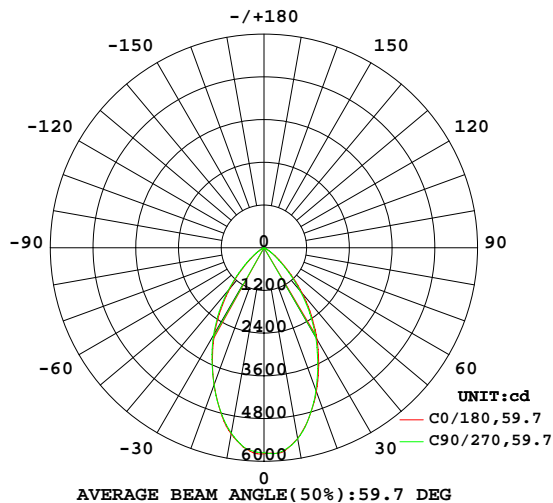


LUMINAIRE PHOTOMETRIC TEST REPORT

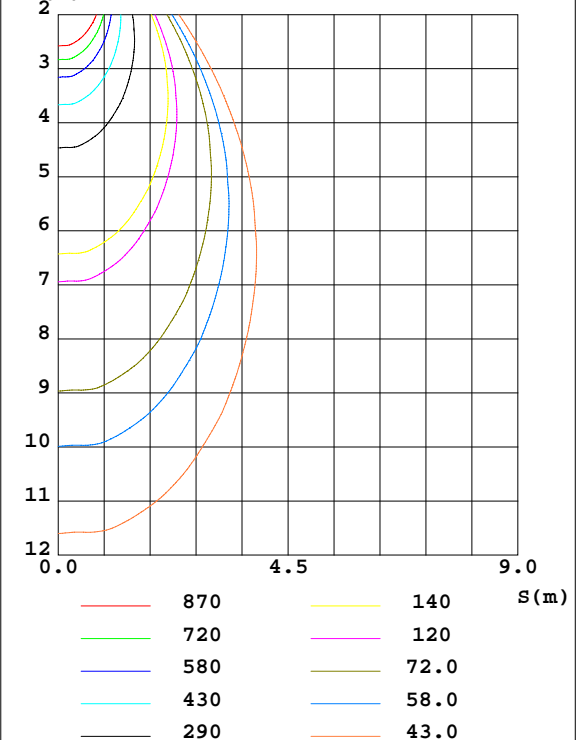
Test:U:229.45V I:0.5165A P:117.13W PF:0.9883 Freq:49.99Hz Lamp Flux:5995.33x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*40	SERIAL No.:
MFR.: NLT23-0015-04	SUR.:3.14*0.6*0.6	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 51.18 lm/W			
MODEL		Imax(cd)	5798	S/MH(C0/180)	0.85
NOMINAL POWER(W)	80	LOR(%)	100.0	S/MH(C90/270)	0.86
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	5995.3	η UP,DN(C0-180)	0.0,50.7
NOMINAL FLUX(lm)	5995.33	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	230.0	η down(%)	100.0	CIBSE SHR MAX	0.95

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

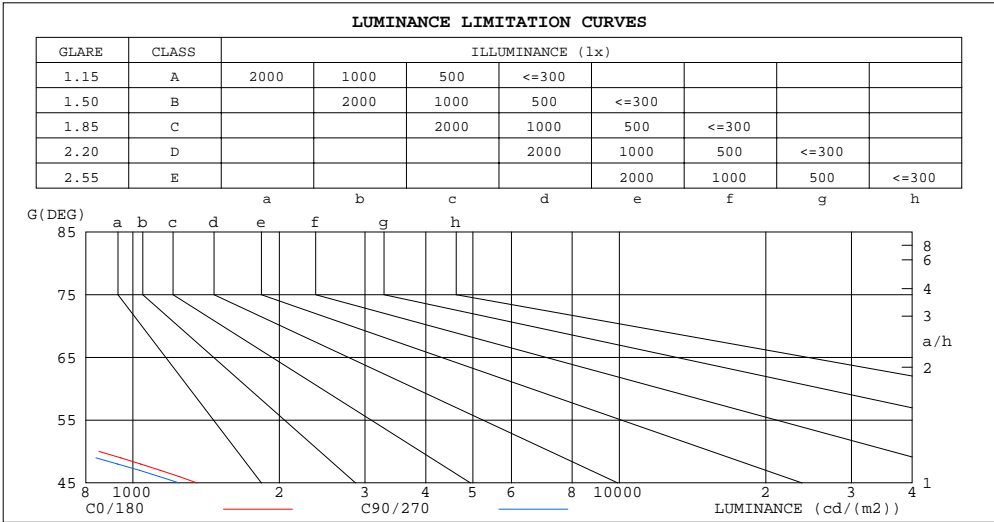
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	5440	5450	5445	5332	5310	5271	5287	5338	0- 10	532.7	532.7	8.89,8.89
20	4302	4336	4266	4151	4097	4087	4102	4191	10- 20	1346	1879	31.3,31.3
30	2984	2994	2914	2815	2780	2791	2835	2887	20- 30	1613	3492	58.2,58.2
40	1675	1657	1579	1504	1488	1516	1562	1621	30- 40	1378	4870	81.2,81.2
50	618.6	595.6	547.5	516.4	525.0	546.0	571.8	606.9	40- 50	782.2	5652	94.3,94.3
60	145.2	137.3	113.4	100.0	104.8	116.2	125.7	140.2	50- 60	276.7	5929	98.9,98.9
70	9.392	8.991	5.377	3.552	7.126	16.14	11.67	7.173	60- 70	41.93	5971	99.6,99.6
80	14.30	12.64	8.328	5.730	18.41	22.44	19.99	11.20	70- 80	11.14	5982	99.8,99.8
90	0.9880	1.237	1.443	1.632	2.337	2.096	2.027	1.684	80- 90	13.58	5995	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		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:229.45V I:0.5165A P:117.13W PF:0.9883 Freq:49.99Hz Lamp Flux:5995.33x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*40	SERIAL No.:
MFR.: NLT23-0015-04	SUR.:3.14*0.6*0.6	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	187	99
80	73	42
75	37	18
70	24	14
65	83	56
60	257	201
55	512	445
50	851	753
45	1355	1244

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-29

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

```

WEC AND CCEC

Test:U:229.45V I:0.5165A P:117.13W PF:0.9883 Freq:49.99Hz Lamp Flux:5995.33x1 lm									
NAME:				TYPE:				WEIGHT:	
SPEC.:				DIM.: 1200*40				SERIAL No.:	
MFR.: NLT23-0015-04				SUR.:3.14*0.6*0.6				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	.196	.111	.035	.189	.108	.034	.177	.101	.032	.165	.095	.031	.154	.089	.029	
2.0	.189	.104	.032	.184	.101	.031	.173	.096	.030	.163	.091	.029	.154	.087	.027	
3.0	.181	.096	.029	.176	.094	.028	.167	.090	.027	.158	.087	.027	.150	.083	.026	
4.0	.173	.090	.026	.168	.088	.026	.160	.085	.025	.153	.082	.025	.146	.079	.024	
5.0	.164	.084	.024	.161	.082	.024	.154	.080	.024	.147	.078	.023	.141	.075	.023	
6.0	.157	.078	.022	.153	.077	.022	.147	.075	.022	.141	.073	.022	.136	.071	.021	
7.0	.149	.074	.021	.146	.073	.021	.141	.071	.020	.135	.069	.020	.131	.068	.020	
8.0	.142	.070	.020	.140	.069	.019	.135	.067	.019	.130	.066	.019	.126	.064	.019	
9.0	.136	.066	.018	.134	.065	.018	.129	.064	.018	.125	.063	.018	.121	.061	.018	
10.0	.130	.062	.017	.128	.062	.017	.124	.061	.017	.120	.060	.017	.116	.058	.017	

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	.143	.148	.135	.123	.101	.093	.085	.058	.054	.050	.019	.017	.016		
2.0	.159	.132	.110	.136	.114	.095	.093	.079	.067	.054	.046	.039	.017	.015	.013		
3.0	.147	.114	.087	.126	.098	.075	.087	.068	.053	.050	.040	.031	.016	.013	.010		
4.0	.138	.099	.070	.118	.086	.061	.081	.060	.043	.047	.035	.025	.015	.011	.008		
5.0	.130	.088	.057	.112	.076	.050	.077	.053	.035	.045	.031	.021	.014	.010	.007		
6.0	.123	.079	.047	.106	.068	.041	.073	.048	.029	.042	.028	.017	.014	.009	.006		
7.0	.117	.072	.040	.100	.062	.035	.069	.044	.025	.040	.026	.015	.013	.008	.005		
8.0	.111	.066	.034	.096	.057	.030	.066	.040	.021	.038	.024	.013	.012	.008	.004		
9.0	.106	.060	.030	.091	.052	.026	.063	.037	.018	.037	.022	.011	.012	.007	.004		
10.0	.101	.056	.026	.087	.049	.023	.061	.034	.016	.035	.020	.010	.011	.007	.003		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-29

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:229.45V I:0.5165A P:117.13W PF:0.9883 Freq:49.99Hz Lamp Flux:5995.33x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.:			DIM.: 1200*40			SERIAL No.:				
MFR.: NLT23-0015-04			SUR.:3.14*0.6*0.6			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	9.8	10.9	10.0	11.0	11.2	9.5	10.6	9.8	10.8	10.9
3H	9.6	10.6	9.9	10.8	11.0	9.3	10.3	9.6	10.5	10.7
4H	9.5	10.5	9.8	10.7	10.9	9.3	10.2	9.5	10.4	10.6
6H	9.5	10.3	9.8	10.6	10.8	9.2	10.0	9.5	10.3	10.5
8H	9.4	10.2	9.7	10.5	10.8	9.1	10.0	9.4	10.2	10.5
12H	9.4	10.2	9.7	10.5	10.7	9.1	9.9	9.4	10.2	10.4
4H 2H	9.6	10.5	9.9	10.7	11.0	9.3	10.3	9.6	10.5	10.7
3H	9.4	10.2	9.7	10.5	10.8	9.1	9.9	9.5	10.2	10.5
4H	9.3	10.0	9.7	10.3	10.7	9.1	9.8	9.4	10.1	10.4
6H	9.3	9.9	9.6	10.2	10.6	9.0	9.6	9.4	9.9	10.3
8H	9.2	9.8	9.6	10.2	10.5	8.9	9.5	9.3	9.9	10.2
12H	9.2	9.8	9.6	10.1	10.5	8.9	9.4	9.3	9.8	10.2
8H 4H	9.2	9.8	9.6	10.1	10.5	8.9	9.5	9.3	9.9	10.2
6H	9.1	9.6	9.6	10.0	10.4	8.8	9.3	9.3	9.7	10.1
8H	9.1	9.5	9.6	9.9	10.4	8.8	9.2	9.3	9.6	10.1
12H	9.2	9.5	9.6	10.0	10.4	8.8	9.2	9.3	9.6	10.1
12H 4H	9.1	9.7	9.6	10.0	10.4	8.9	9.4	9.3	9.8	10.2
6H	9.1	9.5	9.5	9.9	10.4	8.8	9.2	9.2	9.6	10.1
8H	9.1	9.4	9.5	9.9	10.3	8.8	9.1	9.2	9.6	10.0
Variations with the observer position at spacings:										
S = 1.0H	+ 2.1 / - 5.5					+ 2.2 / - 6.3				
1.5H	+ 2.6 / - 3.8					+ 2.7 / - 3.8				
2.0H	+ 4.7 / - 8.1					+ 4.7 / - 8.7				

CIE Pub.117, 5995 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 6.2$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-01-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:11.700m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:229.45V I:0.5165A P:117.13W PF:0.9883 Freq:49.99Hz Lamp Flux:5995.33x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*40	SERIAL No.:
MFR.: NLT23-0015-04	SUR.:3.14*0.6*0.6	Shielding Angle:

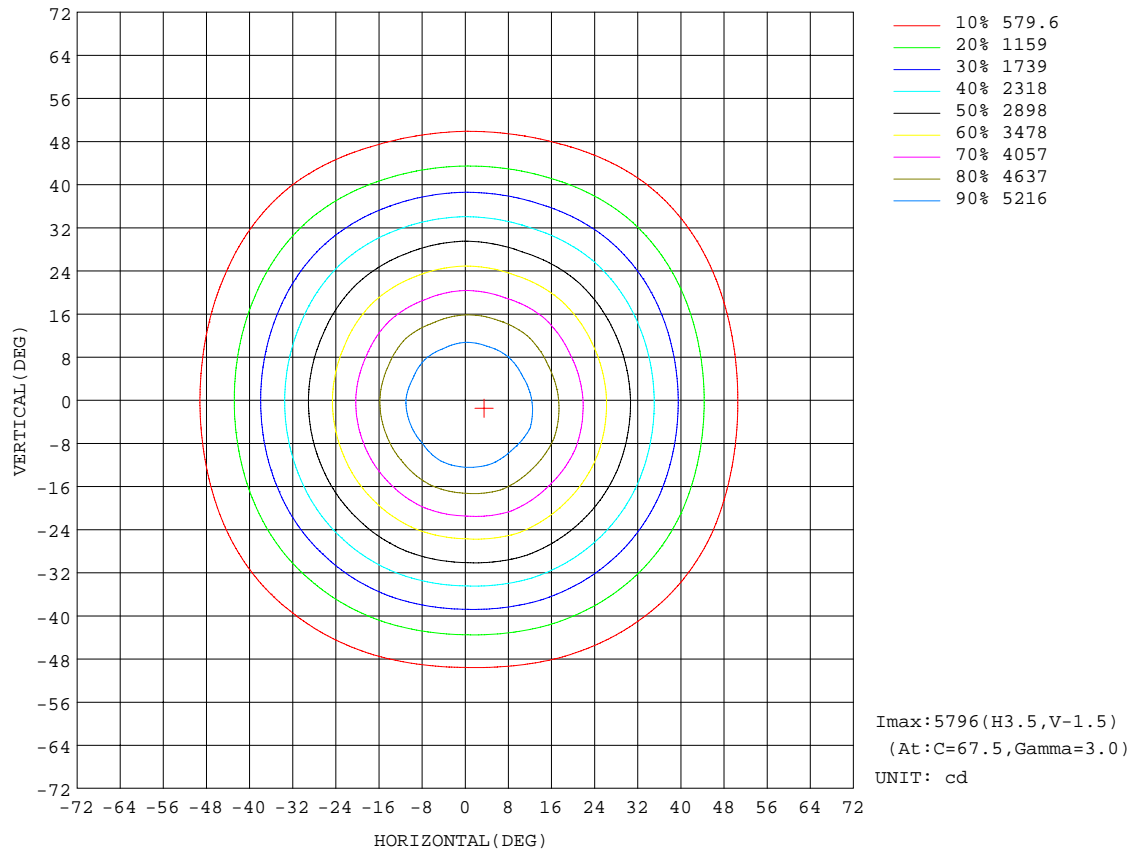
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	79	72	67	79	71	67	78	71	67	62
0.80	88	81	76	87	81	76	86	80	76	71
1.00	94	88	83	93	87	83	92	87	82	78
1.25	99	93	89	98	93	89	96	91	88	83
1.50	103	97	93	101	96	92	99	95	91	86
2.00	106	101	98	105	100	97	102	98	95	90
2.50	108	104	100	107	103	99	103	100	98	91
3.00	110	106	103	108	105	102	105	102	100	93
4.00	112	109	106	110	107	105	107	104	102	95
5.00	114	111	109	112	109	107	107	106	104	96
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-01-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:11.700m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:229.45V I:0.5165A P:117.13W PF:0.9883 Freq:49.99Hz Lamp Flux:5995.33x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*40	SERIAL No.:
MFR.: NLT23-0015-04	SUR.:3.14*0.6*0.6	Shielding Angle:

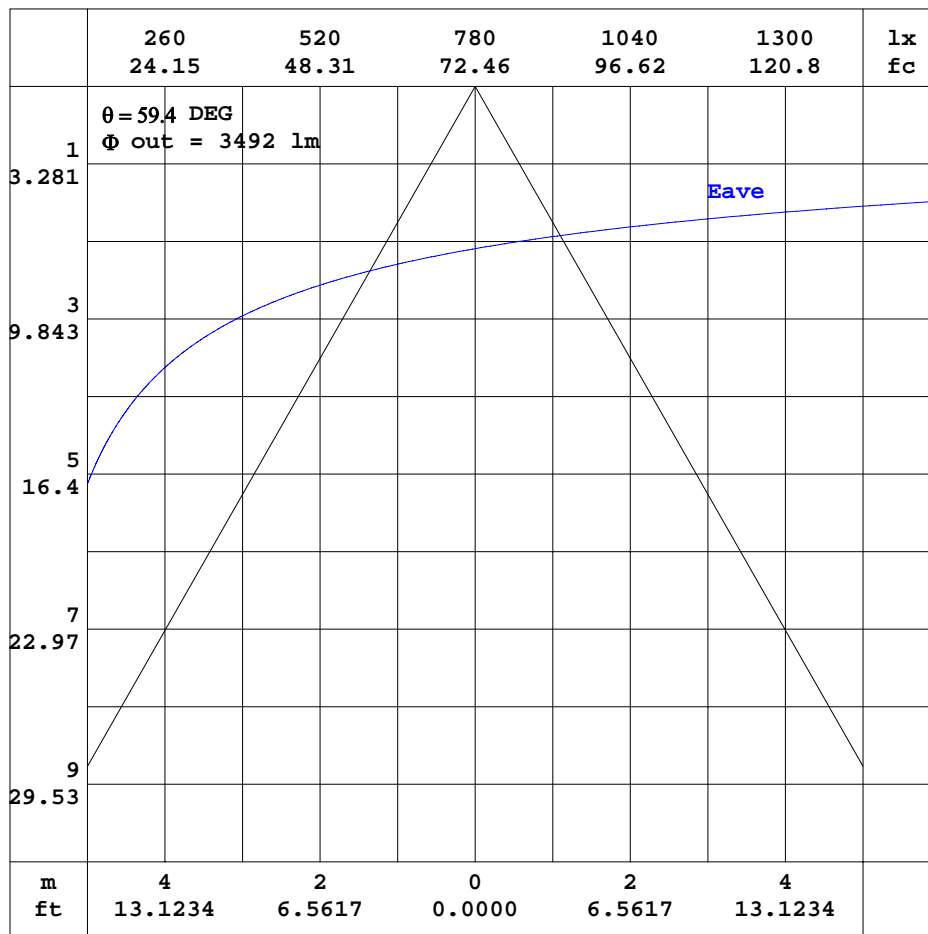


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

AAI CURVES

Test:U:229.45V I:0.5165A P:117.13W PF:0.9883 Freq:49.99Hz Lamp Flux:5995.33x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*40	SERIAL No.:
MFR.: NLT23-0015-04	SUR.:3.14*0.6*0.6	Shielding Angle:



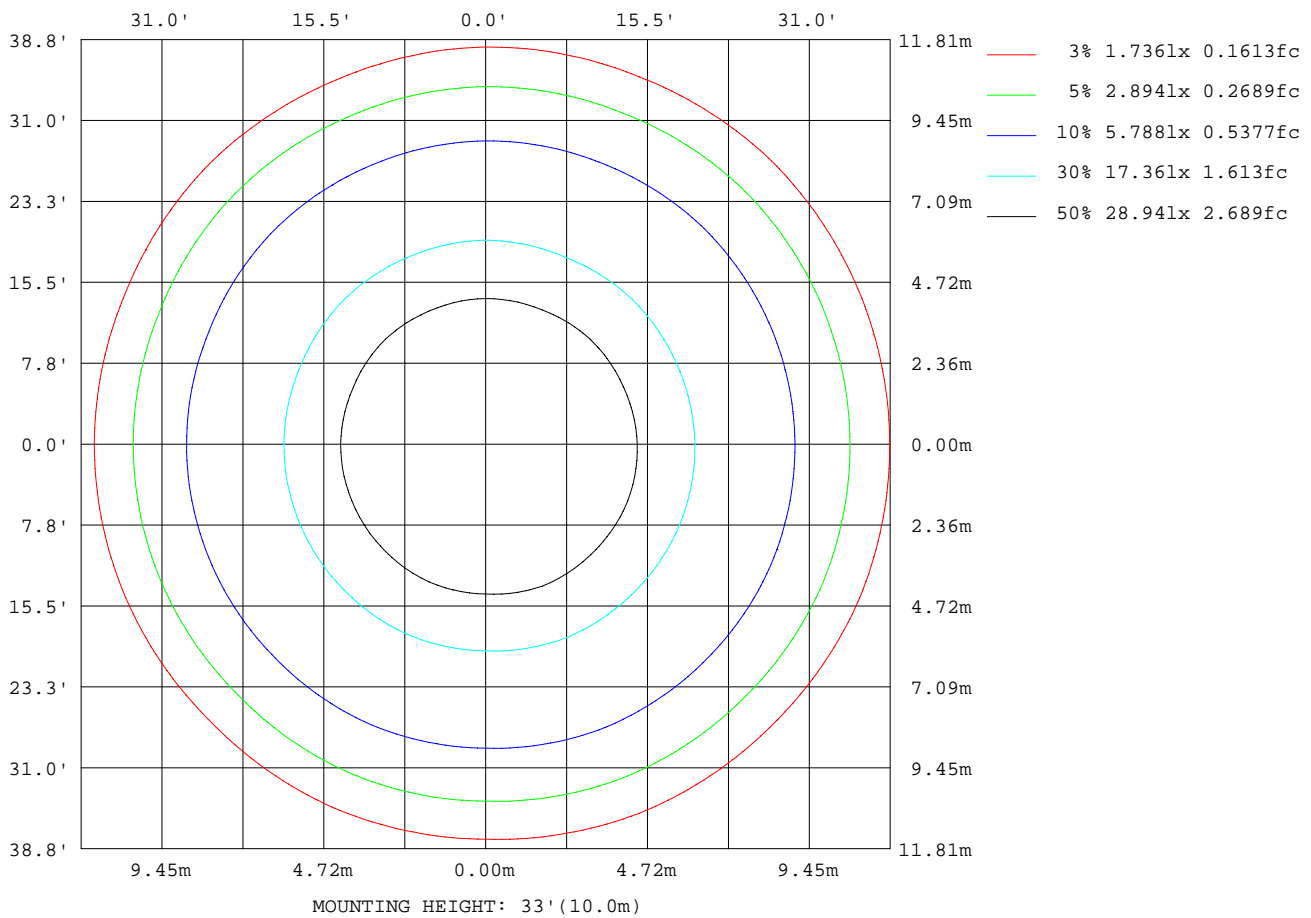
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-01-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity: 65.0%
Test Distance: 11.700m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:229.45V I:0.5165A P:117.13W PF:0.9883 Freq:49.99Hz Lamp Flux:5995.33x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*40	SERIAL No.:
MFR.: NLT23-0015-04	SUR.:3.14*0.6*0.6	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-01-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity: 65.0%
Test Distance: 11.700m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:229.45V I:0.5165A P:117.13W PF:0.9883 Freq:49.99Hz Lamp Flux:5995.33x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*40	SERIAL No.:
MFR.: NLT23-0015-04	SUR.:3.14*0.6*0.6	Shielding Angle:

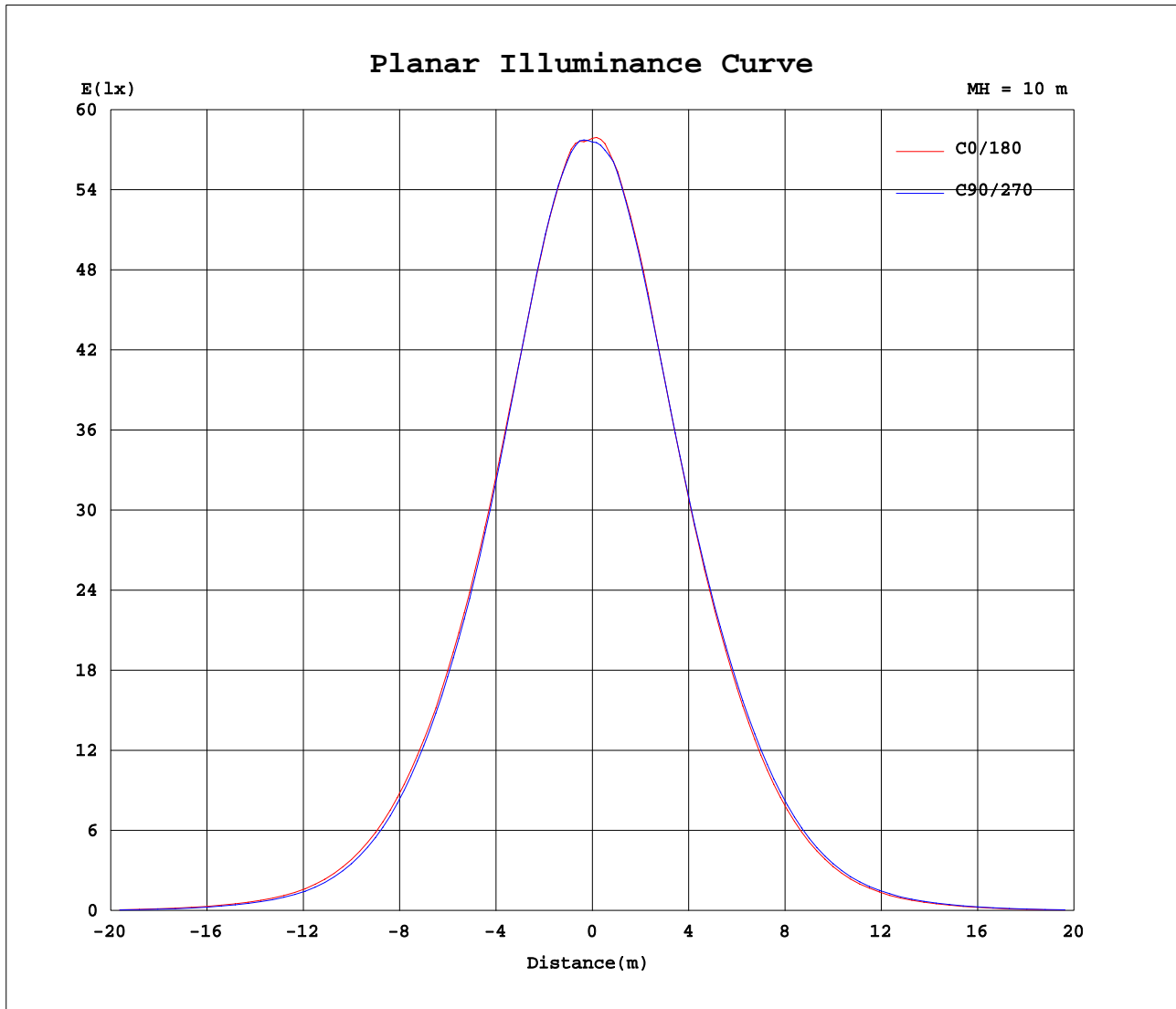
AvgL	cd/m2
L_0~180(65)av	67
L_0~180(75)av	41
L_0~180(85)av	167
L_90~270(65)av	64
L_90~270(75)av	32
L_90~270(85)av	168
L_45(65)av	66
L_45(75)av	34
L_45(85)av	152

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-29

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-01-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity: 65.0%
Test Distance: 11.700m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

```