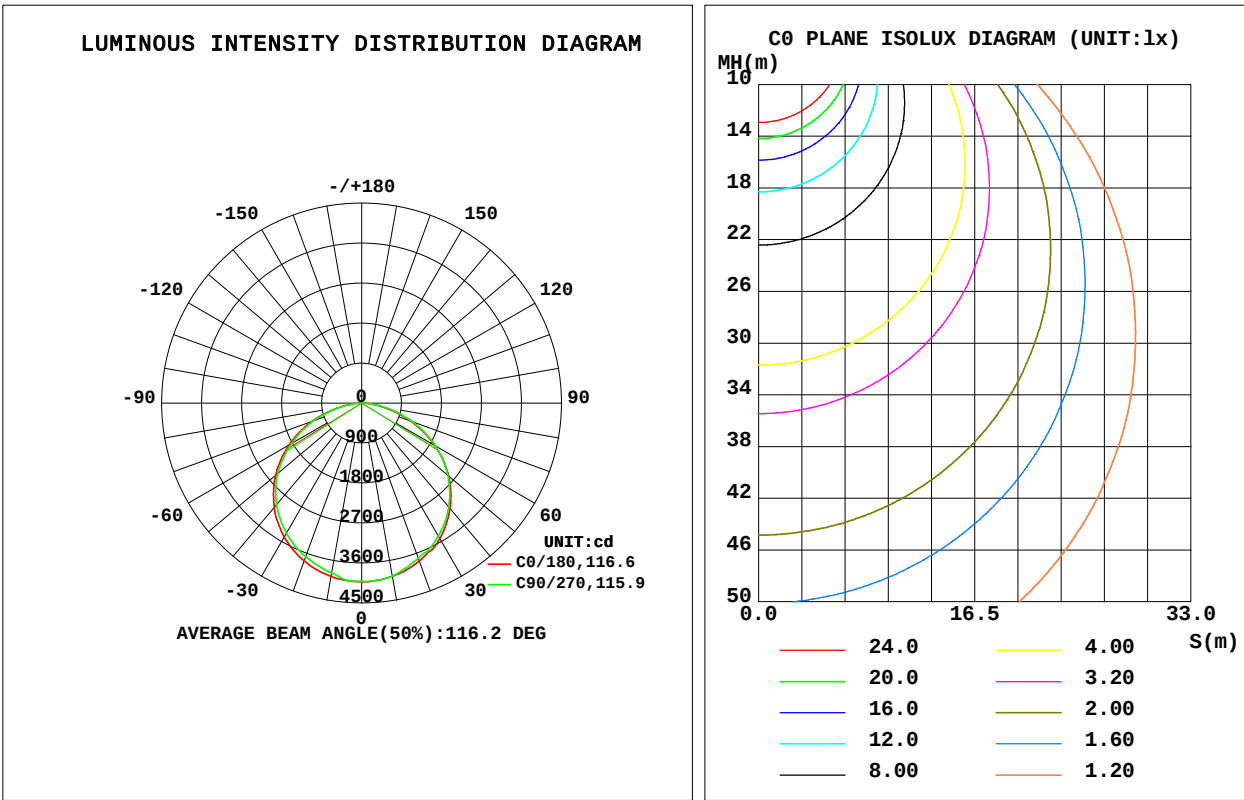


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.8V I:0.3670A P:78.80W PF:0.9720 Lamp Flux:11791x1 lm		
NAME: 4.UNIFY旋钮落地灯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 149.63 lm/W			
MODEL		I _{max} (cd)	4022	S/MH(C0/180)	1.30
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	11791	η UP, DN(C0-180)	0.0,49.7
NOMINAL FLUX(lm)	11791	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,50.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-12-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295T
Humidity:65.0%
Test Distance:9.526m [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	3962	3926	3887	3933	3961	3962	3955	3957	0- 10	380.2	380.2	3.22,3.22
20	3783	3695	3683	3696	3781	3735	3720	3736	10- 20	1086	1466	12.4,12.4
30	3485	3436	3388	3430	3520	3420	3456	3423	20- 30	1662	3128	26.5,26.5
40	3066	3022	2983	3014	3094	3005	3049	3013	30- 40	2034	5163	43.8,43.8
50	2535	2494	2468	2490	2559	2490	2532	2489	40- 50	2145	7307	62,62
60	1888	1863	1828	1855	1896	1863	1913	1865	50- 60	1965	9273	78.6,78.6
70	1171	1108	1130	1105	1156	1161	1199	1164	60- 70	1503	10776	91.4,91.4
80	439.9	400.1	427.1	397.9	414.2	432.3	485.2	436.8	70- 80	824.4	11600	98.4,98.4
90	12.34	23.14	12.55	20.09	5.654	28.58	10.34	30.95	80- 90	191.1	11791	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): 6238.8 lm

%lum = 52.9%
%lamp = 52.9%

Conical surface Flux(120deg): 9272.8 lm

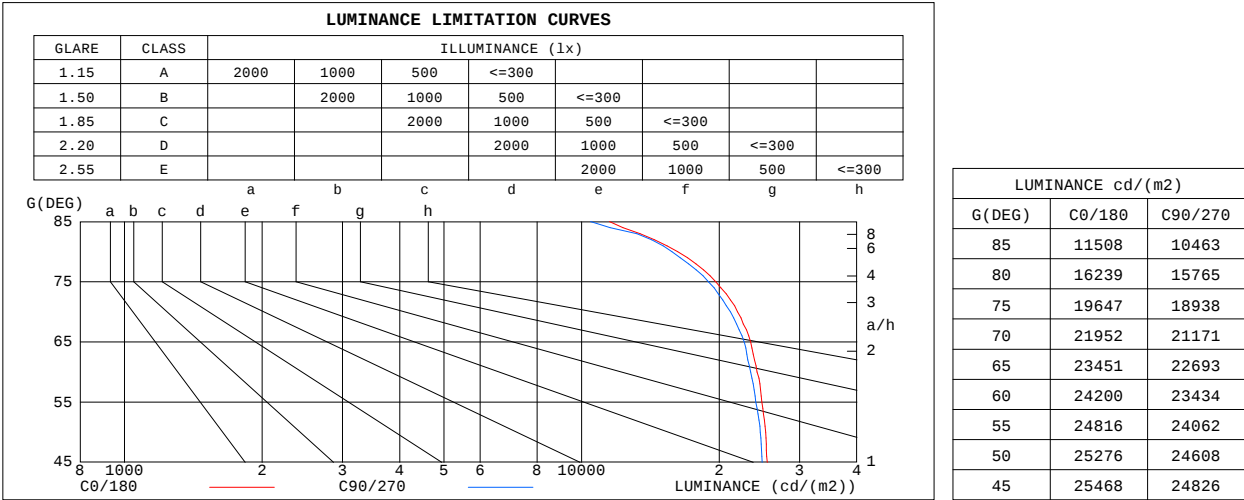
%lum = 78.6%
%lamp = 78.6%

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-12-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295T
Humidity:65.0%
Test Distance:9.526m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.8V I:0.3670A P:78.80W PF:0.9720 Lamp Flux:11791x1 lm		
NAME: 4.UNIFY旋钮落地灯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



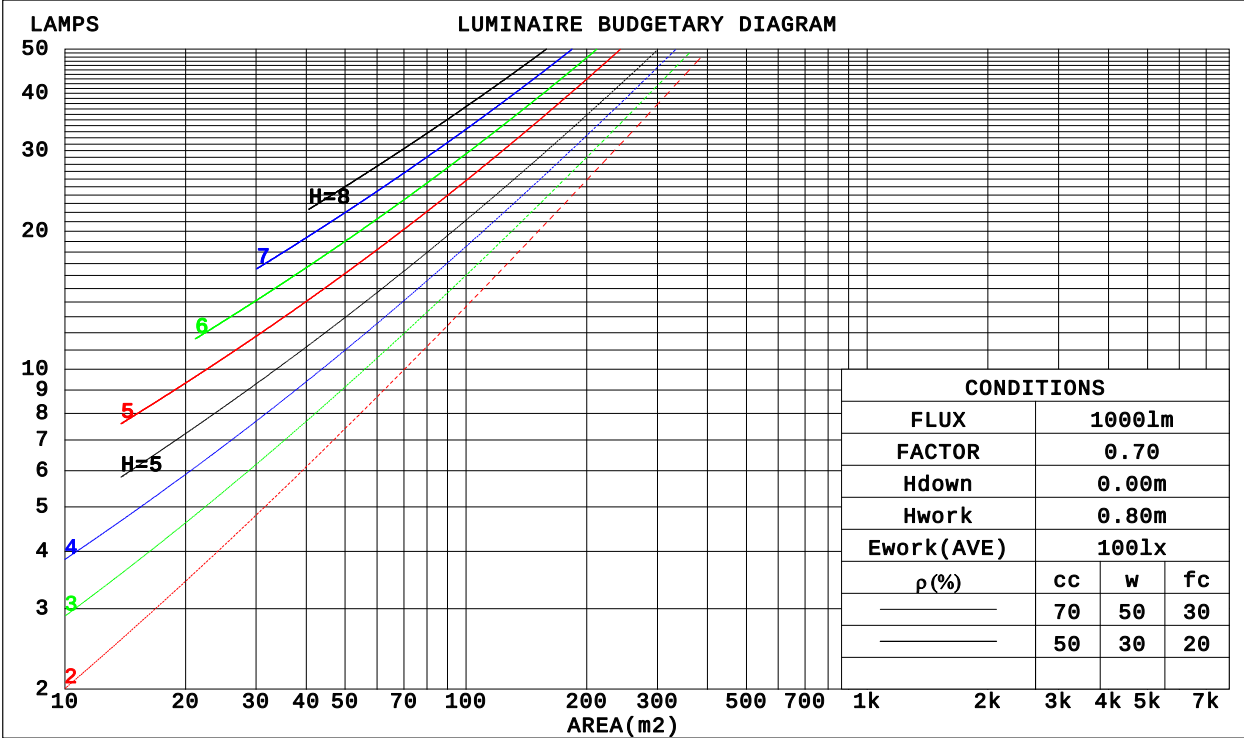
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-12-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295T
Humidity:65.0%
Test Distance:9.526m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.8V I:0.3670A P:78.80W PF:0.9720 Lamp Flux:11791x1 lm		
NAME: 4.UNIFY旋钮落地灯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	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	.00
1.0	1.04	.00	.96	1.02	.98	.94	.97	.94	.91	.93	.91	.88	.90	.88	.86	.84
2.0	.90	.83	.78	.88	.82	.77	.85	.80	.75	.82	.77	.73	.79	.75	.72	.69
3.0	.79	.71	.64	.78	.70	.64	.75	.68	.63	.72	.66	.62	.69	.65	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.58	.52	.62	.56	.52	.50
5.0	.62	.53	.47	.61	.53	.46	.59	.52	.46	.57	.51	.45	.55	.49	.45	.43
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.46	.39	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.29
9.0	.42	.34	.29	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-12-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295T
Humidity:65.0%
Test Distance:9.526m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:220.8V I:0.3670A P:78.80W PF:0.9720 Lamp Flux:11791x1 lm					
NAME: 4.UNIFY旋钮落地灯			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.:			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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.309	.176	.056	.302	.172	.055	.289	.166	.053	.276	.159	.051	.265	.154	.050		
2.0	.292	.160	.049	.286	.158	.049	.274	.153	.047	.264	.148	.046	.254	.143	.045		
3.0	.271	.144	.043	.266	.142	.043	.255	.138	.042	.246	.135	.041	.237	.131	.041		
4.0	.250	.130	.038	.246	.128	.038	.236	.125	.037	.228	.122	.037	.220	.119	.036		
5.0	.232	.118	.034	.227	.117	.034	.219	.114	.034	.211	.112	.033	.204	.109	.033		
6.0	.215	.108	.031	.211	.107	.031	.204	.104	.030	.197	.102	.030	.190	.100	.030		
7.0	.200	.099	.028	.196	.098	.028	.190	.096	.028	.184	.094	.027	.178	.093	.027		
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025		
9.0	.175	.085	.024	.172	.084	.024	.167	.083	.023	.162	.081	.023	.157	.080	.023		
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.149	.075	.021		

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.180	.156	.134	.154	.134	.116	.105	.092	.080	.061	.053	.047	.019	.017	.015	
2.0	.172	.132	.098	.148	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.165	.114	.074	.141	.099	.064	.097	.069	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.135	.087	.050	.093	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.051	.032	.017	.017	.010	.006	
6.0	.143	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.074	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.118	.060	.022	.101	.052	.019	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-12-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295T
 Humidity:65.0%
 Test Distance:9.526m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.8V I:0.3670A P:78.80W PF:0.9720 Lamp Flux:11791x1 lm											
NAME: 4.UNIFY旋钮落地灯						TYPE:		WEIGHT:			
SPEC.:						DIM.:		SERIAL No.:			
MFR.:						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	24.1	25.6	24.4	25.8	26.1	24.0	25.5	24.3	25.7	25.9	
	3H	25.6	27.0	25.9	27.3	27.5	25.5	26.9	25.8	27.1	27.4
	4H	26.2	27.5	26.5	27.8	28.1	26.0	27.4	26.4	27.6	27.9
	6H	26.6	27.8	26.9	28.1	28.4	26.4	27.7	26.7	27.9	28.2
	8H	26.6	27.9	27.0	28.1	28.4	26.5	27.7	26.8	28.0	28.3
	12H	26.7	27.8	27.0	28.1	28.4	26.5	27.7	26.8	28.0	28.3
4H	2H	24.7	26.0	25.0	26.3	26.6	24.6	26.0	24.9	26.2	26.5
	3H	26.4	27.6	26.7	27.9	28.2	26.3	27.4	26.6	27.7	28.0
	4H	27.1	28.1	27.4	28.5	28.8	26.9	28.0	27.3	28.3	28.7
	6H	27.5	28.5	27.9	28.8	29.2	27.4	28.3	27.8	28.7	29.1
	8H	27.7	28.5	28.1	28.9	29.3	27.5	28.4	27.9	28.8	29.2
	12H	27.7	28.5	28.1	28.9	29.3	27.6	28.4	28.0	28.8	29.2
8H	4H	27.3	28.2	27.7	28.5	28.9	27.2	28.0	27.6	28.4	28.8
	6H	27.9	28.6	28.3	29.0	29.4	27.7	28.5	28.2	28.9	29.3
	8H	28.0	28.7	28.5	29.1	29.6	27.9	28.6	28.4	29.0	29.5
	12H	28.2	28.7	28.6	29.2	29.6	28.0	28.6	28.5	29.0	29.5
12H	4H	27.3	28.1	27.7	28.5	28.9	27.2	28.0	27.6	28.4	28.8
	6H	27.9	28.5	28.3	29.0	29.4	27.8	28.4	28.2	28.8	29.3
	8H	28.1	28.7	28.6	29.1	29.6	28.0	28.5	28.5	29.0	29.5
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117 Corrected 11791 lm Total Lamp Luminous Flux.(8log(F/F0) = 8.6)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-12-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295T
 Humidity:65.0%
 Test Distance:9.526m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.8V I:0.3670A P:78.80W PF:0.9720 Lamp Flux:11791x1 lm		
NAME: 4.UNIFY旋钮落地灯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

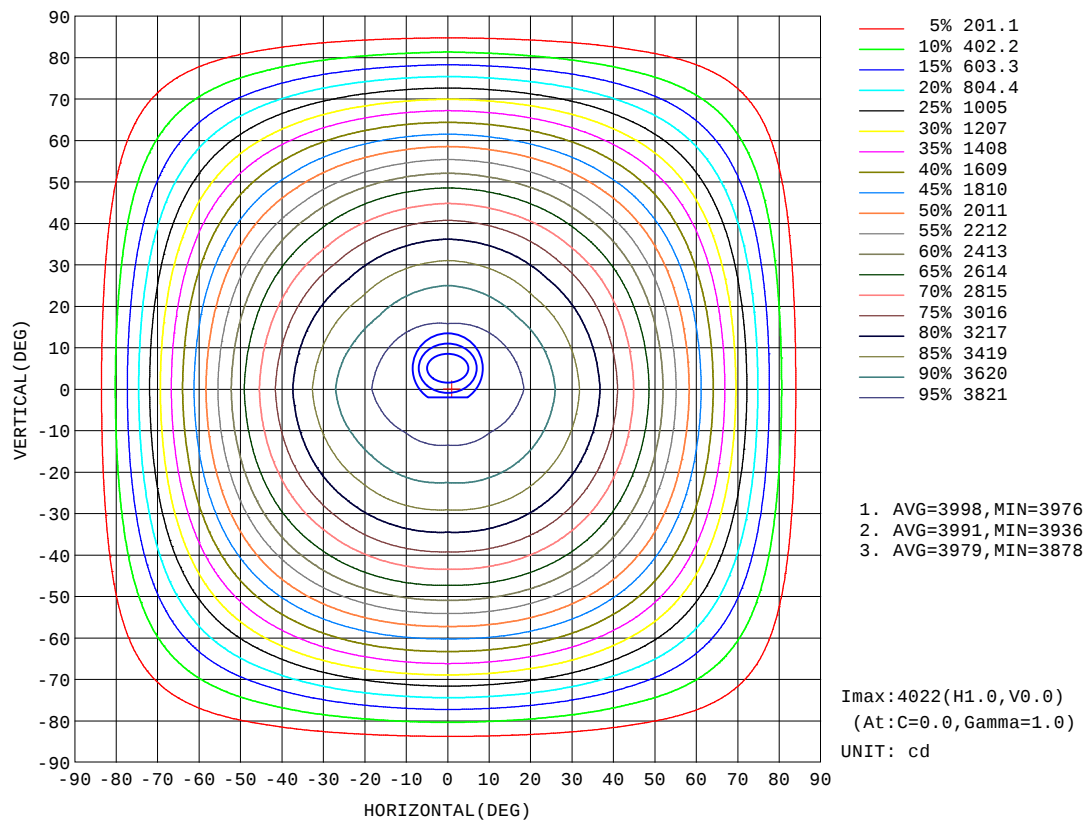
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	46	38	58	46	38	55	44	37	30
0.80	70	57	48	68	56	47	65	54	47	38
1.00	77	65	56	75	64	56	71	62	54	46
1.25	84	73	64	82	71	64	78	69	62	53
1.50	89	79	71	87	77	70	83	75	68	59
2.00	96	88	81	94	86	79	89	83	77	68
2.50	100	93	86	98	91	85	93	87	82	73
3.00	103	97	91	101	94	89	96	91	86	76
4.00	107	102	97	104	99	95	99	95	92	82
5.00	109	105	101	107	103	99	102	98	95	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Ceiling Mounted					SHRNOM = 1.00		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-12-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295T
 Humidity:65.0%
 Test Distance:9.526m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.8V I:0.3670A P:78.80W PF:0.9720 Lamp Flux:11791x1 lm		
NAME: 4.UNIFY旋钮落地灯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



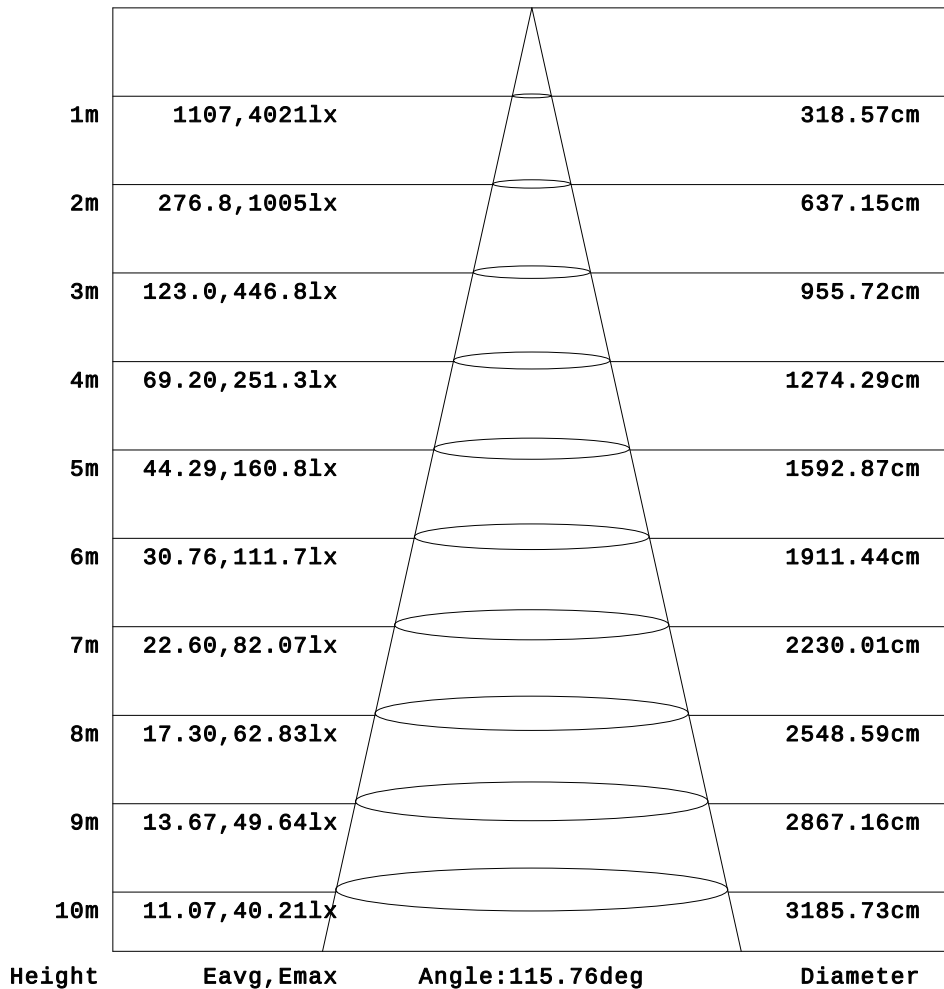
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-12-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.295T
Humidity: 65.0%
Test Distance: 9.526m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.8V I:0.3670A P:78.80W PF:0.9720 Lamp Flux:11791x1 lm		
NAME: 4.UNIFY旋钮落地灯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:8908 lm



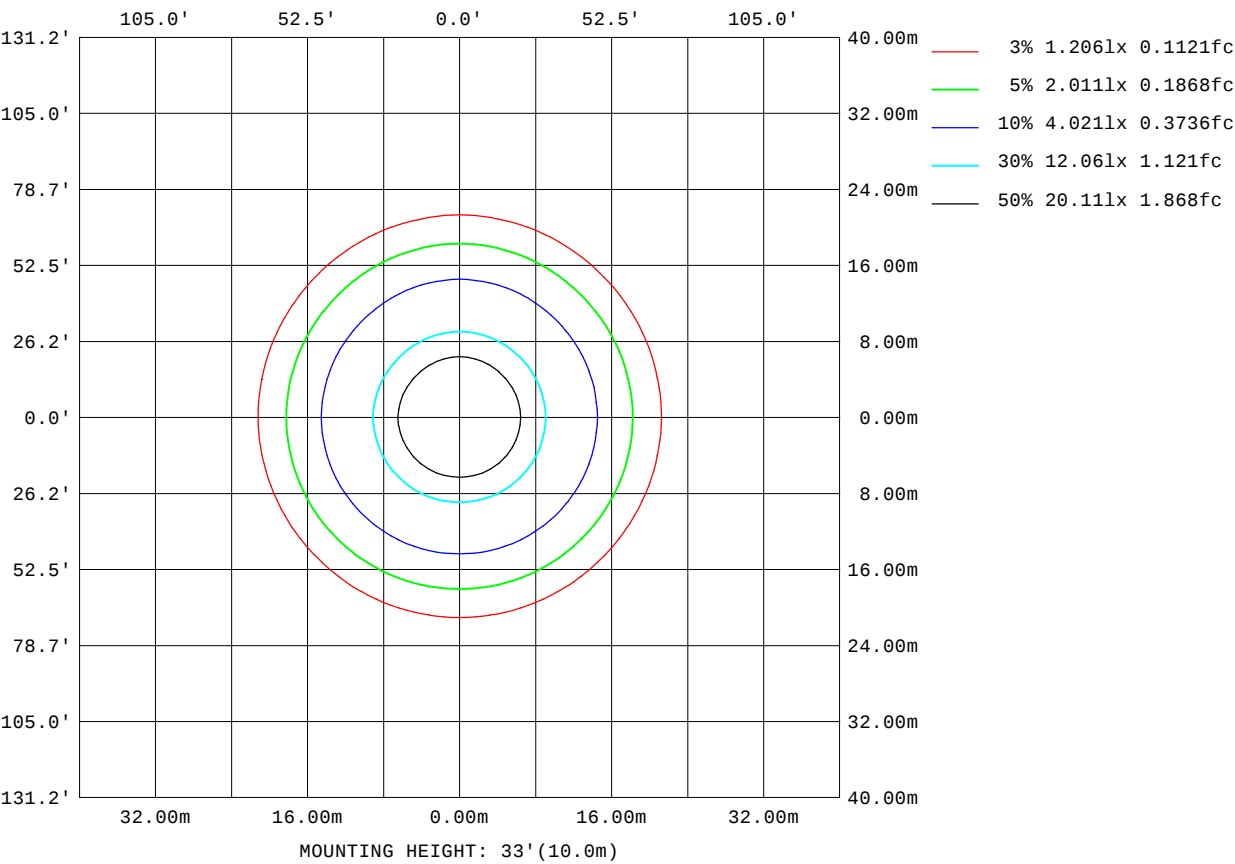
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-12-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295T
Humidity:65.0%
Test Distance:9.526m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.8V I:0.3670A P:78.80W PF:0.9720 Lamp Flux:11791x1 lm		
NAME: 4.UNIFY旋钮落地灯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-12-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295T
Humidity:65.0%
Test Distance:9.526m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.8V I:0.3670A P:78.80W PF:0.9720 Lamp Flux:11791x1 lm		
NAME: 4.UNIFY旋钮落地灯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

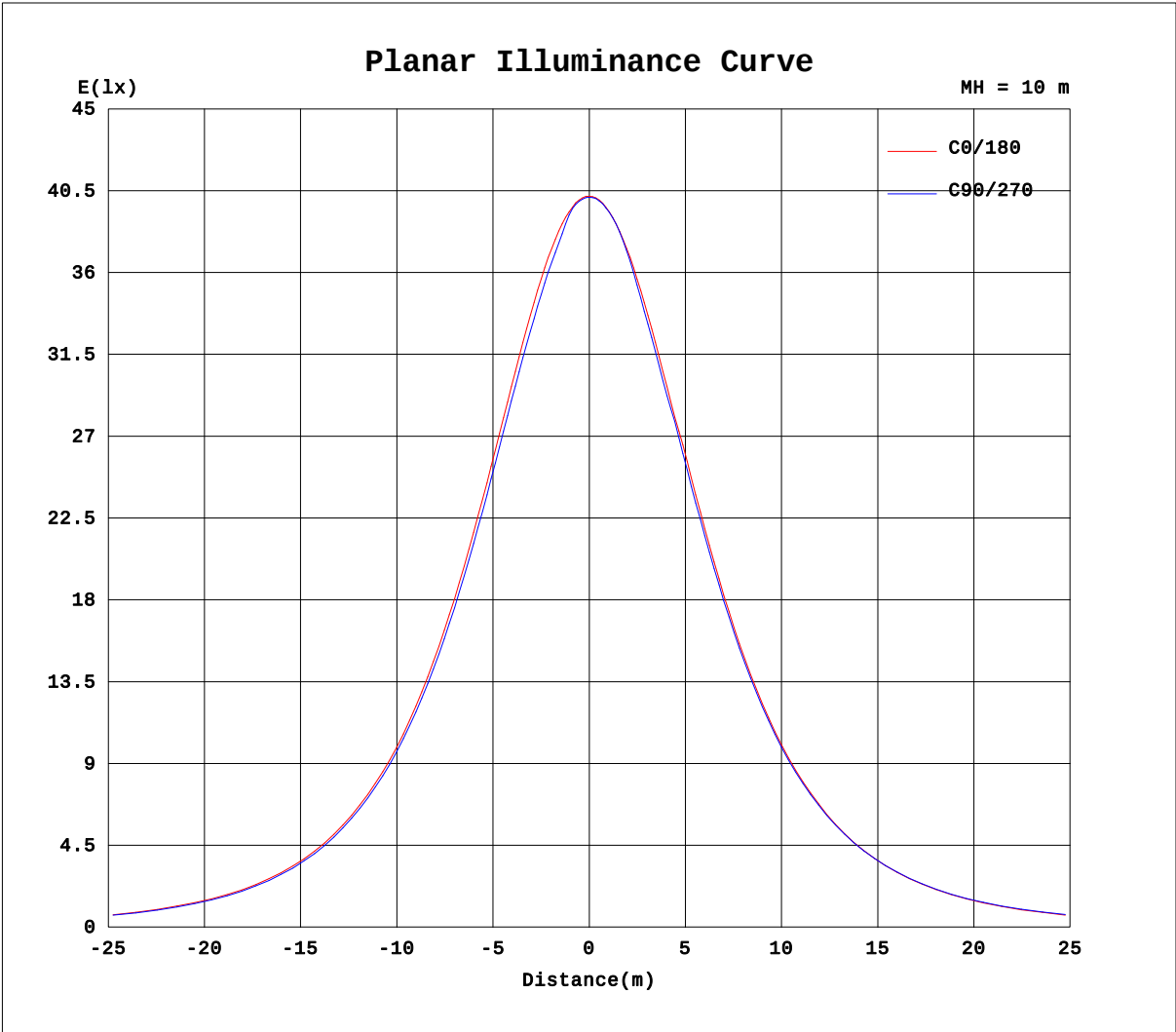
AvgL	cd/m2
L_0~180(65)av	23332
L_0~180(75)av	19394
L_0~180(85)av	10299
L_90~270(65)av	23187
L_90~270(75)av	19777
L_90~270(85)av	11977
L_45(65)av	22938
L_45(75)av	19045
L_45(85)av	11075

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-12-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295T
Humidity:65.0%
Test Distance:9.526m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-12-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295T
Humidity:65.0%
Test Distance:9.526m [K=1.0000]
Remarks: