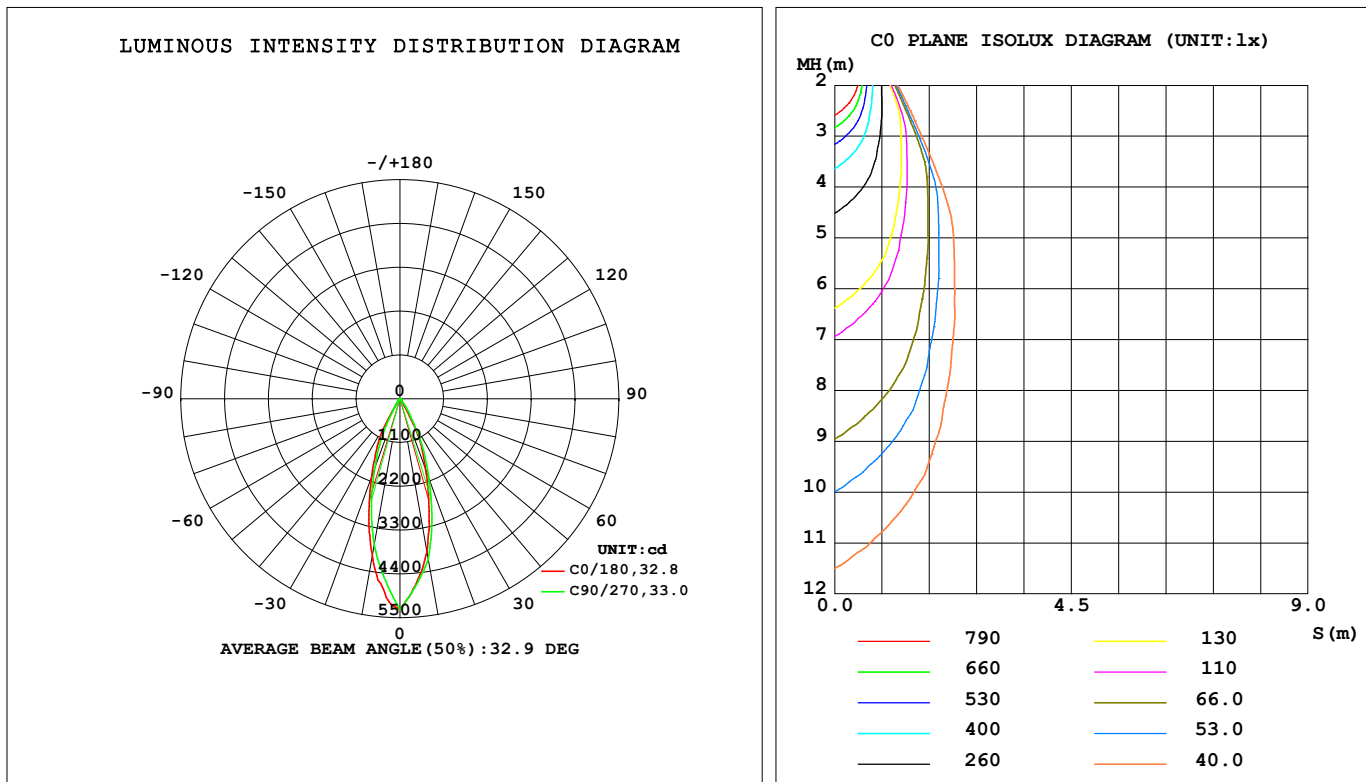


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:226.4V I:0.1234A P:25.07W PF:0.8977 Lamp Flux:1903.77x1 lm		
NAME: DEEPER DOWN MAXI LED_WHT_24W_3K_30°	TYPE:CEJ1125	WEIGHT:
SPEC.:30 _i ā	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:D=0.1	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 75.95 lm/W
MODEL	700MA 3000K V13	I _{max} (cd)	5295	S/MH (C0/180)	0.55	
NOMINAL POWER (W)	24	LOR (%)	100.0	S/MH (C90/270)	0.51	
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	1903.8	η UP,DN (C0-180)	0.0,52.0	
NOMINAL FLUX (lm)	1903.77	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,48.0	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE (V)	220.0	η down (%)	100.0	CIBSE SHR MAX	0.60	



C Range: 0 - 360DEG

C Interval: 5.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: ZhangZhenNan

Test Date: 2015-11-10

γ Range: 0 - 90DEG

γ Interval: 0.5DEG

Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.284

Humidity: 65.0%

Test Distance: 7.500m [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
5	4671	4538	4699	4696	4792	4548	4515	4412	0- 5	115.6	115.6	6.07,6.07
10	3914	3811	4102	3961	4009	3698	3735	3590	5- 10	298.1	413.6	21.7,21.7
15	2824	2975	3110	3128	3026	2819	2786	2723	10- 15	395.3	808.9	42.5,42.5
20	1891	2019	2119	2178	2072	1955	1836	1860	15- 20	395.4	1204	63.3,63.3
25	1250	1321	1357	1434	1378	1298	1109	1170	20- 25	334.1	1538	80.8,80.8
30	375.1	588.5	594.9	784.0	636.8	652.9	382.7	466.3	25- 30	224.3	1763	92.6,92.6
35	63.41	143.3	316.9	231.0	122.3	175.4	209.4	118.2	30- 35	85.27	1848	97.1,97.1
40	35.73	36.35	38.89	43.27	43.36	39.92	36.14	36.43	35- 40	27.95	1876	98.5,98.5
45	20.92	21.74	25.98	26.47	24.64	24.72	24.71	22.74	40- 45	11.57	1887	99.1,99.1
50	13.56	12.04	13.07	15.16	15.75	14.74	13.28	13.33	45- 50	7.282	1895	99.5,99.5
55	4.685	6.276	7.937	8.396	5.239	7.761	8.063	6.177	50- 55	4.000	1899	99.7,99.7
60	3.083	2.760	2.799	3.298	3.410	2.951	2.848	3.115	55- 60	2.027	1901	99.8,99.8
65	1.994	1.830	1.992	2.214	2.183	1.929	2.003	2.072	60- 65	1.221	1902	99.9,99.9
70	1.244	1.119	1.185	1.399	1.352	1.183	1.157	1.291	65- 70	0.8156	1903	99.9,99.9
75	0.7311	0.6764	0.7933	0.8405	0.7966	0.6819	0.7514	0.7597	70- 75	0.5128	1903	100,100
80	0.3700	0.3546	0.4018	0.4811	0.4102	0.3682	0.3454	0.4170	75- 80	0.3042	1904	100,100
85	0.1096	0.0819	0	0.1196	0.1366	0.0827	0	0.0965	80- 85	0.1291	1904	100,100
90	0	0	0	0	0	0	0	0	85- 90	0.0102	1904	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1887.5 lm

%lum = 99.1%
%lamp = 99.1%

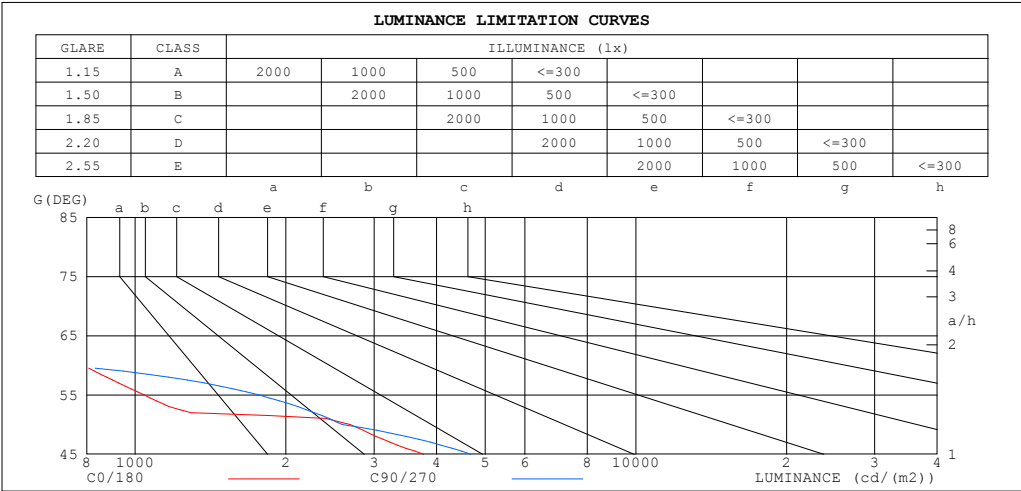
Conical surface Flux(120deg): 1900.8 lm

%lum = 99.8%
%lamp = 99.8%

<p>C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature:25.3DEG Operators:ZhangZhenNan Test Date:2015-11-10</p>	<p>γ Range: 0 - 90DEG γ Interval: 0.5DEG Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.284 Humidity:65.0% Test Distance:7.500m [K=1.0000] Remarks:</p>
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LUMINANCE LIMITATION CURVES

Test:U:226.4V I:0.1234A P:25.07W PF:0.8977 Lamp Flux:1903.77x1 lm		
NAME: DEEPER DOWN MAXI LED_WHT_24W_3K_30°	TYPE:CEJ1125	WEIGHT:
SPEC.:30 _i ã	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:D=0.1	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	160	0
80	271	295
75	360	390
70	463	441
65	601	600
60	785	713
55	1040	1763
50	2686	2591
45	3769	4681

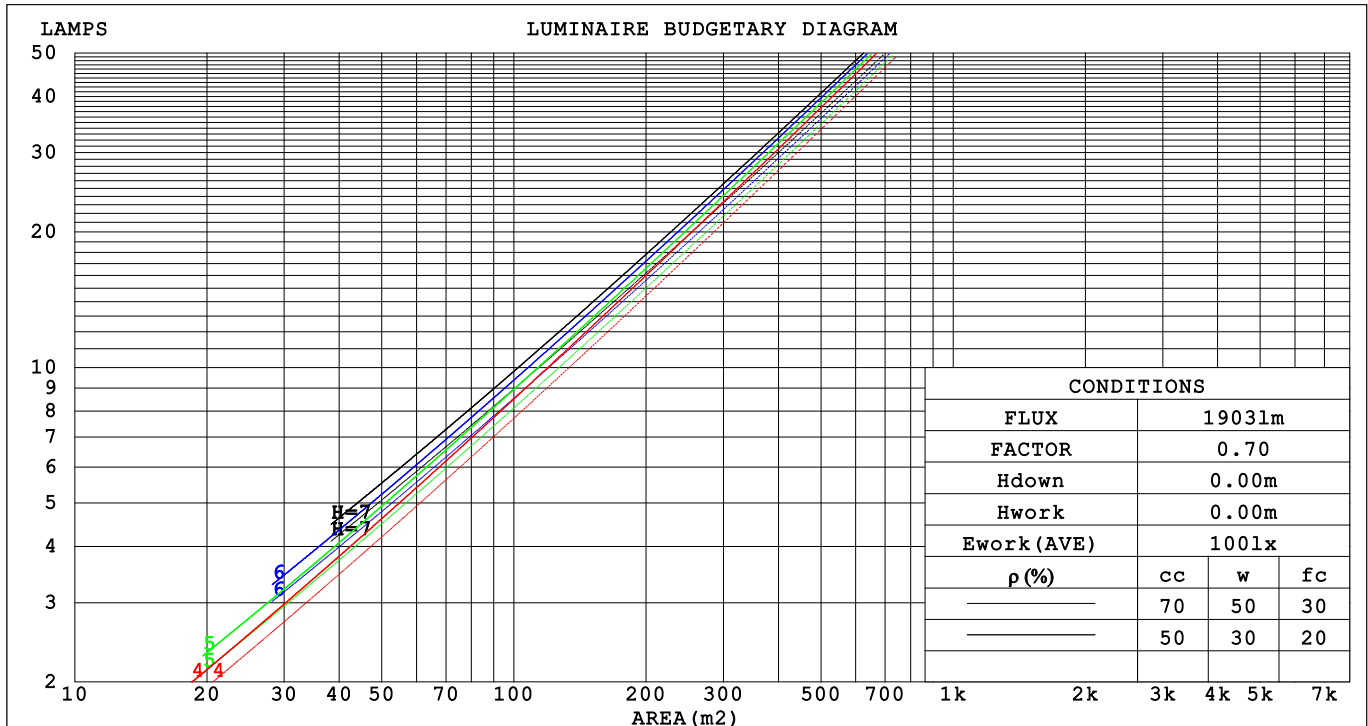
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangZhenNan
Test Date:2015-11-10

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.284
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:226.4V I:0.1234A P:25.07W PF:0.8977 Lamp Flux:1903.77x1 lm		
NAME: DEEPER DOWN MAXI LED_WHT_24W_3K_30°	TYPE:CEJ1125	WEIGHT:
SPEC.:30 _i ā	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:D=0.1	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	.00
1.0	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	.00	1.04	1.01	.99	1.01	.99	.97	.98	.96	.95	.96	.94	.93	.91
3.0	1.01	.97	.93	.99	.96	.93	.97	.94	.91	.94	.92	.90	.92	.90	.88	.87
4.0	.96	.91	.88	.95	.91	.87	.93	.89	.86	.91	.88	.85	.89	.87	.85	.83
5.0	.91	.87	.83	.91	.86	.83	.89	.85	.82	.87	.84	.82	.86	.83	.81	.80
6.0	.87	.83	.79	.87	.82	.79	.85	.81	.78	.84	.81	.78	.83	.80	.77	.76
7.0	.84	.79	.76	.83	.79	.75	.82	.78	.75	.81	.77	.75	.80	.77	.74	.73
8.0	.80	.76	.72	.80	.75	.72	.79	.75	.72	.78	.74	.72	.77	.74	.71	.70
9.0	.77	.72	.69	.77	.72	.69	.76	.72	.69	.75	.71	.69	.74	.71	.69	.67
10.0	.74	.70	.67	.74	.69	.66	.73	.69	.66	.73	.69	.66	.72	.68	.66	.65



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ZhangZhenNan
 Test Date:2015-11-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.284
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:226.4V I:0.1234A P:25.07W PF:0.8977 Lamp Flux:1903.77x1 lm																	
NAME: DEEPER DOWN MAXI LED_WHT_24W_3K_30°									TYPE:CEJ1125			WEIGHT:					
SPEC.:30 _i ã									DIM.:			SERIAL No.:					
MFR.: DARKON									SUR.:D=0.1			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	.151	.086	.027	.144	.082	.026	.132	.076	.024	.120	.069	.022	.110	.064	.021	
2.0	.142	.078	.024	.136	.075	.023	.126	.070	.022	.116	.065	.020	.107	.061	.019	
3.0	.133	.071	.021	.129	.069	.021	.120	.065	.020	.112	.061	.019	.105	.058	.018	
4.0	.126	.066	.019	.122	.064	.019	.115	.061	.018	.108	.058	.017	.102	.055	.017	
5.0	.120	.061	.018	.116	.060	.017	.110	.057	.017	.104	.055	.016	.098	.053	.016	
6.0	.114	.057	.016	.111	.056	.016	.105	.054	.016	.100	.052	.015	.095	.050	.015	
7.0	.109	.054	.015	.106	.053	.015	.101	.051	.015	.097	.050	.014	.093	.048	.014	
8.0	.104	.051	.014	.102	.050	.014	.098	.049	.014	.094	.047	.014	.090	.046	.013	
9.0	.100	.048	.013	.098	.048	.013	.094	.047	.013	.091	.045	.013	.087	.044	.013	
10.0	.096	.046	.013	.094	.046	.013	.091	.045	.013	.088	.044	.012	.085	.043	.012	

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	.169	.158	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.116	.130	.114	.100	.089	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.138	.113	.094	.118	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.127	.098	.077	.109	.085	.067	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.117	.086	.064	.100	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.108	.076	.053	.093	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.006	
7.0	.101	.069	.045	.087	.059	.040	.060	.042	.028	.035	.025	.017	.011	.008	.006	
8.0	.095	.062	.039	.082	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.090	.057	.034	.078	.049	.030	.054	.035	.021	.031	.020	.013	.010	.007	.004	
10.0	.085	.052	.030	.074	.045	.026	.051	.032	.018	.030	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG

C Interval: 5.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:ZhangZhenNan

Test Date:2015-11-10

γ Range: 0 - 90DEG

γ Interval: 0.5DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.284

Humidity:65.0%

Test Distance:7.500m [K=1.0000]

Remarks:

UGR(Unified Glare Rating) Table

Test:U:226.4V I:0.1234A P:25.07W PF:0.8977 Lamp Flux:1903.77x1 lm		
NAME: DEEPER DOWN MAXI LED_WHT_24W_3K_30°	TYPE:CEJ1125	WEIGHT:
SPEC.:30 _i ã	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:D=0.1	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	7.0	7.8	7.2	8.0	8.1	12.1	12.9	12.3	13.0	13.2
3H	6.9	7.6	7.2	7.8	8.0	12.0	12.7	12.2	12.8	13.0
4H	6.9	7.5	7.1	7.7	8.0	11.9	12.5	12.1	12.8	13.0
6H	6.8	7.4	7.1	7.7	7.9	11.8	12.4	12.1	12.7	12.9
8H	6.8	7.4	7.1	7.6	7.9	11.8	12.4	12.1	12.6	12.9
12H	6.7	7.3	7.0	7.5	7.8	11.7	12.3	12.0	12.6	12.8
4H 2H	6.8	7.5	7.1	7.7	7.9	11.9	12.5	12.1	12.7	13.0
3H	6.7	7.3	7.0	7.6	7.8	11.7	12.3	12.0	12.6	12.8
4H	6.7	7.2	7.0	7.5	7.8	11.6	12.2	12.0	12.4	12.7
6H	6.6	7.0	7.0	7.4	7.7	11.5	12.0	11.9	12.3	12.7
8H	6.5	7.0	6.9	7.3	7.7	11.5	11.9	11.9	12.3	12.6
12H	6.5	6.9	6.9	7.3	7.6	11.4	11.8	11.8	12.2	12.6
8H 4H	6.5	7.0	6.9	7.3	7.7	11.5	11.9	11.9	12.3	12.6
6H	6.4	6.8	6.9	7.2	7.6	11.4	11.7	11.8	12.1	12.5
8H	6.4	6.7	6.8	7.1	7.6	11.3	11.6	11.8	12.1	12.5
12H	6.3	6.6	6.8	7.1	7.5	11.3	11.5	11.7	12.0	12.4
12H 4H	6.5	6.9	6.9	7.2	7.6	11.4	11.8	11.8	12.2	12.6
6H	6.4	6.7	6.8	7.1	7.6	11.3	11.6	11.8	12.1	12.5
8H	6.3	6.6	6.8	7.1	7.5	11.3	11.5	11.7	12.0	12.4
Variations with the observer position at spacings:										
S = 1.0H	+ 2.5 / - 5.6					+ 5.5 / -10.8				
1.5H	+ 3.8 / - 5.5					+ 8.0 / -11.3				
2.0H	+ 4.9 / - 4.2					+ 5.2 / - 5.4				

CIE Pub.117 Corrected 1904 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.2)

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature:25.3DEG Operators:ZhangZhenNan Test Date:2015-11-10	γ Range: 0 - 90DEG γ Interval: 0.5DEG Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.284 Humidity:65.0% Test Distance:7.500m [K=1.0000] Remarks:
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UTILIZATION FACTORS TABLE

Test:U:226.4V I:0.1234A P:25.07W PF:0.8977 Lamp Flux:1903.77x1 lm		
NAME: DEEPER DOWN MAXI LED_WHT_24W_3K_30°	TYPE:CEJ1125	WEIGHT:
SPEC.:30 ₁ °	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:D=0.1	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) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	81	90	85	81	89	84	81	78
0.80	98	92	89	97	92	89	96	91	89	85
1.00	101	96	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	108	103	100	106	103	100	104	101	99	94
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	109	107	111	108	106	108	105	104	98
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	112	110	110	108	107	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG

C Interval: 5.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:ZhangZhenNan

Test Date:2015-11-10

γ Range: 0 - 90DEG

γ Interval: 0.5DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.284

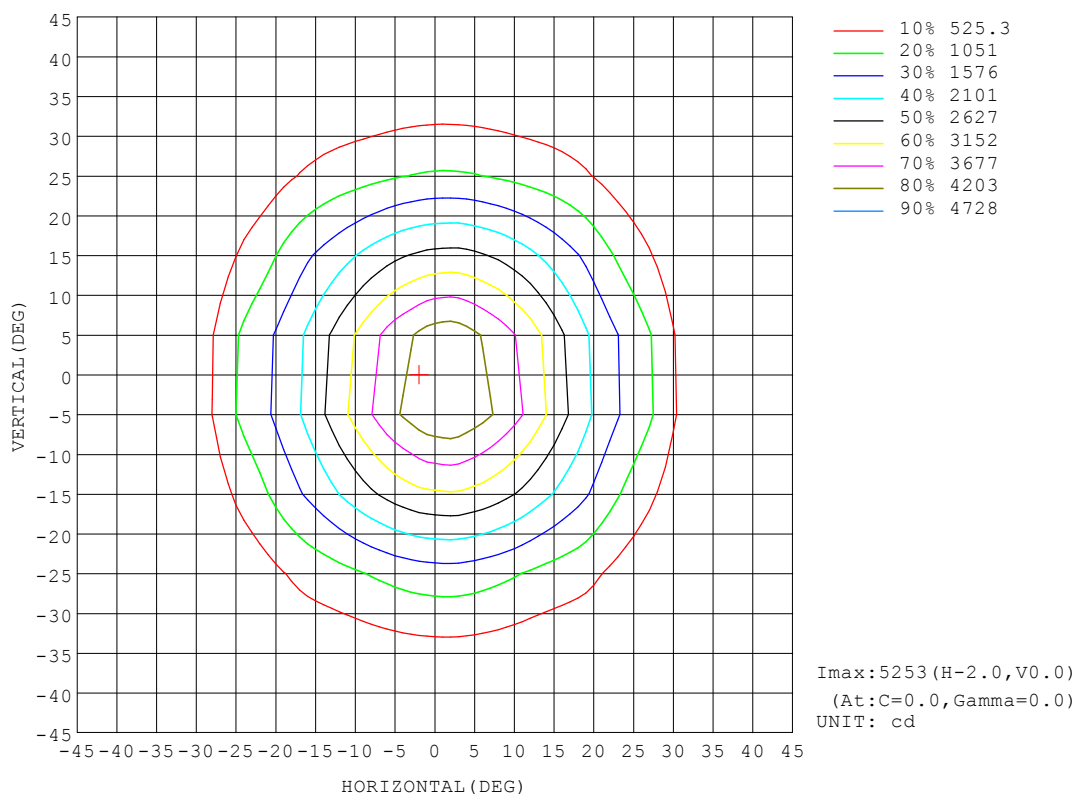
Humidity:65.0%

Test Distance:7.500m [K=1.0000]

Remarks:

ISOCANDELA DIAGRAM

Test:U:226.4V I:0.1234A P:25.07W PF:0.8977 Lamp Flux:1903.77x1 lm		
NAME: DEEPER DOWN MAXI LED_WHT_24W_3K_30°	TYPE:CEJ1125	WEIGHT:
SPEC.:30 _i ã	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:D=0.1	Shielding Angle:

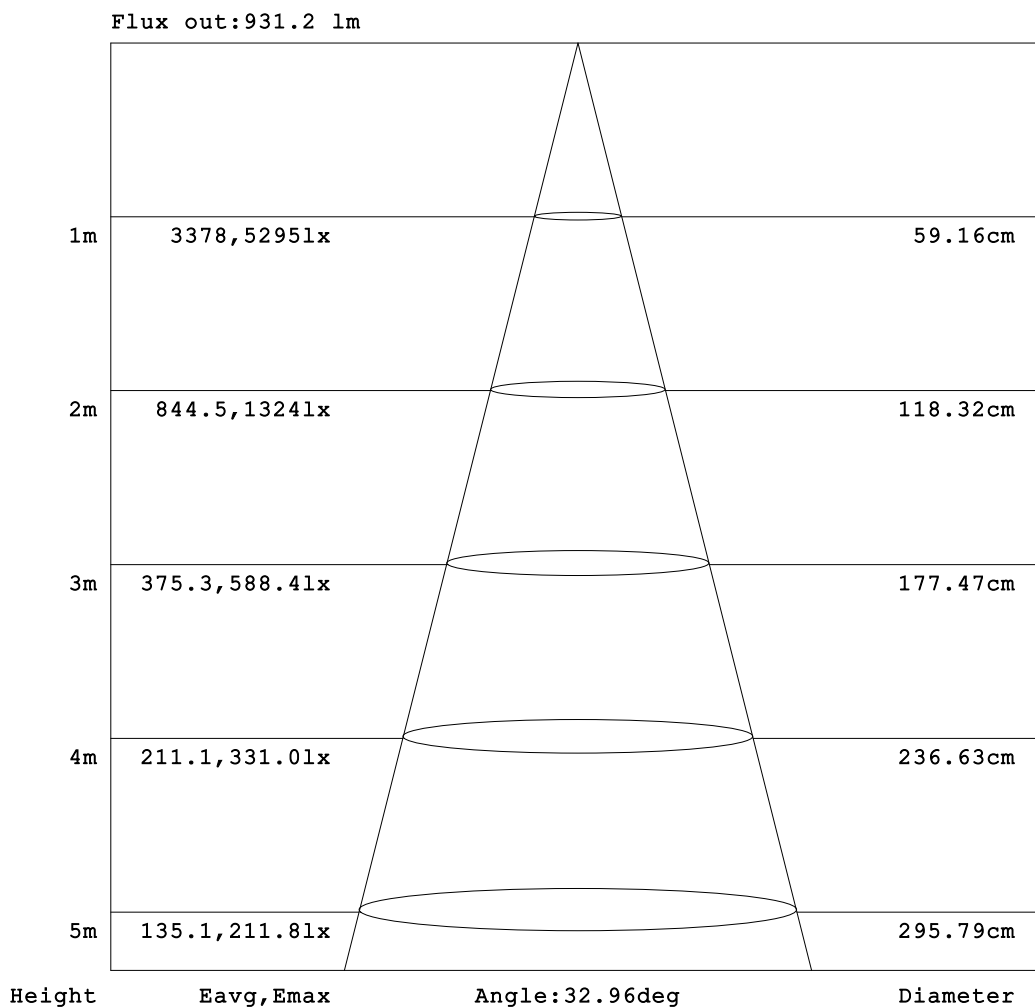


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ZhangZhenNan
 Test Date:2015-11-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.284
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

AAI Figure

Test:U:226.4V I:0.1234A P:25.07W PF:0.8977 Lamp Flux:1903.77x1 lm		
NAME: DEEPER DOWN MAXI LED_WHT_24W_3K_30°	TYPE:CEJ1125	WEIGHT:
SPEC.:30,ã	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:D=0.1	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: 5.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:ZhangZhenNan

Test Date:2015-11-10

γ Range: 0 - 90DEG

γ Interval: 0.5DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.284

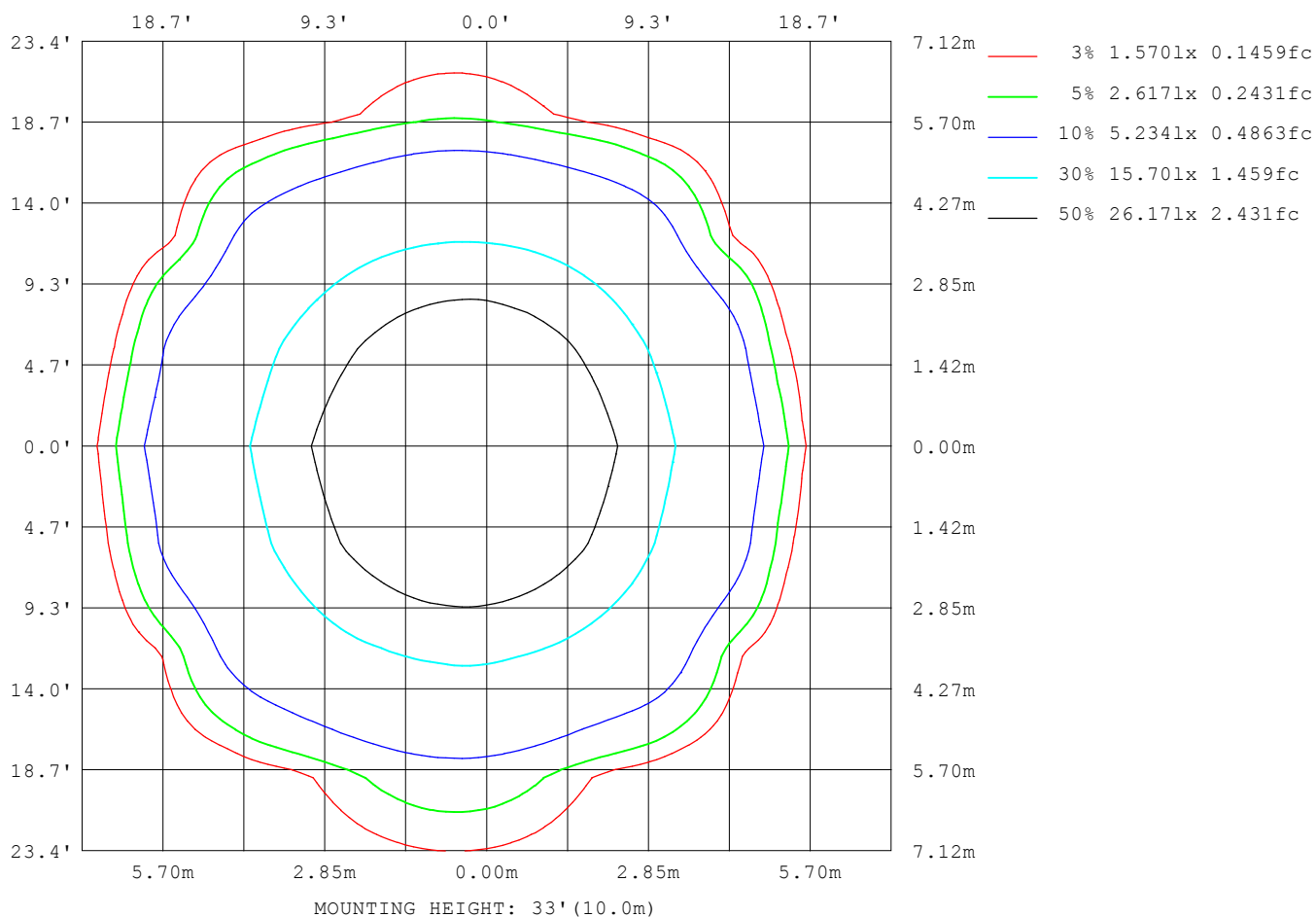
Humidity:65.0%

Test Distance:7.500m [K=1.0000]

Remarks:

ISOLUX DIAGRAM

Test:U:226.4V I:0.1234A P:25.07W PF:0.8977 Lamp Flux:1903.77x1 lm		
NAME: DEEPER DOWN MAXI LED_WHT_24W_3K_30°	TYPE:CEJ1125	WEIGHT:
SPEC.:30 _i ā	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:D=0.1	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ZhangZhenNan
 Test Date:2015-11-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.284
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:226.4V I:0.1234A P:25.07W PF:0.8977 Lamp Flux:1903.77x1 lm		
NAME: DEEPER DOWN MAXI LED_WHT_24W_3K_30°	TYPE:CEJ1125	WEIGHT:
SPEC.:30 _i ã	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:D=0.1	Shielding Angle:

AvgL	cd/m2
L_0~180 (65) av	630
L_0~180 (75) av	376
L_0~180 (85) av	180
L_90~270 (65) av	602
L_90~270 (75) av	380
L_90~270 (85) av	0
L_45 (65) av	606
L_45 (75) av	364
L_45 (85) av	139

Standard: GB/T 29293-2012

C Range: 0 - 360DEG

C Interval: 5.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:ZhangZhenNan

Test Date:2015-11-10

γ Range: 0 - 90DEG

γ Interval: 0.5DEG

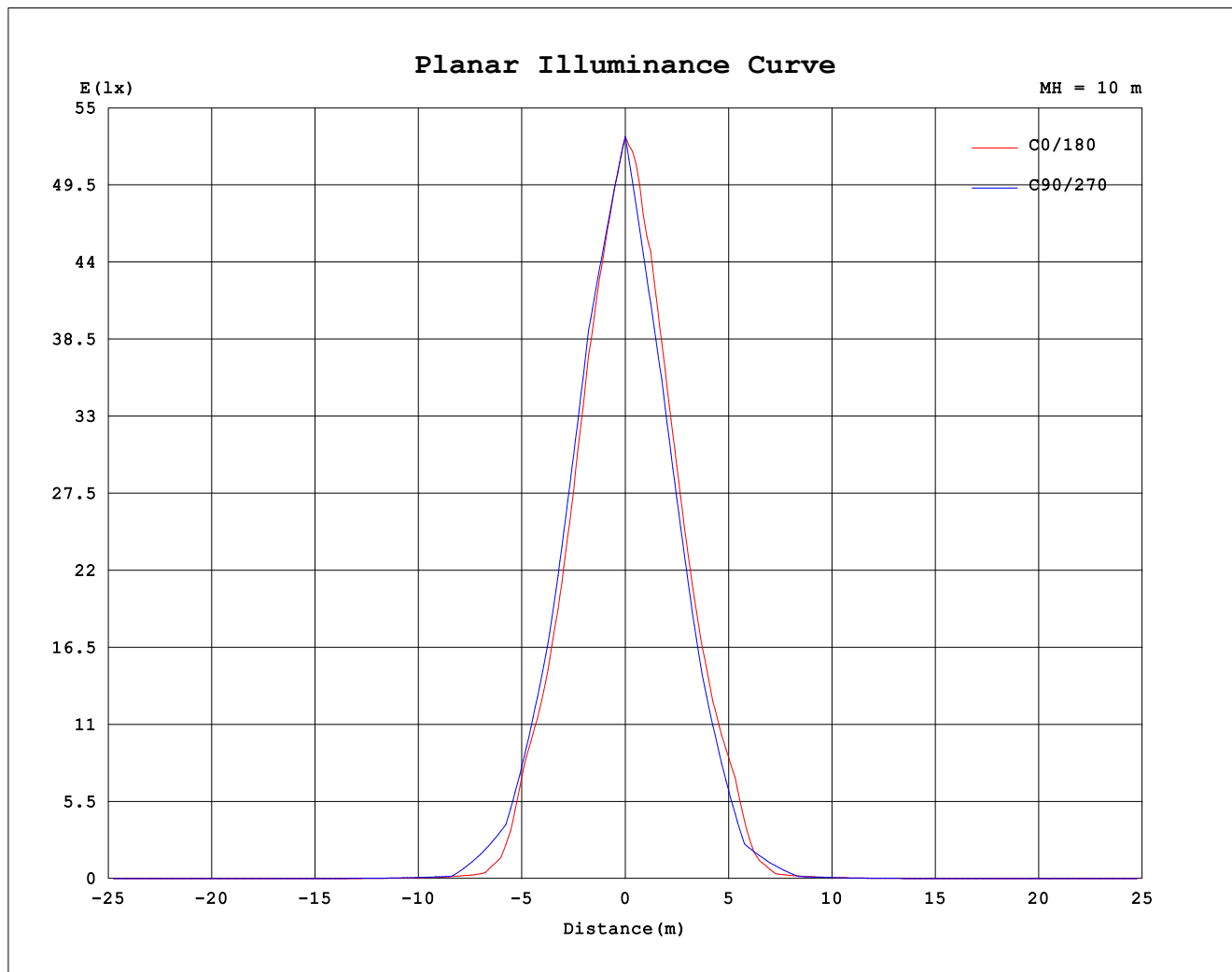
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.284

Humidity:65.0%

Test Distance:7.500m [K=1.0000]

Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: ZhangZhenNan
 Test Date: 2015-11-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.284
 Humidity: 65.0%
 Test Distance: 7.500m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:226.4V I:0.1234A P:25.07W PF:0.8977 Lamp Flux:1903.77x1 lm		
NAME: DEEPER DOWN MAXI LED_WHT_24W_3K_30°	TYPE:CEJ1125	WEIGHT:
SPEC.:30ï	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:D=0.1	Shielding Angle:

Table--4

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZhangZhenNan
Test Date:2015-11-10

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.284
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

```