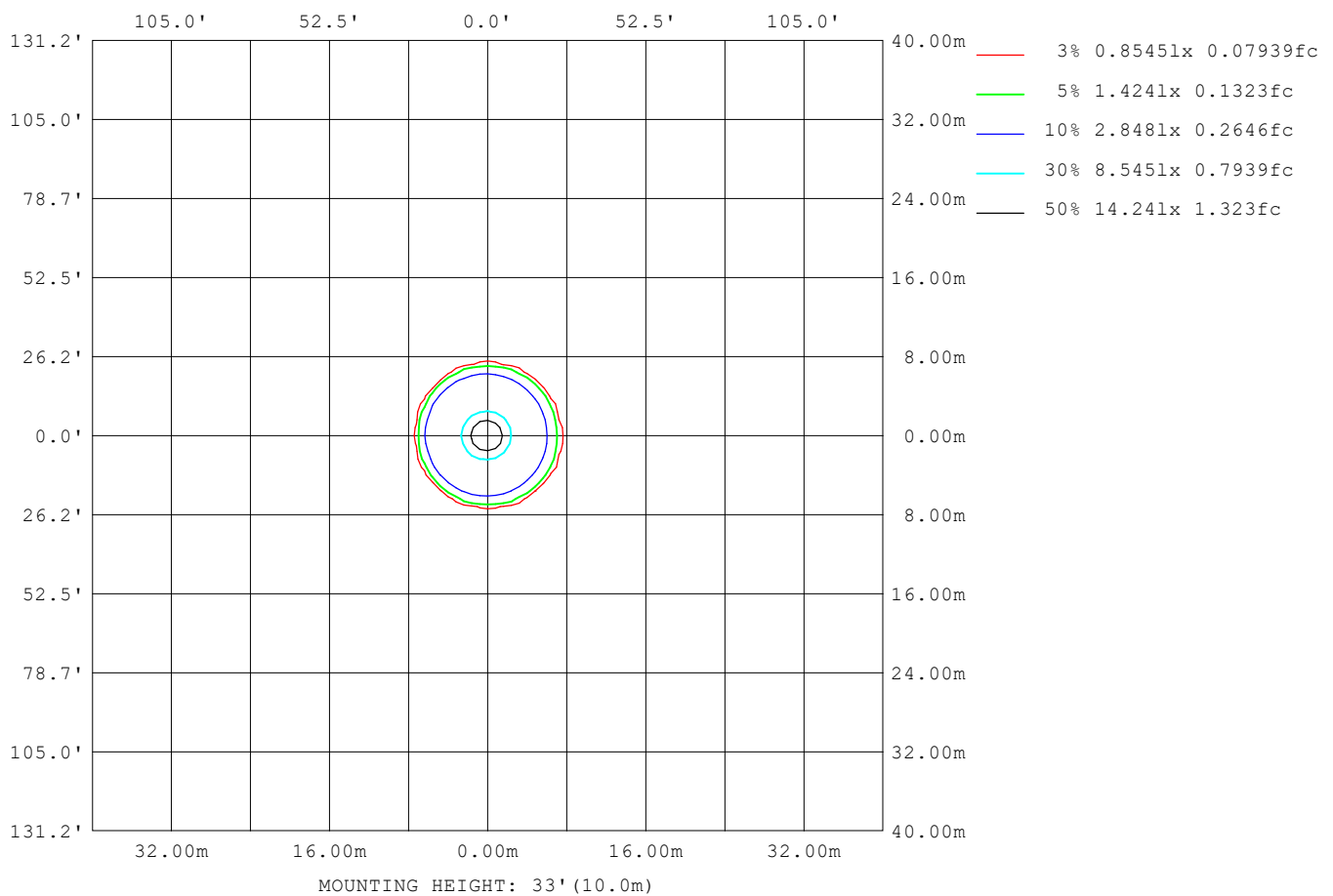
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:16 January 2024

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.890m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:239.8V I:0.0638A P:14.21W PF:0.9278 Lamp Flux:1021.34x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_350mA_3000K CRI90_24 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:16 January 2024

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.890m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:239.8V I:0.0638A P:14.21W PF:0.9278 Lamp Flux:1021.34x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_350mA_3000K CRI90_24 DEEP:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

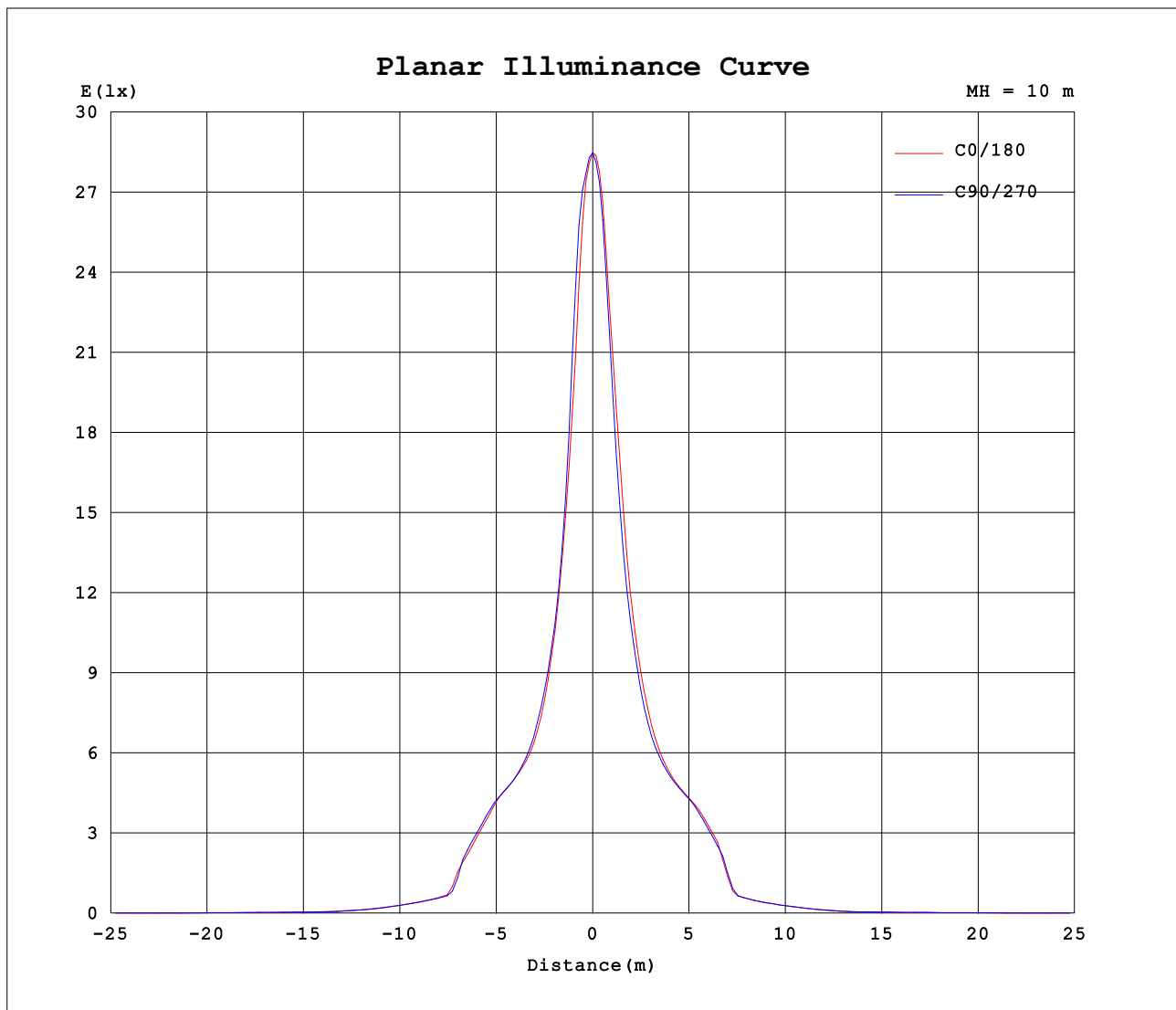
AvgL	cd/m2
L_0~180 (65) av	46661
L_0~180 (75) av	48821
L_0~180 (85) av	43515
L_90~270 (65) av	46272
L_90~270 (75) av	48289
L_90~270 (85) av	43110
L_45 (65) av	46442
L_45 (75) av	48513
L_45 (85) av	43330

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:16 January 2024

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.890m [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: 16 January 2024

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 7.890m [K=1.0000]
Remarks:

