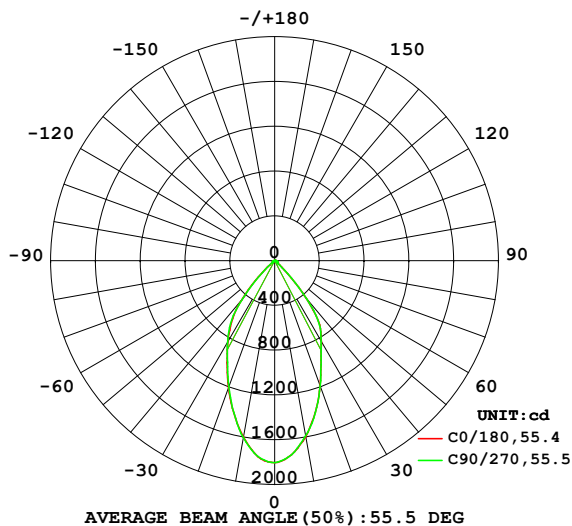


LUMINAIRE PHOTOMETRIC TEST REPORT

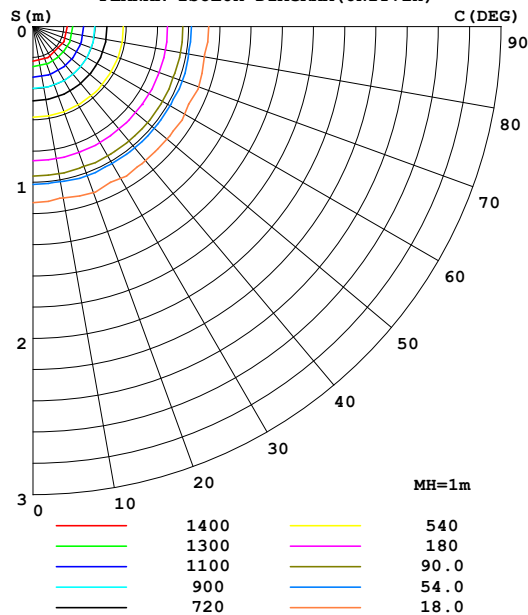
Test:U:240.4V I:0.0632A P:14.6W PF:0.9624 Freq:49.99Hz		
UTHDi:0.15% ITHDi:17.52% KDisp:0.9772		Lamp Flux:1645.74x1 lm
NAME: FUSION-MD23-AHD-018-COB-02SC 3000K RA90 60D	15W TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 112.45 lm/W
MODEL		Imax (cd)	1805	S/MH (C0/180)	0.81	
NOMINAL POWER(W)	15	LOR (%)	100.0	S/MH (C90/270)	0.80	
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	1645.7	η UP,DN (C0-180)	0.0,49.8	
NOMINAL FLUX(lm)	1645.74	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,50.2	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE(V)	240.38	η down (%)	100.0	CIBSE SHR MAX	0.95	

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

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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1597	1596	1592	1602	1603	1606	1608	1603	0- 10	161.9	161.9	9.84,9.84
20	1188	1199	1192	1200	1209	1204	1199	1181	10- 20	392.1	554.0	33.7,33.7
30	834.9	836.1	831.7	837.7	837.9	843.7	845.1	840.5	20- 30	459.1	1013	61.6,61.6
40	441.3	453.3	452.4	462.5	461.2	462.8	455.5	440.1	30- 40	419.6	1433	87.1,87.1
50	40.90	39.28	35.11	37.87	39.01	39.46	41.65	41.47	40- 50	154.1	1587	96.4,96.4
60	24.31	24.15	23.26	23.13	22.12	21.87	22.90	24.75	50- 60	25.72	1612	98,98
70	15.14	14.61	13.93	14.37	15.62	15.97	15.92	15.46	60- 70	19.21	1632	99.1,99.1
80	6.783	6.356	5.618	5.436	5.856	6.478	6.816	7.024	70- 80	11.04	1643	99.8,99.8
90	0.0638	0.0610	0.0746	0.0641	0.0680	0.0639	0.0652	0.0593	80- 90	3.004	1646	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): 1548.4 lm

%lum = 94.1%

%lamp = 94.1%

Conical surface Flux(120deg): 1612.5 lm

%lum = 98.0%

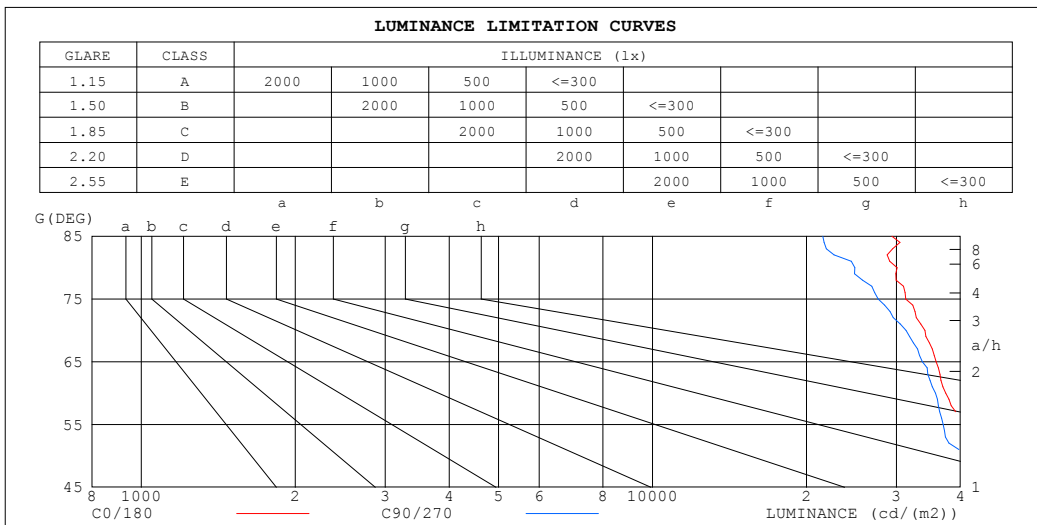
%lamp = 98.0%

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:

LUMINANCE LIMITATION CURVES

Test:U:240.4V I:0.0632A P:14.6W PF:0.9624 Freq:49.99Hz			Lamp Flux:1645.74x1 lm		
UTHDi:0.15% ITHDi:17.52% KDisp:0.9772					
NAME: FUSION-MD23-AHD-018-COB-02SC 3000K RA90 60D 15WTYPE:			WEIGHT:		
SPEC.:			DIM.:		
MFR.: Norming lighting			SUR.: 41mm		
			Shielding Angle:		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	29384	21539
80	30098	24879
75	31265	27623
70	34111	31331
65	35870	33719
60	37467	35781
55	41204	37051
50	49034	42010
45	179622	185855

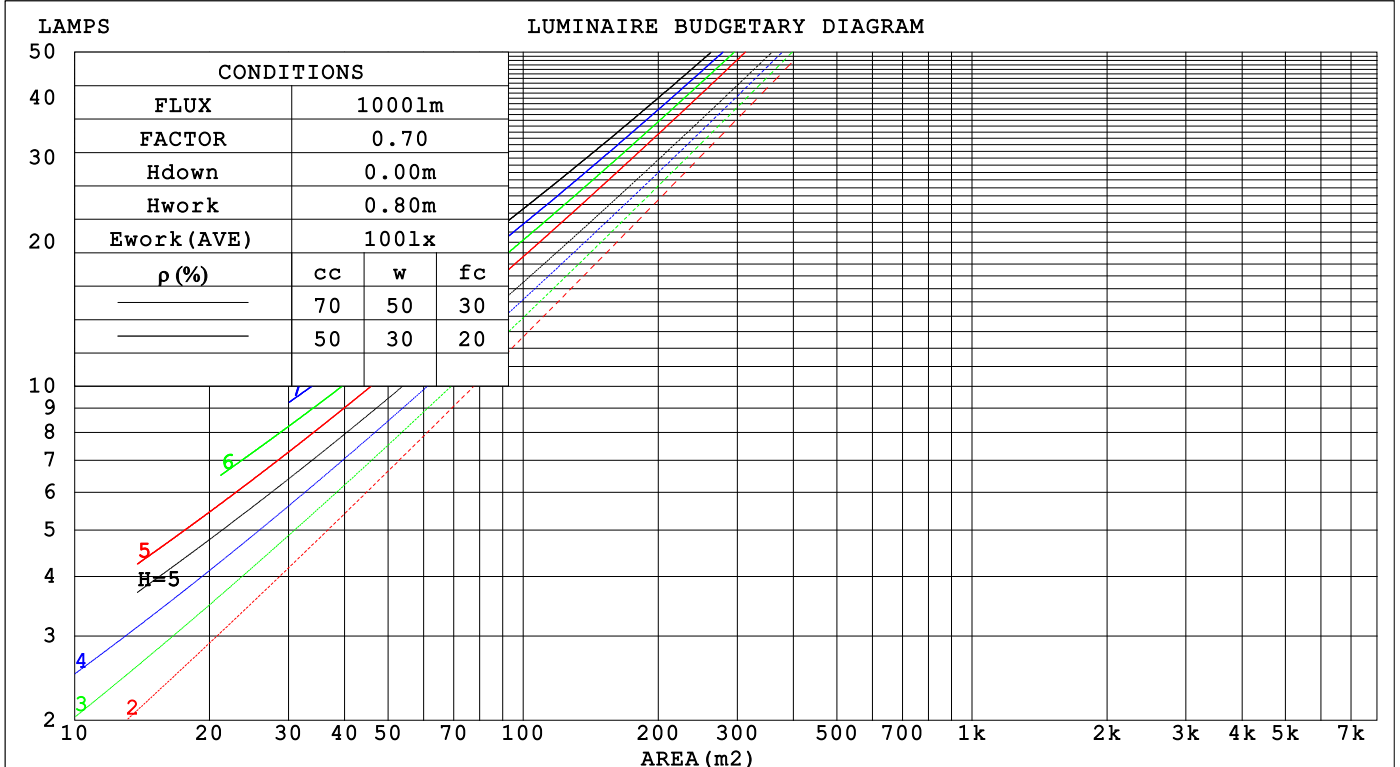
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-10-17

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.4V I:0.0632A P:14.6W PF:0.9624 Freq:49.99Hz		
UTHDi:0.15% ITHDi:17.52% KDisp:0.9772		Lamp Flux:1645.74x1 lm
NAME: FUSION-MD23-AHD-018-COB-02SC 3000K RA90 60D	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	1.07	1.05	1.08	1.05	1.03	1.04	1.02	1.00	1.00	.99	.97	.97	.95	.94	.92
2.0	1.02	.97	.94	.90	.96	.93	.97	.93	.91	.94	.91	.89	.91	.89	.87	.85
3.0	.94	.89	.85	.93	.88	.84	.90	.86	.83	.88	.84	.81	.85	.82	.80	.78
4.0	.87	.81	.77	.86	.81	.76	.84	.79	.76	.82	.78	.75	.80	.77	.74	.72
5.0	.81	.75	.71	.80	.75	.70	.79	.73	.70	.77	.72	.69	.75	.71	.68	.67
6.0	.76	.70	.65	.75	.69	.65	.74	.68	.64	.72	.67	.64	.71	.67	.63	.62
7.0	.71	.65	.60	.70	.64	.60	.69	.64	.60	.68	.63	.59	.67	.62	.59	.57
8.0	.67	.60	.56	.66	.60	.56	.65	.59	.55	.64	.59	.55	.63	.58	.55	.54
9.0	.63	.56	.52	.62	.56	.52	.61	.56	.52	.60	.55	.52	.59	.55	.51	.50
10.0	.59	.53	.49	.58	.53	.49	.58	.52	.49	.57	.52	.48	.56	.52	.48	.47



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:0.15% ITHDi:17.52% KDisp:0.9772			Lamp Flux:1645.74x1 lm		
NAME: FUSION-MD23-AHD-018-COB-02SC 3000K RA90 60D			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	.192	.109	.035	.185	.106	.034	.172	.099	.032	.161	.093	.030	.150	.087	.028		
2.0	.184	.101	.031	.178	.098	.030	.168	.093	.029	.158	.088	.028	.149	.084	.026		
3.0	.175	.093	.028	.170	.091	.027	.161	.087	.027	.153	.084	.026	.145	.080	.025		
4.0	.167	.087	.025	.162	.085	.025	.154	.082	.024	.147	.079	.024	.140	.076	.023		
5.0	.159	.081	.023	.155	.080	.023	.148	.077	.023	.141	.075	.022	.135	.072	.022		
6.0	.151	.076	.022	.148	.075	.021	.142	.073	.021	.136	.071	.021	.130	.069	.020		
7.0	.144	.071	.020	.141	.070	.020	.136	.069	.020	.131	.067	.019	.126	.065	.019		
8.0	.138	.067	.019	.135	.066	.019	.130	.065	.019	.126	.064	.018	.121	.062	.018		
9.0	.132	.064	.018	.129	.063	.018	.125	.062	.017	.121	.061	.017	.117	.059	.017		
10.0	.126	.060	.017	.124	.060	.017	.120	.059	.017	.116	.058	.016	.113	.057	.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	.093	.079	.067	.053	.046	.039	.017	.015	.013		
3.0	.146	.114	.088	.125	.098	.076	.086	.068	.053	.050	.040	.031	.016	.013	.010		
4.0	.137	.099	.071	.117	.086	.061	.081	.060	.043	.047	.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	.115	.071	.041	.099	.062	.035	.068	.043	.025	.040	.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	.090	.052	.026	.062	.037	.019	.036	.022	.011	.012	.007	.004		
10.0	.099	.056	.027	.086	.048	.023	.059	.034	.016	.035	.020	.010	.011	.007	.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:0.15% ITHDi:17.52% KDisp:0.9772Lamp Flux:1645.74x1 lm										
NAME: FUSION-MD23-AHD-018-COB-02SC 3000K RA90 60D 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	27.3	28.3	27.5	28.5	28.7	27.3	28.4	27.6	28.5	28.7
3H	27.3	28.2	27.5	28.4	28.6	27.3	28.2	27.5	28.4	28.6
4H	27.2	28.1	27.5	28.4	28.6	27.2	28.1	27.5	28.3	28.6
6H	27.2	28.1	27.5	28.3	28.5	27.2	28.0	27.5	28.3	28.5
8H	27.2	28.0	27.5	28.3	28.5	27.2	28.0	27.5	28.2	28.5
12H	27.2	27.9	27.5	28.2	28.5	27.1	27.9	27.5	28.2	28.4
4H 2H	27.1	28.0	27.4	28.2	28.4	27.1	28.0	27.4	28.2	28.5
3H	27.1	27.9	27.4	28.1	28.4	27.1	27.9	27.4	28.1	28.4
4H	27.1	27.8	27.5	28.1	28.4	27.1	27.8	27.4	28.1	28.4
6H	27.1	27.8	27.5	28.1	28.4	27.1	27.7	27.5	28.0	28.4
8H	27.1	27.7	27.5	28.1	28.4	27.1	27.6	27.5	28.0	28.4
12H	27.1	27.7	27.6	28.0	28.4	27.1	27.6	27.5	27.9	28.3
8H 4H	27.0	27.6	27.4	28.0	28.3	27.0	27.6	27.4	27.9	28.3
6H	27.1	27.6	27.5	28.0	28.4	27.0	27.5	27.5	27.9	28.3
8H	27.1	27.5	27.6	27.9	28.4	27.0	27.5	27.5	27.9	28.3
12H	27.1	27.5	27.6	27.9	28.4	27.0	27.4	27.5	27.8	28.3
12H 4H	27.0	27.5	27.4	27.9	28.3	27.0	27.5	27.4	27.9	28.3
6H	27.1	27.5	27.5	27.9	28.3	27.0	27.4	27.5	27.8	28.3
8H	27.1	27.4	27.6	27.9	28.4	27.0	27.4	27.5	27.8	28.3
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.5 / - 5.9					+ 2.6 / - 6.4				
1.5H	+ 4.9 / - 5.8					+ 4.9 / - 6.5				
2.0H	+ 5.0 / - 1.4					+ 5.4 / - 1.6				

CIE Pub.117, 1646 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 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

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:

UTILIZATION FACTORS TABLE

Test:U:240.4V I:0.0632A P:14.6W PF:0.9624 Freq:49.99Hz		
UTHDi:0.15% ITHDi:17.52% KDisp:0.9772		Lamp Flux:1645.74x1 lm
NAME: FUSION-MD23-AHD-018-COB-02SC 3000K RA90 60D	15WTYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

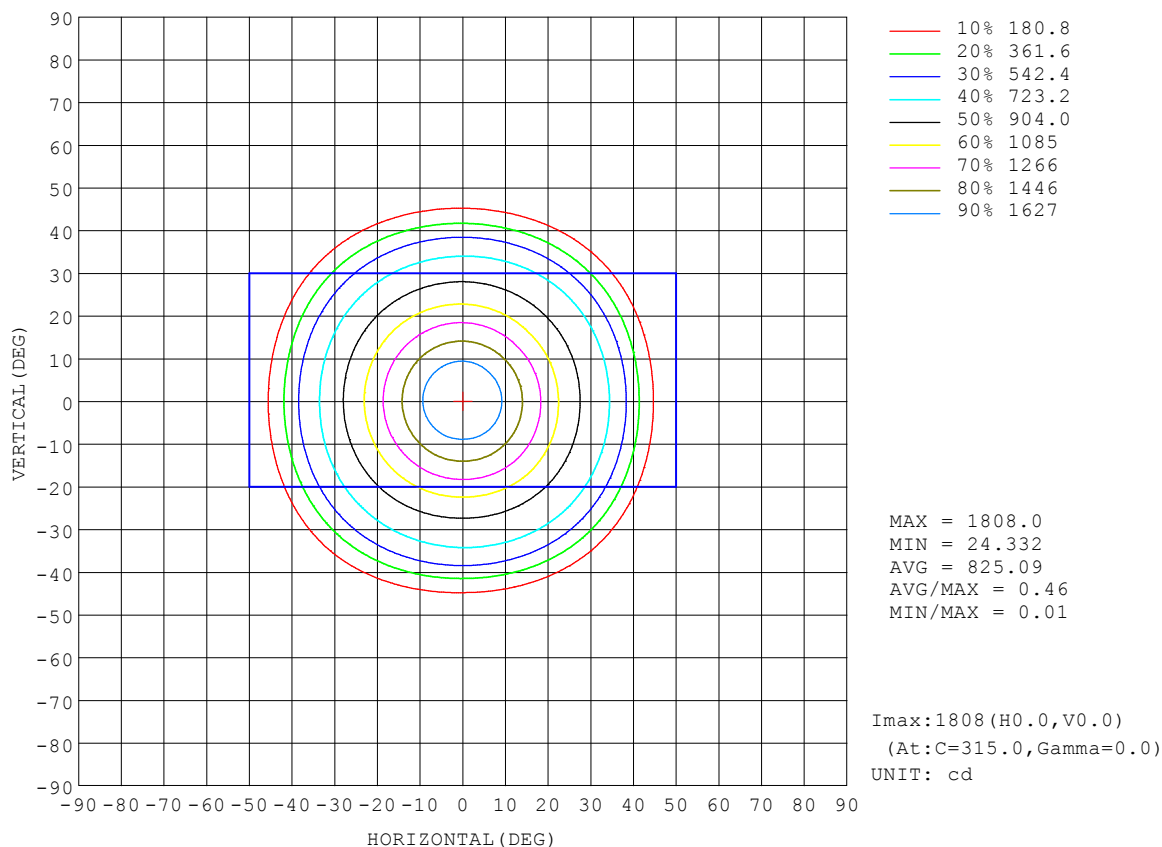
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	76	72	83	76	72	82	76	72	68
0.80	91	85	81	91	85	81	90	84	80	76
1.00	97	90	86	96	90	86	94	90	86	81
1.25	101	95	91	100	95	91	98	94	90	86
1.50	104	99	95	103	98	95	100	97	94	89
2.00	107	103	99	106	102	98	103	100	97	91
2.50	109	105	102	107	104	101	104	101	99	93
3.00	111	107	104	109	106	103	106	103	101	94
4.00	113	110	108	111	108	106	107	105	103	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

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:

ISOCANDELA DIAGRAM

Test:U:240.4V I:0.0632A P:14.6W PF:0.9624 Freq:49.99Hz		
UTHDi:0.15% ITHDi:17.52% KDisp:0.9772 Lamp Flux:1645.74x1 lm		
NAME: FUSION-MD23-AHD-018-COB-02SC 3000K RA90 60D 15W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

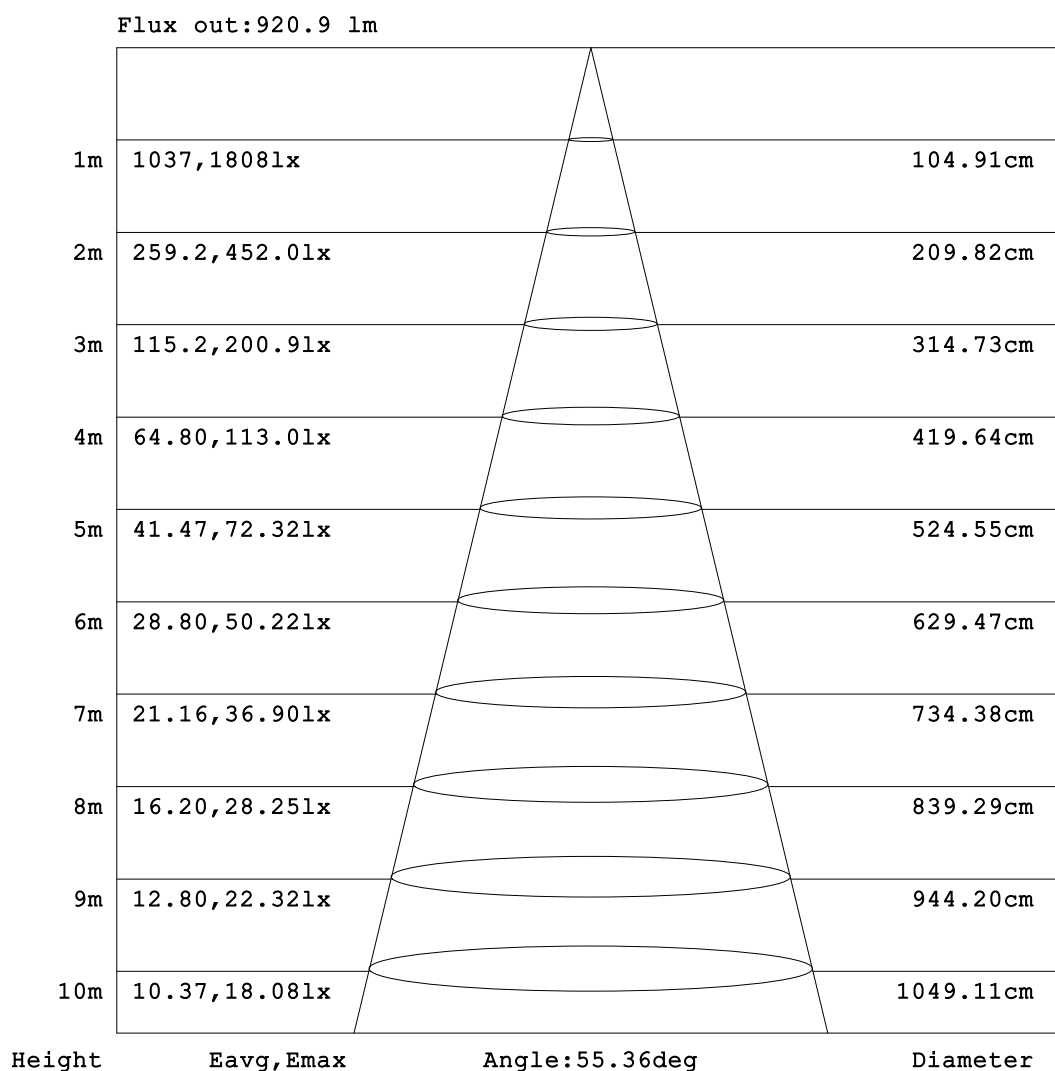


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-10-17

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:

AAI Figure

Test:U:240.4V I:0.0632A P:14.6W PF:0.9624 Freq:49.99Hz		
UTHDi:0.15% ITHDi:17.52% KDisp:0.9772		Lamp Flux:1645.74x1 lm
NAME: FUSION-MD23-AHD-018-COB-02SC 3000K RA90 60D	15W TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:



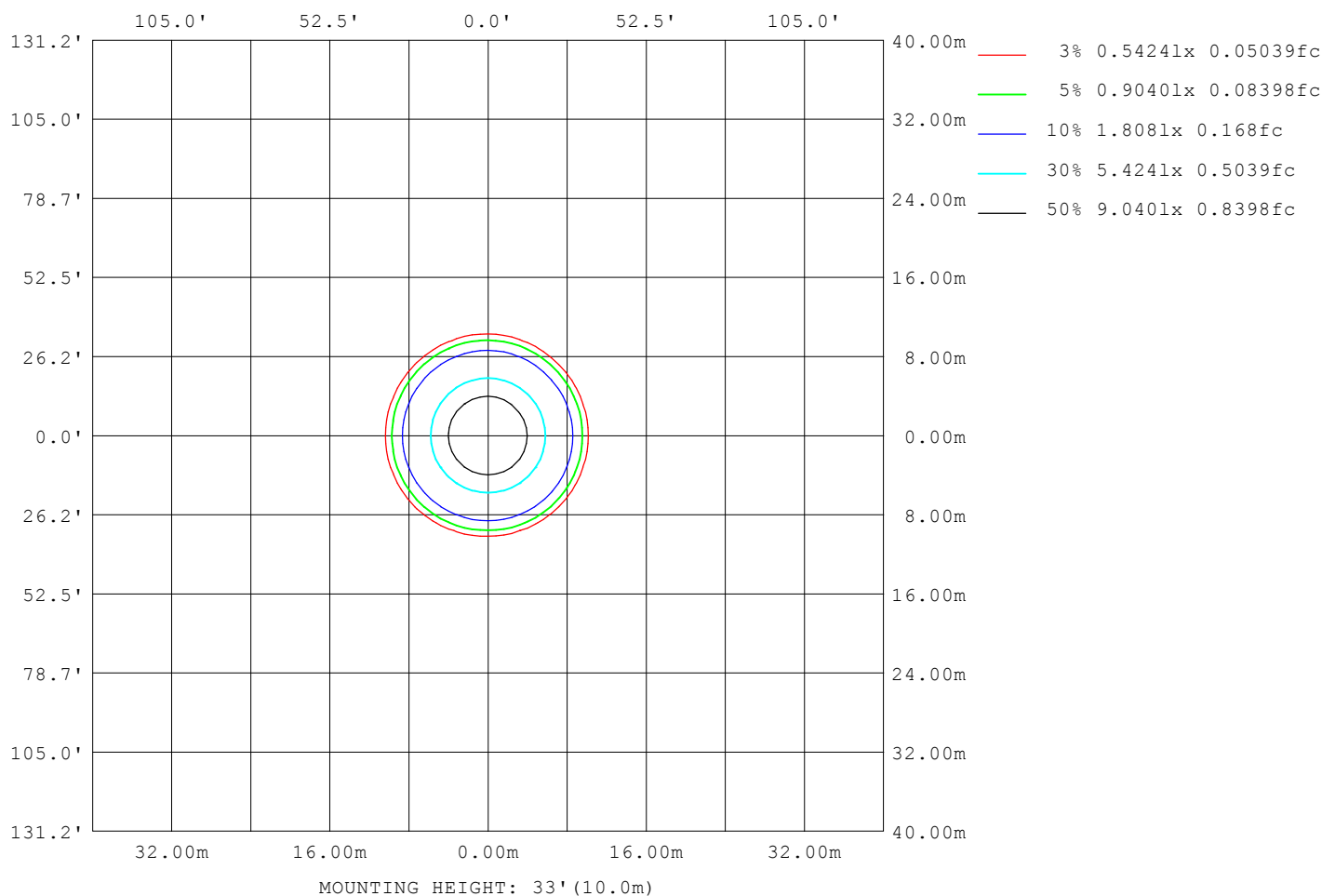
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.15% ITHDi:17.52% KDisp:0.9772		Lamp Flux:1645.74x1 lm
NAME: FUSION-MD23-AHD-018-COB-02SC 3000K RA90 60D	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:0.15% ITHDi:17.52% KDisp:0.9772		Lamp Flux:1645.74x1 lm
NAME: FUSION-MD23-AHD-018-COB-02SC 3000K RA90 60D	15WTYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

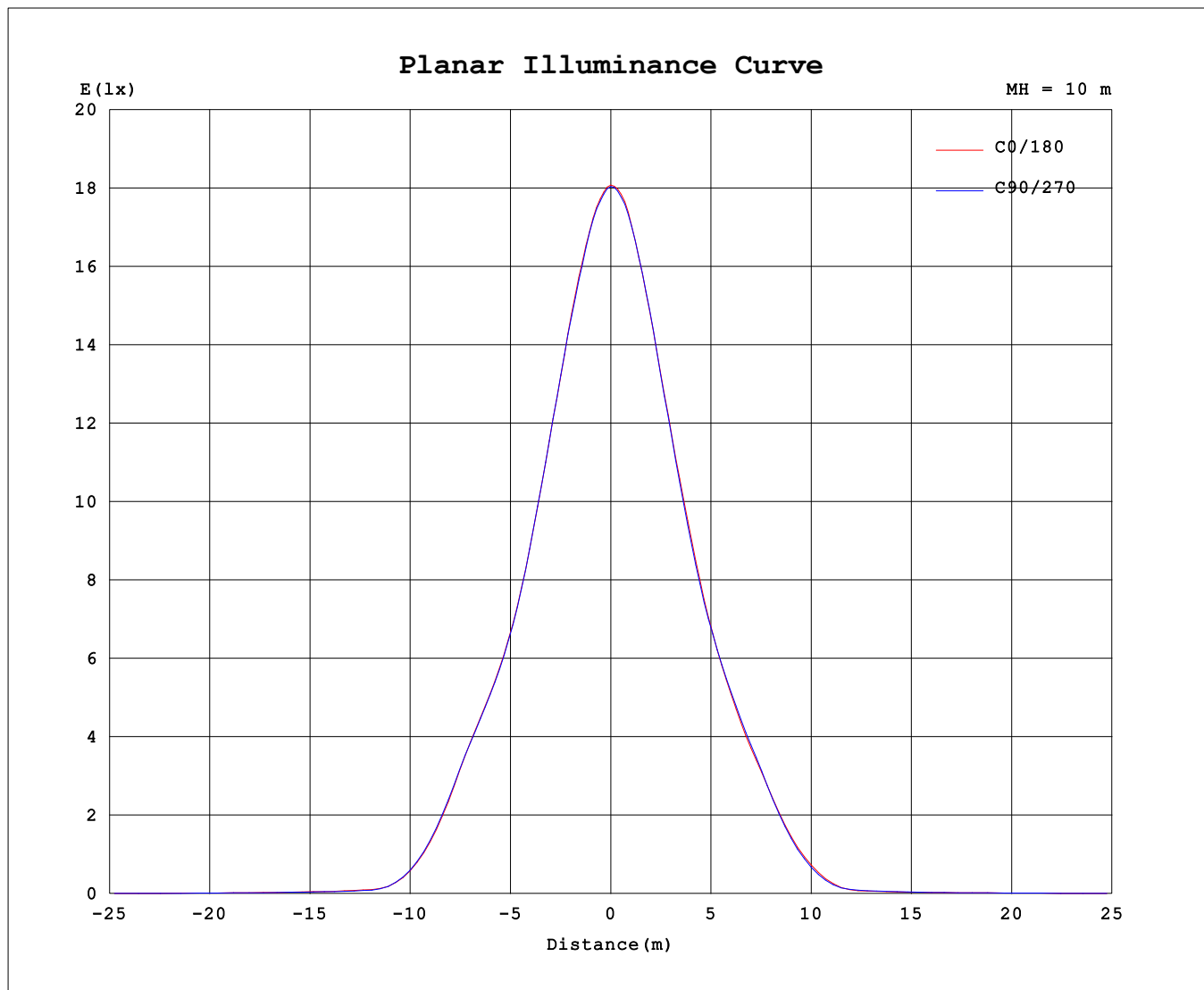
AvgL	cd/m2
L_0~180 (65) av	35642
L_0~180 (75) av	31111
L_0~180 (85) av	25803
L_90~270 (65) av	35238
L_90~270 (75) av	30038
L_90~270 (85) av	26698
L_45 (65) av	35656
L_45 (75) av	30616
L_45 (85) av	26689

Standard: GB/T 29293-2012

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:

Planar Illuminance Curve



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:

```

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	1805	1805	1805	1805	1805	1805	1805	1805
3.0	1777	1778	1775	1786	1789	1790	1785	1780
6.0	1716	1716	1717	1724	1728	1732	1730	1721
9.0	1630	1628	1624	1634	1637	1641	1641	1635
12.0	1524	1525	1525	1528	1530	1533	1535	1526
15.0	1403	1408	1406	1410	1412	1410	1409	1400
18.0	1276	1285	1280	1284	1289	1288	1284	1269
21.0	1145	1157	1148	1158	1168	1163	1156	1137
24.0	1020	1032	1019	1035	1047	1046	1036	1016
27.0	917.1	923.1	914.5	930.3	935.3	938.1	935.0	921.9
30.0	834.9	836.1	831.7	837.7	837.9	843.7	845.1	840.5
33.0	760.3	761.1	757.4	748.2	739.5	748.0	754.4	760.5
36.0	662.9	667.1	665.8	653.1	641.6	648.8	656.0	659.8
39.0	500.9	511.6	513.0	517.2	514.1	515.7	510.7	499.9
42.0	322.7	334.1	331.5	350.1	354.5	354.9	343.7	325.6
45.0	164.8	171.9	170.9	200.8	207.4	199.4	190.7	173.2
48.0	61.66	63.39	62.67	78.91	85.10	84.50	77.13	66.12
51.0	38.07	36.23	32.52	31.84	31.31	33.03	36.69	38.59
54.0	32.22	30.65	28.46	27.53	26.45	26.45	29.25	32.40
57.0	27.67	26.82	25.82	25.60	23.70	23.49	25.13	28.55
60.0	24.31	24.15	23.26	23.13	22.12	21.87	22.90	24.75
63.0	21.51	21.28	20.41	20.85	20.61	20.45	21.21	22.06
66.0	18.78	18.49	17.60	18.25	18.86	18.88	19.43	19.25
69.0	15.94	15.52	14.83	15.31	16.54	16.80	16.83	16.29
72.0	13.16	12.64	11.88	12.32	13.58	13.92	13.84	13.46
75.0	10.50	10.07	9.296	9.387	10.43	10.99	10.92	10.75
78.0	8.084	7.638	6.961	6.966	7.719	8.221	8.307	8.413
81.0	5.910	5.548	4.977	4.802	5.239	5.799	6.146	6.232
84.0	4.133	3.486	2.943	2.788	2.993	3.564	4.162	4.552
87.0	1.078	0.8571	0.6866	0.9557	1.040	1.234	1.406	1.309
90.0	0.0638	0.0610	0.0746	0.0641	0.0680	0.0639	0.0652	0.0593

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