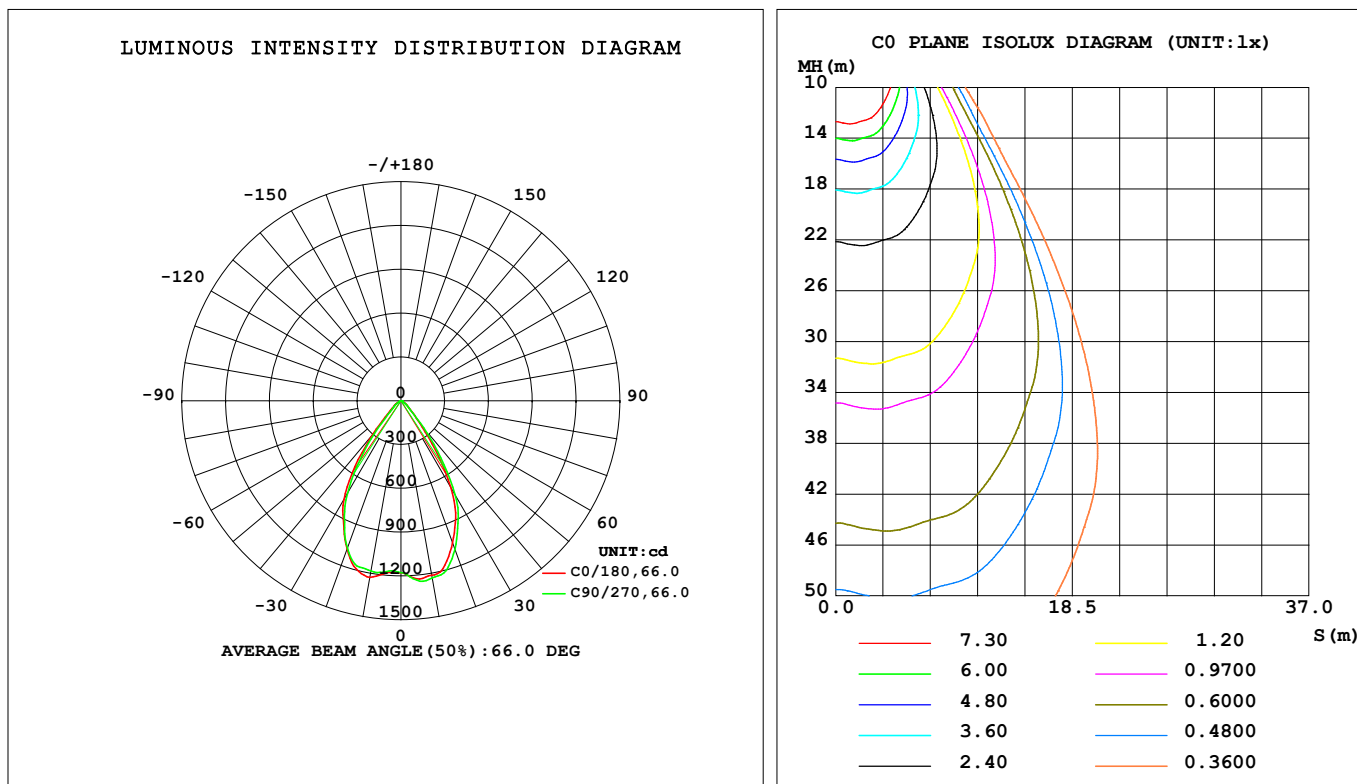


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:239.99V I:0.0642A P:14.221W PF:0.9234 Freq:50.09Hz Lamp Flux:1310.5x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_350mA_4K_50 DEG	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 92.15 lm/W
MODEL	SLE G7 09MM 4000K	I _{max} (cd)	1248	S/MH (C0/180)	1.00	
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	0.97	
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	1310.5	η UP,DN (C0-180)	0.0,49.8	
NOMINAL FLUX (lm)	1310.5	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,50.2	
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:14 October 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	1213	1232	1232	1221	1228	1207	1184	1169	0- 10	115.1	115.1	8.78,8.78
20	1036	1054	1082	1063	1081	1081	1074	1023	10- 20	326.3	441.4	33.7,33.7
30	679.5	697.0	741.1	752.5	782.4	779.9	733.7	682.8	20- 30	415.6	857.0	65.4,65.4
40	201.2	213.8	242.3	266.3	300.3	294.9	250.2	212.7	30- 40	297.6	1155	88.1,88.1
50	67.09	66.77	63.15	70.71	75.71	72.44	61.83	67.40	40- 50	97.24	1252	95.5,95.5
60	26.24	23.84	17.20	25.73	30.70	26.39	16.30	23.41	50- 60	39.85	1292	98.6,98.6
70	6.951	6.802	6.944	6.979	7.217	7.008	7.036	6.805	60- 70	11.32	1303	99.4,99.4
80	3.769	3.665	3.322	3.940	4.248	4.037	3.394	3.675	70- 80	6.025	1309	99.9,99.9
90	0.0313	0.0282	0.0125	0.0219	0.0940	0.0219	0.0063	0.0157	80- 90	1.397	1311	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): 1217.2 lm

%lum = 92.9%

%lamp = 92.9%

Conical surface Flux(120deg): 1291.8 lm

%lum = 98.6%

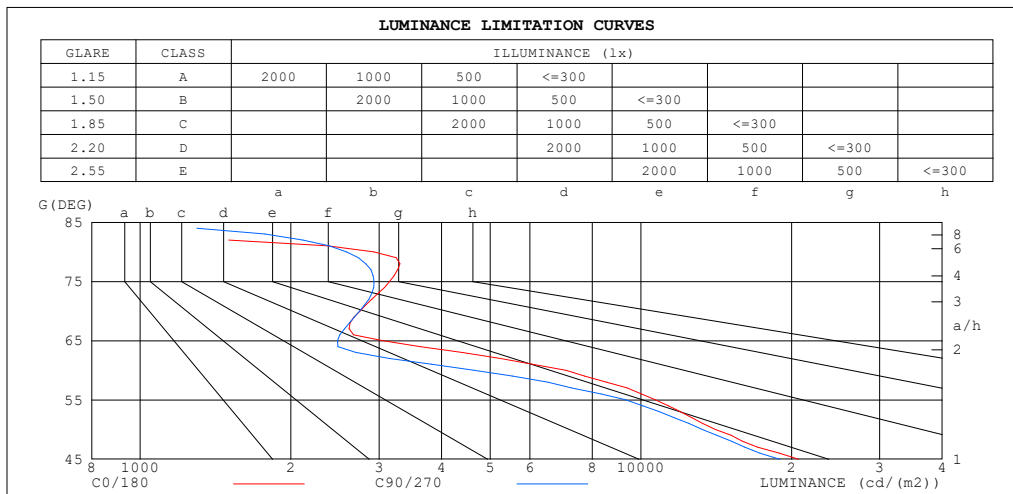
%lamp = 98.6%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:14 October 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:239.99V I:0.0642A P:14.221W PF:0.9234 Freq:50.09Hz Lamp Flux:1310.5x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_350mA_4K_50 DEG	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1038	701
80	2933	2585
75	3152	2933
70	2746	2744
65	3044	2480
60	7092	4650
55	10693	9321
50	14104	13277
45	20671	18944

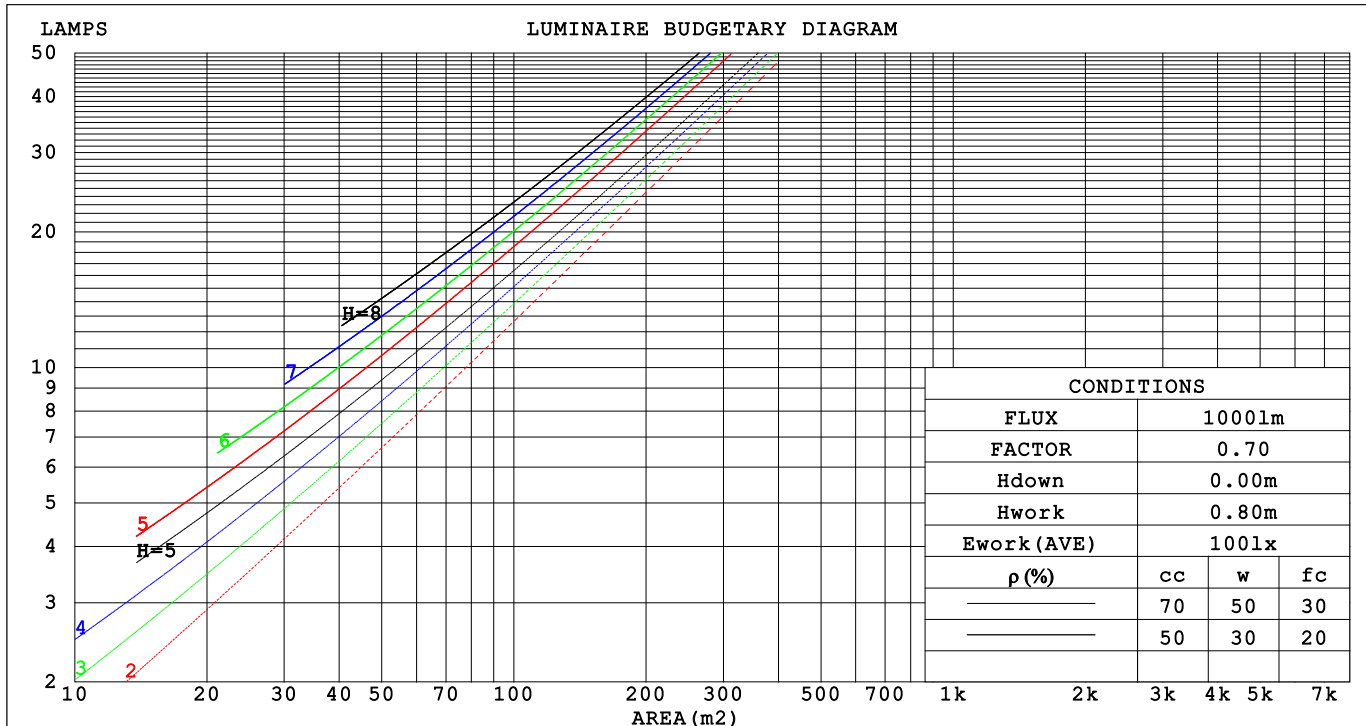
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:14 October 2020

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:239.99V I:0.0642A P:14.221W PF:0.9234 Freq:50.09Hz Lamp Flux:1310.5x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_350mA_4K_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:14 October 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:239.99V I:0.0642A P:14.221W PF:0.9234 Freq:50.09Hz Lamp Flux:1310.5x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_350mA_4K_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	.108	.034	.182	.104	.033	.170	.097	.031	.158	.091	.029	.147	.085	.028	
2.0	.182	.100	.031	.176	.097	.030	.165	.092	.029	.156	.087	.027	.146	.083	.026	
3.0	.173	.092	.028	.169	.090	.027	.159	.086	.026	.151	.083	.025	.143	.079	.025	
4.0	.165	.086	.025	.161	.084	.025	.153	.081	.024	.146	.078	.024	.139	.075	.023	
5.0	.157	.080	.023	.154	.079	.023	.147	.076	.022	.140	.074	.022	.134	.072	.022	
6.0	.150	.075	.022	.147	.074	.021	.141	.072	.021	.135	.070	.021	.129	.068	.020	
7.0	.143	.071	.020	.140	.070	.020	.135	.068	.020	.130	.066	.019	.125	.065	.019	
8.0	.137	.067	.019	.134	.066	.019	.129	.065	.018	.125	.063	.018	.120	.062	.018	
9.0	.131	.063	.018	.128	.063	.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	.053	.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	.050	.076	.053	.036	.044	.031	.021	.014	.010	.007	
6.0	.121	.079	.048	.104	.068	.042	.072	.048	.030	.042	.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:14 October 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:239.99V I:0.0642A P:14.221W PF:0.9234 Freq:50.09Hz Lamp Flux:1310.5x1 lm											
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_350mA_4K_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		18.3	19.3	18.5	19.5	19.6	18.5	19.5	18.7	19.7	19.8
3H		18.1	19.1	18.4	19.3	19.5	18.3	19.3	18.6	19.5	19.7
4H		18.1	19.0	18.4	19.2	19.4	18.3	19.2	18.6	19.4	19.6
6H		18.1	18.9	18.4	19.1	19.4	18.2	19.1	18.5	19.3	19.6
8H		18.0	18.8	18.3	19.1	19.4	18.2	19.0	18.5	19.3	19.5
12H		18.0	18.8	18.3	19.0	19.3	18.2	18.9	18.5	19.2	19.5
4H 2H		18.1	19.0	18.4	19.2	19.4	18.3	19.2	18.6	19.4	19.6
3H		18.0	18.7	18.3	19.0	19.3	18.2	18.9	18.5	19.2	19.5
4H		18.0	18.7	18.3	19.0	19.3	18.2	18.8	18.5	19.1	19.5
6H		18.0	18.6	18.4	18.9	19.3	18.1	18.7	18.5	19.1	19.4
8H		17.9	18.5	18.3	18.9	19.2	18.1	18.7	18.5	19.0	19.4
12H		17.9	18.4	18.3	18.8	19.2	18.1	18.6	18.5	18.9	19.3
8H 4H		17.9	18.4	18.3	18.8	19.2	18.1	18.6	18.4	19.0	19.3
6H		17.9	18.4	18.3	18.8	19.2	18.1	18.5	18.5	18.9	19.3
8H		17.9	18.3	18.3	18.7	19.2	18.0	18.4	18.5	18.9	19.3
12H		17.9	18.2	18.3	18.6	19.1	18.0	18.3	18.5	18.8	19.2
12H 4H		17.8	18.3	18.2	18.7	19.1	18.0	18.5	18.4	18.9	19.3
6H		17.9	18.3	18.3	18.7	19.1	18.0	18.4	18.5	18.8	19.3
8H		17.9	18.2	18.3	18.6	19.1	18.0	18.3	18.5	18.8	19.3
Variations with the observer position at spacings:											
S = 1.0H		+ 2.4 / - 3.9					+ 3.0 / - 5.2				
1.5H		+ 4.0 / - 2.6					+ 4.8 / - 3.4				
2.0H		+ 3.1 / - 4.1					+ 3.2 / - 4.5				

CIE Pub.117, 1311 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.9)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:14 October 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:239.99V I:0.0642A P:14.221W PF:0.9234 Freq:50.09Hz Lamp Flux:1310.5x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_350mA_4K_50 DEG	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

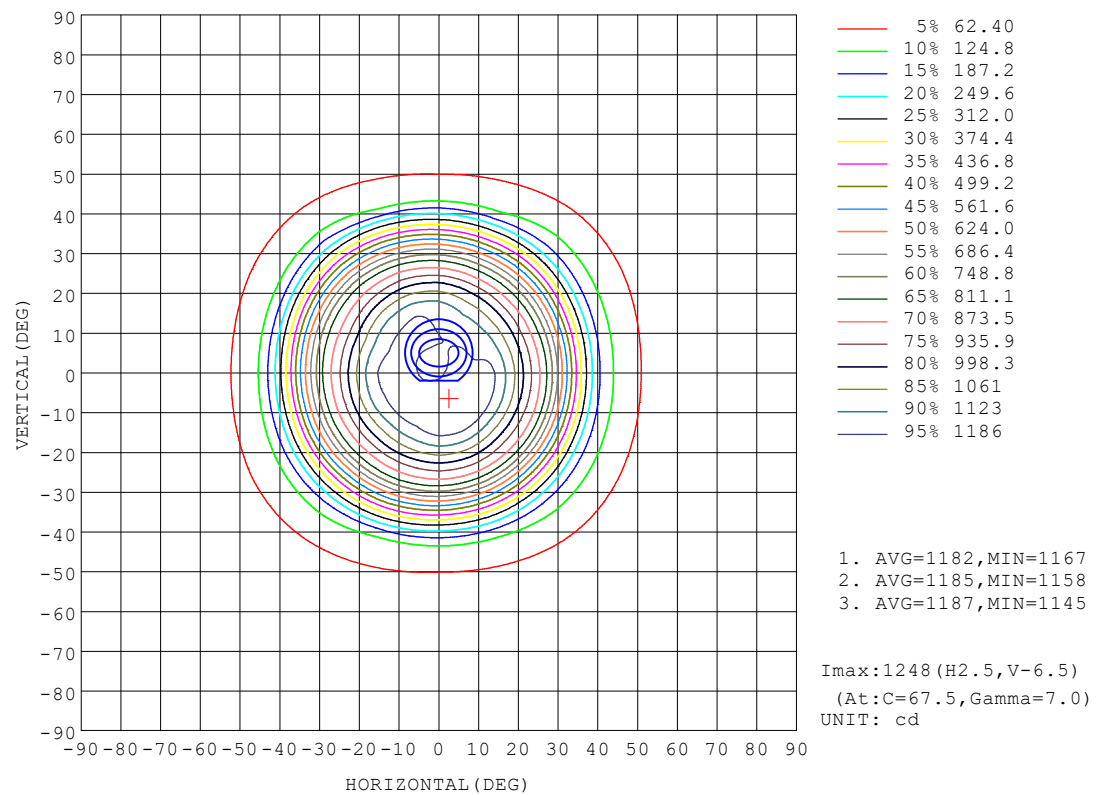
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	77	73	83	77	73	83	76	73	69
0.80	92	85	81	91	85	81	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:14 October 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:239.99V I:0.0642A P:14.221W PF:0.9234 Freq:50.09Hz Lamp Flux:1310.5x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_350mA_4K_50 DEG	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

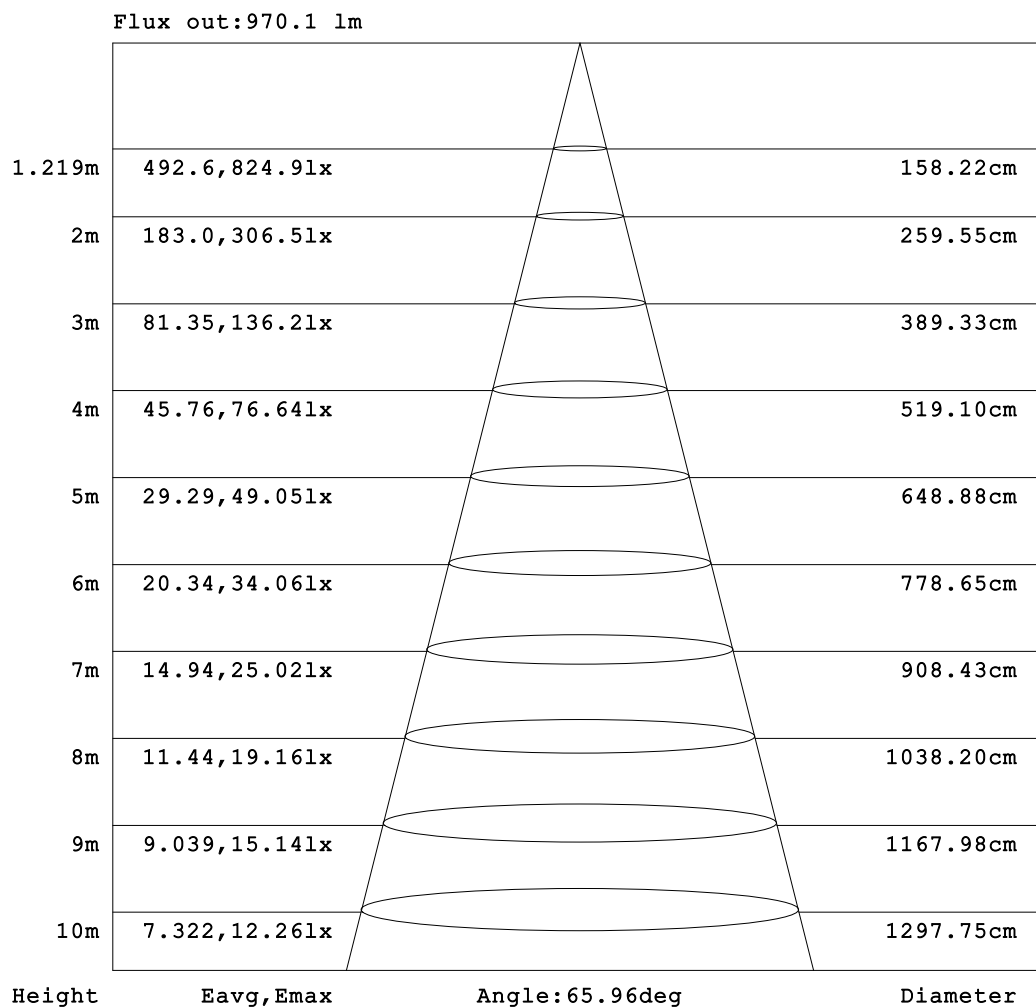


C Range: 0 - 360DEG
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 Test Speed: HIGH
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 Test Date:14 October 2020

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:239.99V I:0.0642A P:14.221W PF:0.9234 Freq:50.09Hz Lamp Flux:1310.5x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_350mA_4K_50 DEG	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



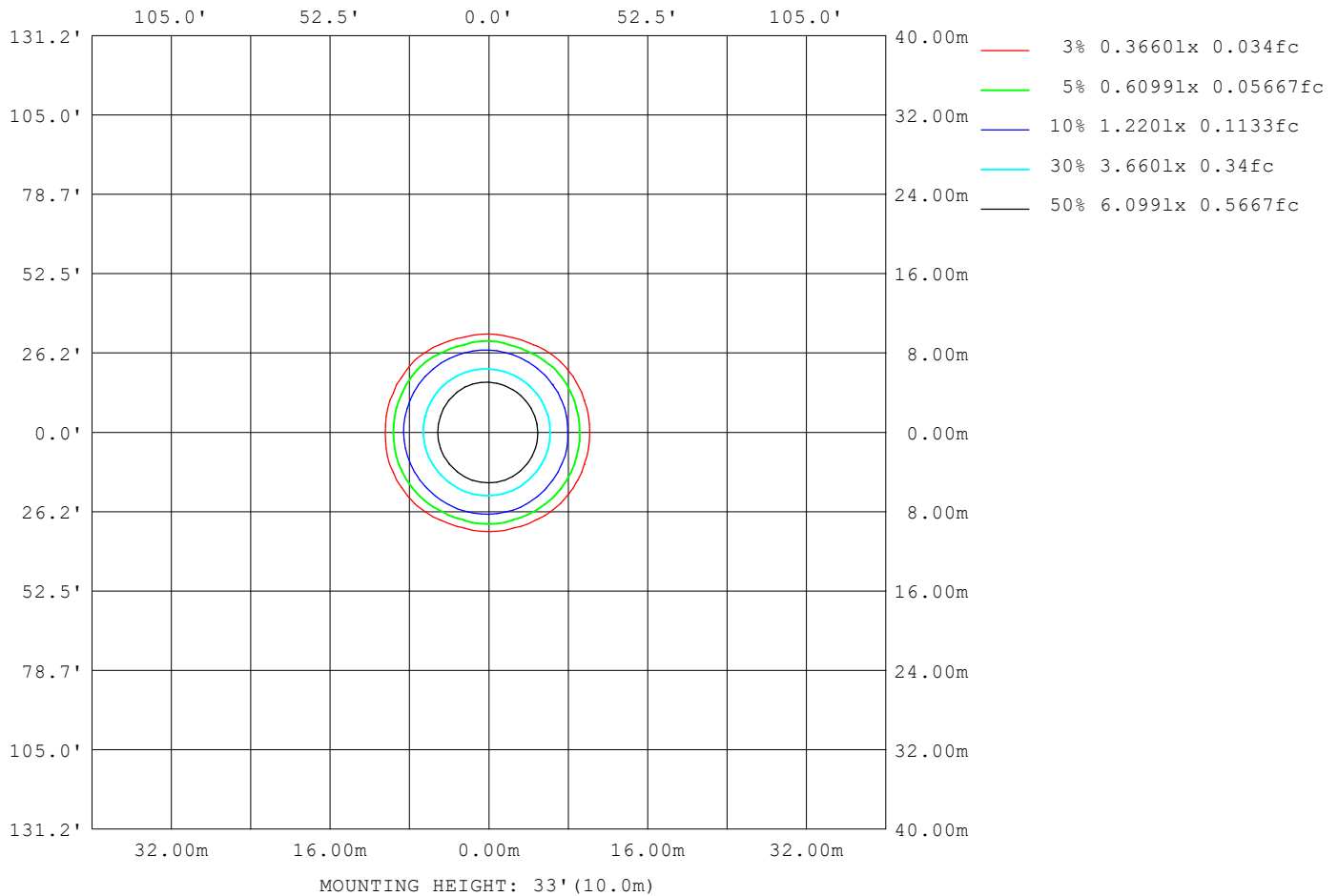
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:14 October 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:239.99V I:0.0642A P:14.221W PF:0.9234 Freq:50.09Hz Lamp Flux:1310.5x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_350mA_4K_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:14 October 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:239.99V I:0.0642A P:14.221W PF:0.9234 Freq:50.09Hz Lamp Flux:1310.5x1 lm		
NAME: DEEP DOWN IP44_WHT_SLE G7 09mm_350mA_4K_50 DEG	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

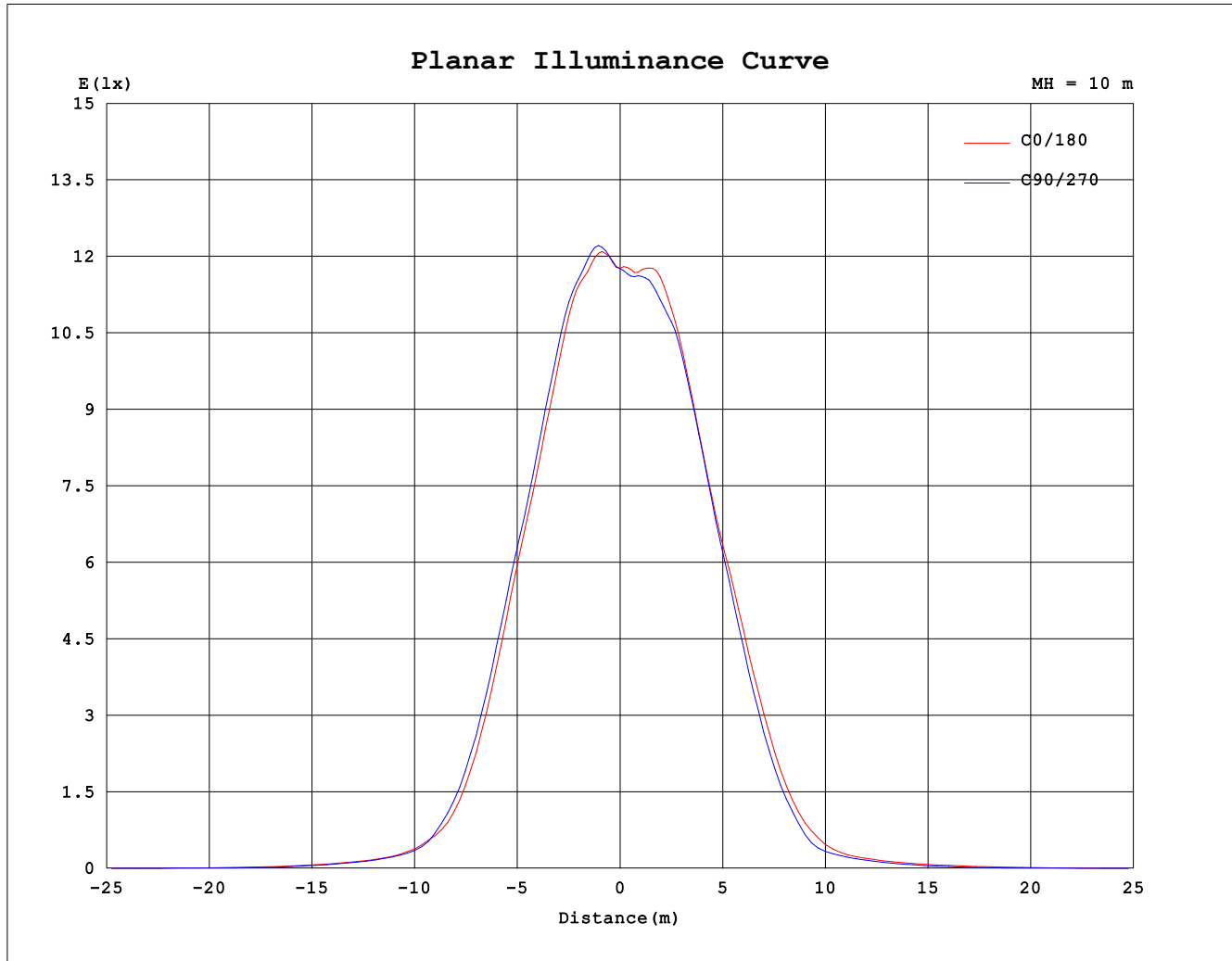
AvgL	cd/m2
L_0~180(65)av	3579
L_0~180(75)av	3244
L_0~180(85)av	1192
L_90~270(65)av	2496
L_90~270(75)av	2954
L_90~270(85)av	733
L_45(65)av	2942
L_45(75)av	3043
L_45(85)av	1496

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
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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: 14 October 2020

γ Range: 0 - 90DEG
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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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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:

```