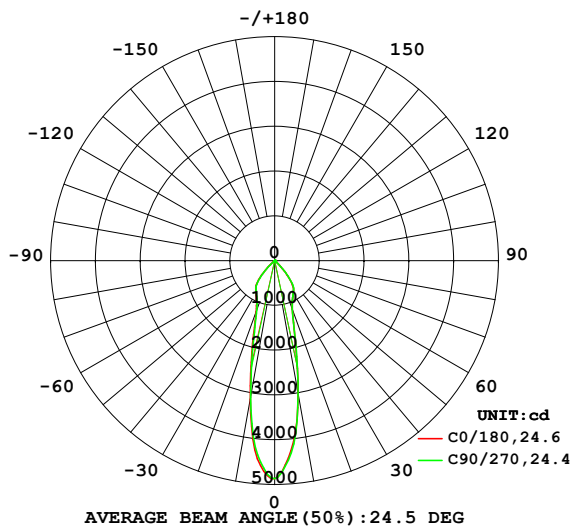


## LUMINAIRE PHOTOMETRIC TEST REPORT

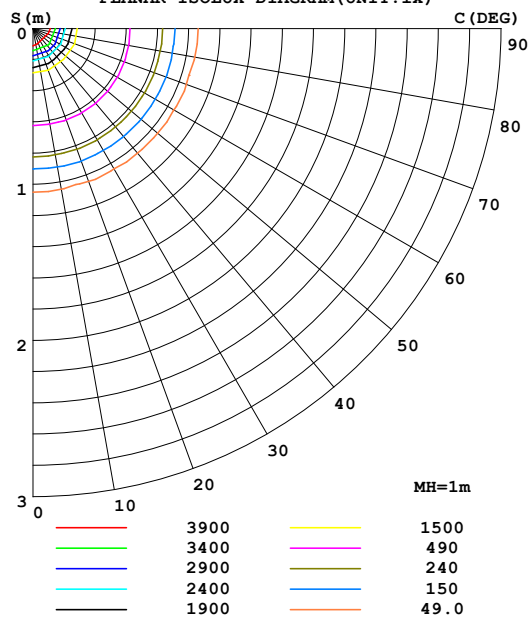
Test:U:240.4V I:0.0770A P:18.0W PF:0.9713 Freq:49.99Hz		
UTHDi:0.18% ITHDi:17.69% KDisp:0.9863		Lamp Flux:2004.82x1 lm
NAME: FUSION-MD23-AHD-018-COB-02SC 4000K RA90 25D	18W TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 111.44 lm/W
MODEL		I <sub>max</sub> (cd)	4869	S/MH (C0/180)	0.43	
NOMINAL POWER(W)	18	LOR (%)	100.0	S/MH (C90/270)	0.42	
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	2004.8	η UP,DN (C0-180)	0.0,49.6	
NOMINAL FLUX(lm)	2004.82	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,50.4	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	240.36	η down (%)	100.0	CIBSE SHR MAX	0.50	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



PLANAR ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-10-18

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.453  
Humidity:65.0%  
Test Distance:3.090m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	3032	3025	3035	3108	3144	3141	3098	3044	0- 10	373.7	373.7	18.6,18.6
20	1161	1169	1165	1190	1222	1207	1175	1149	10- 20	517.0	890.7	44.4,44.4
30	834.9	841.0	837.7	840.3	843.8	833.1	827.5	820.8	20- 30	443.7	1334	66.6,66.6
40	484.0	490.5	508.7	545.9	557.4	551.7	529.2	497.3	30- 40	445.0	1779	88.8,88.8
50	46.28	46.63	46.58	42.69	42.87	47.22	45.69	43.13	40- 50	184.1	1963	97.9,97.9
60	12.05	12.15	12.34	11.69	11.16	11.34	11.42	11.72	50- 60	20.56	1984	99,99
70	8.013	8.092	8.157	7.840	7.405	7.037	7.341	7.573	60- 70	9.011	1993	99.4,99.4
80	8.361	8.132	7.721	7.606	7.639	7.043	7.141	8.008	70- 80	7.688	2001	99.8,99.8
90	0.0789	0.0623	0.0824	0.0628	0.0718	0.0671	0.0785	0.0657	80- 90	4.068	2005	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): 1916 lm

%lum = 95.6%

%lamp = 95.6%

Conical surface Flux(120deg): 1984.1 lm

%lum = 99.0%

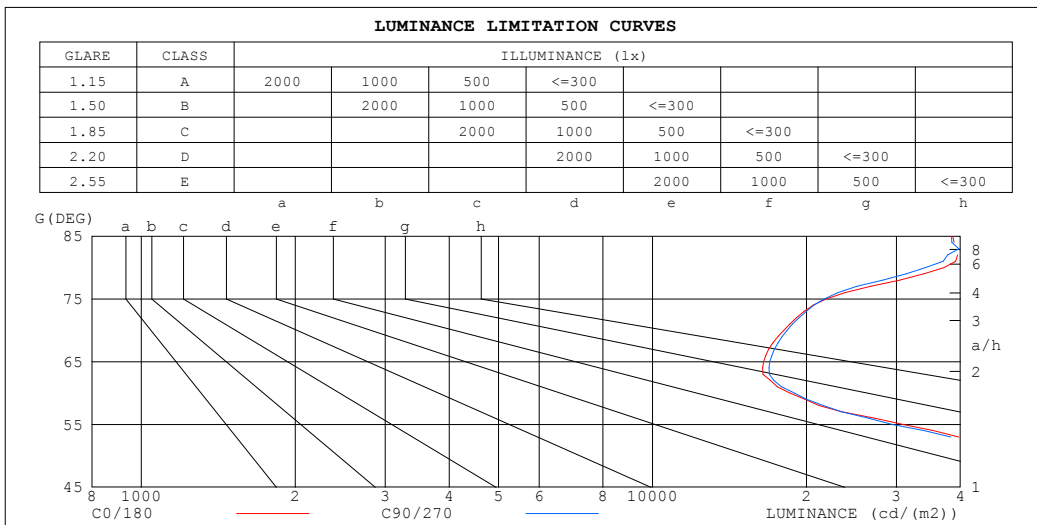
%lamp = 99.0%

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2024-10-18

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.453  
 Humidity:65.0%  
 Test Distance:3.090m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:240.4V I:0.0770A P:18.0W PF:0.9713 Freq:49.99Hz			Lamp Flux:2004.82x1 lm		
UTHDi:0.18% ITHDi:17.69% KDisp:0.9863					
NAME: FUSION-MD23-AHD-018-COB-02SC 4000K RA90 25D			18WTYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: Norming lighting			SUR.: 41mm		Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	38678	38469
80	37120	34161
75	21859	21643
70	18062	18324
65	16498	16959
60	18582	18955
55	30986	29488
50	55509	55671
45	214804	233965

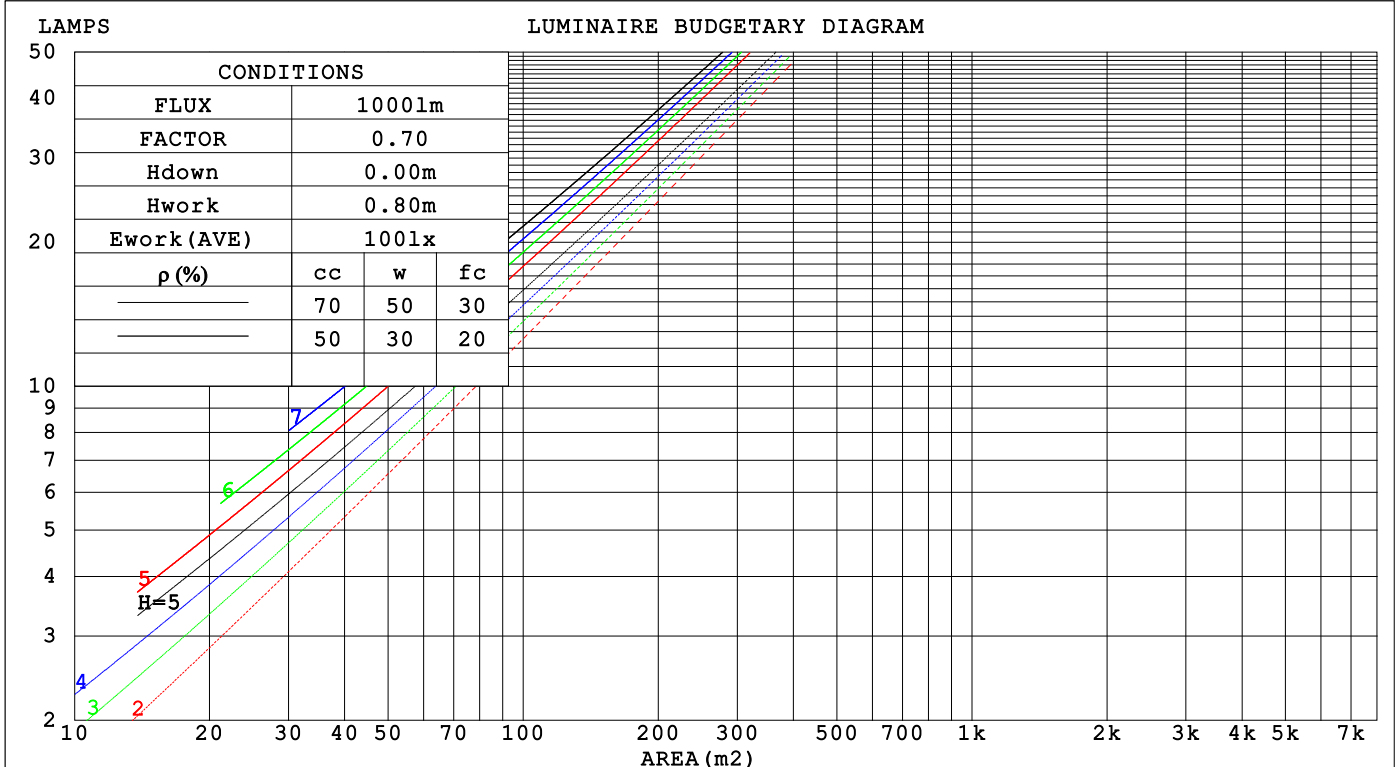
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-10-18

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.453  
Humidity:65.0%  
Test Distance:3.090m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.4V I:0.0770A P:18.0W PF:0.9713 Freq:49.99Hz		
UTHDi:0.18% ITHDi:17.69% KDisp:0.9863		Lamp Flux:2004.82x1 lm
NAME: FUSION-MD23-AHD-018-COB-02SC 4000K RA90 25D 18W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	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	.93	.91	.89	.87														
3.0	.96	.91	.88	.95	.90	.87	.92	.89	.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	.75	.70	.65	.75	.69	.65	.73	.69	.65	.72	.68	.65	.71	.67	.64	.63														
8.0	.71	.66	.62	.71	.65	.62	.70	.65	.61	.69	.64	.61	.68	.64	.61	.59														
9.0	.68	.62	.58	.67	.62	.58	.66	.61	.58	.66	.61	.58	.65	.61	.58	.56														
10.0	.65	.59	.55	.64	.59	.55	.63	.58	.55	.63	.58	.55	.62	.58	.55	.53														



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-10-18

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.453  
Humidity:65.0%  
Test Distance:3.090m [K=1.0000]  
Remarks:

### WEC AND CCEC

Test:U:240.4V I:0.0770A P:18.0W PF:0.9713 Freq:49.99Hz			UTHDi:0.18% ITHDi:17.69% KDisp:0.9863			Lamp Flux:2004.82x1 lm		
NAME: FUSION-MD23-AHD-018-COB-02SC 4000K RA90 25D			18WTYPE:			WEIGHT:		
SPEC.:			DIM.:			SERIAL No.:		
MFR.: Norming lighting			SUR.: 41mm			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	.158	.091	.029	.147	.085	.027	.136	.079	.025		
2.0	.170	.093	.029	.164	.090	.028	.153	.085	.026	.144	.081	.025	.134	.076	.024		
3.0	.161	.086	.026	.156	.084	.025	.147	.080	.024	.139	.076	.023	.131	.073	.022		
4.0	.153	.079	.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	.124	.064	.019	.118	.062	.019		
7.0	.132	.065	.018	.129	.064	.018	.124	.063	.018	.119	.061	.018	.114	.059	.017		
8.0	.126	.061	.017	.123	.061	.017	.119	.059	.017	.114	.058	.017	.110	.057	.016		
9.0	.120	.058	.016	.118	.058	.016	.114	.056	.016	.110	.055	.016	.106	.054	.016		
10.0	.115	.055	.015	.113	.055	.015	.109	.054	.015	.106	.053	.015	.102	.052	.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	.133	.113	.134	.114	.098	.092	.079	.068	.053	.046	.040	.017	.015	.013		
3.0	.143	.114	.090	.123	.098	.078	.084	.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	.056	.032	.062	.039	.022	.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: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-10-18

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.453  
Humidity:65.0%  
Test Distance:3.090m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

Test:U:240.4V I:0.0770A P:18.0W PF:0.9713 Freq:49.99Hz UTHDi:0.18% ITHDi:17.69% KDisp:0.9863Lamp Flux:2004.82x1 lm											
NAME: FUSION-MD23-AHD-018-COB-02SC 4000K RA90 25D 18W						TYPE:		WEIGHT:			
SPEC.:						DIM.:		SERIAL No.:			
MFR.: Norming lighting						SUR.: 41mm		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	27.0	28.0	27.2	28.1	28.3	27.1	28.1	27.3	28.2	28.4
	3H	26.9	27.7	27.1	27.9	28.1	27.0	27.8	27.2	28.0	28.2
	4H	26.8	27.6	27.1	27.9	28.1	26.9	27.7	27.2	28.0	28.2
	6H	26.8	27.6	27.1	27.8	28.1	26.9	27.7	27.2	27.9	28.1
	8H	26.8	27.5	27.1	27.8	28.1	26.9	27.6	27.2	27.9	28.1
	12H	26.8	27.5	27.1	27.8	28.1	26.9	27.6	27.2	27.9	28.1
4H	2H	26.8	27.6	27.1	27.8	28.0	26.9	27.7	27.2	27.9	28.1
	3H	26.6	27.3	27.0	27.6	27.9	26.7	27.4	27.1	27.7	28.0
	4H	26.6	27.2	26.9	27.5	27.8	26.7	27.3	27.0	27.6	27.9
	6H	26.6	27.2	27.0	27.5	27.9	26.7	27.3	27.1	27.6	28.0
	8H	26.7	27.2	27.1	27.5	27.9	26.7	27.3	27.1	27.6	28.0
	12H	26.7	27.2	27.1	27.6	27.9	26.8	27.3	27.2	27.6	28.0
8H	4H	26.5	27.0	26.9	27.4	27.7	26.6	27.1	27.0	27.5	27.8
	6H	26.6	27.0	27.0	27.4	27.8	26.7	27.1	27.1	27.5	27.9
	8H	26.7	27.0	27.1	27.5	27.9	26.7	27.1	27.2	27.5	28.0
	12H	26.7	27.1	27.2	27.5	28.0	26.8	27.1	27.3	27.6	28.0
12H	4H	26.5	26.9	26.9	27.3	27.7	26.6	27.0	27.0	27.4	27.8
	6H	26.6	26.9	27.0	27.4	27.8	26.6	27.0	27.1	27.4	27.9
	8H	26.7	27.0	27.1	27.4	27.9	26.7	27.1	27.2	27.5	28.0
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 2.5 / - 7.1					+ 2.6 / - 7.4				
1.5H		+ 4.7 / - 6.9					+ 4.8 / - 7.2				
2.0H		+ 6.0 / - 2.4					+ 6.4 / - 2.7				

CIE Pub.117, 2005 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 2.4$ )  
Area: 0.0013 m2

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-10-18

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.453  
Humidity:65.0%  
Test Distance:3.090m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:240.4V I:0.0770A P:18.0W PF:0.9713 Freq:49.99Hz		
UTHDi:0.18% ITHDi:17.69% KDisp:0.9863		Lamp Flux:2004.82x1 lm
NAME: FUSION-MD23-AHD-018-COB-02SC 4000K RA90 25D	18WTYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

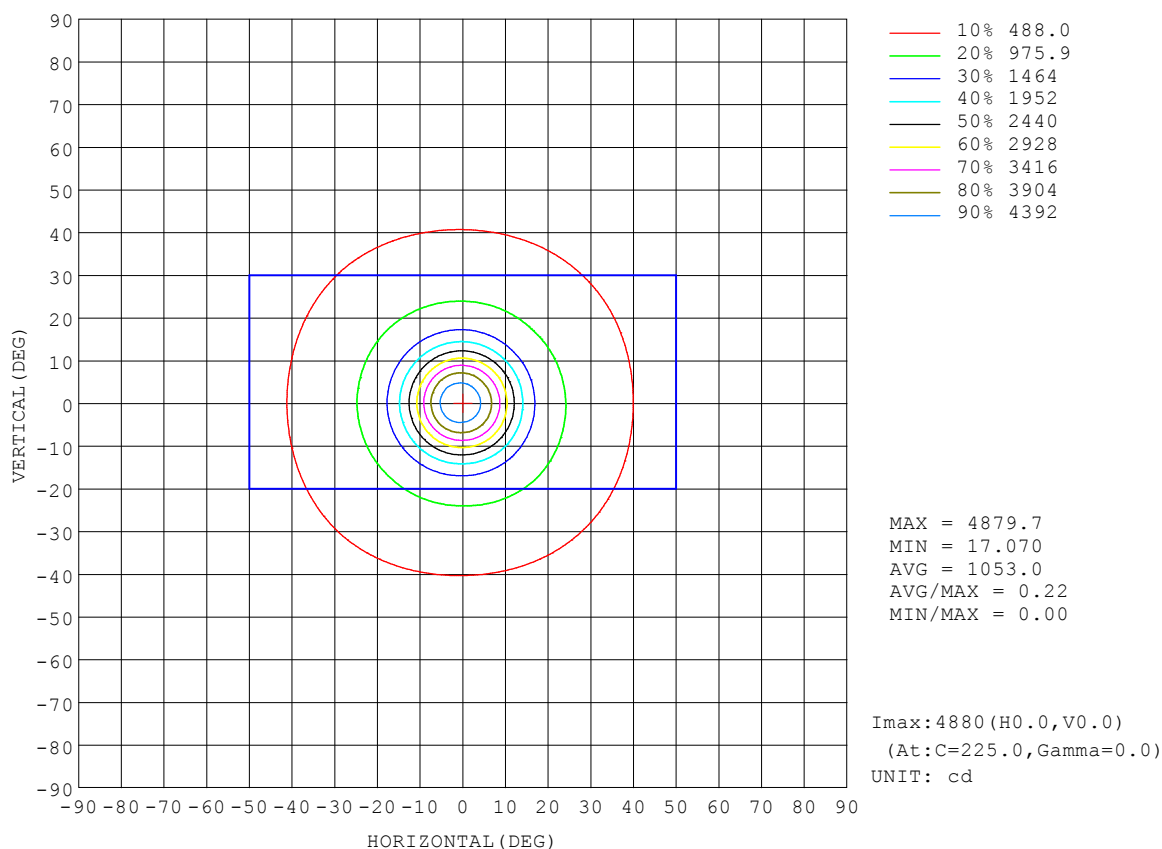
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	85	78	74	84	77	73	83	77	73	70
0.80	92	86	82	92	86	82	90	85	82	78
1.00	97	91	88	97	91	87	95	91	87	83
1.25	102	96	93	101	96	92	99	95	91	87
1.50	105	100	96	103	99	96	101	97	95	90
2.00	108	103	100	106	102	99	104	100	98	92
2.50	110	105	102	108	104	101	105	102	100	93
3.00	111	108	105	109	106	104	106	103	101	95
4.00	113	110	108	111	109	107	108	106	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: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2024-10-18

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.453  
 Humidity: 65.0%  
 Test Distance: 3.090m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

Test:U:240.4V I:0.0770A P:18.0W PF:0.9713 Freq:49.99Hz		
UTHDi:0.18% ITHDi:17.69% KDisp:0.9863 Lamp Flux:2004.82x1 lm		
NAME: FUSION-MD23-AHD-018-COB-02SC 4000K RA90 25D	18WTYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:



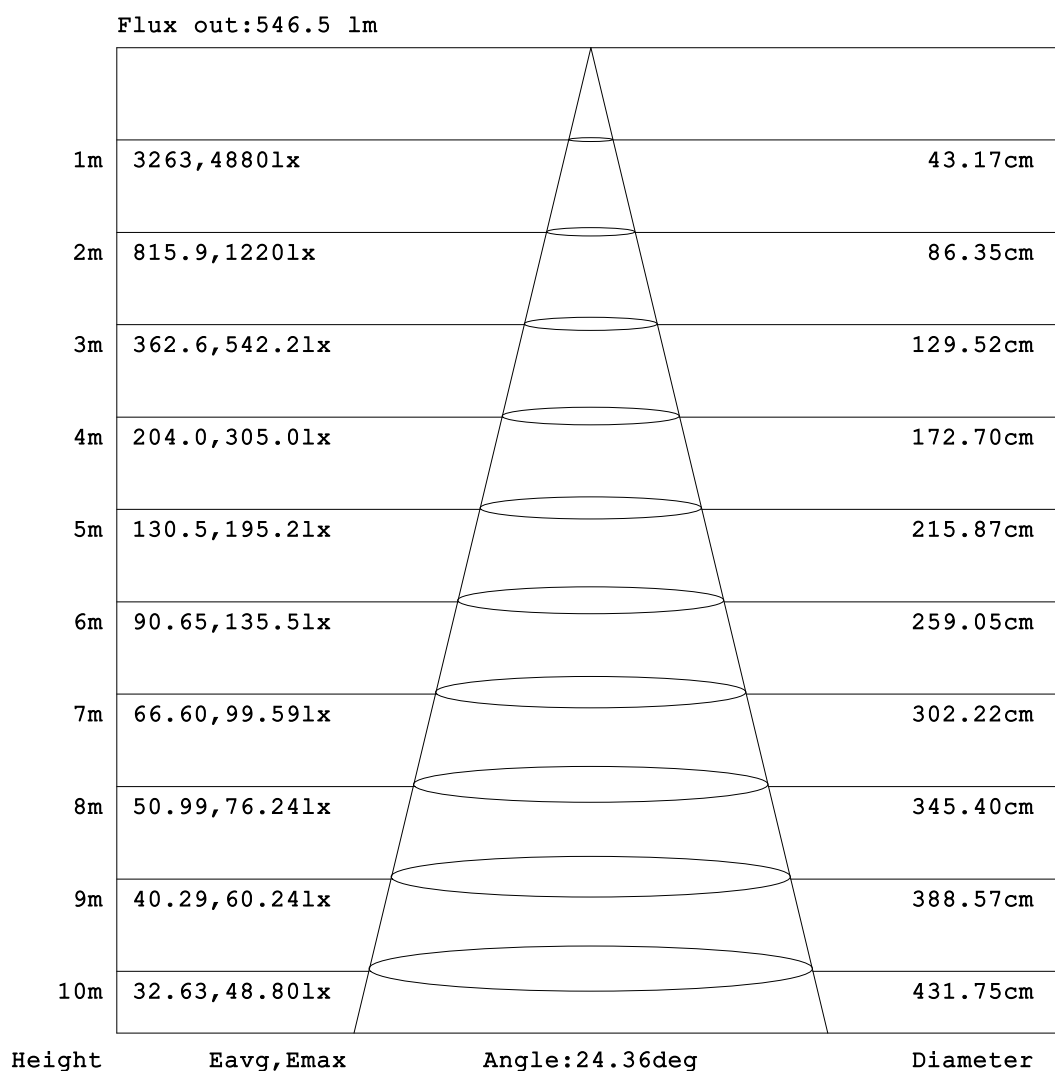
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-10-18

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.453  
Humidity:65.0%  
Test Distance:3.090m [K=1.0000]  
Remarks:



AAI Figure

Test:U:240.4V I:0.0770A P:18.0W PF:0.9713 Freq:49.99Hz		
UTHDi:0.18% ITHDi:17.69% KDisp:0.9863		Lamp Flux:2004.82x1 lm
NAME: FUSION-MD23-AHD-018-COB-02SC 4000K RA90 25D	18W TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:



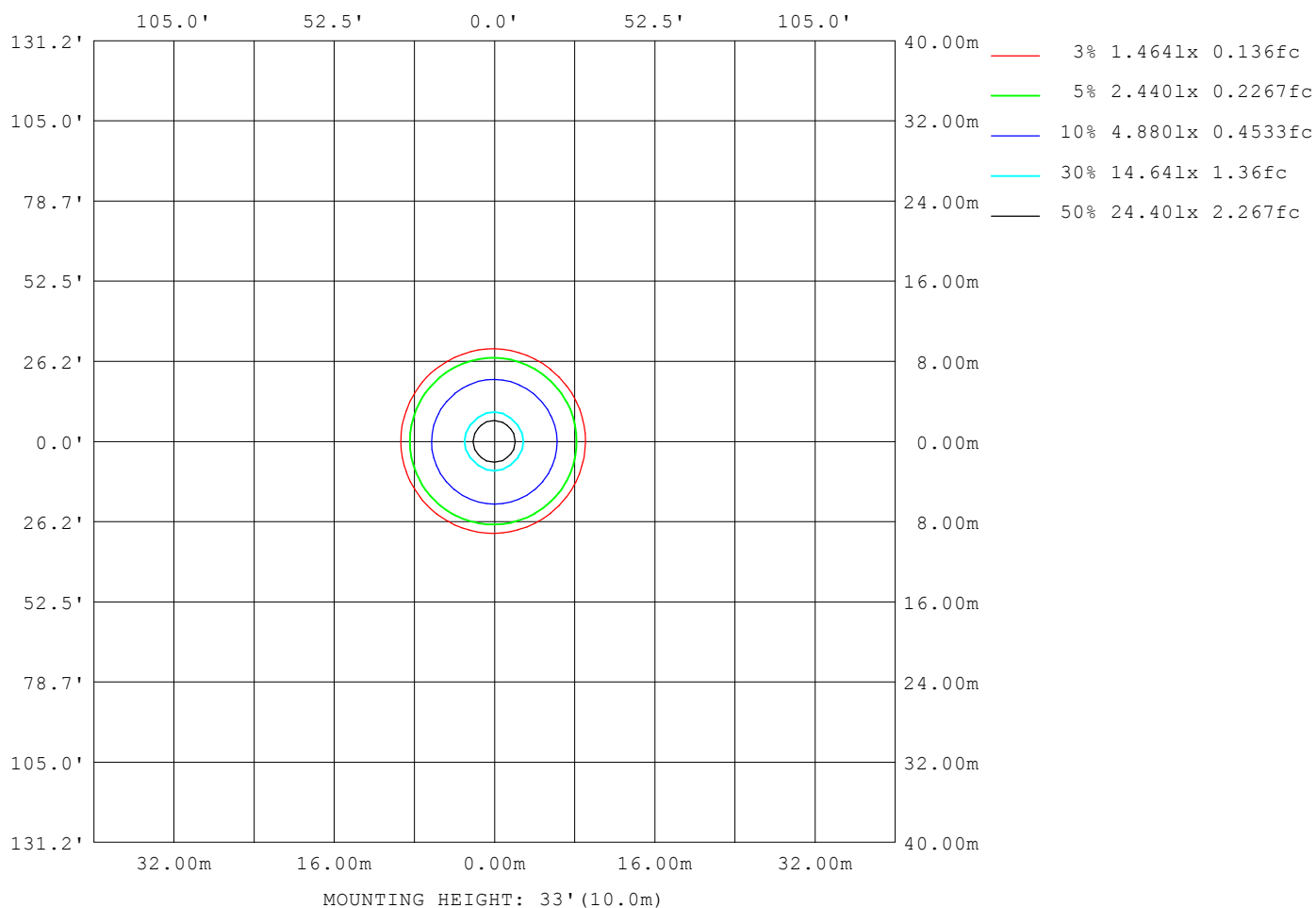
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-10-18

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.453  
Humidity:65.0%  
Test Distance:3.090m [K=1.0000]  
Remarks:

ISOLUX DIAGRAM

Test:U:240.4V I:0.0770A P:18.0W PF:0.9713 Freq:49.99Hz		
UTHDi:0.18% ITHDi:17.69% KDisp:0.9863		Lamp Flux:2004.82x1 lm
NAME: FUSION-MD23-AHD-018-COB-02SC 4000K RA90 25D	18WTYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2024-10-18

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.453  
 Humidity:65.0%  
 Test Distance:3.090m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:240.4V I:0.0770A P:18.0W PF:0.9713 Freq:49.99Hz		
UTHDi:0.18% ITHDi:17.69% KDisp:0.9863 Lamp Flux:2004.82x1 lm		
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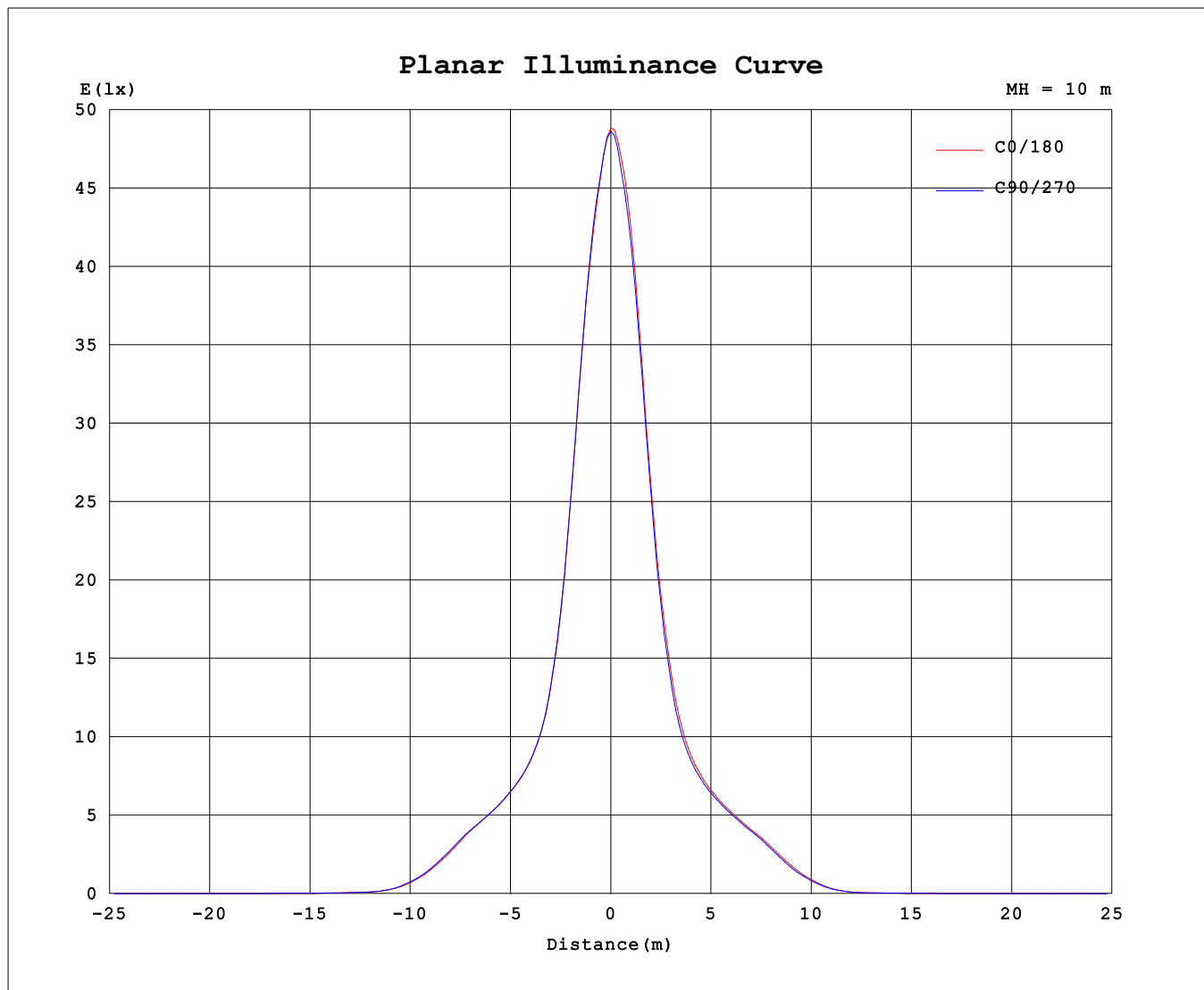
AvgL	cd/m2
L_0~180 (65) av	16067
L_0~180 (75) av	20629
L_0~180 (85) av	35712
L_90~270 (65) av	16307
L_90~270 (75) av	20292
L_90~270 (85) av	34191
L_45 (65) av	16051
L_45 (75) av	20265
L_45 (85) av	34813

Standard: GB/T 29293-2012

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γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
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Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2024-10-18

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.453  
Humidity: 65.0%  
Test Distance: 3.090m [K=1.0000]  
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

```

### Photometric Data Table [cd]

G/C	0.0	45.0	90.0	135.0	180.0	225.0	270.0	315.0
0.0	4869	4869	4869	4869	4869	4869	4869	4869
3.0	4566	4571	4599	4663	4707	4689	4642	4592
6.0	4063	4071	4109	4212	4250	4240	4172	4092
9.0	3325	3315	3328	3408	3450	3447	3390	3332
12.0	2455	2450	2460	2531	2578	2559	2521	2468
15.0	1759	1769	1783	1854	1913	1875	1837	1776
18.0	1325	1334	1337	1382	1426	1404	1365	1324
21.0	1102	1110	1104	1121	1149	1135	1108	1088
24.0	978.5	987.9	977.1	982.2	1001	987.8	973.2	963.0
27.0	899.2	905.9	900.0	900.6	909.9	899.6	890.4	881.3
30.0	834.9	841.0	837.7	840.3	843.8	833.1	827.5	820.8
33.0	775.6	782.9	780.0	787.2	784.2	774.3	769.3	763.2
36.0	691.8	702.2	709.7	726.7	721.8	712.3	705.6	693.5
39.0	541.1	549.0	567.4	602.0	610.1	604.8	585.5	554.2
42.0	364.6	371.0	386.4	421.0	437.7	432.0	409.2	378.4
45.0	197.0	203.6	215.3	241.9	252.6	253.9	237.3	210.5
48.0	83.50	77.85	90.77	94.03	101.1	104.8	96.85	88.76
51.0	40.89	40.94	40.20	34.96	32.40	34.93	35.00	36.12
54.0	27.04	26.76	26.03	23.53	22.15	23.39	23.19	24.00
57.0	16.57	16.65	16.59	15.60	14.82	15.53	15.54	15.99
60.0	12.05	12.15	12.34	11.69	11.16	11.34	11.42	11.72
63.0	9.681	9.797	9.996	9.584	9.227	9.086	9.249	9.421
66.0	8.782	8.905	9.061	8.728	8.344	8.074	8.305	8.505
69.0	8.185	8.269	8.362	8.050	7.614	7.269	7.567	7.781
72.0	7.666	7.720	7.780	7.451	6.995	6.577	6.875	7.199
75.0	7.338	7.336	7.291	6.995	6.543	5.996	6.364	6.946
78.0	8.213	8.048	7.631	7.337	7.320	6.622	7.019	8.073
81.0	7.953	7.621	7.541	7.376	7.456	6.881	7.013	7.728
84.0	5.275	5.244	5.240	5.048	4.950	4.490	4.445	5.119
87.0	1.507	1.442	1.472	1.425	1.288	1.114	1.246	1.363
90.0	0.0789	0.0623	0.0824	0.0628	0.0718	0.0671	0.0785	0.0657

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