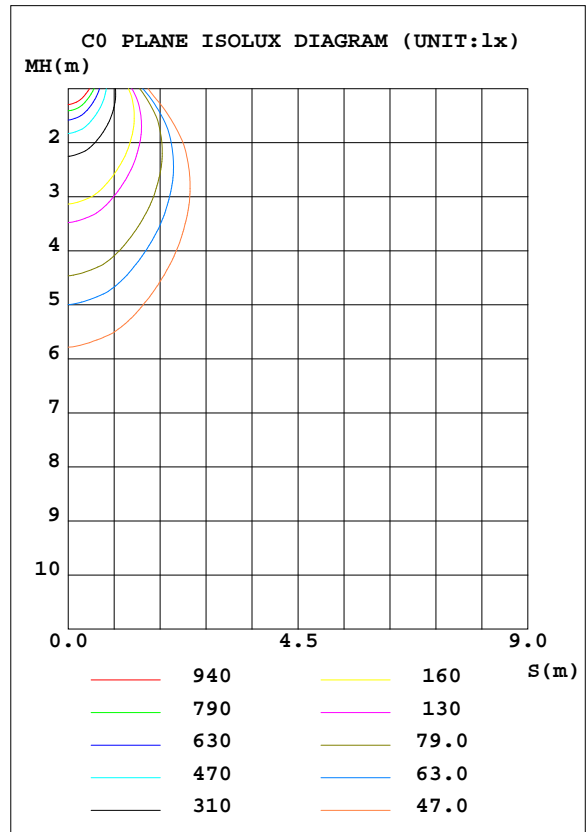
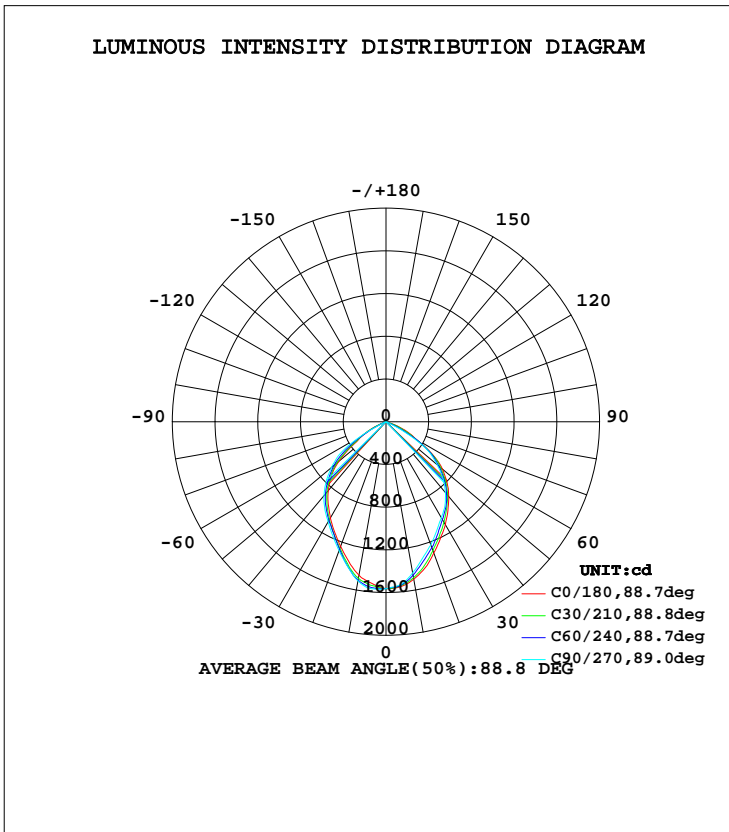


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.6V I:0.1160A P:26.00W PF:0.9290 Lamp Flux:2821.21x1 lm		
NAME: TS-26W-NS	TYPE:26W	WEIGHT:
DIM.:	SPEC.:5000K	SERIAL No.:1
MFR.:	SUR.:0.0124	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 108.51 lm/W			
MODEL	TS-26W-NS	I <sub>max</sub> (cd)	1572	S/MH(C0/180)	1.02
NOMINAL POWER(W)	26	LOR(%)	100.0	S/MH(C90/270)	1.05
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	2821.2	η UP, DN(C0-180)	0.0, 50.2
NOMINAL FLUX(lm)	2821.21	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 49.8
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	240.6	η down(%)	100.0	CIBSE SHR MAX	1.15



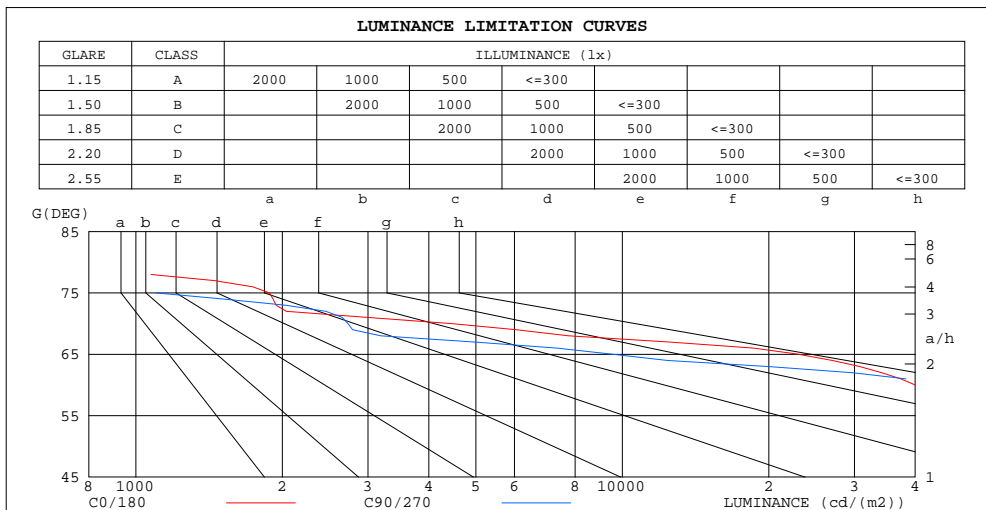
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-08-20

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:10.237m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM  
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum, lamp
10	1459	1497	1513	1503	1498	1472	1439	1437	0- 10	145.1	145.1	5.14,5.14
20	1242	1267	1286	1300	1308	1270	1227	1216	10- 20	386.0	531.1	18.8,18.8
30	1041	1064	1083	1106	1112	1072	1039	1030	20- 30	535.5	1067	37.8,37.8
40	841.0	871.9	903.3	918.2	915.6	891.5	865.1	845.3	30- 40	611.3	1678	59.5,59.5
50	575.0	619.4	667.6	690.7	688.4	656.5	624.2	600.2	40- 50	591.2	2269	80.4,80.4
60	246.3	241.3	282.5	317.0	318.9	313.6	261.9	227.6	50- 60	418.3	2687	95.3,95.3
70	18.82	12.79	11.60	38.04	86.65	34.07	11.95	12.39	60- 70	124.6	2812	99.7,99.7
80	1.085	0.7186	0.5490	2.327	3.885	2.255	0.5993	0.8391	70- 80	8.560	2821	100,100
90	0.4192	0.3578	0.2114	0.2578	0.2375	0.2666	0.1902	0.3214	80- 90	0.5551	2821	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		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	365	169
80	507	254
75	1882	1101
70	4466	2728
65	23004	9535
60	39983	45463
55	52759	74475
50	72600	83587
45	83001	90354

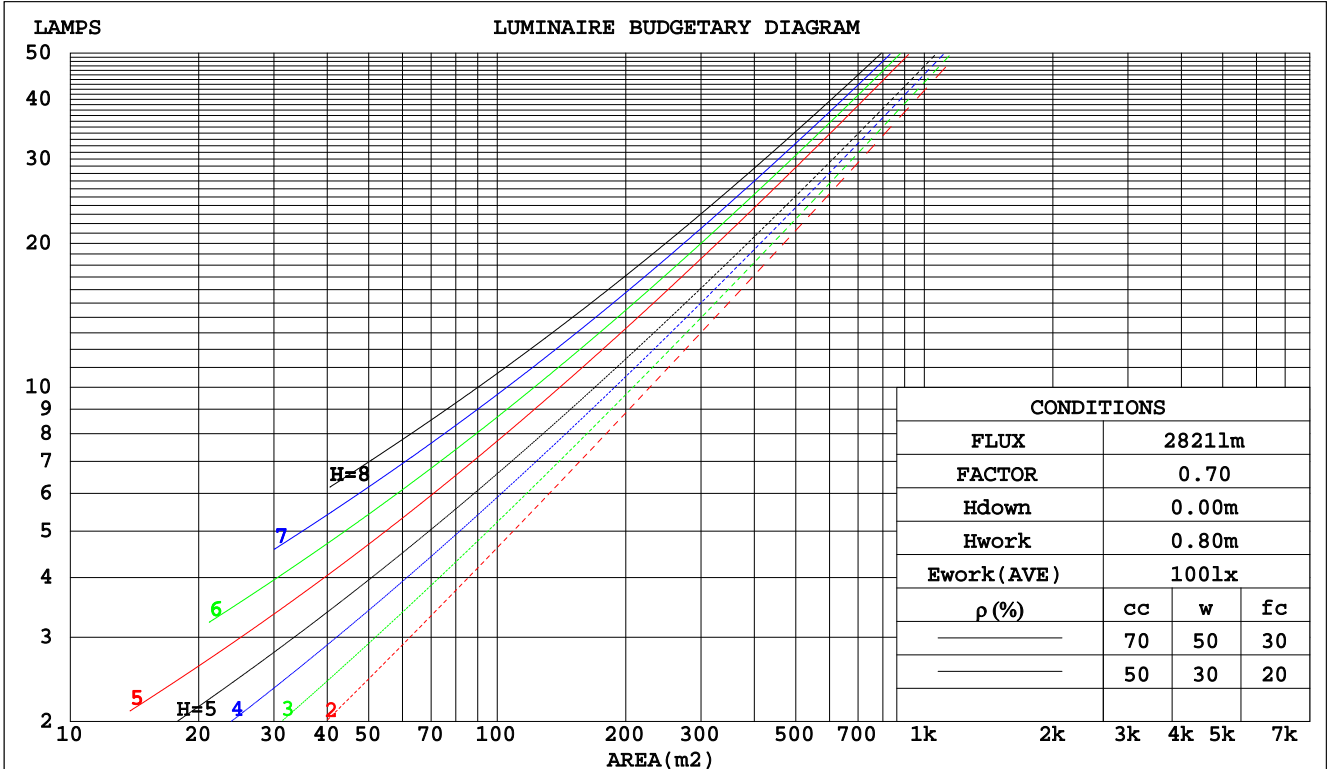
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2020-08-20

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:65.0%  
Test Distance:10.237m [K=1.0000]  
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.6V I:0.1160A P:26.00W PF:0.9290 Lamp Flux:2821.21x1 lm		
NAME: TS-26W-NS	TYPE:26W	WEIGHT:
DIM.:	SPEC.:5000K	SERIAL No.:1
MFR.:	SUR.:0.0124	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																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	.00
1.0	1.08	1.05	1.02	1.06	1.03	1.00	1.02	.99	.97	.98	.96	.94	.94	.93	.91	.90
2.0	.97	.92	.87	.95	.90	.86	.92	.88	.84	.89	.85	.82	.86	.83	.81	.79
3.0	.87	.81	.75	.86	.80	.75	.83	.78	.73	.80	.76	.72	.78	.74	.71	.69
4.0	.79	.71	.66	.77	.71	.65	.75	.69	.64	.73	.68	.64	.71	.66	.63	.61
5.0	.71	.63	.58	.70	.63	.57	.68	.62	.57	.66	.61	.56	.65	.60	.56	.54
6.0	.65	.57	.51	.64	.56	.51	.62	.56	.51	.61	.55	.50	.59	.54	.50	.48
7.0	.59	.51	.46	.58	.51	.46	.57	.50	.45	.56	.50	.45	.54	.49	.45	.43
8.0	.54	.47	.41	.54	.46	.41	.52	.46	.41	.51	.45	.41	.50	.45	.41	.39
9.0	.50	.43	.38	.50	.42	.38	.49	.42	.37	.48	.41	.37	.47	.41	.37	.35
10.0	.47	.39	.34	.46	.39	.34	.45	.39	.34	.44	.38	.34	.43	.38	.34	.32



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-08-20

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:10.237m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:240.6V I:0.1160A P:26.00W PF:0.9290 Lamp Flux:2821.21x1 lm		
NAME: TS-26W-NS	TYPE:26W	WEIGHT:
DIM.:	SPEC.:5000K	SERIAL No.:1
MFR.:	SUR.:0.0124	PROTECTION ANGLE:

ρcc	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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.231	.131	.042	.224	.128	.041	.211	.121	.039	.200	.115	.037	.189	.109	.035	
2.0	.228	.125	.038	.222	.122	.038	.211	.117	.036	.201	.113	.035	.191	.108	.034	
3.0	.219	.117	.035	.214	.115	.035	.205	.111	.034	.195	.107	.033	.187	.104	.032	
4.0	.209	.108	.032	.204	.107	.032	.196	.104	.031	.188	.101	.030	.180	.098	.030	
5.0	.198	.101	.029	.194	.099	.029	.186	.097	.029	.179	.094	.028	.172	.092	.028	
6.0	.187	.094	.027	.183	.093	.027	.176	.090	.026	.170	.088	.026	.164	.086	.026	
7.0	.177	.087	.025	.173	.086	.025	.167	.085	.024	.162	.083	.024	.156	.081	.024	
8.0	.167	.082	.023	.164	.081	.023	.159	.079	.023	.154	.078	.022	.149	.076	.022	
9.0	.158	.077	.021	.156	.076	.021	.151	.075	.021	.146	.073	.021	.142	.072	.021	
10.0	.150	.072	.020	.148	.071	.020	.143	.070	.020	.139	.069	.020	.135	.068	.020	

ρcc	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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.175	.157	.141	.150	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.164	.132	.106	.140	.114	.091	.096	.079	.064	.055	.046	.037	.018	.015	.012	
3.0	.155	.114	.081	.133	.098	.071	.091	.068	.050	.053	.040	.029	.017	.013	.010	
4.0	.147	.100	.064	.126	.086	.056	.087	.060	.039	.050	.035	.023	.016	.011	.008	
5.0	.140	.089	.052	.120	.077	.045	.083	.054	.032	.048	.032	.019	.015	.010	.006	
6.0	.133	.081	.043	.114	.070	.037	.079	.049	.026	.046	.029	.016	.015	.009	.005	
7.0	.127	.074	.036	.109	.064	.032	.075	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.121	.068	.031	.104	.059	.027	.072	.041	.019	.042	.024	.011	.014	.008	.004	
9.0	.116	.063	.027	.100	.055	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.111	.059	.024	.096	.051	.021	.066	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-08-20

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:10.237m [K=1.0000]  
 Remarks:

Uncorrected UGR Table

Test:U:240.6V I:0.1160A P:26.00W PF:0.9290 Lamp Flux:2821.21x1 lm										
NAME: TS-26W-NS					TYPE:26W			WEIGHT:		
DIM.:					SPEC.:5000K			SERIAL No.:1		
MFR.:					SUR.:0.0124			PROTECTION 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	26.3	27.6	26.5	27.8	27.9	26.8	28.1	27.0	28.3	28.5
3H	26.2	27.4	26.5	27.6	27.8	26.6	27.8	26.9	28.0	28.2
4H	26.1	27.2	26.4	27.4	27.7	26.5	27.6	26.8	27.9	28.1
6H	26.0	27.0	26.3	27.3	27.6	26.4	27.4	26.7	27.7	28.0
8H	25.9	26.9	26.3	27.2	27.5	26.3	27.4	26.7	27.6	27.9
12H	25.9	26.8	26.2	27.1	27.4	26.3	27.3	26.6	27.6	27.8
4H 2H	26.3	27.4	26.6	27.6	27.9	26.7	27.9	27.0	28.1	28.3
3H	26.2	27.2	26.5	27.4	27.7	26.6	27.5	26.9	27.8	28.1
4H	26.1	27.0	26.5	27.3	27.6	26.5	27.3	26.8	27.6	28.0
6H	26.0	26.8	26.4	27.1	27.5	26.4	27.1	26.8	27.5	27.8
8H	26.0	26.7	26.4	27.0	27.4	26.3	27.0	26.7	27.4	27.8
12H	25.9	26.6	26.3	26.9	27.3	26.3	26.9	26.7	27.3	27.7
8H 4H	26.0	26.7	26.4	27.0	27.4	26.3	27.0	26.7	27.4	27.8
6H	25.9	26.5	26.3	26.9	27.3	26.2	26.8	26.7	27.2	27.6
8H	25.8	26.3	26.3	26.8	27.2	26.2	26.7	26.6	27.1	27.6
12H	25.8	26.2	26.3	26.7	27.1	26.2	26.6	26.6	27.0	27.5
12H 4H	25.9	26.6	26.3	26.9	27.3	26.3	26.9	26.7	27.3	27.7
6H	25.8	26.3	26.3	26.8	27.2	26.2	26.7	26.6	27.1	27.6
8H	25.8	26.2	26.3	26.7	27.1	26.2	26.6	26.6	27.0	27.5
Variations with the observer position at spacings:										
S = 1.0H	+ 1.2 / - 1.8					+ 0.7 / - 0.8				
1.5H	+ 0.5 / - 0.7					+ 0.7 / - 1.1				
2.0H	+ 2.0 / - 3.4					+ 2.1 / - 6.2				

CIE Pub.117 Corrected 2821 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.6)

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-08-20

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:10.237m [K=1.0000]  
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.6V I:0.1160A P:26.00W PF:0.9290 Lamp Flux:2821.21x1 lm		
NAME: TS-26W-NS	TYPE:26W	WEIGHT:
DIM.:	SPEC.:5000K	SERIAL No.:1
MFR.:	SUR.:0.0124	PROTECTION ANGLE:

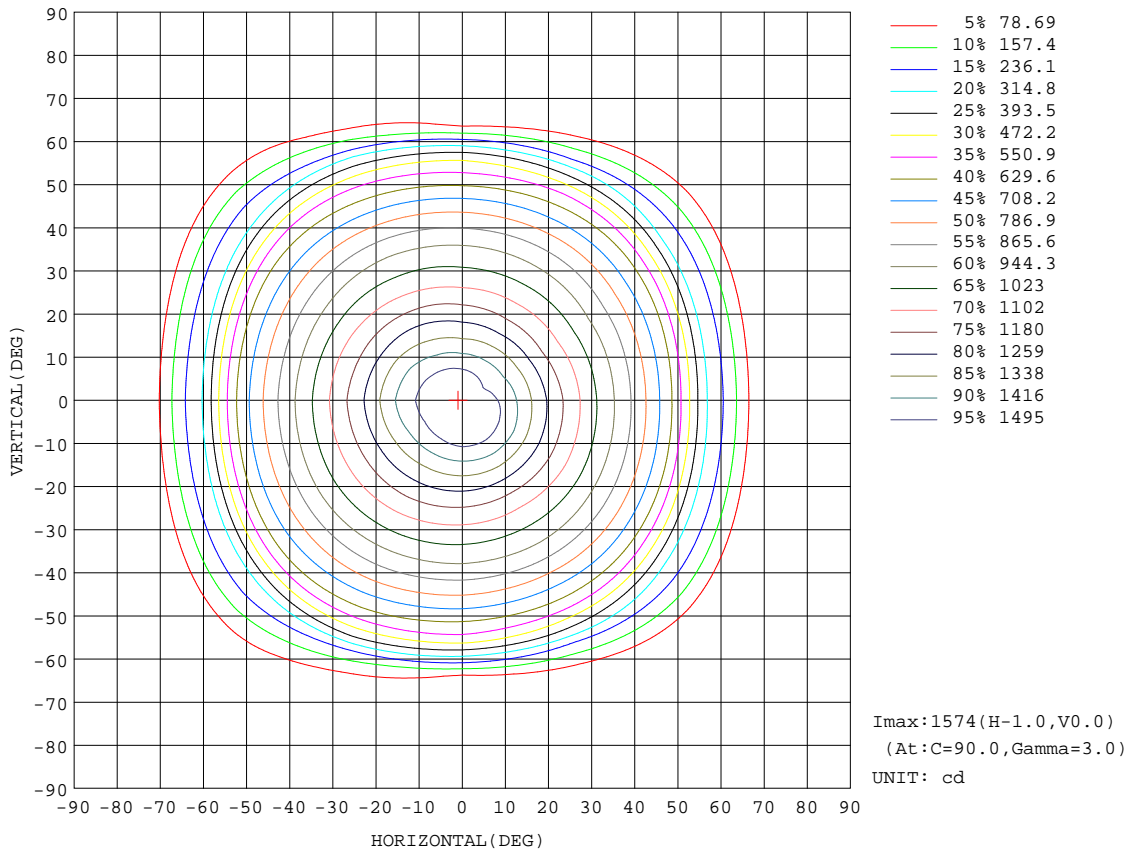
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	65	55	49	65	55	49	63	54	49	43
0.80	76	66	60	75	66	60	73	65	59	53
1.00	85	76	70	84	75	69	82	76	69	63
1.25	91	83	78	90	83	77	88	81	76	70
1.50	96	88	83	94	87	82	92	86	81	75
2.00	102	95	90	100	94	90	97	92	88	82
2.50	104	99	94	103	97	93	99	95	91	84
3.00	107	102	98	105	100	97	101	98	95	87
4.00	110	106	102	108	104	101	104	101	98	90
5.00	112	108	105	109	106	103	105	102	100	92
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-08-20

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:10.237m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:240.6V I:0.1160A P:26.00W PF:0.9290 Lamp Flux:2821.21x1 lm		
NAME: TS-26W-NS	TYPE:26W	WEIGHT:
DIM.:	SPEC.:5000K	SERIAL No.:1
MFR.:	SUR.:0.0124	PROTECTION ANGLE:

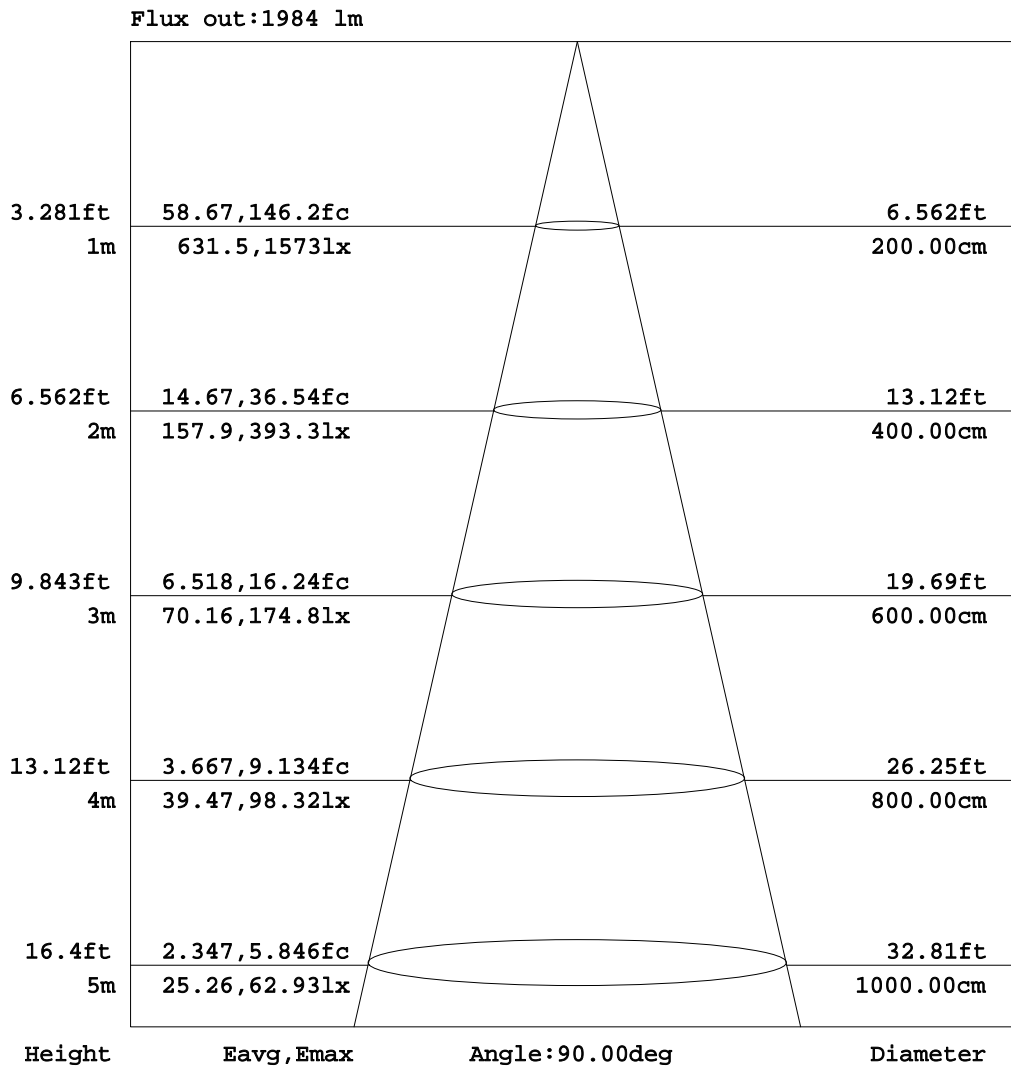


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-08-20

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:10.237m [K=1.0000]  
 Remarks:

AAI Figure

Test:U:240.6V I:0.1160A P:26.00W PF:0.9290 Lamp Flux:2821.21x1 lm		
NAME: TS-26W-NS	TYPE:26W	WEIGHT:
DIM.:	SPEC.:5000K	SERIAL No.:1
MFR.:	SUR.:0.0124	PROTECTION ANGLE:



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

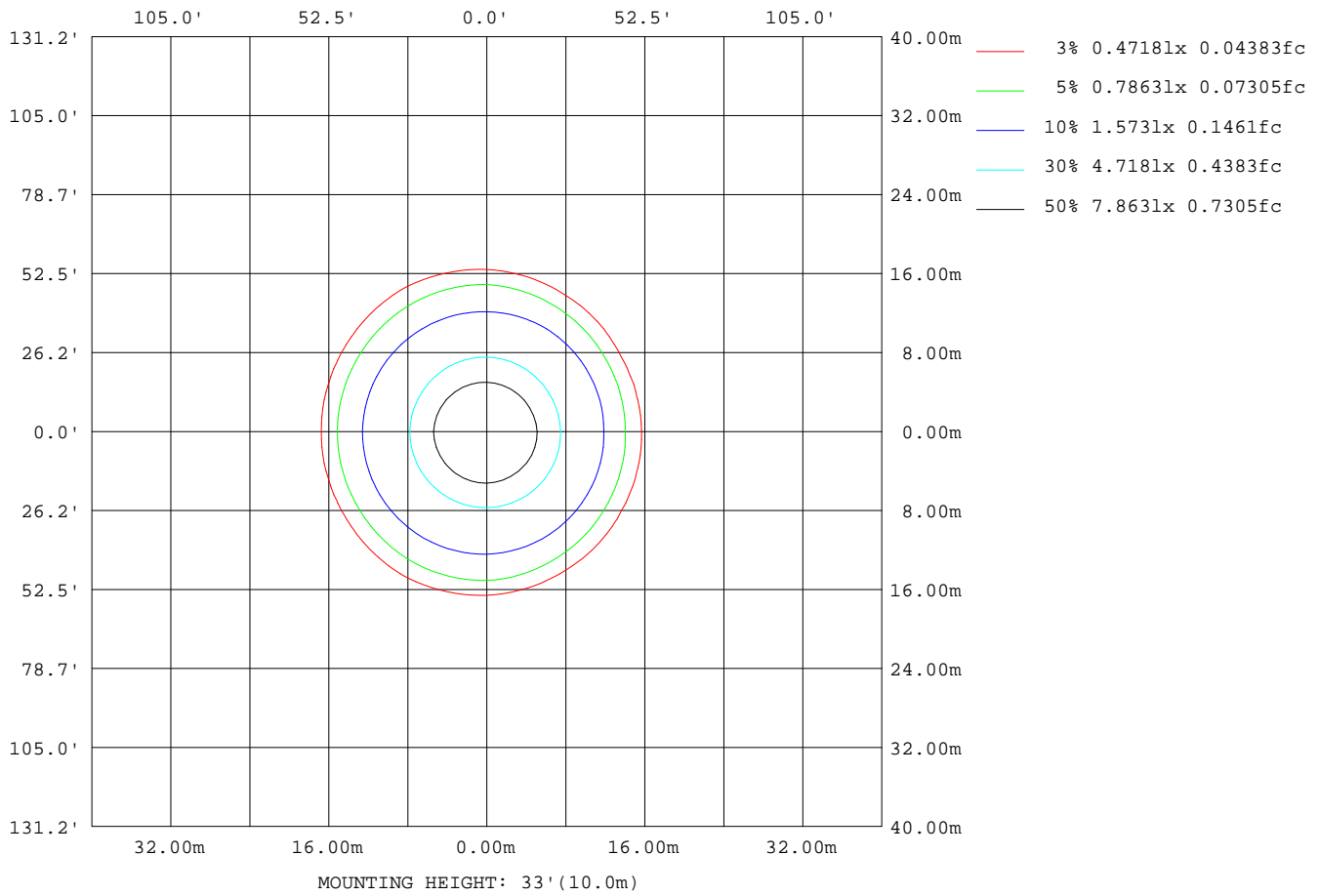
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-08-20

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:10.237m [K=1.0000]  
 Remarks:



**ISOLUX DIAGRAM**

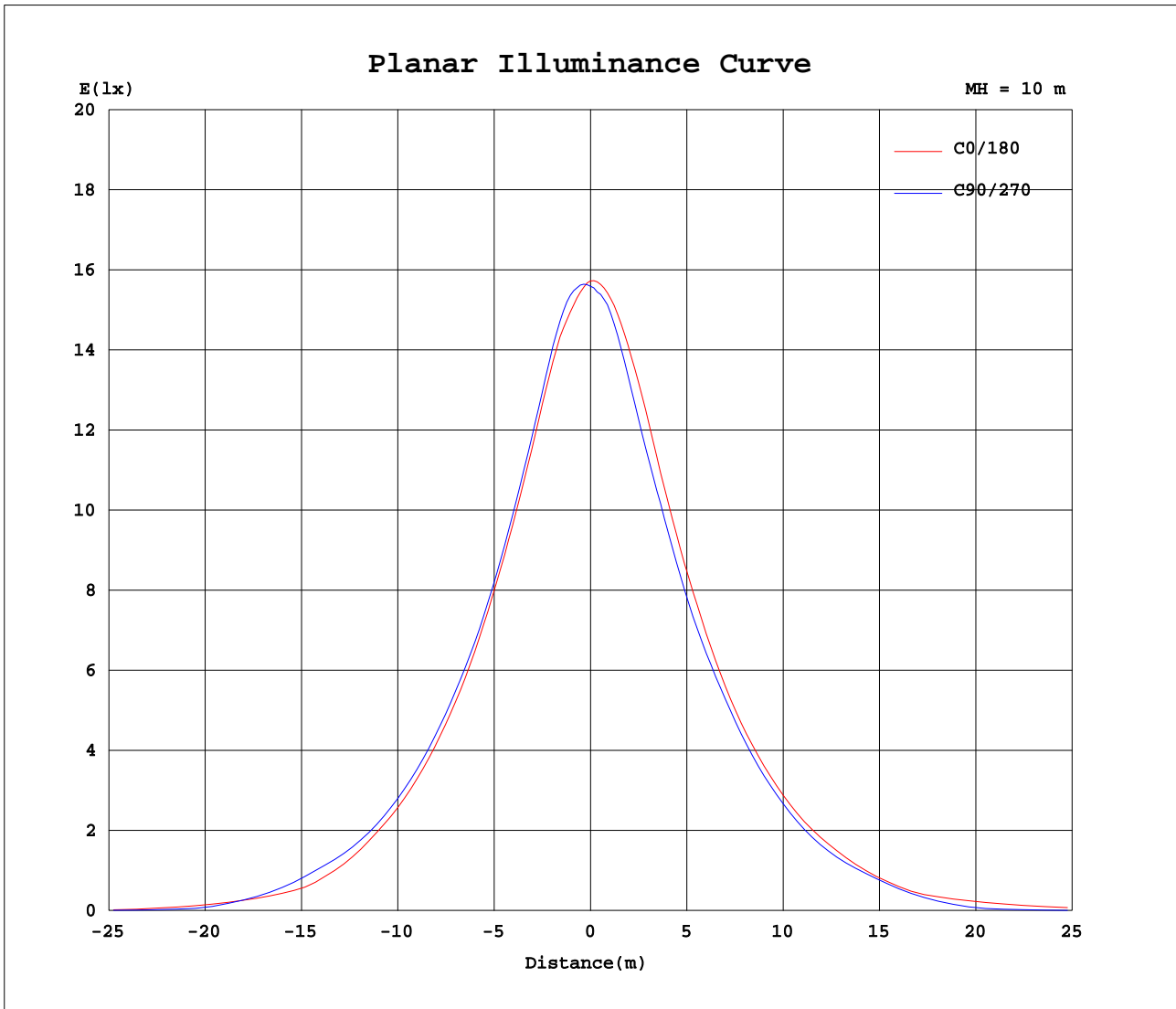
Test:U:240.6V I:0.1160A P:26.00W PF:0.9290 Lamp Flux:2821.21x1 lm		
NAME: TS-26W-NS	TYPE:26W	WEIGHT:
DIM.:	SPEC.:5000K	SERIAL No.:1
MFR.:	SUR.:0.0124	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-08-20

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:10.237m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2020-08-20

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity: 65.0%  
 Test Distance: 10.237m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.6V I:0.1160A P:26.00W PF:0.9290 Lamp Flux:2821.21x1 lm		
NAME: TS-26W-NS	TYPE:26W	WEIGHT:
DIM.:	SPEC.:5000K	SERIAL No.:1
MFR.:	SUR.:0.0124	PROTECTION ANGLE:

Table--1

UNIT: cd

C( DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330								
0	1563	1563	1563	1563	1563	1563	1563	1563	1563	1563	1563	1563								
5	1520	1539	1559	1569	1562	1553	1551	1543	1541	1534	1522	1512								
10	1459	1488	1506	1513	1504	1502	1498	1484	1460	1439	1435	1439								
15	1354	1381	1397	1399	1399	1413	1417	1394	1351	1324	1328	1339								
20	1242	1263	1271	1286	1295	1304	1308	1285	1255	1227	1212	1219								
25	1140	1156	1158	1179	1196	1202	1206	1182	1152	1126	1115	1122								
30	1041	1060	1068	1083	1101	1112	1112	1087	1058	1039	1030	1029								
35	944	962	978	1000	1011	1021	1012	991	977	962	949	939								
40	841	862	882	903	916	920	916	898	885	865	853	838								
45	723	740	764	794	808	813	810	790	773	757	737	723								
50	575	603	636	668	685	696	688	667	646	624	612	589								
55	373	408	459	531	540	533	527	518	509	493	438	392								
60	246	250	232	282	318	316	319	311	316	262	219	236								
65	120	115	64.7	50.1	116	188	217	185	115	47.9	65.6	102								
70	18.8	15.4	10.1	11.6	22.9	53.2	86.6	47.5	20.6	11.9	9.41	15.4								
75	6.00	5.35	3.91	3.54	5.92	6.94	9.50	7.10	6.07	3.20	4.24	5.81								
80	1.08	0.86	0.58	0.55	1.18	3.47	3.88	3.45	1.06	0.60	0.67	1.00								
85	0.39	0.37	0.25	0.18	0.32	0.54	0.52	0.51	0.27	0.21	0.22	0.35								
90	0.42	0.40	0.32	0.21	0.21	0.30	0.24	0.32	0.21	0.19	0.30	0.34								

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2020-08-20

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:65.0%  
Test Distance:10.237m [K=1.0000]  
Remarks: