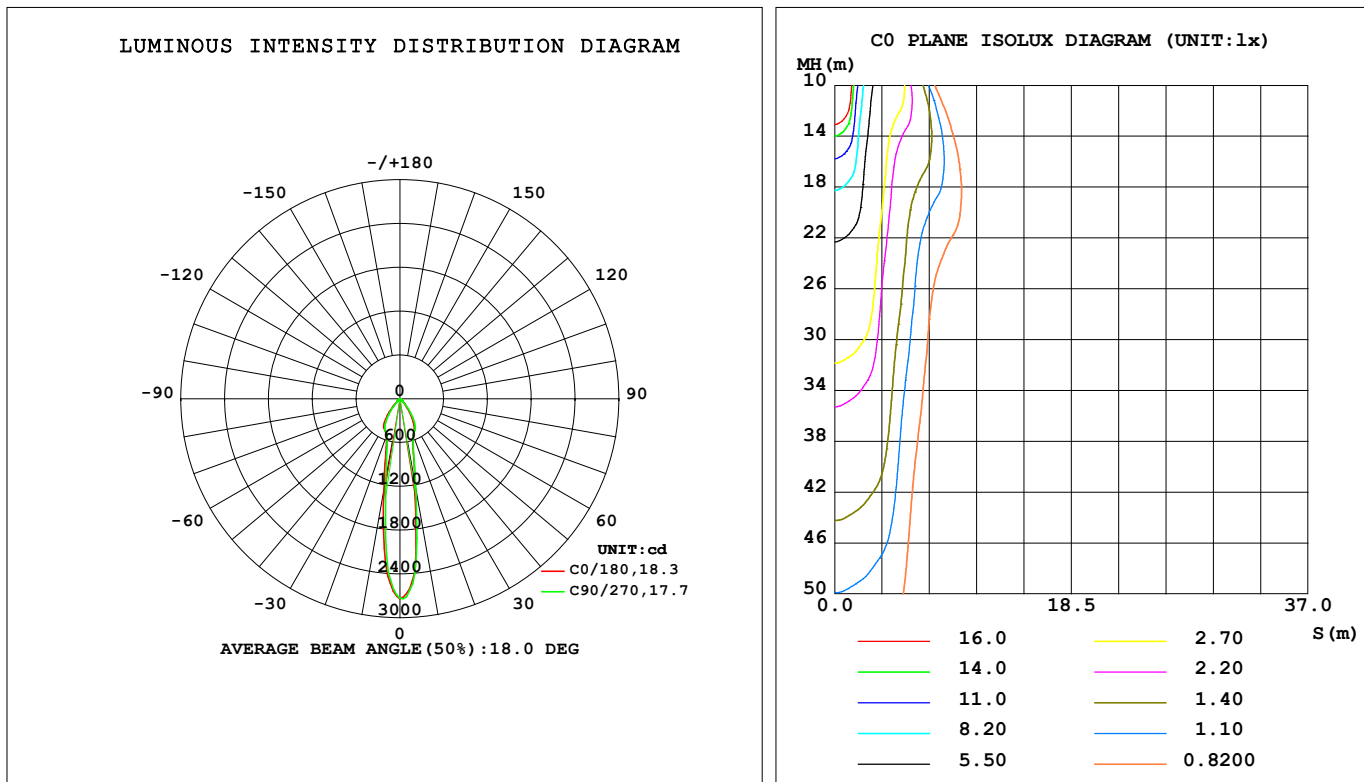


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:239.94V I:0.0492A P:10.382W PF:0.8801 Freq:50.09Hz Lamp Flux:888.58x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_250mA_3K_24 DEG	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 85.59 lm/W
MODEL G7 09mm 1200lm 830 R ADV		I _{max} (cd)	2744	S/MH (C0/180)		0.32
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		0.29
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	888.58	η UP,DN (C0-180)		0.0,50.8
NOMINAL FLUX (lm)	888.58	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,49.2
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



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:17 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	1192	1288	1265	1267	1286	1249	1118	1134	0- 10	178.9	178.9	20.1,20.1
20	537.7	546.9	541.2	546.2	545.0	544.9	529.0	529.5	10- 20	210.2	389.1	43.8,43.8
30	367.7	387.0	420.1	444.7	450.1	440.8	403.3	369.5	20- 30	220.0	609.0	68.5,68.5
40	129.9	144.6	165.3	192.2	200.7	180.3	143.0	124.4	30- 40	178.7	787.7	88.6,88.6
50	45.32	44.77	41.40	45.22	45.81	42.98	39.06	43.02	40- 50	62.73	850.4	95.7,95.7
60	16.28	15.78	14.04	18.16	19.47	16.63	12.64	15.32	50- 60	25.05	875.5	98.5,98.5
70	4.837	4.709	4.692	4.587	4.635	4.578	4.689	4.687	60- 70	7.974	883.4	99.4,99.4
80	2.747	2.779	2.550	2.740	2.870	2.626	2.383	2.704	70- 80	4.102	887.5	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	1.039	888.6	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): 828.55 lm

%lum = 93.2%

%lamp = 93.2%

Conical surface Flux(120deg): 875.47 lm

%lum = 98.5%

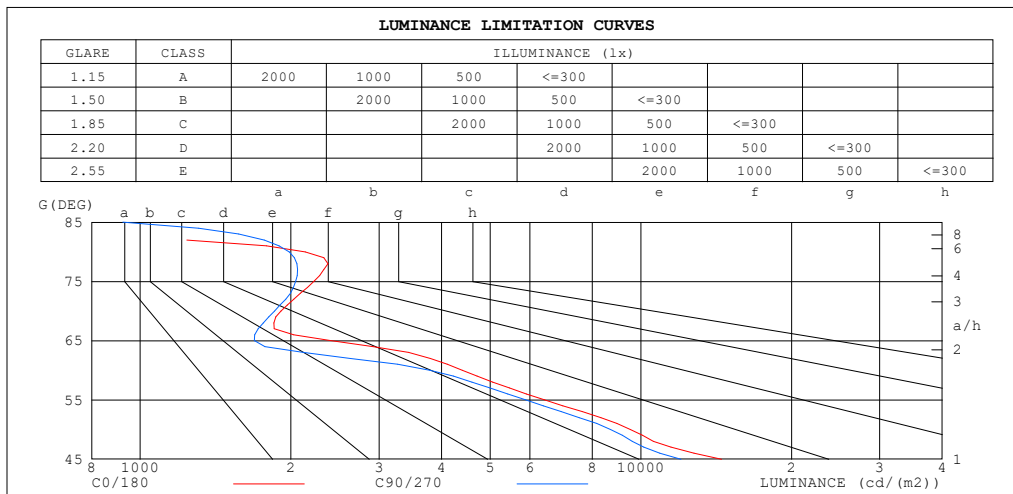
%lamp = 98.5%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:17 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:239.94V I:0.0492A P:10.382W PF:0.8801 Freq:50.09Hz Lamp Flux:888.58x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_250mA_3K_24 DEG	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	781	924
80	2138	1984
75	2223	2046
70	1911	1854
65	2400	1692
60	4399	3795
55	6412	5883
50	9529	8704
45	14492	12025

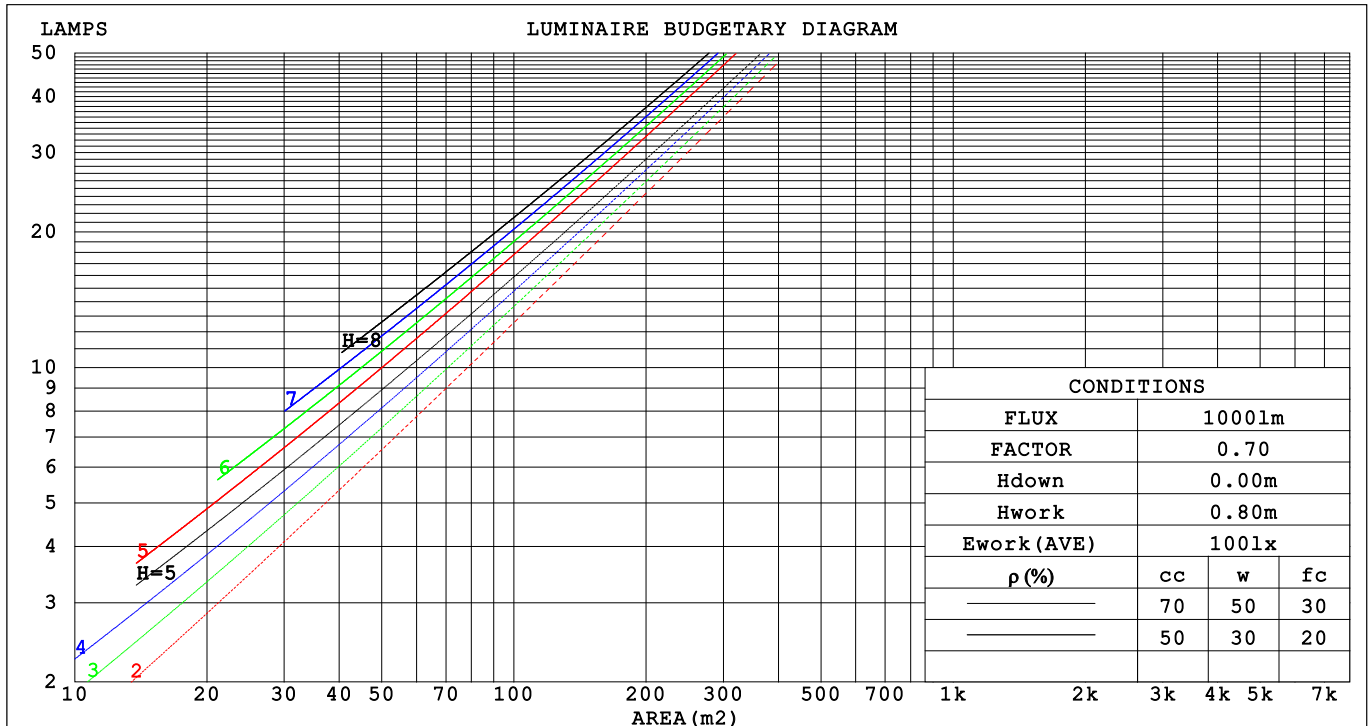
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:17 November 2020

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:239.94V I:0.0492A P:10.382W PF:0.8801 Freq:50.09Hz Lamp Flux:888.58x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_250mA_3K_24 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						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	1.08	1.06	1.09	1.06	1.04	1.05	1.03	1.01	1.01	.99	.98	.97	.96	.95	.94
2.0	1.03	.99	.96	1.01	.98	.95	.98	.95	.93	.95	.93	.91	.92	.90	.89	.87
3.0	.96	.91	.87	.95	.90	.87	.92	.88	.85	.90	.87	.84	.88	.85	.83	.81
4.0	.90	.85	.81	.89	.84	.80	.87	.83	.79	.85	.81	.78	.83	.80	.77	.76
5.0	.85	.79	.75	.84	.79	.75	.82	.77	.74	.80	.76	.73	.79	.75	.73	.71
6.0	.80	.74	.70	.79	.74	.70	.78	.73	.69	.76	.72	.69	.75	.71	.68	.67
7.0	.76	.70	.66	.75	.69	.65	.74	.69	.65	.72	.68	.65	.71	.67	.64	.63
8.0	.72	.66	.62	.71	.66	.62	.70	.65	.62	.69	.65	.61	.68	.64	.61	.60
9.0	.68	.62	.59	.68	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.58	.57
10.0	.65	.59	.56	.64	.59	.56	.64	.59	.55	.63	.58	.55	.62	.58	.55	.54



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:17 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:239.94V I:0.0492A P:10.382W PF:0.8801 Freq:50.09Hz Lamp Flux:888.58x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_250mA_3K_24 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	.178	.101	.032	.171	.098	.031	.159	.091	.029	.147	.085	.027	.136	.079	.025	
2.0	.170	.093	.029	.164	.091	.028	.154	.086	.027	.144	.081	.025	.135	.076	.024	
3.0	.161	.086	.026	.157	.084	.025	.148	.080	.024	.139	.076	.023	.132	.073	.023	
4.0	.153	.080	.023	.149	.078	.023	.141	.075	.022	.134	.072	.022	.127	.069	.021	
5.0	.145	.074	.021	.142	.073	.021	.135	.070	.021	.129	.068	.020	.123	.066	.020	
6.0	.138	.069	.020	.135	.068	.020	.129	.066	.019	.123	.064	.019	.118	.062	.018	
7.0	.131	.065	.018	.129	.064	.018	.123	.062	.018	.118	.061	.018	.114	.059	.017	
8.0	.125	.061	.017	.123	.060	.017	.118	.059	.017	.114	.058	.017	.110	.056	.016	
9.0	.120	.058	.016	.117	.057	.016	.113	.056	.016	.109	.055	.016	.106	.054	.015	
10.0	.114	.055	.015	.112	.054	.015	.109	.053	.015	.105	.052	.015	.102	.051	.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	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.132	.113	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.090	.123	.098	.078	.085	.068	.055	.049	.040	.032	.016	.013	.011	
4.0	.133	.099	.073	.114	.085	.063	.079	.060	.044	.045	.035	.026	.015	.011	.009	
5.0	.124	.087	.060	.107	.075	.052	.074	.053	.037	.043	.031	.022	.014	.010	.007	
6.0	.117	.078	.050	.100	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.110	.070	.042	.095	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.104	.064	.036	.090	.055	.032	.062	.039	.023	.036	.023	.013	.012	.008	.004	
9.0	.099	.059	.032	.085	.051	.028	.059	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.094	.054	.028	.081	.047	.024	.056	.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:17 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:239.94V I:0.0492A P:10.382W PF:0.8801 Freq:50.09Hz Lamp Flux:888.58x1 lm											
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_250mA_3K_24 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	17.7	18.7	18.0	18.8	19.0	18.0	18.9	18.2	19.1	19.2	
	3H	17.6	18.5	17.9	18.7	18.9	17.9	18.7	18.1	18.9	
	4H	17.6	18.4	17.9	18.7	18.9	17.8	18.6	18.1	18.9	
	6H	17.6	18.4	17.9	18.6	18.9	17.8	18.6	18.1	18.8	
	8H	17.6	18.3	17.9	18.6	18.8	17.8	18.5	18.1	18.8	
	12H	17.5	18.2	17.9	18.5	18.8	17.7	18.4	18.1	18.7	
4H	2H	17.6	18.4	17.9	18.6	18.8	17.8	18.6	18.1	18.8	
	3H	17.5	18.2	17.8	18.5	18.8	17.7	18.4	18.0	18.7	
	4H	17.5	18.2	17.9	18.5	18.8	17.7	18.4	18.1	18.7	
	6H	17.5	18.1	17.9	18.4	18.8	17.7	18.3	18.1	18.6	
	8H	17.5	18.1	17.9	18.4	18.8	17.7	18.2	18.1	18.6	
	12H	17.5	18.0	17.9	18.3	18.7	17.7	18.1	18.1	18.5	
8H	4H	17.4	17.9	17.8	18.3	18.7	17.6	18.1	18.0	18.5	
	6H	17.5	17.9	17.9	18.3	18.7	17.7	18.1	18.1	18.5	
	8H	17.5	17.9	18.0	18.3	18.7	17.7	18.0	18.1	18.5	
	12H	17.5	17.8	18.0	18.3	18.7	17.6	18.0	18.1	18.4	
12H	4H	17.4	17.9	17.8	18.2	18.6	17.6	18.1	18.0	18.4	
	6H	17.5	17.8	17.9	18.3	18.7	17.6	18.0	18.1	18.4	
	8H	17.5	17.8	18.0	18.3	18.7	17.6	18.0	18.1	18.4	
Variations with the observer position at spacings:											
S = 1.0H	+ 2.0 / - 3.8					+ 2.8 / - 4.8					
1.5H	+ 3.3 / - 2.9					+ 4.6 / - 3.5					
2.0H	+ 3.4 / - 2.9					+ 2.8 / - 3.8					

CIE Pub.117, 888.6 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -0.4$)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:17 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:239.94V I:0.0492A P:10.382W PF:0.8801 Freq:50.09Hz Lamp Flux:888.58x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_250mA_3K_24 DEG	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

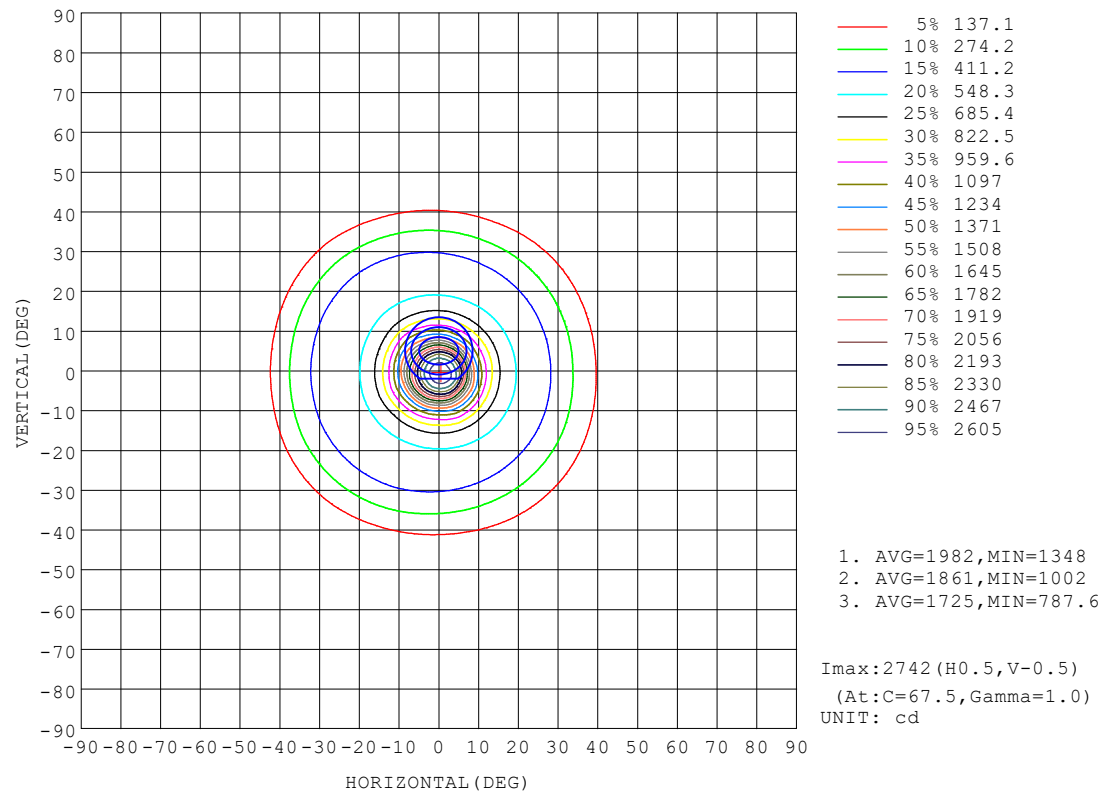
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	77	73	84	77	73	83	77	73	69
0.80	92	86	82	92	85	82	90	85	81	77
1.00	97	91	87	96	91	87	95	91	86	82
1.25	102	96	92	101	95	92	99	94	91	87
1.50	105	99	96	103	99	95	101	97	94	90
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	105	109	106	103	106	103	101	95
4.00	113	110	108	111	109	106	108	105	104	97
5.00	115	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:17 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:239.94V I:0.0492A P:10.382W PF:0.8801 Freq:50.09Hz Lamp Flux:888.58x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_250mA_3K_24 DEG	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

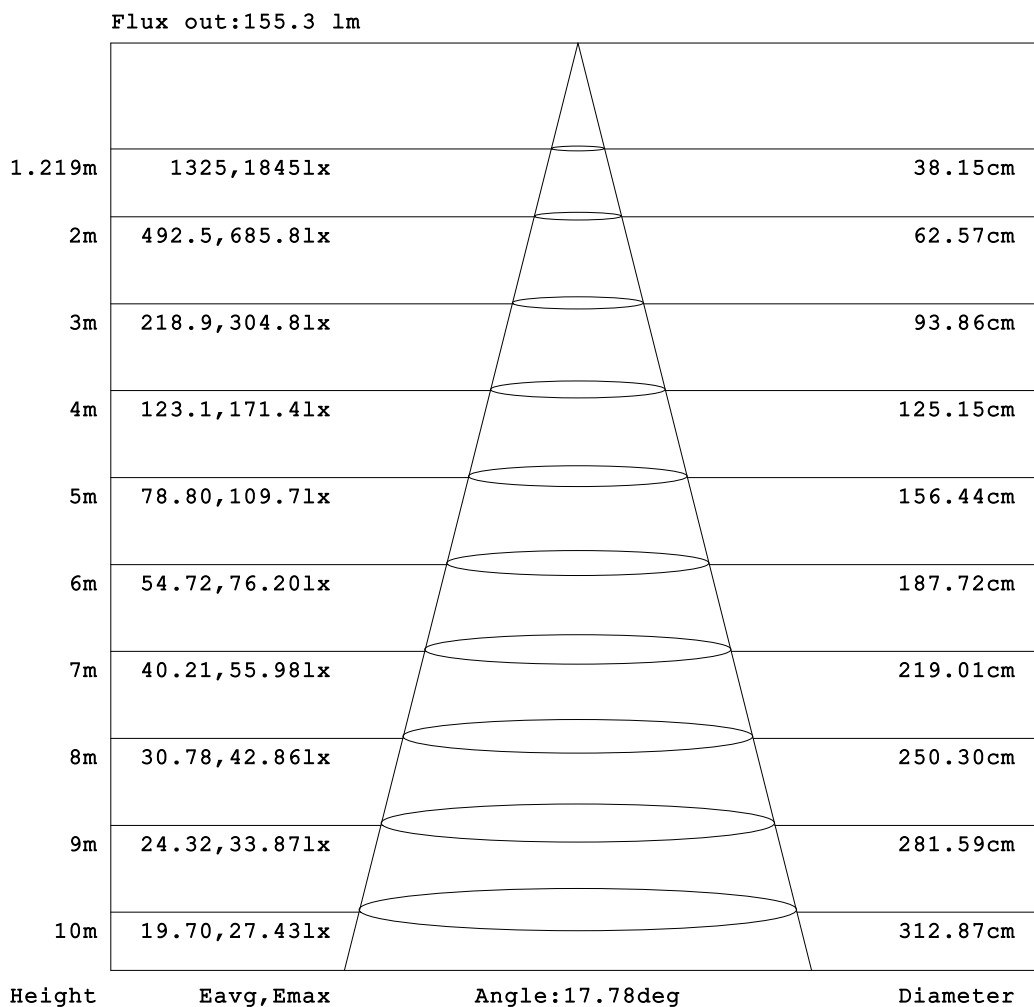


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JEFF
 Test Date:17 November 2020

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:239.94V I:0.0492A P:10.382W PF:0.8801 Freq:50.09Hz Lamp Flux:888.58x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_250mA_3K_24 DEG	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



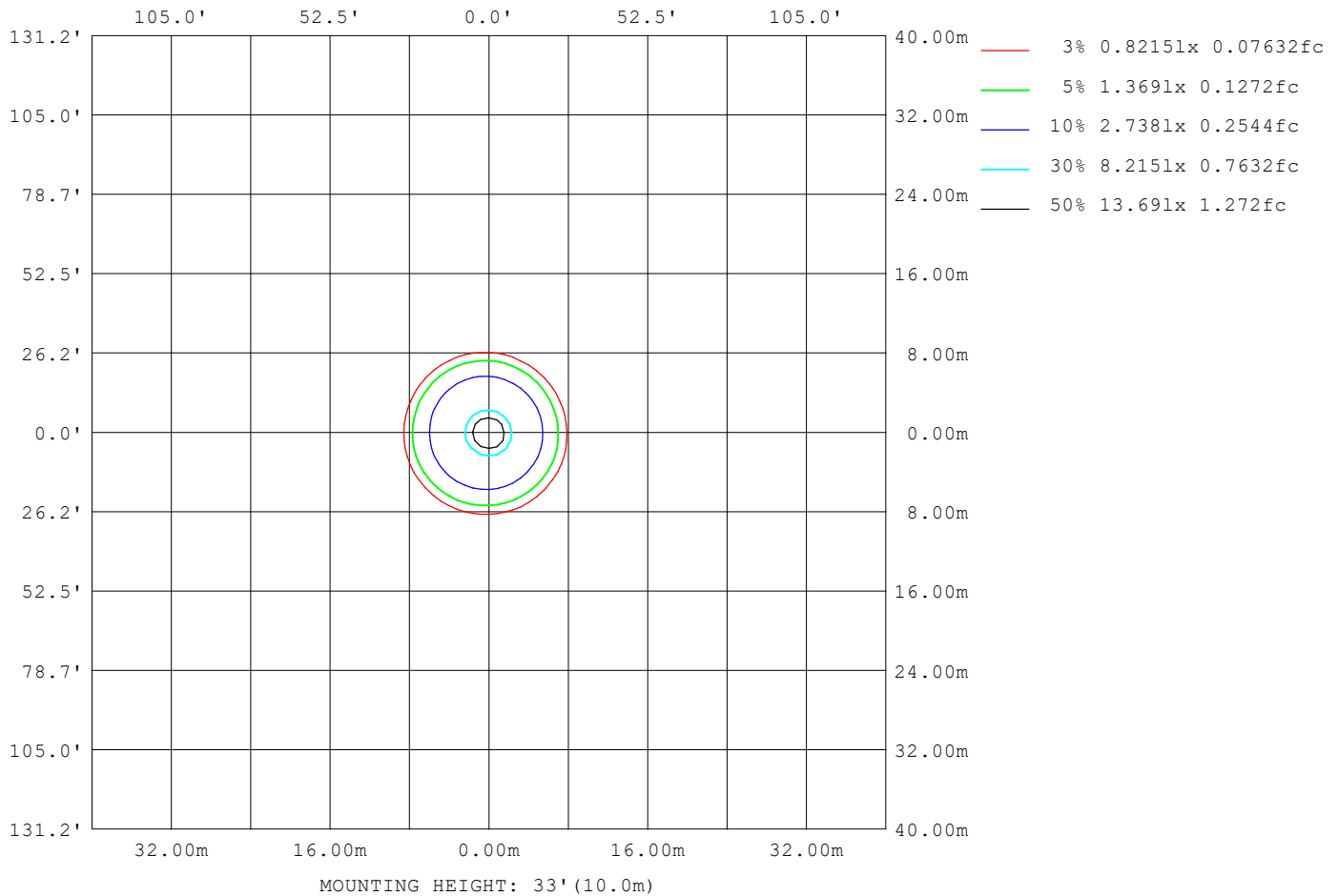
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:17 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:239.94V I:0.0492A P:10.382W PF:0.8801 Freq:50.09Hz Lamp Flux:888.58x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_250mA_3K_24 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:17 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:239.94V I:0.0492A P:10.382W PF:0.8801 Freq:50.09Hz Lamp Flux:888.58x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_250mA_3K_24 DEG	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

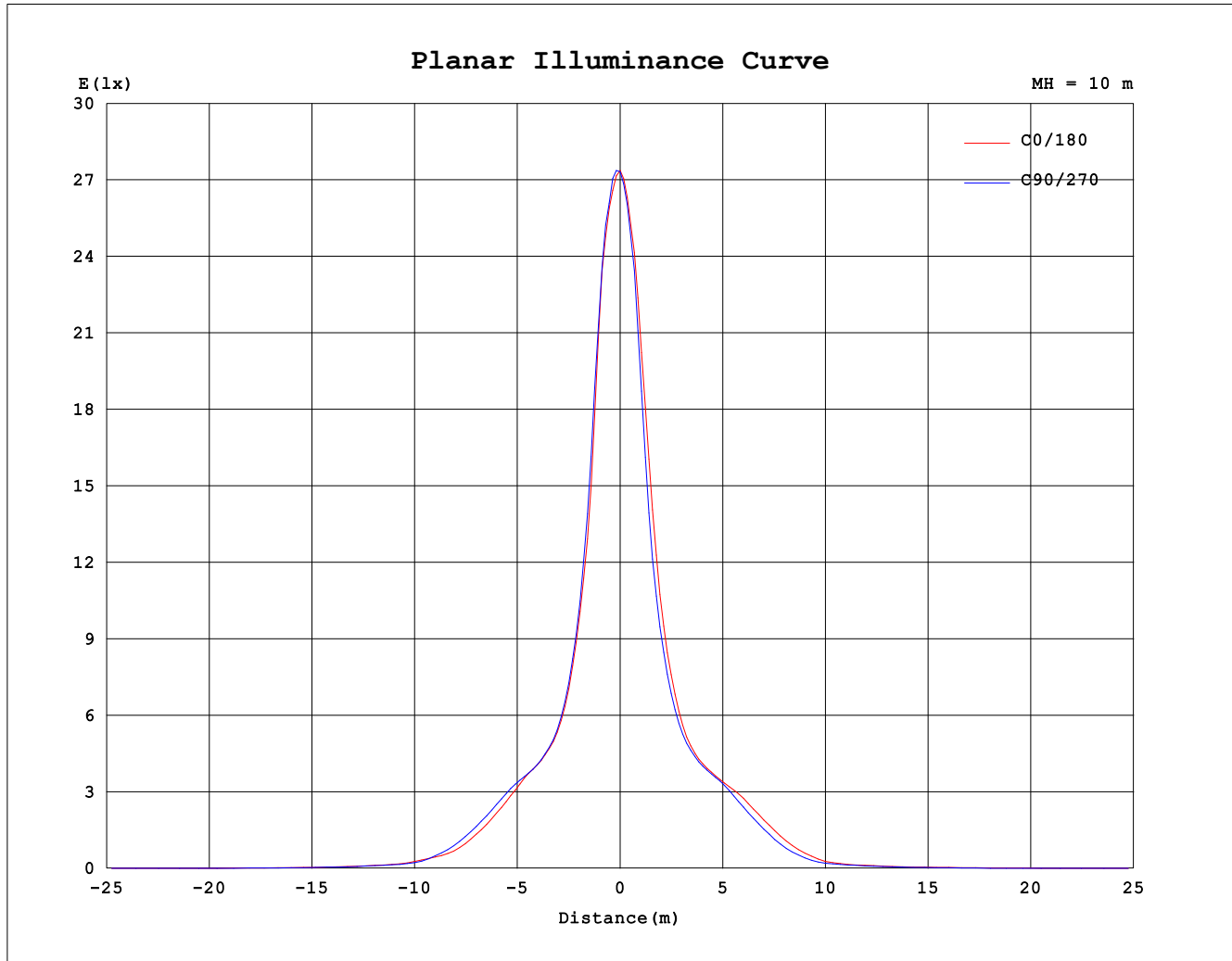
AvgL	cd/m2
L_0~180 (65) av	2474
L_0~180 (75) av	2181
L_0~180 (85) av	748
L_90~270 (65) av	1684
L_90~270 (75) av	2023
L_90~270 (85) av	752
L_45 (65) av	2151
L_45 (75) av	2070
L_45 (85) av	1302

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:17 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: 17 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:

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