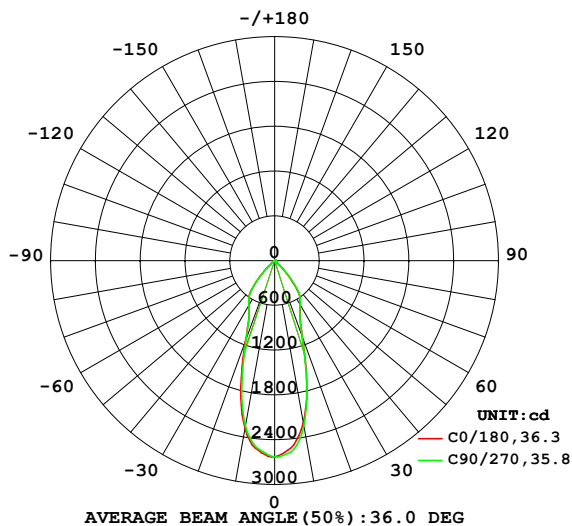


## LUMINAIRE PHOTOMETRIC TEST REPORT

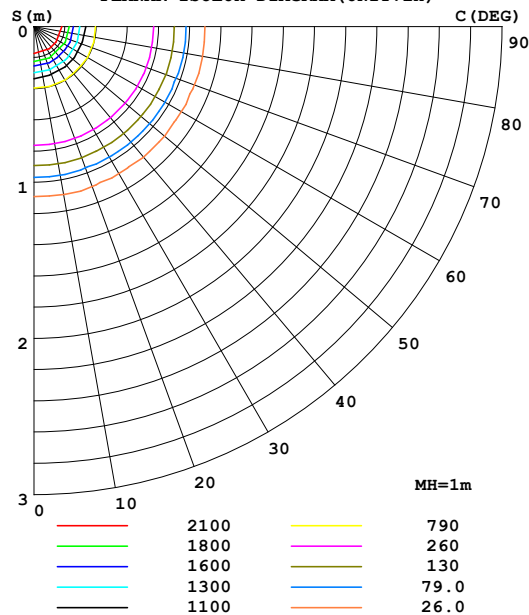
Test:U:240.4V I:0.0632A P:14.6W PF:0.9624 Freq:49.99Hz		
UTHDi:0.17% ITHDi:17.53% KDisp:0.9773		Lamp Flux:1638.03x1 lm
NAME: FUSION-MD23-AHD-018-COB-02SC 3000K RA90 38D	15W TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 111.95 lm/W
MODEL		Imax (cd)	2634	S/MH (C0/180)		0.62
NOMINAL POWER(W)	15	LOR (%)	100.0	S/MH (C90/270)		0.60
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	1638.0	$\eta$ UP,DN (C0-180)		0.0,49.4
NOMINAL FLUX(lm)	1638.03	CIE CLASS	DIRECT	$\eta$ UP,DN (C180-360)		0.0,50.6
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM		0.50
TEST VOLTAGE(V)	240.38	$\eta$ down (%)	100.0	CIBSE SHR MAX		0.60

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:2024-10-17

$\gamma$  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:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	2211	2228	2252	2270	2289	2269	2253	2235	0- 10	233.9	233.9	14.3,14.3
20	1088	1076	1083	1129	1143	1131	1117	1096	10- 20	460.5	694.4	42.4,42.4
30	691.0	686.8	684.1	683.2	693.3	701.2	694.1	689.8	20- 30	383.1	1077	65.8,65.8
40	392.8	401.8	414.3	428.5	437.5	435.6	420.4	401.2	30- 40	363.0	1440	87.9,87.9
50	42.78	39.48	38.04	38.99	42.46	47.38	48.14	47.22	40- 50	148.7	1589	97,97
60	17.03	16.14	16.19	17.00	17.60	17.71	17.54	18.26	50- 60	24.40	1614	98.5,98.5
70	9.225	8.427	8.005	8.474	8.922	9.002	9.316	9.924	60- 70	11.83	1625	99.2,99.2
80	7.704	6.667	6.343	6.540	7.080	7.636	7.896	7.992	70- 80	9.195	1635	99.8,99.8
90	0.0684	0.0591	0.0755	0.0630	0.0652	0.0585	0.0626	0.0560	80- 90	3.506	1638	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): 1549.8 lm

%lum = 94.6%

%lamp = 94.6%

Conical surface Flux(120deg): 1613.5 lm

%lum = 98.5%

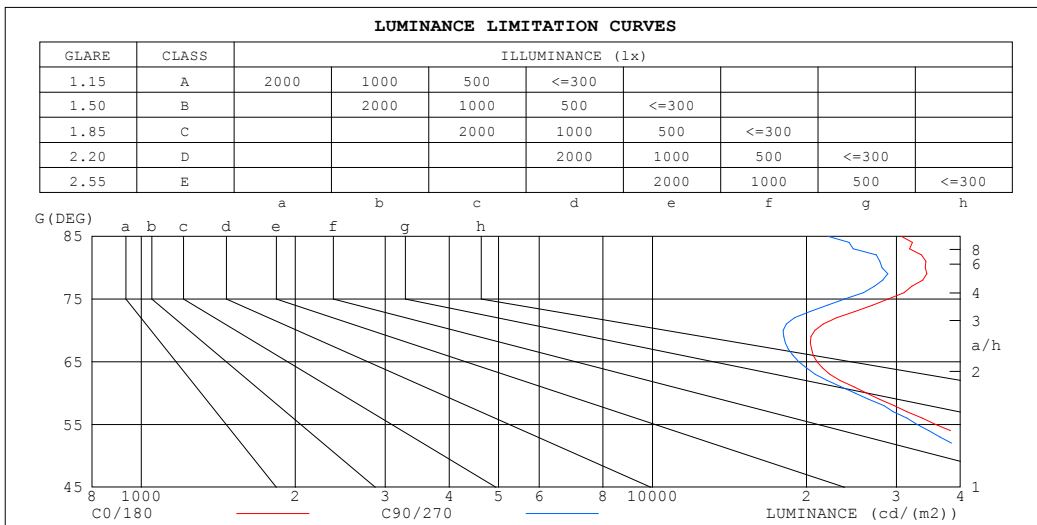
%lamp = 98.5%

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2024-10-17

$\gamma$  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:0.0632A P:14.6W PF:0.9624 Freq:49.99Hz			Lamp Flux:1638.03x1 lm		
UTHDi:0.17% ITHDi:17.53% KDisp:0.9773					
NAME: FUSION-MD23-AHD-018-COB-02SC 3000K RA90 38D 15W			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: Norming lighting			SUR.: 41mm		Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	30659	22020
80	34148	28099
75	28915	23741
70	20760	18007
65	20988	19316
60	26219	24916
55	35839	32966
50	51227	45524
45	178578	191726

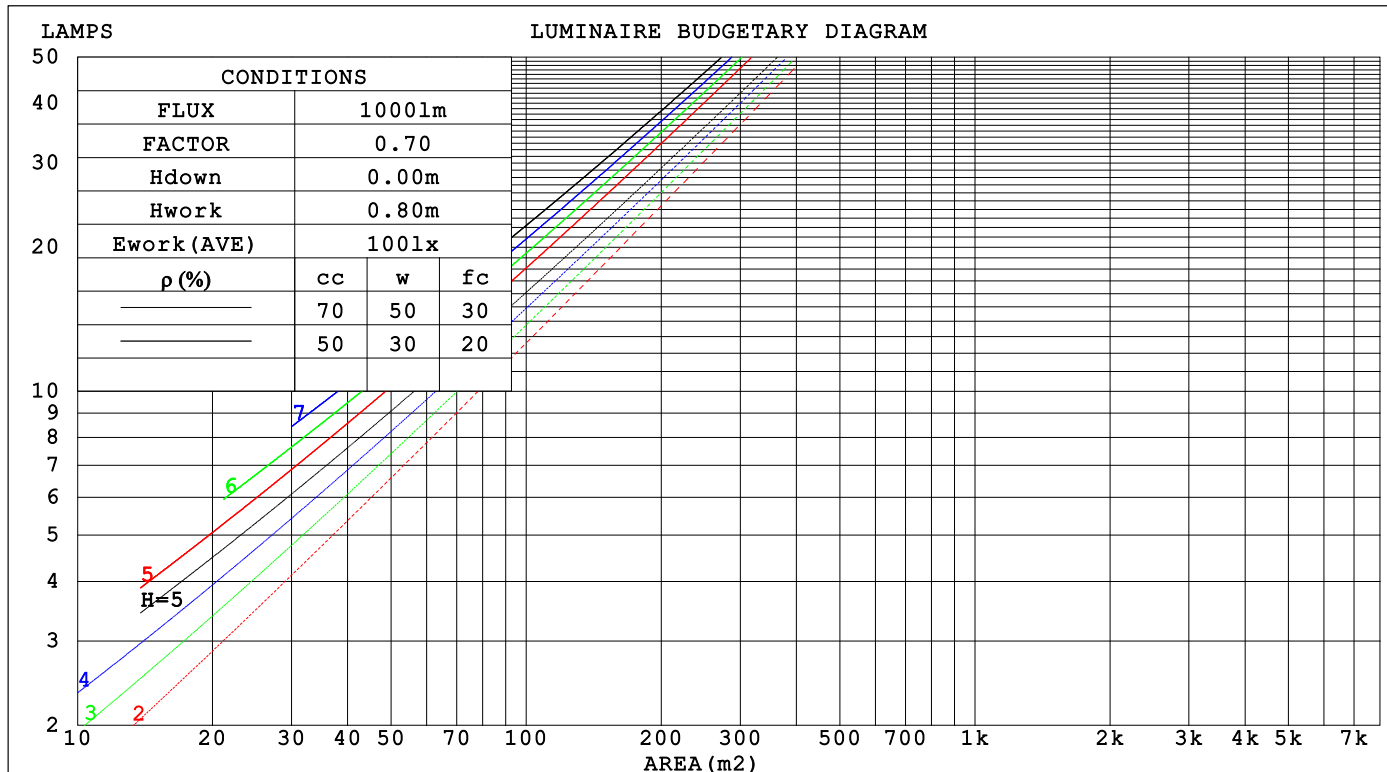
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-10-17

$\gamma$  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:0.0632A P:14.6W PF:0.9624 Freq:49.99Hz		
UTHDi:0.17% ITHDi:17.53% KDisp:0.9773		
Lamp Flux:1638.03x1 lm		
NAME: FUSION-MD23-AHD-018-COB-02SC 3000K RA90 38D	15WTYPE:	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	1.10	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.01	1.01	.99	.98	.97	.96	.95	.93														
2.0	1.03	.98	.95	1.01	.97	.94	.98	.95	.92	.95	.92	.90	.92	.90	.88	.86														
3.0	.96	.91	.86	.94	.90	.86	.92	.88	.84	.89	.86	.83	.87	.84	.82	.80														
4.0	.89	.84	.79	.88	.83	.79	.86	.81	.78	.84	.80	.77	.82	.79	.76	.75														
5.0	.84	.78	.73	.83	.77	.73	.81	.76	.72	.79	.75	.72	.78	.74	.71	.70														
6.0	.79	.72	.68	.78	.72	.68	.76	.71	.67	.75	.70	.67	.73	.70	.67	.65														
7.0	.74	.68	.64	.73	.68	.63	.72	.67	.63	.71	.66	.63	.70	.66	.62	.61														
8.0	.70	.64	.60	.69	.64	.60	.68	.63	.59	.67	.62	.59	.66	.62	.59	.57														
9.0	.66	.60	.56	.66	.60	.56	.65	.59	.56	.64	.59	.56	.63	.59	.55	.54														
10.0	.63	.57	.53	.62	.57	.53	.61	.56	.53	.61	.56	.53	.60	.56	.52	.51														



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-10-17

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:0.0632A P:14.6W PF:0.9624 Freq:49.99Hz			UTHDi:0.17% ITHDi:17.53% KDisp:0.9773			Lamp Flux:1638.03x1 lm		
NAME: FUSION-MD23-AHD-018-COB-02SC 3000K RA90 38D			15WTYPE:			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	.183	.104	.033	.176	.101	.032	.164	.094	.030	.152	.088	.028	.142	.082	.026		
2.0	.175	.096	.029	.169	.093	.029	.159	.088	.027	.149	.083	.026	.140	.079	.025		
3.0	.166	.088	.026	.161	.086	.026	.152	.082	.025	.144	.079	.024	.136	.075	.023		
4.0	.158	.082	.024	.154	.080	.024	.146	.077	.023	.138	.074	.022	.132	.072	.022		
5.0	.150	.076	.022	.146	.075	.022	.139	.073	.021	.133	.070	.021	.127	.068	.020		
6.0	.143	.072	.020	.139	.070	.020	.133	.068	.020	.128	.066	.020	.123	.065	.019		
7.0	.136	.067	.019	.133	.066	.019	.128	.065	.019	.123	.063	.018	.118	.061	.018		
8.0	.130	.063	.018	.127	.063	.018	.123	.061	.017	.118	.060	.017	.114	.058	.017		
9.0	.124	.060	.017	.122	.059	.017	.118	.058	.016	.114	.057	.016	.110	.056	.016		
10.0	.119	.057	.016	.117	.056	.016	.113	.055	.016	.109	.054	.015	.106	.053	.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	.172	.157	.144	.147	.135	.124	.100	.093	.086	.058	.054	.050	.019	.017	.016		
2.0	.157	.132	.112	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013		
3.0	.144	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010		
4.0	.134	.099	.072	.115	.085	.062	.079	.060	.044	.046	.035	.026	.015	.011	.009		
5.0	.126	.087	.059	.108	.076	.051	.074	.053	.036	.043	.031	.022	.014	.010	.007		
6.0	.118	.078	.049	.102	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006		
7.0	.112	.071	.042	.096	.061	.036	.066	.043	.026	.039	.025	.015	.012	.008	.005		
8.0	.106	.064	.036	.091	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004		
9.0	.101	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.011	.011	.007	.004		
10.0	.096	.055	.027	.083	.048	.024	.057	.033	.017	.034	.020	.010	.011	.006	.003		

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-10-17

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:0.0632A P:14.6W PF:0.9624 Freq:49.99Hz UTHDi:0.17% ITHDi:17.53% KDisp:0.9773Lamp Flux:1638.03x1 lm										
NAME: FUSION-MD23-AHD-018-COB-02SC 3000K RA90 38D 15WTYPE:						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	26.4	27.3	26.6	27.5	27.7	26.5	27.4	26.7	27.6	27.8
3H	26.3	27.2	26.5	27.4	27.6	26.3	27.2	26.6	27.4	27.6
4H	26.2	27.1	26.5	27.3	27.5	26.3	27.1	26.6	27.4	27.6
6H	26.3	27.1	26.6	27.3	27.5	26.3	27.1	26.6	27.3	27.6
8H	26.3	27.0	26.6	27.3	27.5	26.3	27.0	26.6	27.3	27.5
12H	26.3	27.0	26.6	27.3	27.5	26.2	27.0	26.6	27.2	27.5
4H 2H	26.1	27.0	26.4	27.2	27.4	26.2	27.1	26.5	27.3	27.5
3H	26.1	26.8	26.4	27.1	27.3	26.1	26.8	26.4	27.1	27.4
4H	26.1	26.7	26.4	27.0	27.3	26.1	26.8	26.5	27.1	27.4
6H	26.2	26.7	26.5	27.1	27.4	26.2	26.7	26.5	27.1	27.4
8H	26.2	26.7	26.6	27.1	27.5	26.2	26.7	26.6	27.1	27.4
12H	26.2	26.7	26.6	27.1	27.5	26.2	26.7	26.6	27.0	27.4
8H 4H	26.0	26.5	26.4	26.9	27.3	26.0	26.6	26.4	26.9	27.3
6H	26.2	26.6	26.6	27.0	27.4	26.1	26.6	26.6	27.0	27.4
8H	26.2	26.6	26.7	27.0	27.5	26.2	26.6	26.6	27.0	27.4
12H	26.3	26.6	26.7	27.0	27.5	26.2	26.5	26.7	27.0	27.4
12H 4H	26.0	26.5	26.4	26.8	27.2	26.0	26.5	26.4	26.9	27.3
6H	26.1	26.5	26.6	26.9	27.4	26.1	26.5	26.6	26.9	27.4
8H	26.2	26.5	26.7	27.0	27.5	26.2	26.5	26.6	26.9	27.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.4 / - 5.9					+ 2.5 / - 6.6				
1.5H	+ 4.6 / - 5.8					+ 4.7 / - 6.4				
2.0H	+ 5.4 / - 1.8					+ 6.0 / - 2.2				

CIE Pub.117, 1638 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 1.7$ )  
Area: 0.0013 m2

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-10-17

$\gamma$  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:0.0632A P:14.6W PF:0.9624 Freq:49.99Hz		
UTHDi:0.17% ITHDi:17.53% KDisp:0.9773		Lamp Flux:1638.03x1 lm
NAME: FUSION-MD23-AHD-018-COB-02SC 3000K RA90 38D	15WTYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

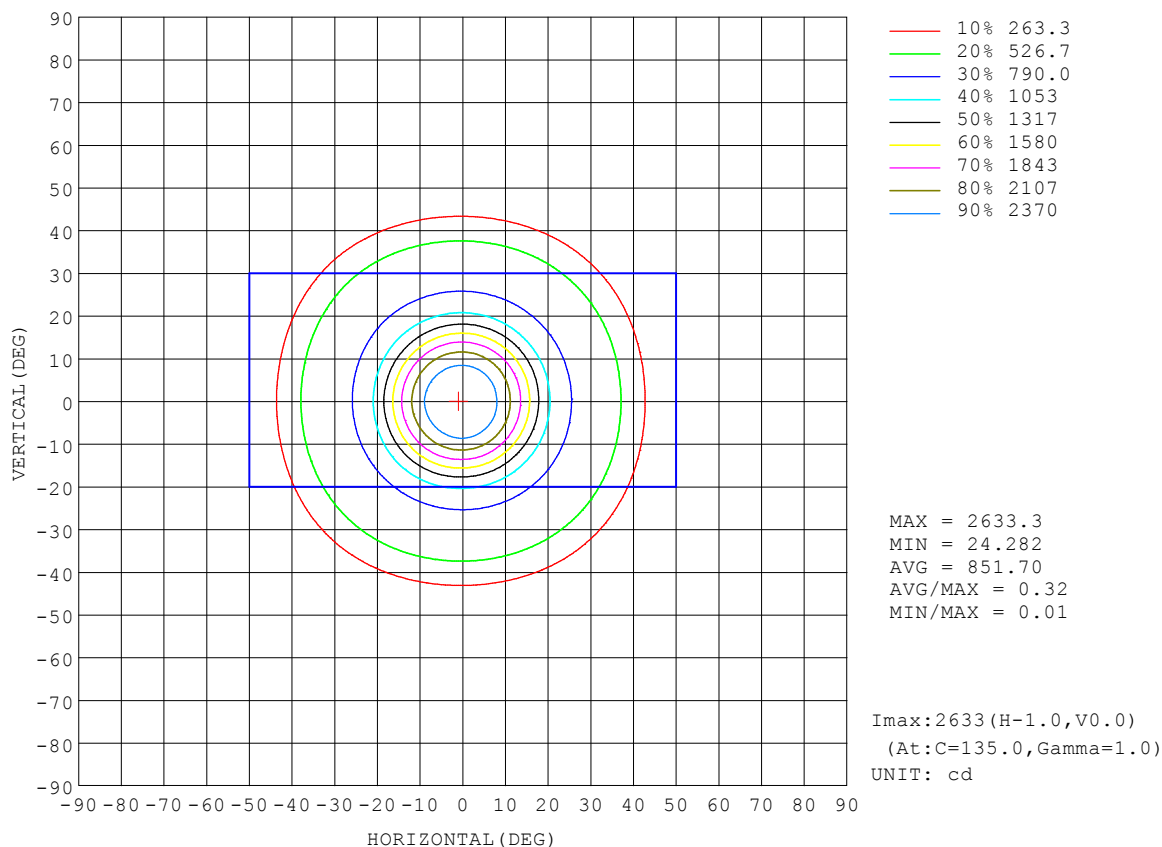
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	77	73	83	77	73	83	76	73	69
0.80	92	86	81	91	85	81	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	98	95	101	97	94	89
2.00	107	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	108	106	107	105	104	96
5.00	114	112	110	112	110	108	108	107	105	97
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: 2024-10-17

$\gamma$  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:0.0632A P:14.6W PF:0.9624 Freq:49.99Hz		
UTHDi:0.17% ITHDi:17.53% KDisp:0.9773 Lamp Flux:1638.03x1 lm		
NAME: FUSION-MD23-AHD-018-COB-02SC 3000K RA90 38D	15W TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:



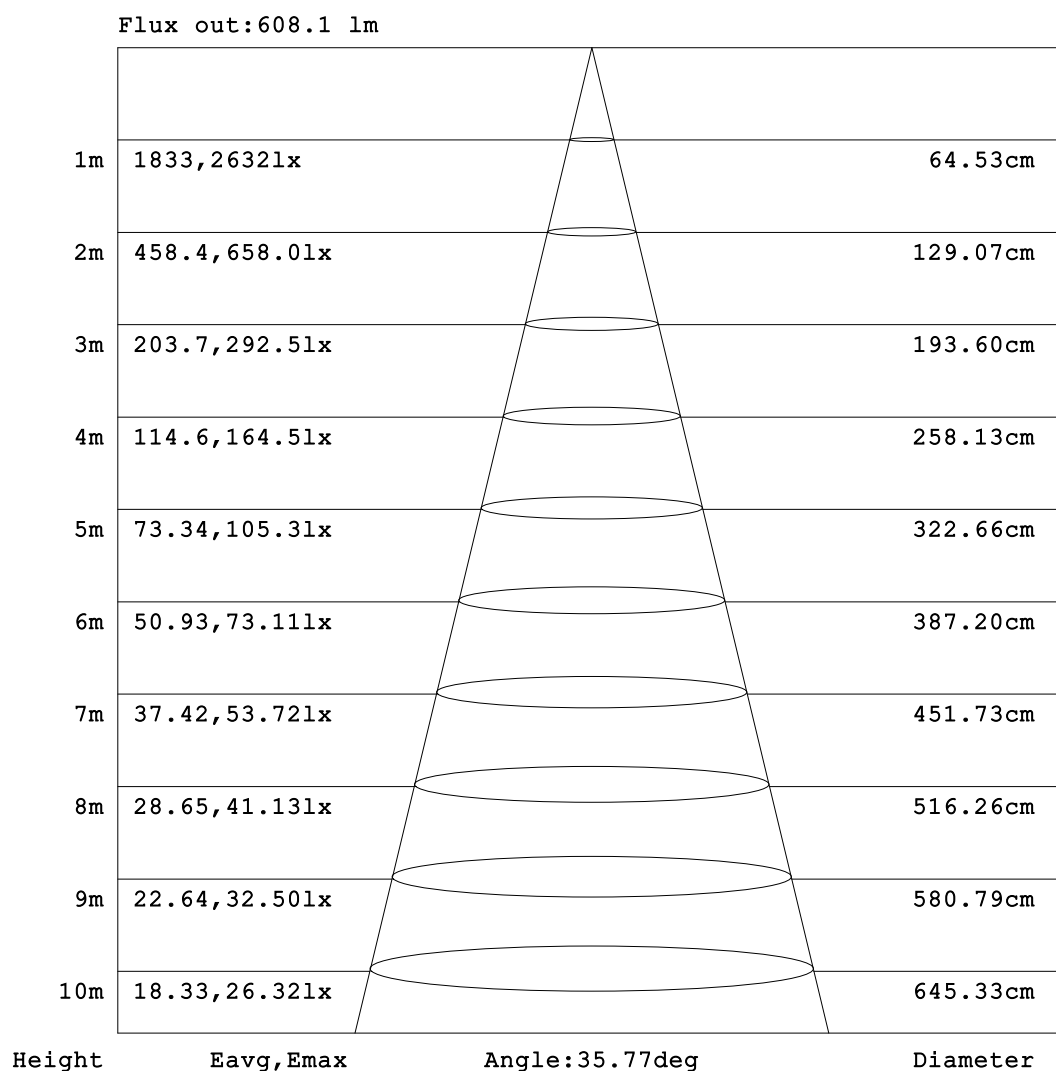
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2024-10-17

$\gamma$  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:0.0632A P:14.6W PF:0.9624 Freq:49.99Hz		
UTHDi:0.17% ITHDi:17.53% KDisp:0.9773		Lamp Flux:1638.03x1 lm
NAME: FUSION-MD23-AHD-018-COB-02SC 3000K RA90 38D 15W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:



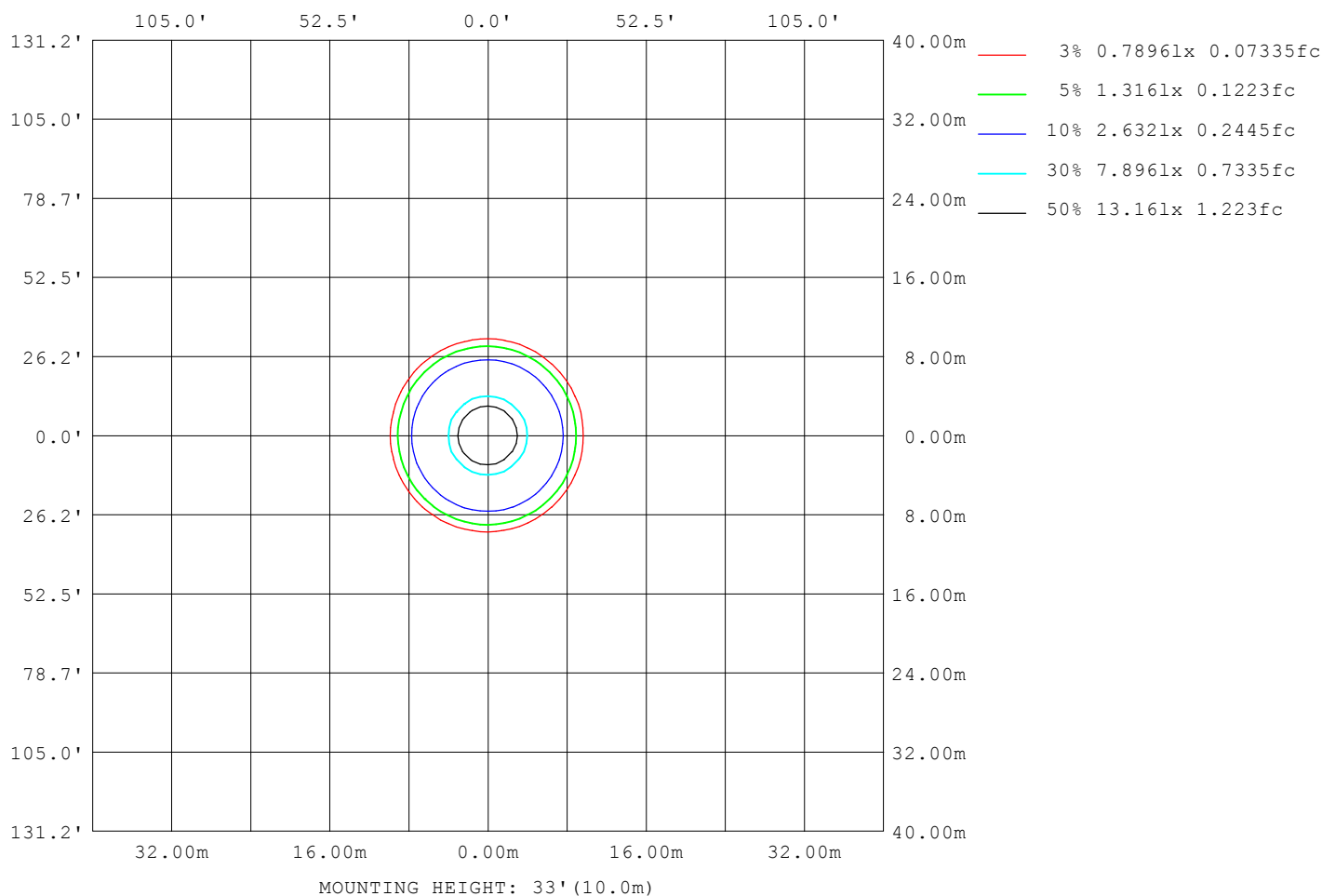
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2024-10-17

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:0.0632A P:14.6W PF:0.9624 Freq:49.99Hz		
UTHDi:0.17% ITHDi:17.53% KDisp:0.9773		Lamp Flux:1638.03x1 lm
NAME: FUSION-MD23-AHD-018-COB-02SC 3000K RA90 38D	15W TYPE:	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:2024-10-17

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:0.0632A P:14.6W PF:0.9624 Freq:49.99Hz		
UTHDi:0.17% ITHDi:17.53% KDisp:0.9773		Lamp Flux:1638.03x1 lm
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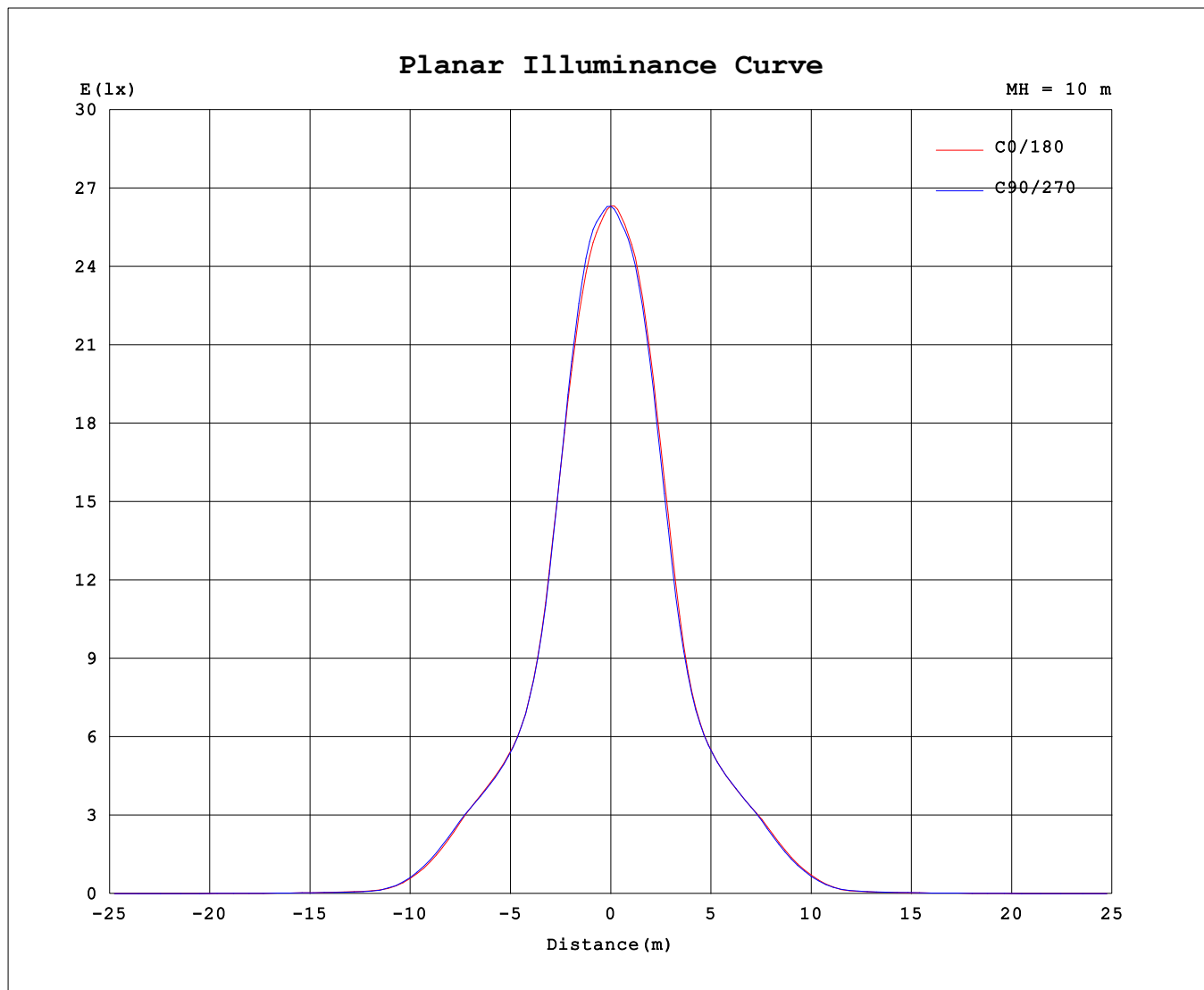
AvgL	cd/m2
L_0~180 (65) av	21106
L_0~180 (75) av	28075
L_0~180 (85) av	28962
L_90~270 (65) av	20374
L_90~270 (75) av	25889
L_90~270 (85) av	28917
L_45 (65) av	20878
L_45 (75) av	27132
L_45 (85) av	29142

Standard: GB/T 29293-2012

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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: 2024-10-17

$\gamma$  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	2630	2630	2630	2630	2630	2630	2630	2630
3.0	2572	2588	2602	2611	2600	2593	2577	2569
6.0	2479	2509	2537	2533	2524	2516	2501	2486
9.0	2295	2315	2344	2354	2367	2344	2332	2317
12.0	2015	2017	2040	2076	2103	2084	2061	2039
15.0	1666	1645	1660	1728	1758	1729	1700	1686
18.0	1294	1270	1281	1346	1378	1344	1324	1314
21.0	1008	998.4	1004	1041	1049	1045	1033	1008
24.0	839.8	835.5	838.4	846.8	858.1	861.9	853.1	840.1
27.0	750.5	746.9	745.5	747.4	757.1	763.5	756.1	751.7
30.0	691.0	686.8	684.1	683.2	693.3	701.2	694.1	689.8
33.0	637.3	634.9	631.4	630.7	640.1	649.2	641.3	636.2
36.0	566.4	569.0	573.9	577.0	584.0	590.4	579.8	569.6
39.0	441.0	449.4	461.4	475.3	483.0	481.4	466.6	448.8
42.0	296.7	304.6	317.0	328.9	341.1	338.6	325.2	306.1
45.0	164.1	168.2	176.2	187.8	201.9	197.4	188.6	173.8
48.0	67.02	66.51	73.25	72.41	84.48	89.92	83.23	79.46
51.0	38.78	35.43	34.24	34.71	36.01	40.47	41.95	42.56
54.0	29.22	26.56	26.51	26.92	27.64	29.94	30.76	31.60
57.0	22.27	20.85	20.94	21.60	22.22	23.04	23.37	24.28
60.0	17.03	16.14	16.19	17.00	17.60	17.71	17.54	18.26
63.0	13.11	12.33	12.28	13.04	13.51	13.55	13.41	13.93
66.0	10.89	10.12	9.955	10.57	10.90	11.01	11.12	11.47
69.0	9.499	8.703	8.410	8.898	9.215	9.394	9.653	10.07
72.0	9.215	8.424	7.621	7.996	8.835	8.486	9.025	10.17
75.0	9.723	8.828	7.987	8.237	9.170	8.842	9.434	10.61
78.0	9.118	8.142	7.623	7.888	8.320	8.597	9.141	9.668
81.0	6.959	6.001	5.657	6.071	6.337	6.960	7.374	7.358
84.0	4.377	3.576	3.291	3.527	3.890	4.536	4.912	4.827
87.0	1.130	0.7781	0.6518	0.9058	1.319	1.707	1.974	1.575
90.0	0.0684	0.0591	0.0755	0.0630	0.0652	0.0585	0.0626	0.0560

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