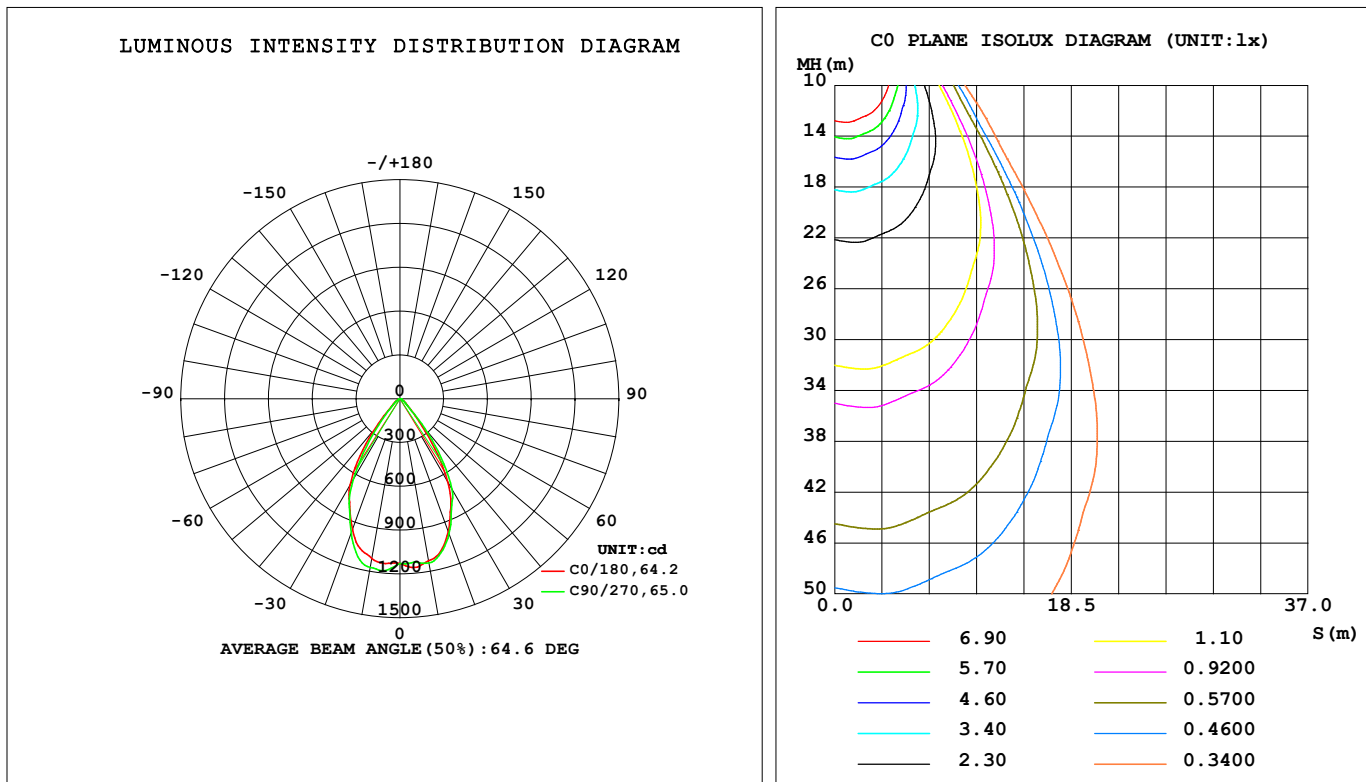


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:239.81V I:0.0640A P:14.161W PF:0.9234 Freq:50.13Hz Lamp Flux:1214.84x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_350mA_3K_50 DEG	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 85.79 lm/W
MODEL G7 09mm 1200lm 830 R ADV		I _{max} (cd)	1185	S/MH (C0/180)		0.97
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		0.93
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	1214.8	η UP,DN (C0-180)		0.0,50.9
NOMINAL FLUX (lm)	1214.84	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,49.1
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		1.00
TEST VOLTAGE (V)	230	η down (%)	100.0	CIBSE SHR MAX		1.00



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JEFF
Test Date: 12 November 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity: 65.0%
Test Distance: 7.250m [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	1127	1135	1143	1127	1110	1132	1173	1172	0- 10	109.3	109.3	9,9
20	969.2	980.2	985.6	972.5	951.1	966.4	979.1	991.5	10- 20	303.7	413.1	34,34
30	655.9	686.4	712.9	715.2	683.3	659.5	641.5	644.6	20- 30	379.3	792.4	65.2,65.2
40	209.5	240.6	267.6	276.2	260.6	230.8	202.0	201.9	30- 40	277.9	1070	88.1,88.1
50	62.46	62.94	58.15	64.66	64.19	60.80	53.67	61.06	40- 50	91.46	1162	95.6,95.6
60	24.21	23.40	18.55	24.34	25.09	22.27	15.49	21.98	50- 60	35.82	1198	98.6,98.6
70	6.498	6.338	6.310	6.144	6.167	6.011	6.161	6.221	60- 70	10.39	1208	99.4,99.4
80	3.817	3.835	3.481	3.682	3.763	3.396	3.113	3.616	70- 80	5.484	1213	99.9,99.9
90	0.0125	0.0063	0	0.0063	0.0094	0.0063	0	0	80- 90	1.417	1215	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): 1130.3 lm

%lum = 93.0%

%lamp = 93.0%

Conical surface Flux(120deg): 1197.5 lm

%lum = 98.6%

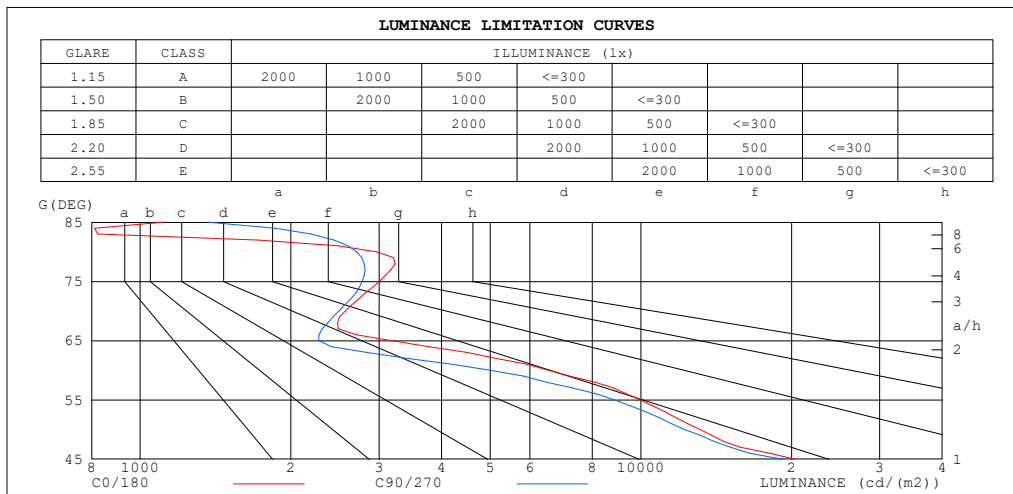
%lamp = 98.6%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:12 November 2020

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:239.81V I:0.0640A P:14.161W PF:0.9234 Freq:50.13Hz Lamp Flux:1214.84x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_350mA_3K_50 DEG	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1116	1364
80	2970	2709
75	3005	2778
70	2567	2493
65	3170	2273
60	6545	5014
55	9978	8843
50	13132	12225
45	20332	19195

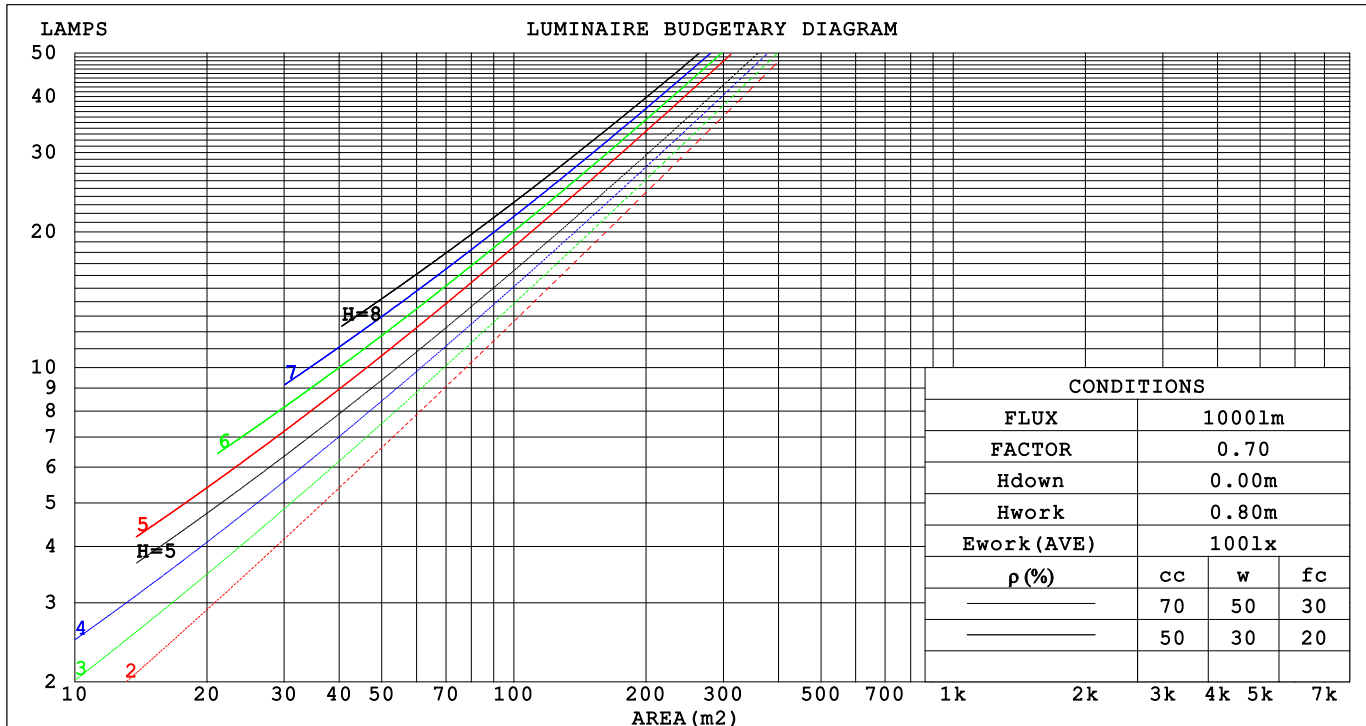
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:12 November 2020

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:239.81V I:0.0640A P:14.161W PF:0.9234 Freq:50.13Hz Lamp Flux:1214.84x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_350mA_3K_50 DEG	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
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															



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:12 November 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:239.81V I:0.0640A P:14.161W PF:0.9234 Freq:50.13Hz Lamp Flux:1214.84x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_350mA_3K_50 DEG	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
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	.189	.107	.034	.182	.104	.033	.169	.097	.031	.158	.091	.029	.147	.085	.027	
2.0	.182	.100	.031	.176	.097	.030	.165	.092	.029	.155	.087	.027	.146	.083	.026	
3.0	.173	.092	.028	.168	.090	.027	.159	.086	.026	.151	.083	.025	.143	.079	.024	
4.0	.165	.086	.025	.161	.084	.025	.153	.081	.024	.145	.078	.024	.138	.075	.023	
5.0	.157	.080	.023	.153	.079	.023	.146	.076	.022	.140	.074	.022	.134	.072	.021	
6.0	.150	.075	.021	.146	.074	.021	.140	.072	.021	.135	.070	.021	.129	.068	.020	
7.0	.143	.071	.020	.140	.070	.020	.134	.068	.020	.129	.066	.019	.125	.065	.019	
8.0	.136	.067	.019	.134	.066	.019	.129	.064	.018	.124	.063	.018	.120	.062	.018	
9.0	.131	.063	.018	.128	.062	.018	.124	.061	.017	.120	.060	.017	.116	.059	.017	
10.0	.125	.060	.017	.123	.059	.017	.119	.058	.016	.115	.057	.016	.112	.056	.016	

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	.086	.058	.054	.050	.019	.017	.016	
2.0	.158	.132	.111	.135	.114	.096	.092	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.146	.114	.088	.125	.098	.076	.086	.068	.054	.050	.040	.032	.016	.013	.010	
4.0	.136	.099	.071	.117	.086	.062	.080	.060	.043	.046	.035	.026	.015	.011	.008	
5.0	.128	.088	.058	.110	.076	.051	.076	.053	.036	.044	.031	.021	.014	.010	.007	
6.0	.121	.079	.048	.104	.068	.042	.072	.048	.030	.041	.028	.018	.013	.009	.006	
7.0	.114	.071	.041	.098	.062	.036	.068	.043	.025	.039	.025	.015	.013	.008	.005	
8.0	.109	.065	.035	.094	.056	.030	.065	.040	.022	.038	.023	.013	.012	.008	.004	
9.0	.104	.060	.030	.089	.052	.026	.062	.037	.019	.036	.022	.011	.012	.007	.004	
10.0	.099	.056	.027	.085	.048	.023	.059	.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:12 November 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:239.81V I:0.0640A P:14.161W PF:0.9234 Freq:50.13Hz Lamp Flux:1214.84x1 lm											
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_350mA_3K_50 DEG TYPE:LED								WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
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	18.8	19.8	19.0	20.0	20.2	19.1	20.2	19.4	20.3	20.5	
	3H	18.7	19.6	18.9	19.8	20.0	19.0	19.9	19.3	20.1	20.3
	4H	18.6	19.5	18.9	19.7	20.0	19.0	19.8	19.2	20.1	20.3
	6H	18.6	19.4	18.9	19.7	19.9	18.9	19.7	19.2	20.0	20.2
	8H	18.6	19.4	18.9	19.6	19.9	18.9	19.7	19.2	19.9	20.2
	12H	18.5	19.3	18.9	19.6	19.8	18.8	19.6	19.2	19.9	20.1
4H	2H	18.6	19.5	18.9	19.7	20.0	18.9	19.8	19.2	20.1	20.3
	3H	18.5	19.3	18.8	19.5	19.8	18.8	19.6	19.2	19.9	20.1
	4H	18.5	19.2	18.8	19.5	19.8	18.8	19.5	19.1	19.8	20.1
	6H	18.5	19.1	18.9	19.4	19.8	18.8	19.4	19.2	19.7	20.1
	8H	18.5	19.0	18.9	19.4	19.8	18.8	19.3	19.1	19.7	20.0
	12H	18.4	18.9	18.8	19.3	19.7	18.7	19.2	19.1	19.6	20.0
8H	4H	18.4	19.0	18.8	19.3	19.7	18.7	19.3	19.1	19.6	20.0
	6H	18.4	18.9	18.9	19.3	19.7	18.7	19.2	19.1	19.5	20.0
	8H	18.4	18.8	18.9	19.2	19.7	18.7	19.1	19.1	19.5	19.9
	12H	18.4	18.7	18.9	19.2	19.7	18.7	19.0	19.1	19.4	19.9
12H	4H	18.4	18.9	18.8	19.2	19.6	18.7	19.2	19.1	19.5	19.9
	6H	18.4	18.8	18.8	19.2	19.7	18.7	19.1	19.1	19.5	19.9
	8H	18.4	18.7	18.9	19.2	19.7	18.7	19.0	19.1	19.4	19.9
Variations with the observer position at spacings:											
S = 1.0H	+ 2.4 / - 4.3					+ 3.0 / - 5.6					
1.5H	+ 4.1 / - 3.0					+ 5.0 / - 3.8					
2.0H	+ 3.2 / - 3.4					+ 3.4 / - 4.1					

CIE Pub.117, 1215 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.7)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:12 November 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:239.81V I:0.0640A P:14.161W PF:0.9234 Freq:50.13Hz Lamp Flux:1214.84x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_350mA_3K_50 DEG	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

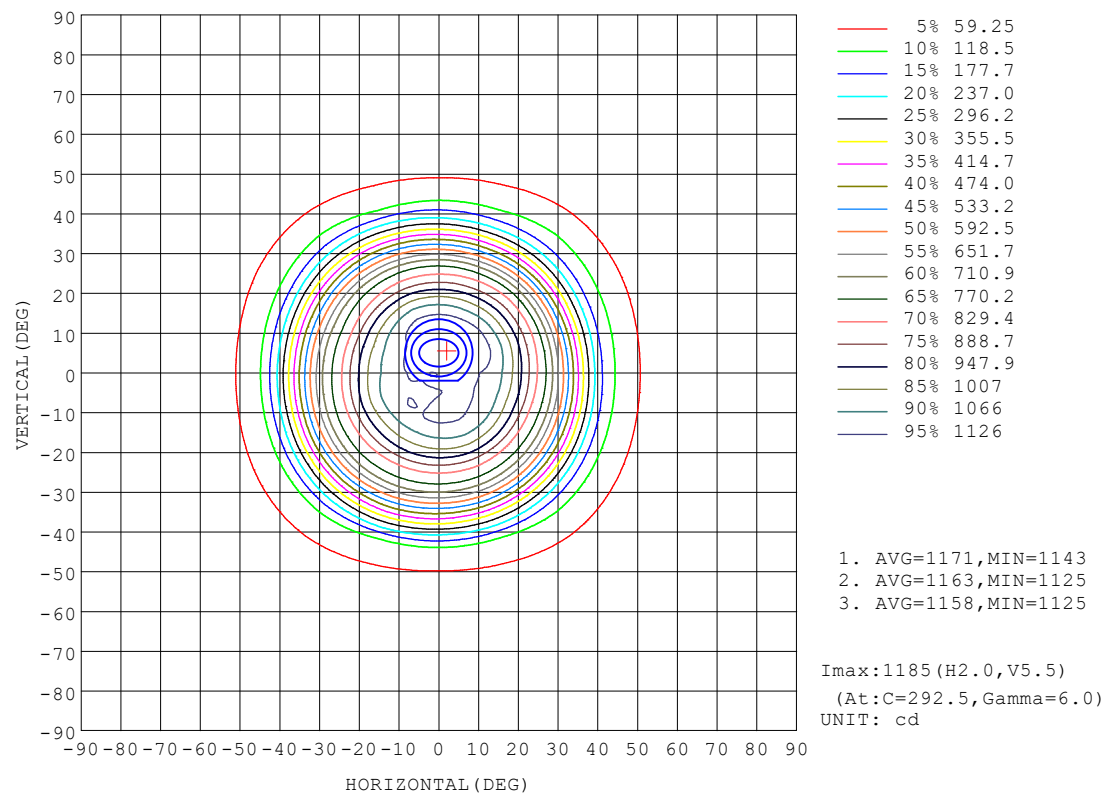
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	77	73	83	77	73	83	76	73	69
0.80	92	85	81	91	85	81	90	85	81	77
1.00	97	91	87	96	90	87	95	90	86	82
1.25	101	96	92	100	95	92	98	94	91	86
1.50	104	99	96	103	99	95	101	97	94	89
2.00	108	103	100	106	102	99	103	100	97	92
2.50	109	105	102	108	104	101	105	102	99	93
3.00	111	107	104	109	106	103	106	103	101	95
4.00	113	110	108	111	109	106	107	105	104	96
5.00	114	112	110	112	110	108	108	107	105	98
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:12 November 2020

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:239.81V I:0.0640A P:14.161W PF:0.9234 Freq:50.13Hz Lamp Flux:1214.84x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_350mA_3K_50 DEG	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

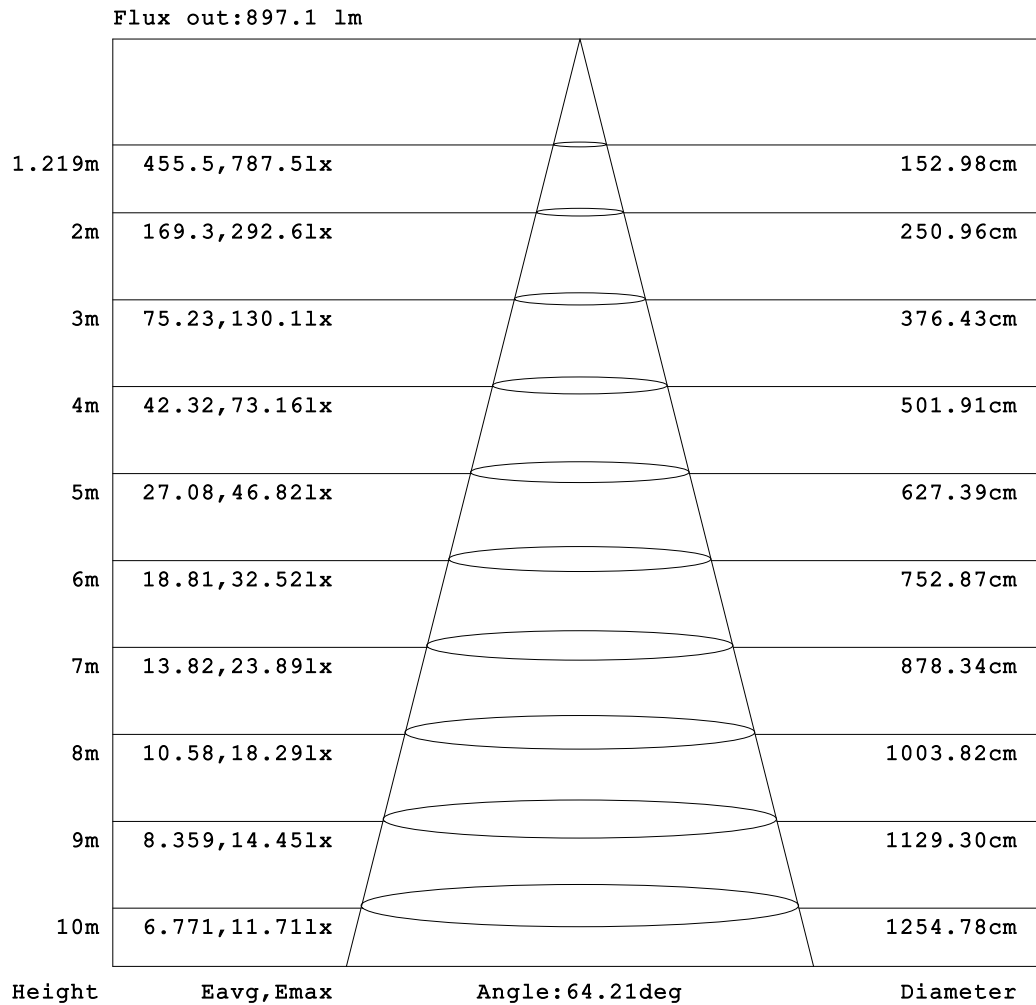


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:12 November 2020

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

AAI Figure

Test:U:239.81V I:0.0640A P:14.161W PF:0.9234 Freq:50.13Hz Lamp Flux:1214.84x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_350mA_3K_50 DEG	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



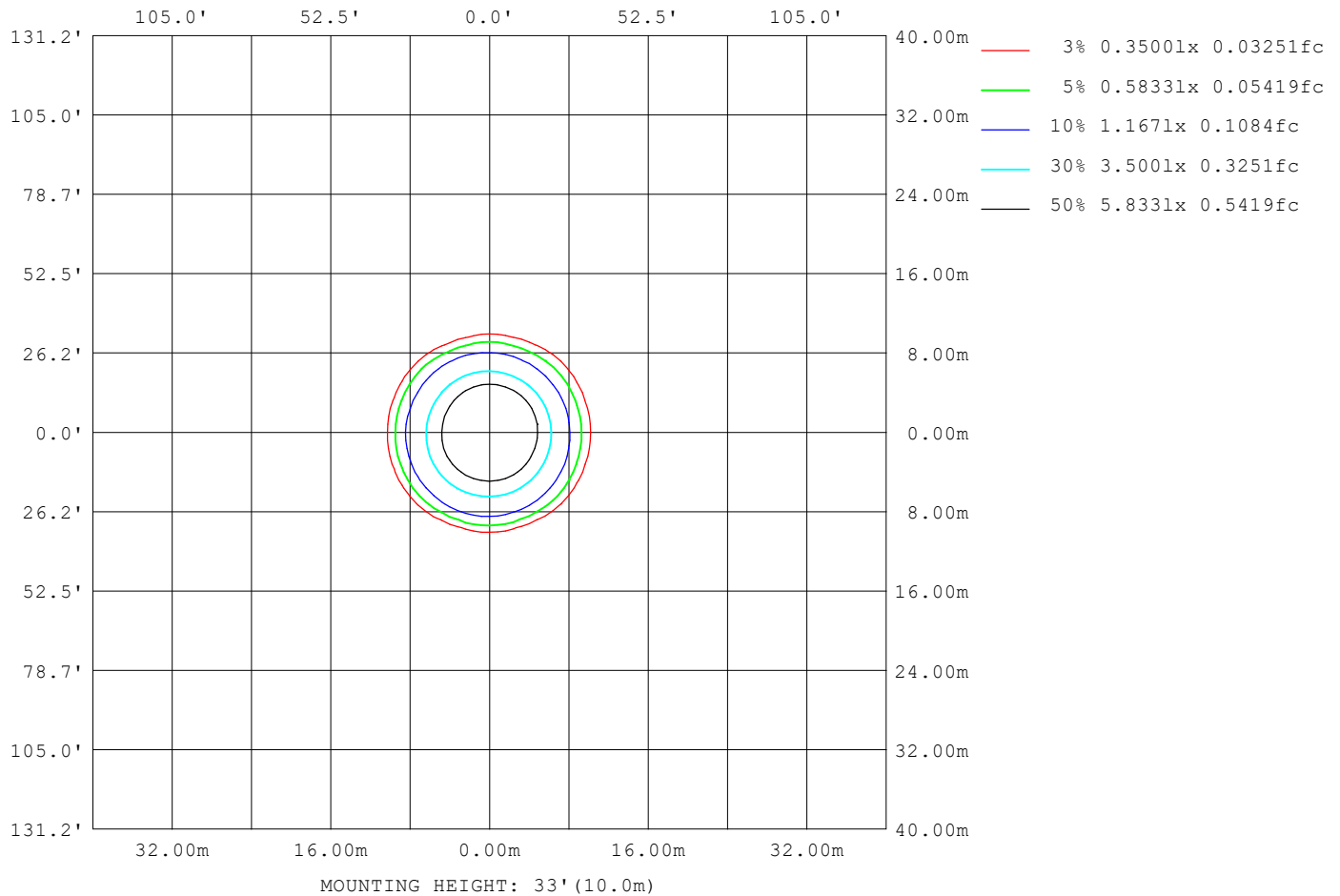
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:12 November 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:239.81V I:0.0640A P:14.161W PF:0.9234 Freq:50.13Hz Lamp Flux:1214.84x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_350mA_3K_50 DEG	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:12 November 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:239.81V I:0.0640A P:14.161W PF:0.9234 Freq:50.13Hz Lamp Flux:1214.84x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_350mA_3K_50 DEG	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

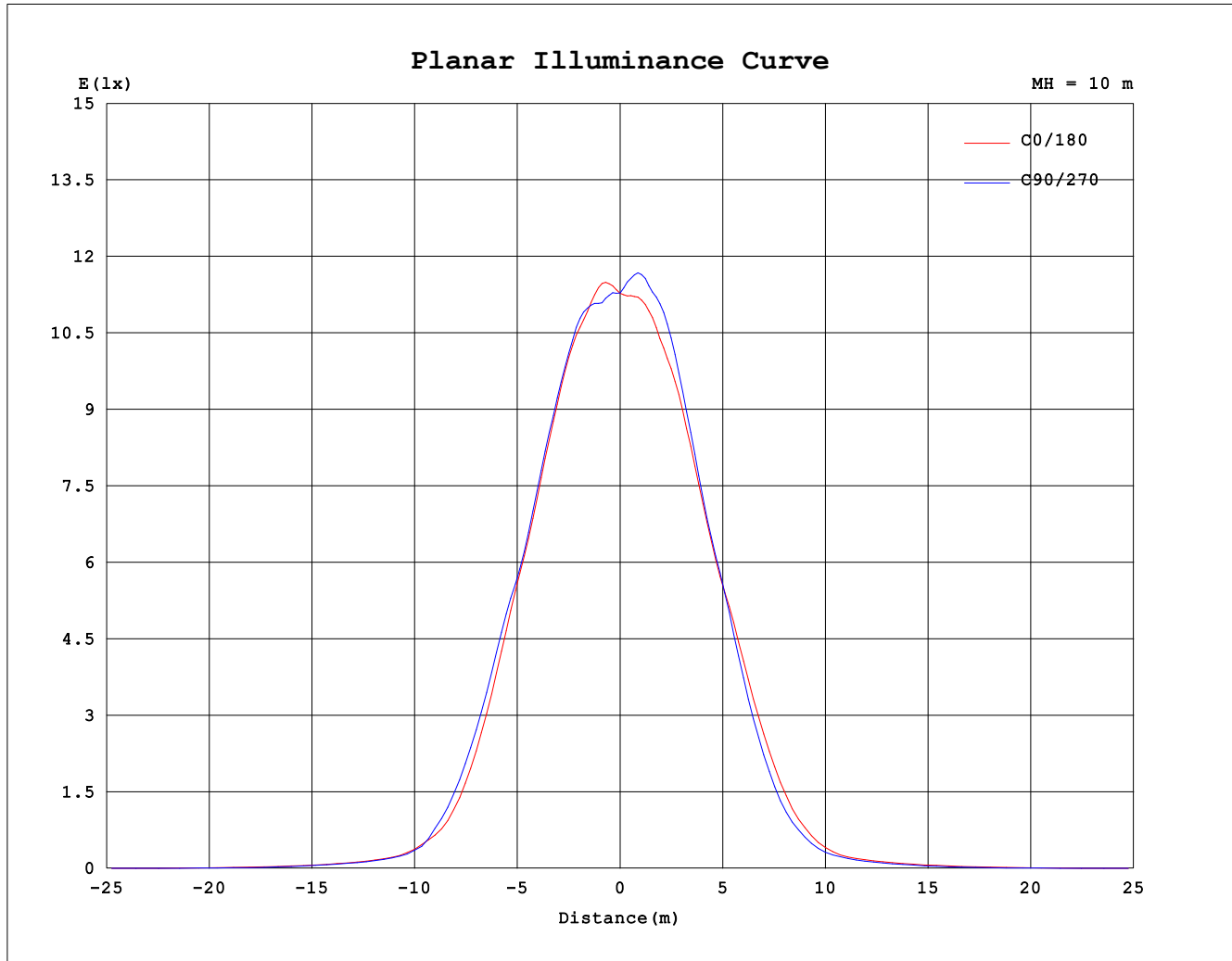
AvgL	cd/m2
L_0~180 (65) av	3150
L_0~180 (75) av	2924
L_0~180 (85) av	1025
L_90~270 (65) av	2236
L_90~270 (75) av	2706
L_90~270 (85) av	1080
L_45 (65) av	2788
L_45 (75) av	2767
L_45 (85) av	1814

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:12 November 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [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: 12 November 2020

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity: 65.0%
Test Distance: 7.250m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

```