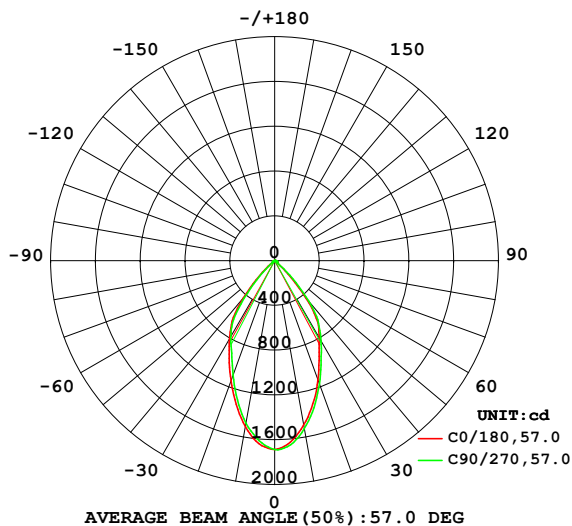


LUMINAIRE PHOTOMETRIC TEST REPORT

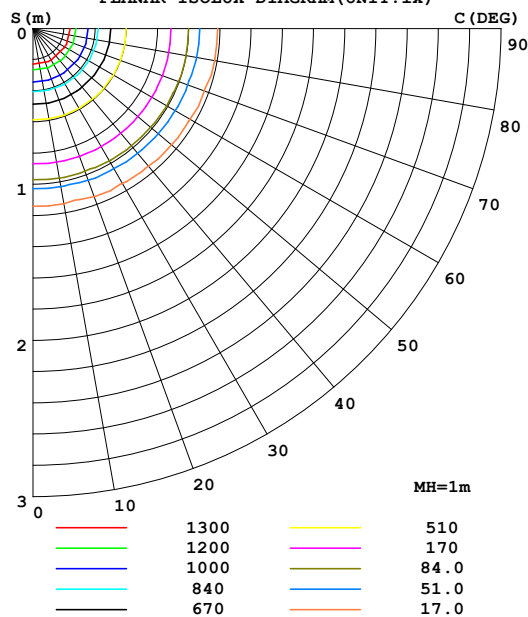
Test:U:240.4V I:0.0721A P:16.8W PF:0.9667 Freq:49.99Hz		
UTHDi:0.16% ITHDi:18.40% KDisp:0.9830 Lamp Flux:1566.96x1 lm		
NAME: MD18-18-XX-02 2700K RA90 60D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 93.46 lm/W
MODEL		I _{max} (cd)	1689	S/MH (C0/180)		0.82
NOMINAL POWER(W)	18	LOR (%)	100.0	S/MH (C90/270)		0.78
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	1567.0	η UP,DN (C0-180)		0.0,51.5
NOMINAL FLUX(lm)	1566.96	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,48.5
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: 2024-09-05

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	1494	1517	1526	1524	1506	1487	1477	1479	0- 10	151.5	151.5	9.67,9.67
20	1134	1159	1171	1169	1143	1107	1088	1101	10- 20	369.5	521.0	33.2,33.2
30	797.6	818.5	830.0	826.5	809.7	789.0	784.5	782.4	20- 30	438.4	959.5	61.2,61.2
40	434.7	468.7	477.1	471.2	439.0	398.0	380.8	396.7	30- 40	402.3	1362	86.9,86.9
50	34.99	41.32	54.55	49.35	37.39	34.95	35.87	34.88	40- 50	151.7	1514	96.6,96.6
60	21.71	22.00	21.48	20.40	19.89	20.30	21.52	21.16	50- 60	23.44	1537	98.1,98.1
70	12.94	13.15	14.23	15.18	14.70	13.49	12.99	12.79	60- 70	17.42	1554	99.2,99.2
80	5.299	5.231	5.612	6.108	5.959	5.392	5.315	5.229	70- 80	9.913	1564	99.8,99.8
90	0.0648	0.0536	0.0665	0.0521	0.0577	0.0549	0.0659	0.0634	80- 90	2.657	1567	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): 1473.8 lm

%lum = 94.1%

%lamp = 94.1%

Conical surface Flux(120deg): 1537 lm

%lum = 98.1%

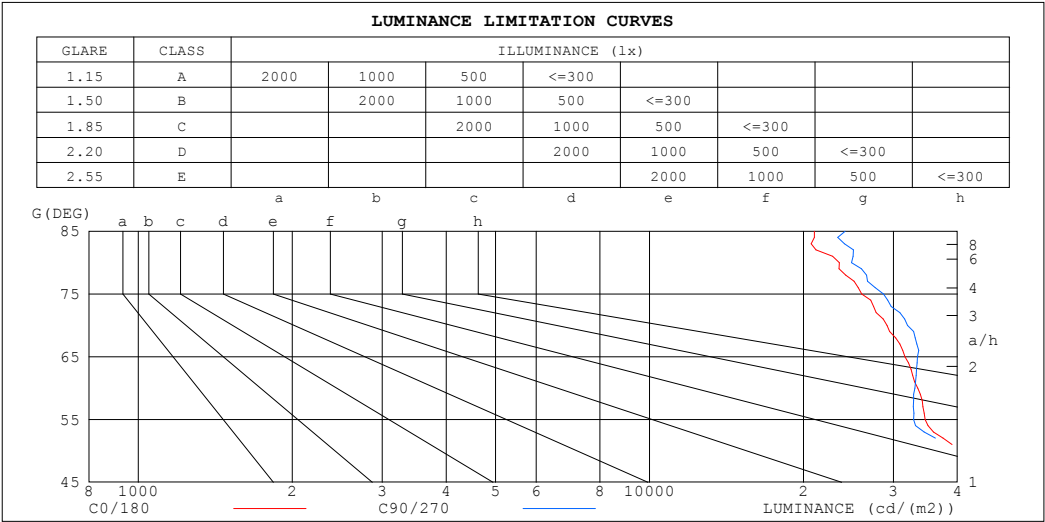
%lamp = 98.1%

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-05

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:0.0721A P:16.8W PF:0.9667 Freq:49.99Hz		
UTHDi:0.16% ITHDi:18.40% KDisp:0.9830 Lamp Flux:1566.96x1 lm		
NAME: MD18-18-XX-02 2700K RA90 60D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	21005	24119
80	23517	24849
75	26020	28678
70	29152	31984
65	31610	33434
60	33454	33033
55	34615	32839
50	41952	65250
45	188315	251650

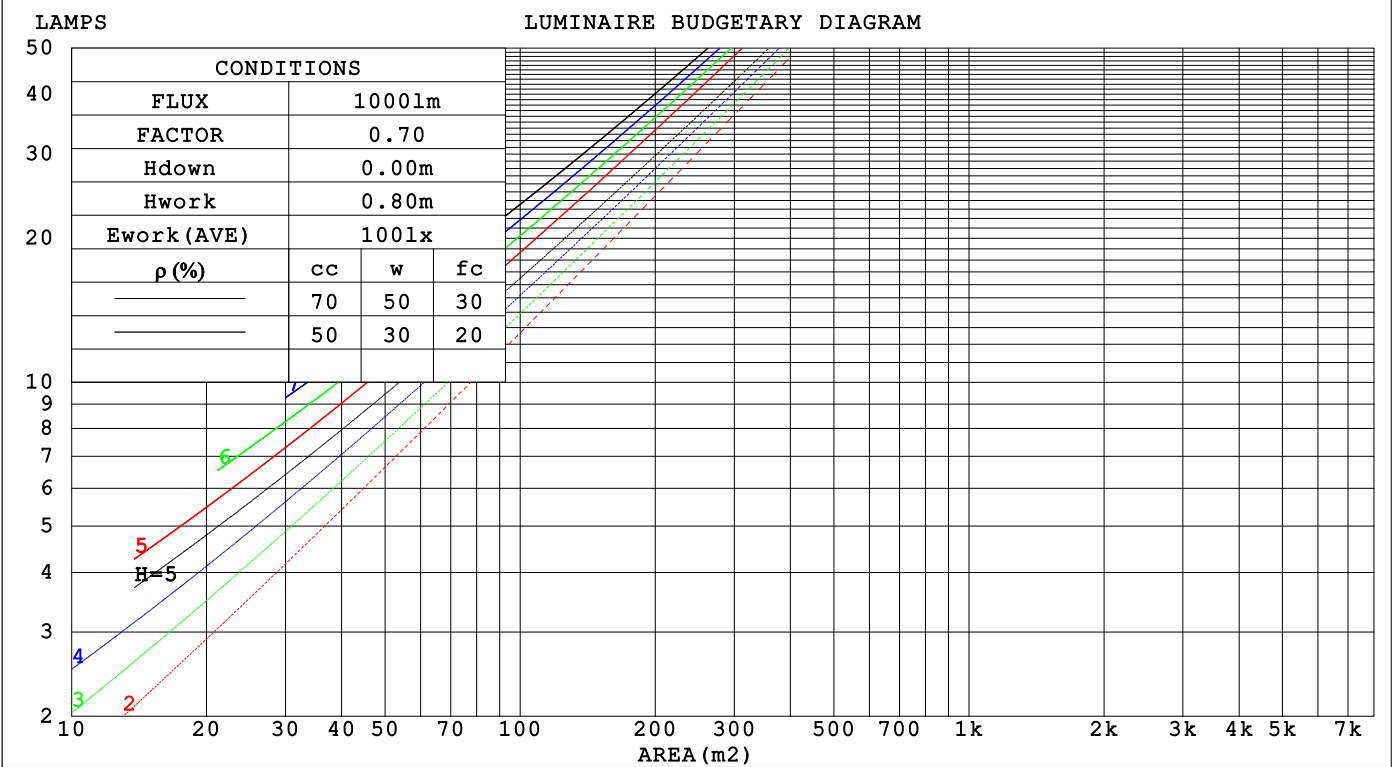
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-05

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:0.0721A P:16.8W PF:0.9667 Freq:49.99Hz		
UTHDi:0.16% ITHDi:18.40% KDisp:0.9830		
Lamp Flux:1566.96x1 lm		
NAME: MD18-18-XX-02 2700K RA90 60D	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	1.10	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	.82	.88	.84	.81	.85	.82	.80	.78
4.0	.87	.81	.77	.86	.81	.76	.84	.79	.75	.82	.78	.75	.80	.77	.74	.72
5.0	.81	.75	.70	.80	.74	.70	.78	.73	.69	.77	.72	.69	.75	.71	.68	.67
6.0	.76	.69	.65	.75	.69	.65	.73	.68	.64	.72	.67	.64	.71	.66	.63	.62
7.0	.71	.64	.60	.70	.64	.60	.69	.63	.59	.68	.63	.59	.66	.62	.59	.57
8.0	.66	.60	.56	.66	.60	.56	.65	.59	.55	.64	.59	.55	.63	.58	.55	.53
9.0	.62	.56	.52	.62	.56	.52	.61	.55	.52	.60	.55	.51	.59	.55	.51	.50
10.0	.59	.53	.49	.58	.52	.48	.57	.52	.48	.57	.52	.48	.56	.51	.48	.47



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-05

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:0.0721A P:16.8W PF:0.9667 Freq:49.99Hz			UTHDi:0.16% ITHDi:18.40% KDisp:0.9830			Lamp Flux:1566.96x1 lm		
NAME: MD18-18-XX-02 2700K RA90 60D			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						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	.089	.028	.149	.084	.027	
3.0	.175	.093	.028	.171	.091	.027	.161	.087	.027	.153	.084	.026	.145	.080	.025	
4.0	.167	.087	.026	.163	.085	.025	.155	.082	.025	.147	.079	.024	.140	.076	.023	
5.0	.159	.081	.023	.155	.080	.023	.148	.077	.023	.142	.075	.022	.136	.072	.022	
6.0	.151	.076	.022	.148	.075	.022	.142	.073	.021	.136	.071	.021	.131	.069	.020	
7.0	.144	.071	.020	.142	.071	.020	.136	.069	.020	.131	.067	.020	.126	.066	.019	
8.0	.138	.067	.019	.135	.067	.019	.130	.065	.019	.126	.064	.018	.122	.062	.018	
9.0	.132	.064	.018	.130	.063	.018	.125	.062	.018	.121	.061	.017	.117	.059	.017	
10.0	.126	.061	.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	.026	.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	.100	.056	.026	.086	.048	.023	.060	.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:2024-09-05

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:0.0721A P:16.8W PF:0.9667 Freq:49.99Hz										
UTHDi:0.16% ITHDi:18.40% KDisp:0.9830					Lamp Flux:1566.96x1 lm					
NAME: MD18-18-XX-02 2700K RA90 60D					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	27.5	28.5	27.7	28.7	28.8	27.8	28.8	28.0	29.0	29.2
3H	27.4	28.3	27.6	28.5	28.7	27.7	28.7	28.0	28.9	29.1
4H	27.3	28.2	27.6	28.5	28.7	27.7	28.6	28.0	28.8	29.0
6H	27.3	28.1	27.6	28.4	28.6	27.6	28.5	27.9	28.7	29.0
8H	27.3	28.1	27.6	28.3	28.6	27.6	28.4	27.9	28.7	28.9
12H	27.2	28.0	27.6	28.3	28.6	27.6	28.3	27.9	28.6	28.9
4H 2H	27.2	28.1	27.5	28.4	28.6	27.6	28.5	27.9	28.7	28.9
3H	27.2	28.0	27.5	28.2	28.5	27.5	28.3	27.9	28.6	28.9
4H	27.2	27.9	27.5	28.2	28.5	27.5	28.2	27.9	28.5	28.8
6H	27.2	27.8	27.6	28.1	28.5	27.5	28.1	27.9	28.5	28.8
8H	27.2	27.7	27.6	28.1	28.4	27.5	28.1	27.9	28.4	28.8
12H	27.1	27.6	27.5	28.0	28.4	27.5	28.0	27.9	28.4	28.8
8H 4H	27.1	27.7	27.5	28.0	28.4	27.4	28.0	27.8	28.3	28.7
6H	27.1	27.6	27.5	28.0	28.4	27.4	27.9	27.9	28.3	28.7
8H	27.1	27.5	27.5	27.9	28.4	27.4	27.8	27.9	28.3	28.7
12H	27.1	27.4	27.6	27.9	28.4	27.4	27.8	27.9	28.2	28.7
12H 4H	27.1	27.6	27.5	27.9	28.3	27.4	27.9	27.8	28.3	28.7
6H	27.1	27.5	27.5	27.9	28.3	27.4	27.8	27.8	28.2	28.7
8H	27.1	27.4	27.5	27.9	28.3	27.4	27.8	27.9	28.2	28.7
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.4 / - 6.9					+ 2.4 / - 6.9				
1.5H	+ 4.6 / - 6.9					+ 4.5 / - 7.2				
2.0H	+ 5.6 / - 2.1					+ 6.5 / - 2.9				

CIE Pub.117, 1567 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 1.6$)
Area: 0.0013 m²

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-05

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:0.0721A P:16.8W PF:0.9667 Freq:49.99Hz		
UTHDi:0.16% ITHDi:18.40% KDisp:0.9830 Lamp Flux:1566.96x1 lm		
NAME: MD18-18-XX-02 2700K RA90 60D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

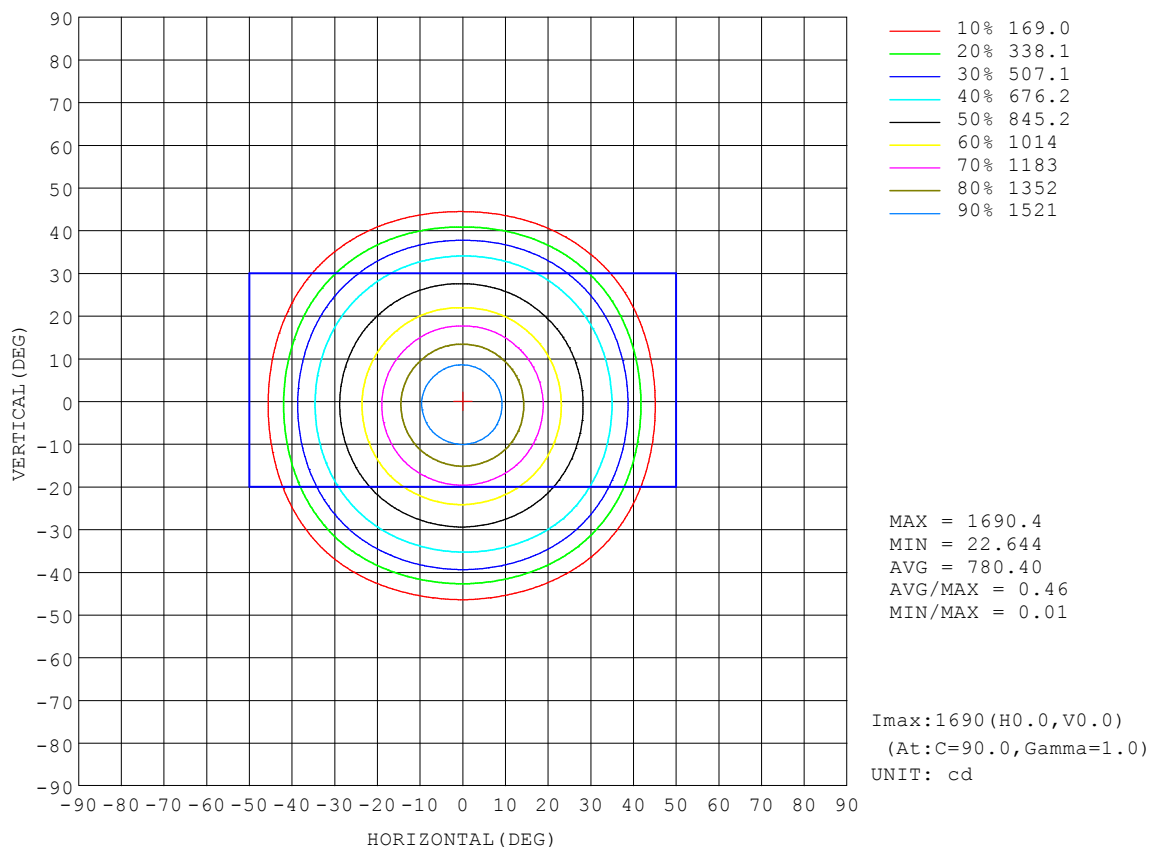
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	83	76	72	83	76	72	82	76	72	68
0.80	91	85	81	91	84	81	89	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	107	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: 2024-09-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 γ 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:0.0721A P:16.8W PF:0.9667 Freq:49.99Hz		
UTHDi:0.16% ITHDi:18.40% KDisp:0.9830 Lamp Flux:1566.96x1 lm		
NAME: MD18-18-XX-02 2700K RA90 60D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

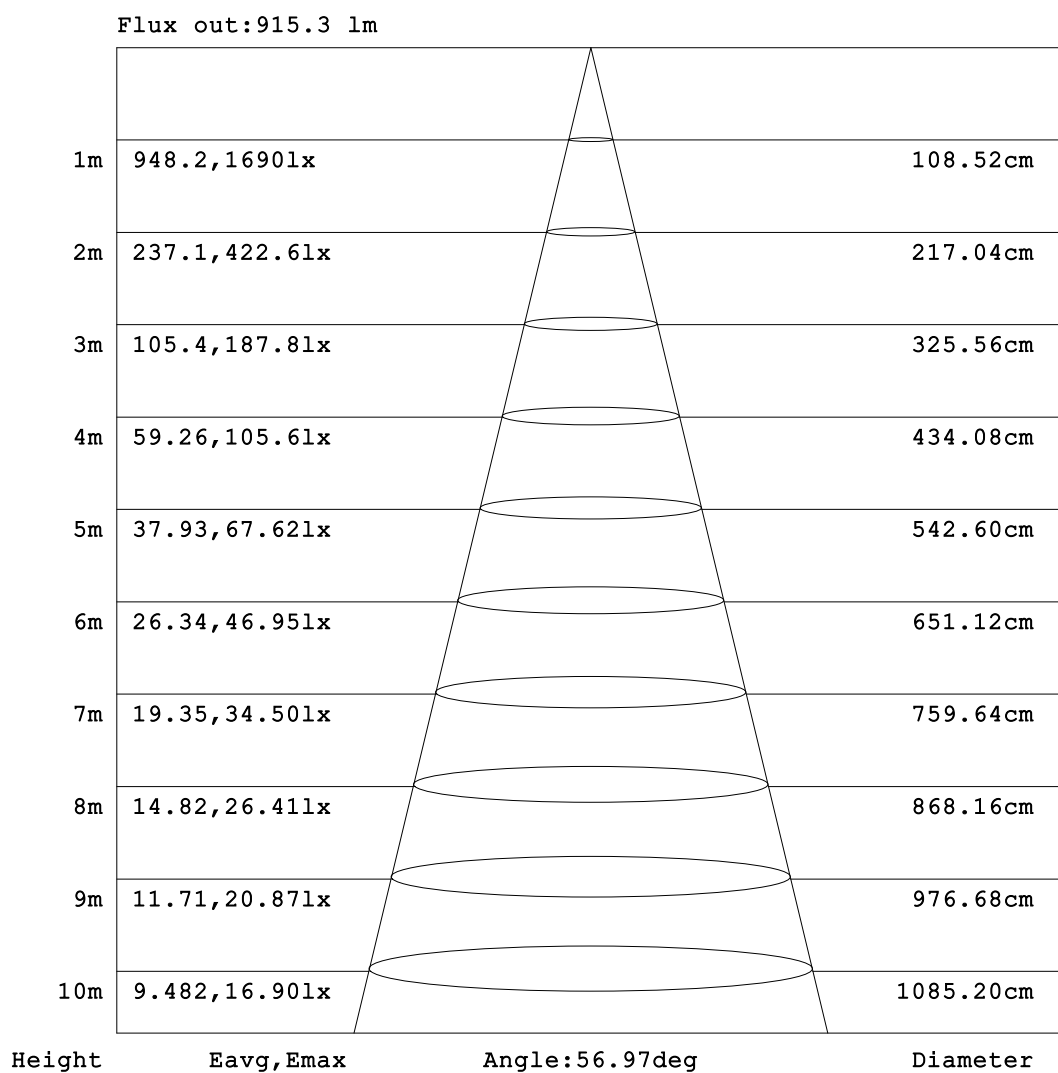


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-05

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:0.0721A P:16.8W PF:0.9667 Freq:49.99Hz		
UTHDi:0.16% ITHDi:18.40% KDisp:0.9830 Lamp Flux:1566.96x1 lm		
NAME: MD18-18-XX-02 2700K RA90 60D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:



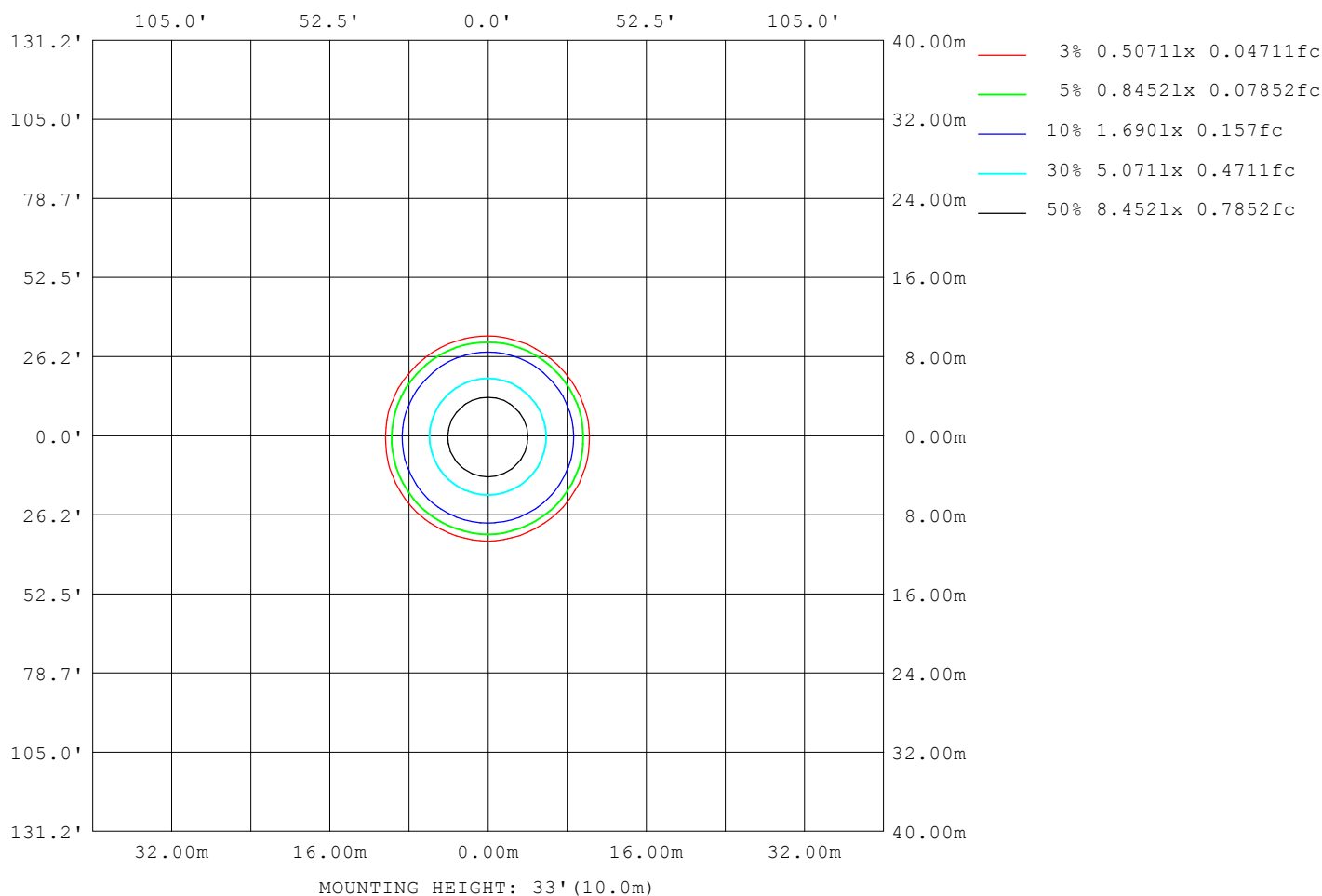
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-09-05

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:0.0721A P:16.8W PF:0.9667 Freq:49.99Hz		
UTHDi:0.16% ITHDi:18.40% KDisp:0.9830 Lamp Flux:1566.96x1 lm		
NAME: MD18-18-XX-02 2700K RA90 60D	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:2024-09-05

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:0.0721A P:16.8W PF:0.9667 Freq:49.99Hz UTHDi:0.16% ITHDi:18.40% KDisp:0.9830 Lamp Flux:1566.96x1 lm		
NAME: MD18-18-XX-02 2700K RA90 60D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

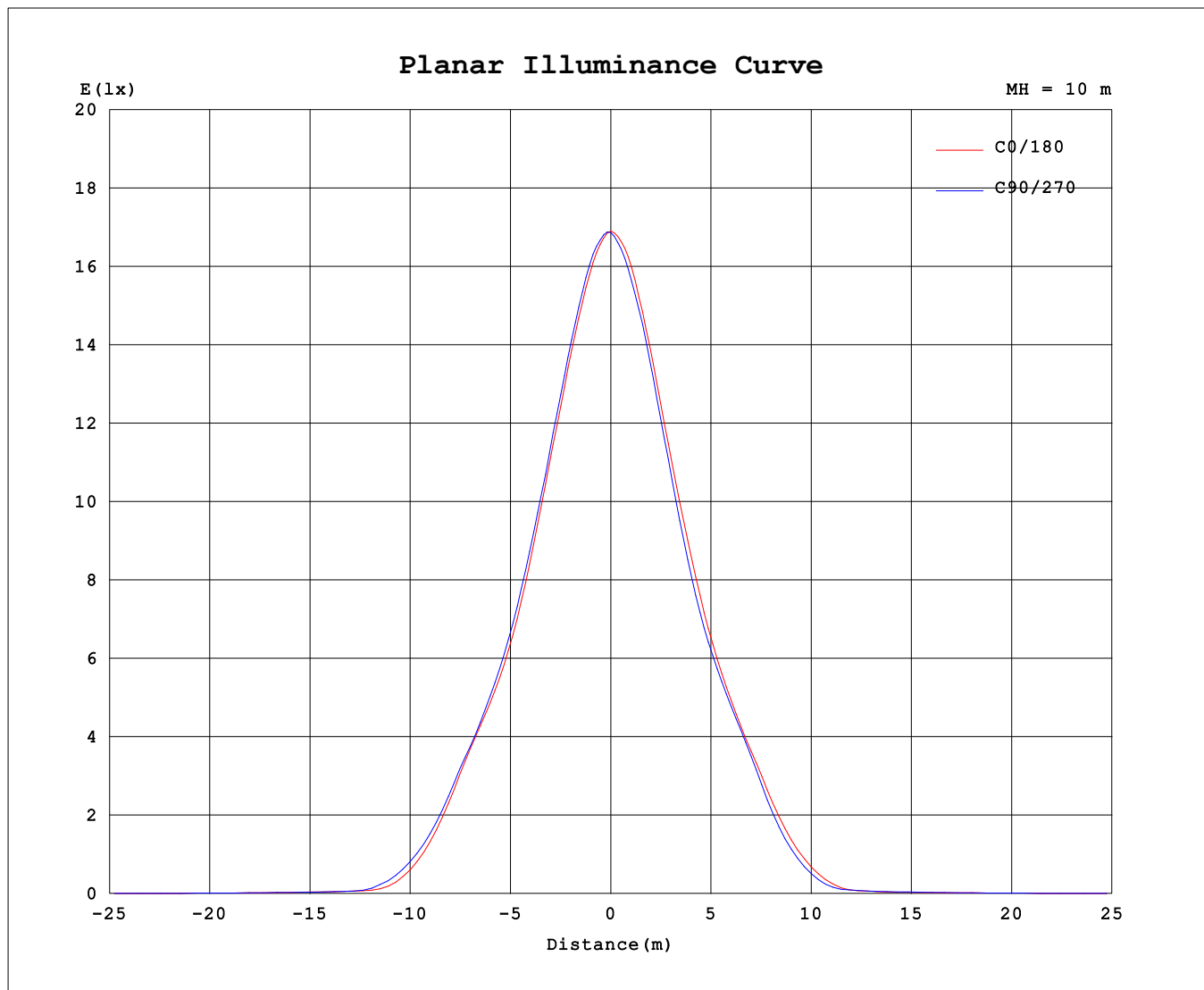
AvgL	cd/m2
L_0~180 (65) av	32139
L_0~180 (75) av	27994
L_0~180 (85) av	23550
L_90~270 (65) av	32603
L_90~270 (75) av	27394
L_90~270 (85) av	20957
L_45 (65) av	32171
L_45 (75) av	27601
L_45 (85) av	21884

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-05

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



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C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-09-05

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:

```

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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	1687	1687	1687	1687	1687	1687	1687	1687
3.0	1660	1670	1675	1675	1668	1657	1652	1653
6.0	1604	1621	1632	1635	1620	1598	1588	1592
9.0	1523	1545	1554	1555	1538	1516	1508	1510
12.0	1430	1457	1463	1461	1440	1415	1404	1410
15.0	1324	1352	1361	1356	1329	1302	1289	1299
18.0	1213	1239	1245	1243	1218	1184	1169	1182
21.0	1095	1122	1133	1131	1106	1069	1048	1061
24.0	978.7	1003	1022	1023	997.9	962.4	941.4	949.9
27.0	877.7	901.7	919.3	916.6	898.1	871.7	858.3	857.2
30.0	797.6	818.5	830.0	826.5	809.7	789.0	784.5	782.4
33.0	726.9	744.6	743.4	738.8	723.0	706.2	707.6	713.2
36.0	636.8	662.5	656.6	645.4	628.3	599.2	596.0	609.3
39.0	491.7	523.3	529.1	520.8	489.2	449.5	435.9	453.6
42.0	323.7	358.2	374.8	366.8	335.2	295.2	278.3	285.4
45.0	172.8	208.6	231.4	222.6	193.4	161.5	145.5	142.5
48.0	65.22	89.05	111.7	102.5	80.82	62.69	53.83	52.54
51.0	31.91	32.05	37.08	34.58	31.00	31.76	32.55	31.98
54.0	26.72	26.83	25.32	24.68	24.54	25.80	27.63	27.06
57.0	24.22	24.44	23.24	21.82	21.39	22.29	23.85	23.72
60.0	21.71	22.00	21.48	20.40	19.89	20.30	21.52	21.16
63.0	19.14	19.36	19.64	19.21	18.68	18.74	19.18	18.81
66.0	16.52	16.75	17.78	17.91	17.35	16.88	16.67	16.25
69.0	13.71	14.11	15.32	15.99	15.44	14.39	13.86	13.58
72.0	11.13	11.44	12.41	13.51	12.84	11.55	11.18	11.02
75.0	8.739	9.047	9.653	10.63	10.10	8.877	8.781	8.588
78.0	6.528	6.823	7.185	7.929	7.594	6.563	6.535	6.416
81.0	4.629	4.801	5.087	5.485	5.408	4.618	4.499	4.414
84.0	2.850	2.859	3.172	3.389	3.361	3.182	3.187	2.981
87.0	0.6811	1.284	1.841	1.820	1.232	0.6123	0.1462	0.3503
90.0	0.0648	0.0536	0.0665	0.0521	0.0577	0.0549	0.0659	0.0634

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