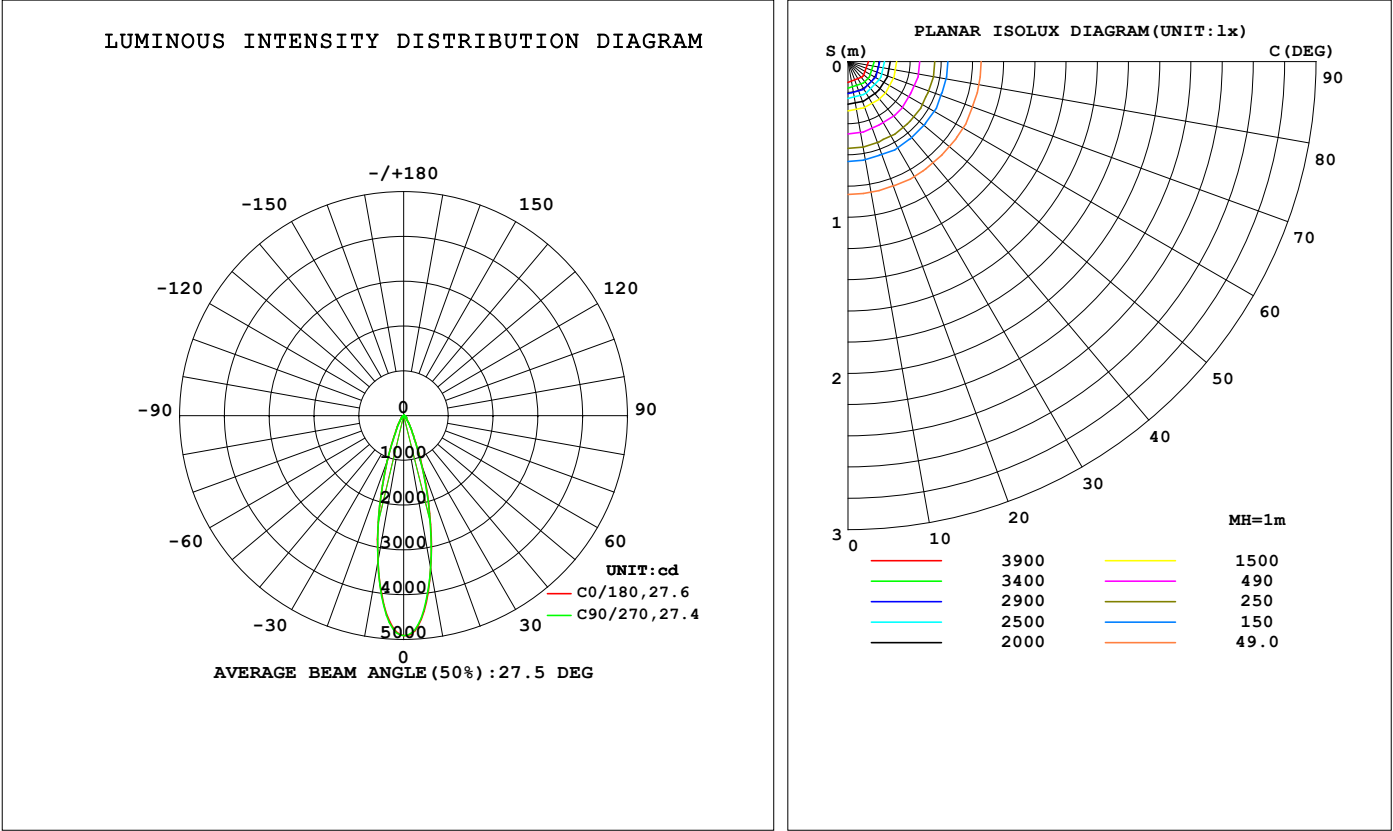


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.4V I:0.0807A P:18.4W PF:0.9466 Freq:49.99Hz		
UTHDi:0.17% ITHDi:7.90% KDisp:0.9496 Lamp Flux:1467.89x1 lm		
NAME: TR11-20-TW-02+白色防眩环 6500K RA90 24D 18W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 70mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 79.92 lm/W
MODEL		Imax (cd)	4914	S/MH(C0/180)	0.45	
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	0.45	
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	1467.9	η UP,DN(C0-180)	0.0,51.8	
NOMINAL FLUX(lm)	1467.89	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,48.2	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	240.37	η down (%)	100.0	CIBSE SHR MAX	0.30	



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-04

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	3489	3506	3463	3423	3318	3275	3325	3420	0- 10	393.4	393.4	26.8,26.8
20	1221	1219	1183	1159	1071	1032	1072	1129	10- 20	588.2	981.7	66.9,66.9
30	321.2	324.3	321.2	310.4	286.3	265.9	272.9	290.6	20- 30	267.4	1249	85.1,85.1
40	111.1	114.5	112.5	109.4	102.2	95.96	97.83	103.5	30- 40	113.1	1362	92.8,92.8
50	49.81	52.73	50.54	50.44	47.06	45.68	45.26	49.87	40- 50	54.97	1417	96.5,96.5
60	25.63	26.60	26.05	25.93	24.04	23.58	23.40	24.82	50- 60	31.74	1449	98.7,98.7
70	8.137	8.340	7.756	7.485	6.788	6.583	7.074	7.681	60- 70	15.80	1465	99.8,99.8
80	1.173	1.096	1.058	0.9985	0.9753	0.9876	1.080	1.121	70- 80	2.786	1468	100,100
90	0.0466	0.0260	0.0530	0.0318	0.0389	0.0328	0.0434	0.0305	80- 90	0.3792	1468	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): 1393.8 lm

%lum = 95.0%

%lamp = 95.0%

Conical surface Flux(120deg): 1448.9 lm

%lum = 98.7%

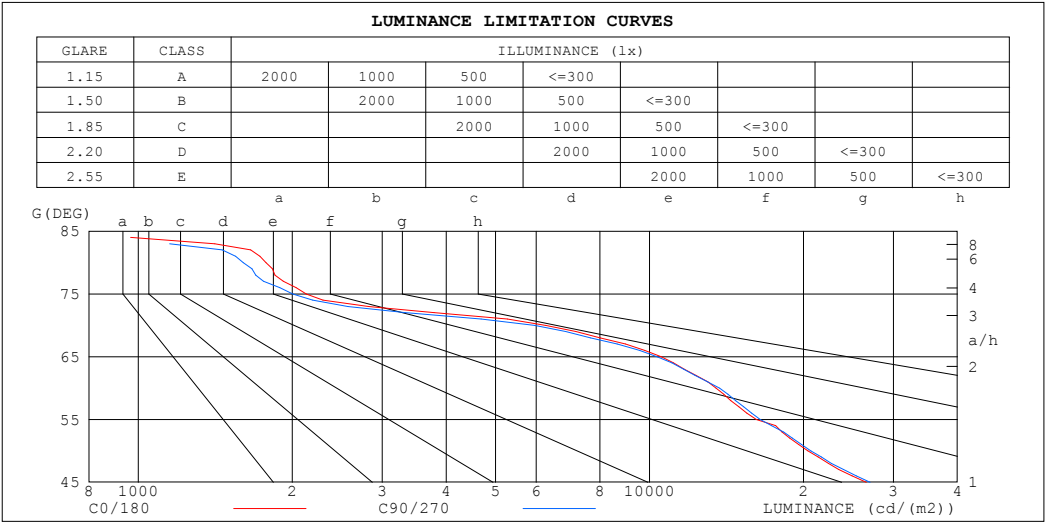
%lamp = 98.7%

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-04

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:0.0807A P:18.4W PF:0.9466 Freq:49.99Hz		
UTHDi:0.17% ITHDi:7.90% KDisp:0.9496 Lamp Flux:1467.89x1 lm		
NAME: TR11-20-TW-02+白色防眩环 6500K RA90 24D 18W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 70mm	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	582	524
80	1778	1603
75	2132	2006
70	6265	5966
65	10550	10347
60	13500	13708
55	16192	16466
50	20403	20686
45	26544	27008

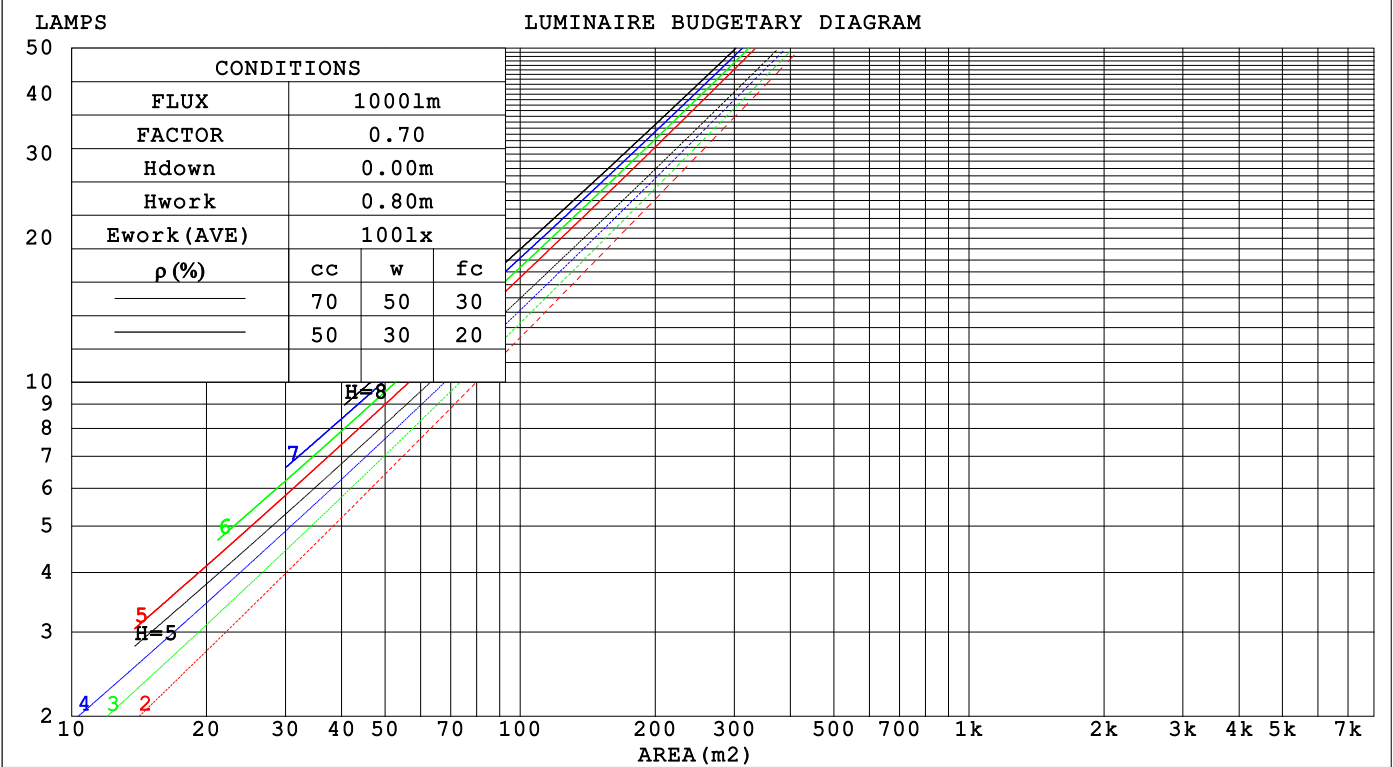
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-04

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:0.0807A P:18.4W PF:0.9466 Freq:49.99Hz		
UTHDi:0.17% ITHDi:7.90% KDisp:0.9496 Lamp Flux:1467.89x1 lm		
NAME: TR11-20-TW-02+白色防眩环 6500K RA90 24D 18W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 70mm	Shielding Angle:

pcc	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			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	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97	.95
2.0	1.06	1.02	.99	1.04	1.01	.98	1.01	.98	.96	.98	.96	.94	.95	.93	.92	.90
3.0	.00	.96	.92	.99	.95	.92	.96	.93	.90	.94	.91	.89	.92	.89	.87	.86
4.0	.95	.90	.87	.94	.90	.86	.92	.88	.85	.90	.87	.84	.88	.86	.83	.82
5.0	.91	.86	.82	.90	.85	.82	.88	.84	.81	.86	.83	.80	.85	.82	.80	.79
6.0	.87	.82	.78	.86	.81	.78	.85	.80	.77	.83	.80	.77	.82	.79	.76	.75
7.0	.83	.78	.75	.82	.78	.75	.81	.77	.74	.80	.77	.74	.79	.76	.73	.72
8.0	.80	.75	.72	.79	.75	.72	.78	.74	.71	.77	.74	.71	.77	.73	.71	.70
9.0	.77	.72	.69	.77	.72	.69	.76	.72	.69	.75	.71	.68	.74	.71	.68	.67
10.0	.74	.70	.66	.74	.69	.66	.73	.69	.66	.72	.69	.66	.72	.68	.66	.65



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-04

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:0.0807A P:18.4W PF:0.9466 Freq:49.99Hz		
UTHDi:0.17% ITHDi:7.90% KDisp:0.9496 Lamp Flux:1467.89x1 lm		
NAME: TR11-20-TW-02+白色防眩环 6500K RA90 24D 18W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 70mm	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	.156	.089	.028	.149	.085	.027	.137	.078	.025	.125	.072	.023	.115	.067	.021		
2.0	.147	.081	.025	.141	.078	.024	.131	.073	.023	.121	.068	.021	.113	.064	.020		
3.0	.138	.074	.022	.134	.072	.022	.125	.068	.021	.117	.064	.020	.109	.060	.019		
4.0	.130	.068	.020	.126	.066	.020	.119	.063	.019	.112	.060	.018	.105	.057	.017		
5.0	.123	.063	.018	.120	.061	.018	.113	.059	.017	.107	.057	.017	.102	.054	.016		
6.0	.116	.058	.017	.113	.057	.017	.108	.055	.016	.103	.053	.016	.098	.052	.015		
7.0	.111	.055	.015	.108	.054	.015	.103	.052	.015	.099	.051	.015	.094	.049	.014		
8.0	.105	.051	.014	.103	.051	.014	.099	.049	.014	.095	.048	.014	.091	.047	.014		
9.0	.101	.049	.014	.099	.048	.013	.095	.047	.013	.091	.046	.013	.088	.045	.013		
10.0	.096	.046	.013	.094	.046	.013	.091	.045	.013	.088	.044	.012	.085	.043	.012		

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	.170	.157	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016		
2.0	.153	.133	.116	.131	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013		
3.0	.139	.113	.093	.119	.098	.081	.082	.068	.057	.047	.040	.033	.015	.013	.011		
4.0	.128	.098	.076	.109	.085	.066	.075	.059	.047	.044	.035	.028	.014	.011	.009		
5.0	.118	.086	.063	.101	.075	.055	.070	.052	.039	.040	.031	.023	.013	.010	.008		
6.0	.109	.077	.053	.094	.066	.046	.065	.046	.033	.038	.027	.019	.012	.009	.006		
7.0	.102	.069	.045	.088	.060	.039	.061	.042	.028	.035	.025	.017	.011	.008	.005		
8.0	.096	.062	.039	.082	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005		
9.0	.090	.057	.034	.078	.049	.030	.054	.035	.021	.031	.020	.013	.010	.007	.004		
10.0	.085	.052	.030	.074	.045	.026	.051	.032	.018	.030	.019	.011	.010	.006	.004		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-04

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:0.0807A P:18.4W PF:0.9466 Freq:49.99Hz UTHDi:0.17% ITHDi:7.90% KDisp:0.9496 Lamp Flux:1467.89x1 lm											
NAME: TR11-20-TW-02+白色防眩环 6500K RA90 24D 18W						TYPE:		WEIGHT:			
SPEC.:						DIM.:		SERIAL No.:			
MFR.: Norming lighting						SUR.: 70mm		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	2H	17.6	18.4	17.8	18.5	18.7	17.6	18.4	17.8	18.6	18.7
	3H	17.8	18.5	18.0	18.7	18.9	17.8	18.5	18.1	18.7	18.9
	4H	17.7	18.4	18.0	18.6	18.9	17.8	18.4	18.0	18.6	18.9
	6H	17.7	18.3	18.0	18.5	18.8	17.7	18.3	18.0	18.6	18.8
	8H	17.6	18.2	17.9	18.5	18.8	17.6	18.3	17.9	18.5	18.8
	12H	17.6	18.2	17.9	18.4	18.7	17.6	18.2	17.9	18.5	18.7
4H	2H	17.7	18.4	18.0	18.6	18.8	17.7	18.4	18.0	18.6	18.9
	3H	17.9	18.5	18.3	18.8	19.1	18.0	18.6	18.3	18.8	19.1
	4H	17.9	18.4	18.2	18.7	19.0	17.9	18.4	18.2	18.7	19.0
	6H	17.8	18.3	18.2	18.6	19.0	17.8	18.3	18.2	18.6	19.0
	8H	17.8	18.2	18.1	18.6	18.9	17.8	18.2	18.1	18.6	18.9
	12H	17.7	18.1	18.1	18.5	18.9	17.7	18.1	18.1	18.5	18.9
8H	4H	17.8	18.2	18.1	18.6	18.9	17.8	18.2	18.2	18.6	18.9
	6H	17.7	18.0	18.1	18.4	18.8	17.7	18.1	18.1	18.4	18.9
	8H	17.6	18.0	18.1	18.4	18.8	17.6	18.0	18.1	18.4	18.8
	12H	17.6	17.9	18.0	18.3	18.8	17.6	17.9	18.0	18.3	18.8
12H	4H	17.7	18.1	18.1	18.5	18.9	17.7	18.1	18.1	18.5	18.9
	6H	17.6	17.9	18.1	18.4	18.8	17.6	18.0	18.1	18.4	18.8
	8H	17.6	17.9	18.0	18.3	18.8	17.6	17.9	18.0	18.3	18.8
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 1.4 / - 2.0					+ 1.4 / - 2.0				
1.5H		+ 2.1 / - 1.3					+ 2.1 / - 1.3				
2.0H		+ 1.9 / - 1.5					+ 1.9 / - 1.5				

CIE Pub.117, 1468 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 1.3$)
Area: 0.0038 m²

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-04

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:0.0807A P:18.4W PF:0.9466 Freq:49.99Hz		
UTHDi:0.17% ITHDi:7.90% KDisp:0.9496 Lamp Flux:1467.89x1 lm		
NAME: TR11-20-TW-02+白色防眩环 6500K RA90 24D 18W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 70mm	Shielding Angle:

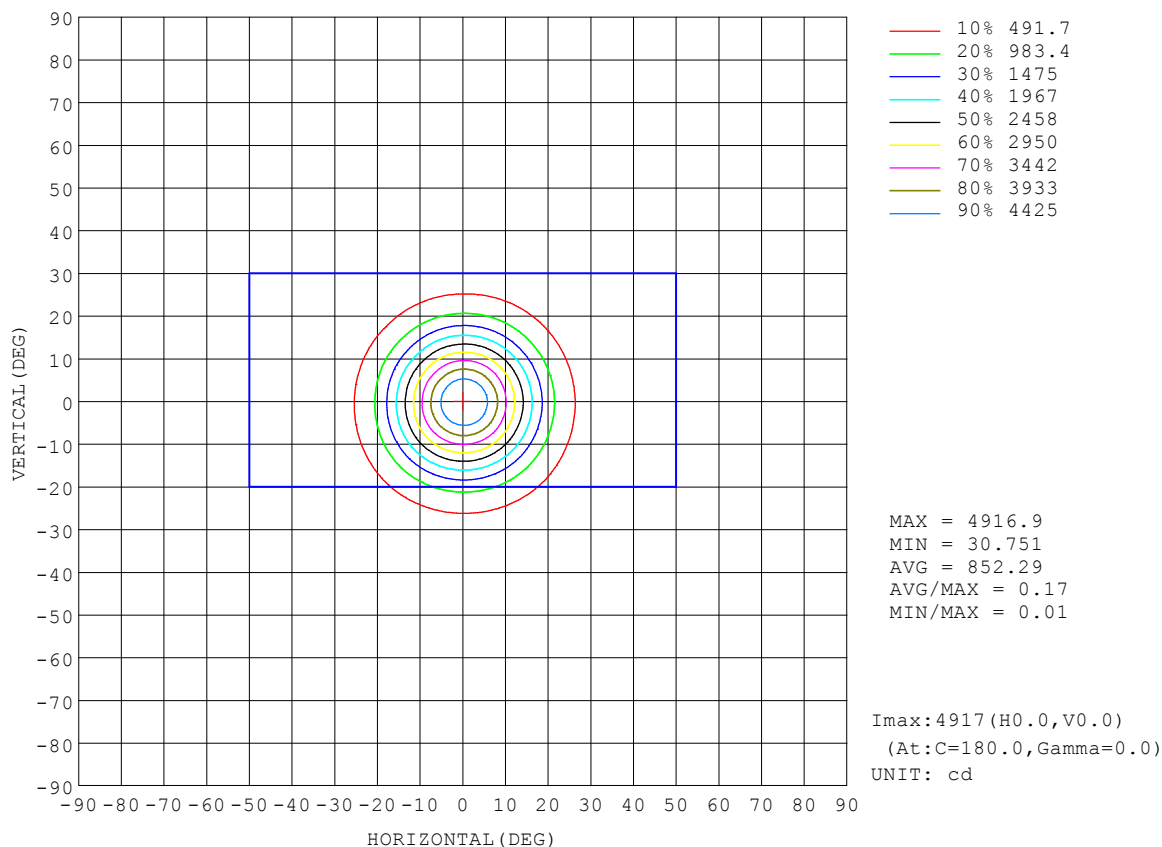
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	86	80	77	86	80	77	73
0.80	94	89	85	94	88	85	93	88	84	81
1.00	99	93	90	98	93	89	97	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	98	104	100	97	102	99	96	91
2.00	108	104	101	107	103	100	104	101	99	94
2.50	110	106	103	109	105	102	105	103	101	95
3.00	112	108	106	110	107	104	107	104	102	96
4.00	114	111	109	112	109	107	108	106	105	98
5.00	115	113	111	113	111	109	109	108	106	99
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: 2024-09-04

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:0.0807A P:18.4W PF:0.9466 Freq:49.99Hz UTHDi:0.17% ITHDi:7.90% KDisp:0.9496 Lamp Flux:1467.89x1 lm		
NAME: TR11-20-TW-02+白色防眩环 6500K RA90 24D 18W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 70mm	Shielding Angle:

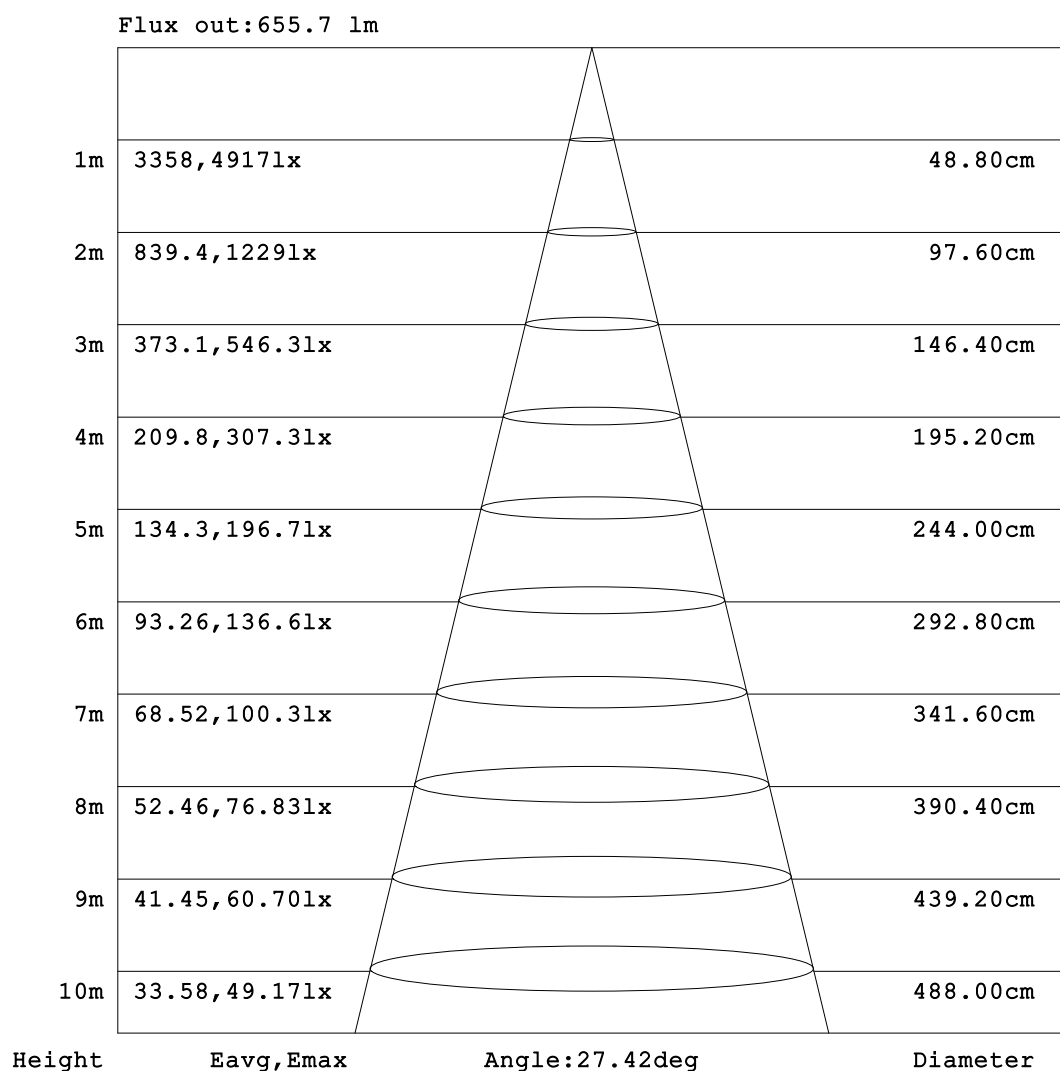


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-04

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:0.0807A P:18.4W PF:0.9466 Freq:49.99Hz UTHDi:0.17% ITHDi:7.90% KDisp:0.9496 Lamp Flux:1467.89x1 lm		
NAME: TR11-20-TW-02+白色防眩环 6500K RA90 24D 18W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 70mm	Shielding Angle:



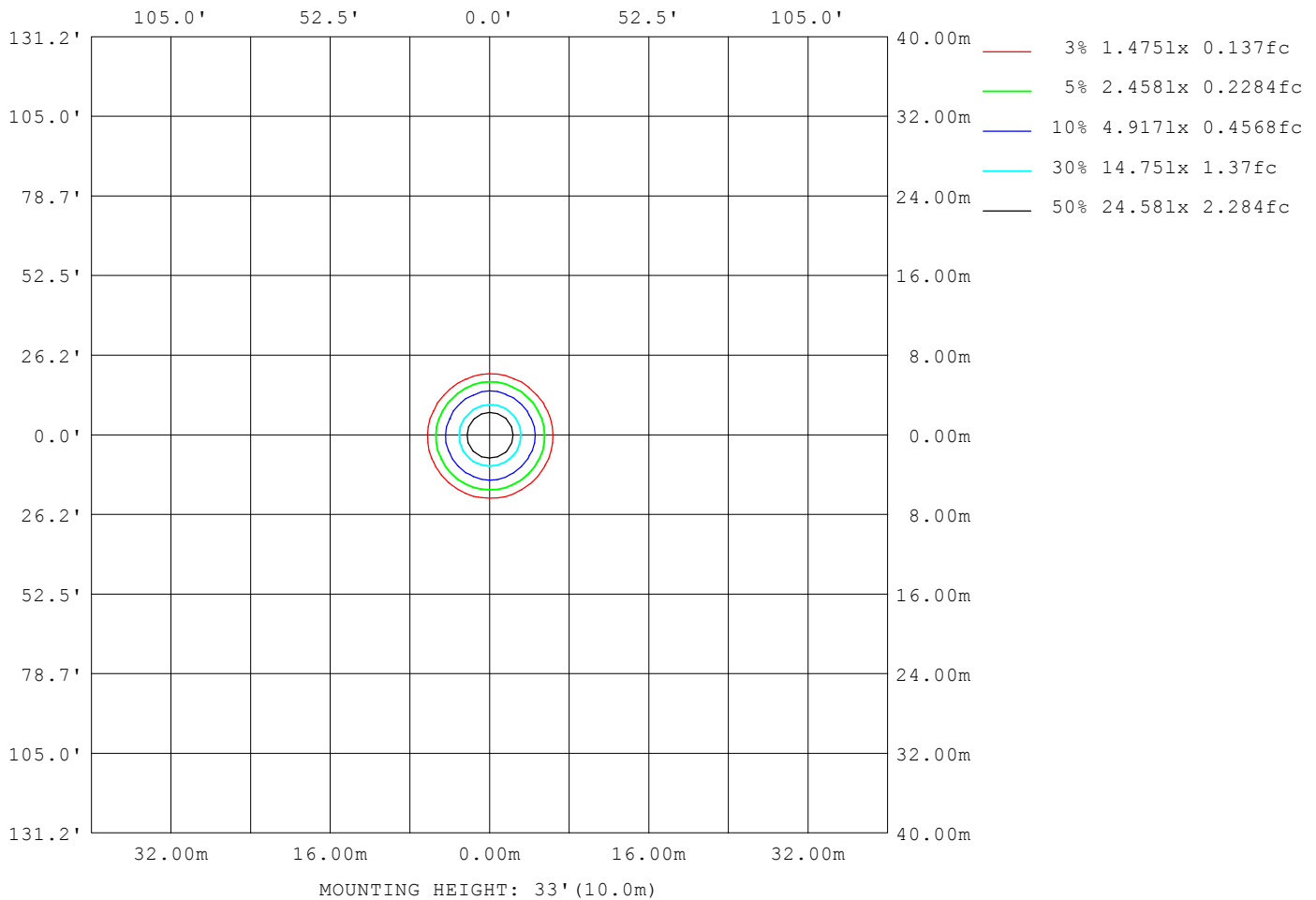
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-04

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:0.0807A P:18.4W PF:0.9466 Freq:49.99Hz UTHDi:0.17% ITHDi:7.90% KDisp:0.9496 Lamp Flux:1467.89x1 lm		
NAME: TR11-20-TW-02+白色防眩环 6500K RA90 24D 18W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 70mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-09-04

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:0.0807A P:18.4W PF:0.9466 Freq:49.99Hz UTHDi:0.17% ITHDi:7.90% KDisp:0.9496 Lamp Flux:1467.89x1 lm		
NAME: TR11-20-TW-02+白色防眩环 6500K RA90 24D 18W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 70mm	Shielding Angle:

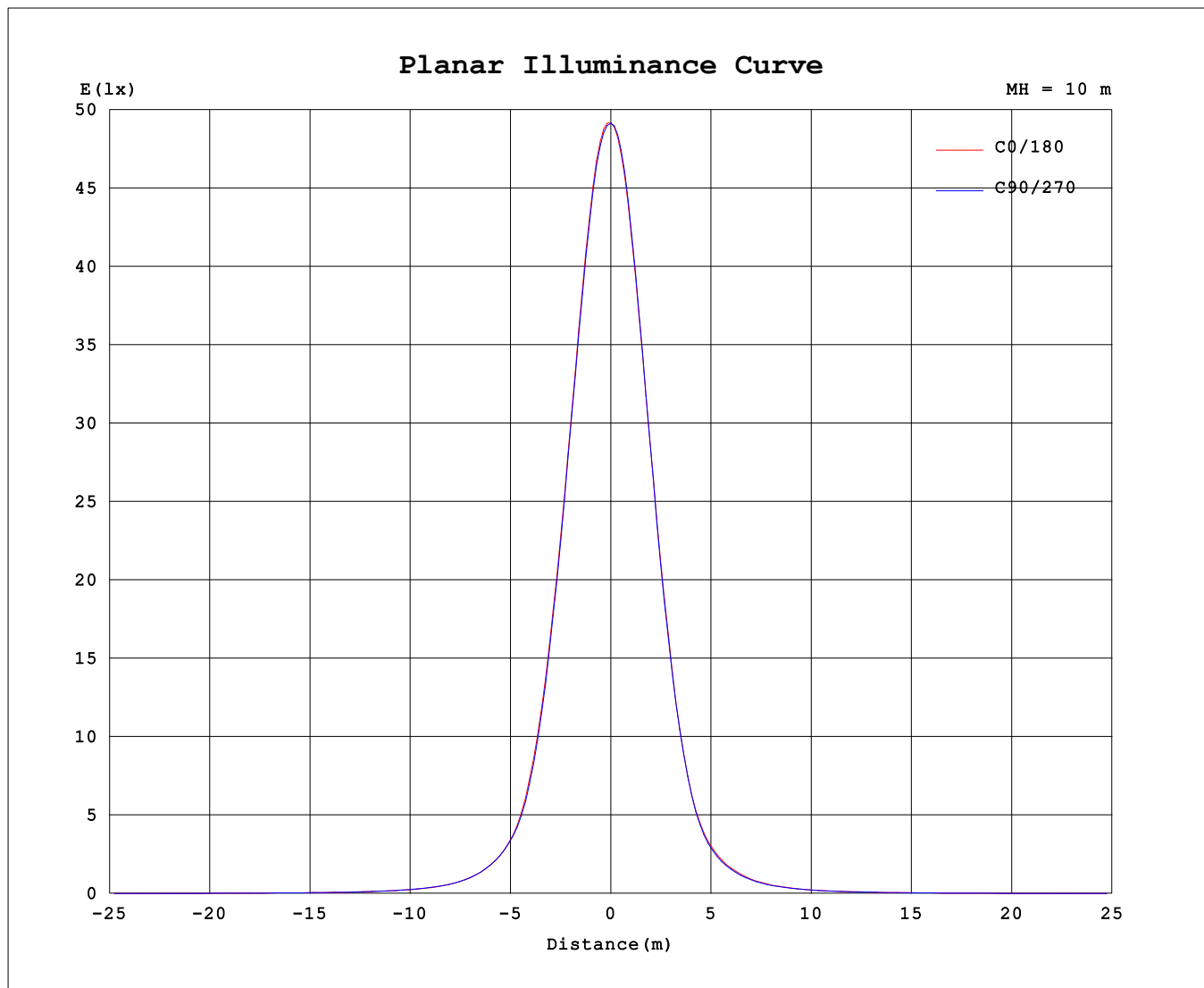
AvgL	cd/m2
L_0~180 (65) av	10000
L_0~180 (75) av	1996
L_0~180 (85) av	528
L_90~270 (65) av	9834
L_90~270 (75) av	2009
L_90~270 (85) av	514
L_45 (65) av	10146
L_45 (75) av	1995
L_45 (85) av	453

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-04

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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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	4914	4914	4914	4914	4914	4914	4914	4914
3.0	4813	4813	4789	4764	4734	4732	4762	4787
6.0	4388	4396	4362	4316	4243	4223	4273	4336
9.0	3738	3749	3708	3660	3564	3524	3581	3667
12.0	2991	3008	2968	2935	2822	2766	2812	2915
15.0	2261	2262	2226	2198	2091	2023	2071	2162
18.0	1599	1598	1560	1533	1428	1380	1424	1492
21.0	1057	1053	1018	997.7	918.5	892.2	920.4	973.1
24.0	675.0	673.8	654.5	634.4	589.4	554.3	576.9	612.7
27.0	453.7	457.0	449.0	434.8	402.4	374.6	386.0	411.1
30.0	321.2	324.3	321.2	310.4	286.3	265.9	272.9	290.6
33.0	230.3	234.4	231.8	225.4	208.3	192.6	197.2	209.5
36.0	166.7	170.7	168.1	162.9	151.2	141.1	144.3	152.8
39.0	122.4	126.1	123.8	120.4	112.4	105.4	107.5	113.7
42.0	92.87	95.19	94.14	91.21	85.47	81.23	81.80	87.13
45.0	71.28	73.74	72.58	70.98	66.60	63.76	63.69	67.95
48.0	56.88	59.64	57.67	57.08	53.33	51.60	50.99	56.06
51.0	46.77	49.46	47.42	47.57	44.47	43.12	42.82	46.71
54.0	39.42	40.00	38.70	38.25	35.70	34.82	34.49	37.46
57.0	30.90	32.12	31.61	31.62	29.53	28.85	28.36	29.95
60.0	25.63	26.60	26.05	25.93	24.04	23.58	23.40	24.82
63.0	20.16	20.84	20.14	20.08	18.49	18.19	18.12	19.42
66.0	15.11	15.69	14.79	14.70	13.41	13.14	13.36	14.56
69.0	9.767	9.998	9.338	9.112	8.315	8.107	8.432	9.290
72.0	4.445	4.512	3.905	3.692	3.289	3.221	3.566	4.037
75.0	2.096	2.040	1.973	1.919	1.830	1.850	1.979	2.038
78.0	1.462	1.389	1.341	1.285	1.260	1.280	1.373	1.406
81.0	1.028	0.9515	0.9208	0.8601	0.8339	0.8459	0.9336	0.9772
84.0	0.3833	0.3461	0.2877	0.2218	0.2087	0.1812	0.2471	0.2870
87.0	0.1202	0.0952	0.1065	0.0800	0.0871	0.0728	0.1027	0.0802
90.0	0.0466	0.0260	0.0530	0.0318	0.0389	0.0328	0.0434	0.0305

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