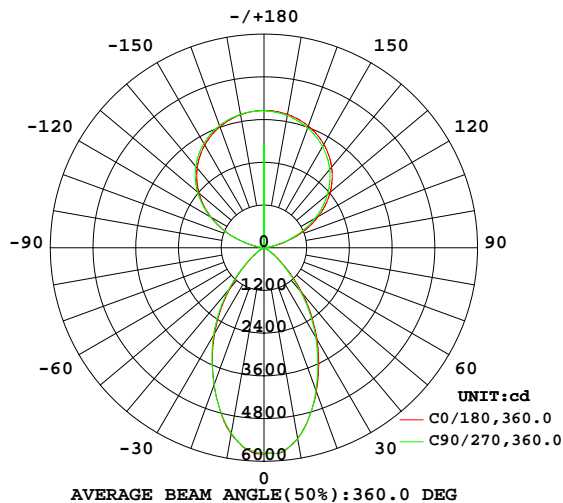


## LUMINAIRE PHOTOMETRIC TEST REPORT

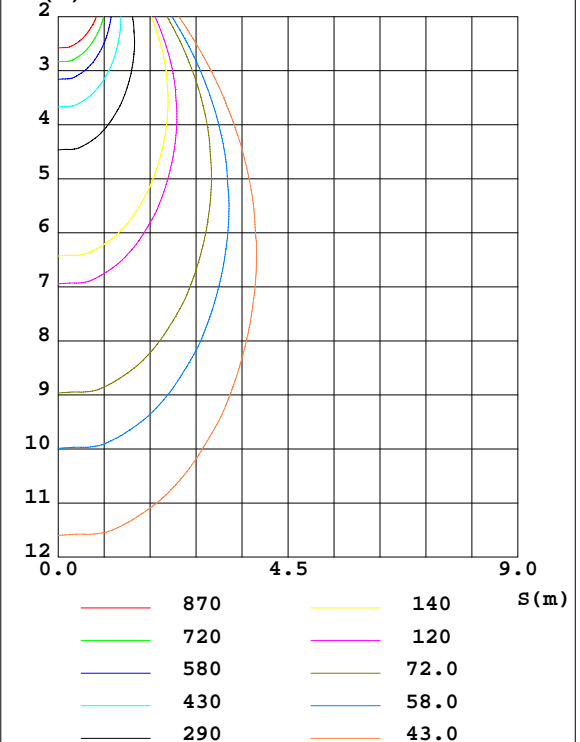
Test:U:229.45V I:0.5165A P:117.13W PF:0.9883 Freq:49.99Hz Lamp Flux:16864.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*40	SERIAL No.:
MFR.: NLT23-0015-04	SUR.:3.14*0.6*0.6	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 143.98 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)	16864	$\eta$ UP,DN(C0-180)	31.8,17.9
NOMINAL FLUX(lm)	16864.3	CIE CLASS	SEMI-IND.	$\eta$ UP,DN(C180-360)	32.6,17.6
LAMPS INSIDE	1	$\eta$ up(%)	64.5	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	230.0	$\eta$ down(%)	35.5	CIBSE SHR MAX	0.95

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2024-01-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=0.8547]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

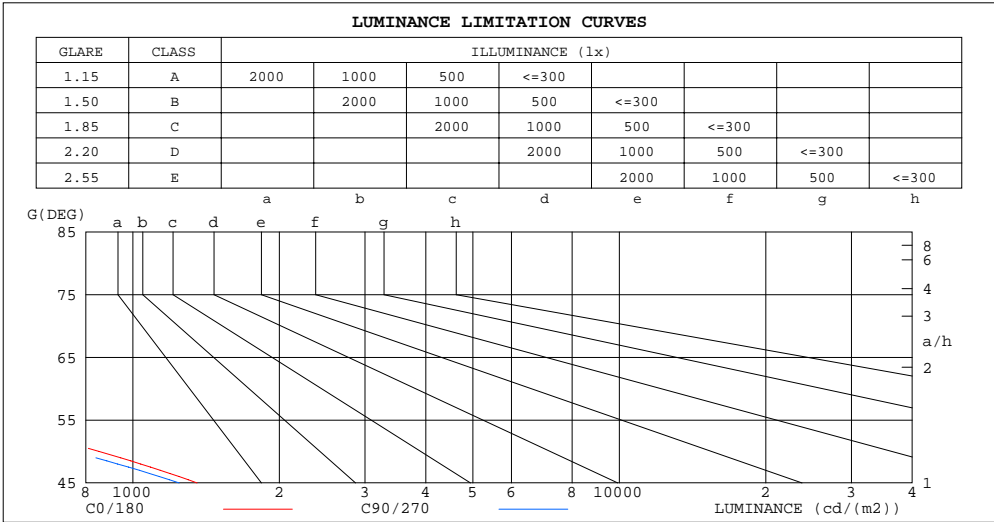
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\%lum, lamp$
10	5440	5450	5445	5332	5310	5271	5287	5338	0- 10	532.7	532.7	3.16,3.16
20	4302	4336	4266	4151	4097	4087	4102	4191	10- 20	1346	1879	11.1,11.1
30	2984	2994	2914	2815	2780	2791	2835	2887	20- 30	1613	3492	20.7,20.7
40	1675	1657	1579	1504	1488	1516	1562	1621	30- 40	1378	4869	28.9,28.9
50	618.6	595.6	547.5	516.4	525.0	546.0	571.8	606.9	40- 50	781.9	5651	33.5,33.5
60	145.2	137.3	113.4	100.0	104.8	116.2	125.7	140.2	50- 60	276.5	5928	35.1,35.1
70	9.392	8.991	5.377	3.552	7.126	16.14	11.67	7.173	60- 70	41.77	5969	35.4,35.4
80	14.30	12.64	8.328	5.730	18.41	22.44	19.99	11.20	70- 80	11.12	5981	35.5,35.5
90	0.9880	1.237	1.443	1.632	2.337	2.096	2.027	1.684	80- 90	13.56	5994	35.5,35.5
100	217.6	208.6	186.4	181.8	190.5	183.6	182.7	211.3	90-100	63.65	6058	35.9,35.9
110	980.7	952.5	895.1	916.2	938.4	939.9	945.0	990.0	100-110	574.9	6633	39.3,39.3
120	1764	1716	1652	1682	1716	1729	1742	1769	110-120	1323	7956	47.2,47.2
130	2427	2378	2328	2348	2383	2408	2434	2450	120-130	1849	9804	58.1,58.1
140	2957	2908	2871	2886	2921	2949	2980	2986	130-140	2064	11869	70.4,70.4
150	3360	3311	3287	3298	3331	3353	3381	3383	140-150	1970	13839	82.1,82.1
160	3639	3598	3583	3592	3620	3630	3654	3655	150-160	1610	15449	91.6,91.6
170	3806	3776	3770	3777	3796	3793	3807	3811	160-170	1050	16500	97.8,97.8
180	3859	3859	3859	3859	3859	3859	3859	3859	170-180	364.6	16864	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2024-01-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 $\gamma$  Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=0.8547]  
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:229.45V I:0.5165A P:117.13W PF:0.9883 Freq:49.99Hz Lamp Flux:16864.3x1 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

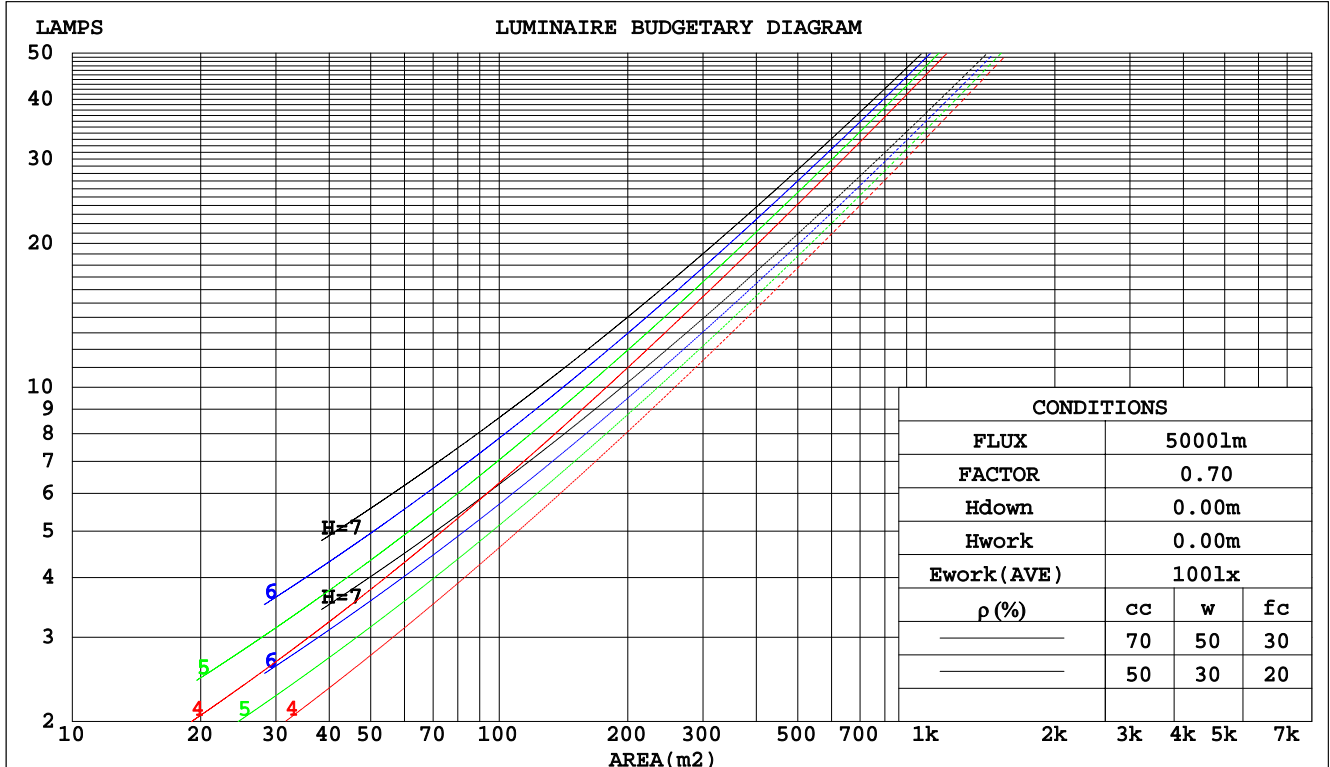
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2024-01-29

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=0.8547]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.45V I:0.5165A P:117.13W PF:0.9883 Freq:49.99Hz Lamp Flux:16864.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*40	SERIAL No.:
MFR.: NLT23-0015-04	SUR.:3.14*0.6*0.6	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.04	1.04	1.04	.94	.94	.94	.75	.75	.75	.58	.58	.58	.43	.43	.43	.36
1.0	.92	.89	.86	.84	.81	.79	.68	.66	.65	.53	.52	.51	.40	.39	.39	.33
2.0	.82	.77	.73	.75	.71	.67	.61	.58	.56	.49	.47	.45	.37	.36	.35	.30
3.0	.74	.68	.63	.68	.62	.58	.56	.52	.49	.45	.42	.40	.34	.33	.32	.27
4.0	.66	.60	.54	.61	.55	.51	.51	.46	.43	.41	.38	.36	.32	.30	.29	.25
5.0	.60	.53	.48	.55	.49	.45	.46	.42	.38	.38	.35	.32	.30	.28	.26	.23
6.0	.55	.48	.42	.50	.44	.40	.42	.38	.34	.35	.32	.29	.28	.26	.24	.21
7.0	.50	.43	.38	.46	.40	.36	.39	.34	.31	.32	.29	.27	.26	.24	.22	.20
8.0	.46	.39	.34	.42	.36	.32	.36	.31	.28	.30	.27	.24	.24	.22	.21	.18
9.0	.42	.35	.31	.39	.33	.29	.33	.29	.26	.28	.25	.22	.23	.21	.19	.17
10.0	.39	.32	.28	.36	.30	.27	.31	.27	.24	.26	.23	.21	.21	.19	.18	.16



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2024-01-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=0.8547]  
Remarks:

## WEC AND CCEC

Test:U:229.45V I:0.5165A P:117.13W PF:0.9883 Freq:49.99Hz Lamp Flux:16864.3x1 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	.235	.134	.042	.209	.119	.038	.160	.092	.029	.114	.066	.021	.073	.042	.014	
2.0	.220	.120	.037	.196	.108	.033	.151	.084	.026	.109	.061	.019	.071	.040	.013	
3.0	.205	.109	.033	.183	.098	.030	.142	.077	.023	.104	.057	.017	.069	.038	.012	
4.0	.192	.100	.029	.172	.090	.027	.134	.071	.021	.099	.053	.016	.066	.036	.011	
5.0	.180	.092	.027	.161	.083	.024	.126	.066	.019	.094	.049	.015	.063	.034	.010	
6.0	.169	.085	.024	.152	.077	.022	.119	.061	.018	.089	.046	.014	.061	.032	.009	
7.0	.159	.078	.022	.143	.071	.020	.113	.057	.016	.085	.043	.013	.058	.030	.009	
8.0	.150	.073	.021	.135	.066	.019	.107	.053	.015	.081	.041	.012	.056	.029	.008	
9.0	.141	.068	.019	.128	.062	.017	.101	.050	.014	.077	.038	.011	.053	.027	.008	
10.0	.134	.064	.018	.121	.058	.016	.096	.047	.013	.073	.036	.010	.051	.026	.007	

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	.682	.682	.682	.583	.583	.583	.398	.398	.398	.228	.228	.228	.073	.073	.073	
1.0	.670	.652	.635	.574	.560	.547	.392	.385	.378	.226	.223	.220	.072	.072	.071	
2.0	.661	.631	.605	.566	.543	.523	.388	.376	.365	.224	.219	.214	.072	.071	.070	
3.0	.653	.615	.585	.560	.531	.507	.384	.369	.356	.222	.215	.210	.071	.070	.069	
4.0	.646	.603	.570	.554	.521	.495	.381	.363	.349	.221	.213	.206	.071	.069	.068	
5.0	.640	.594	.560	.549	.514	.487	.378	.359	.344	.219	.211	.204	.071	.069	.067	
6.0	.634	.586	.552	.545	.508	.481	.376	.355	.340	.218	.209	.202	.070	.068	.067	
7.0	.628	.580	.547	.540	.503	.476	.373	.353	.338	.217	.208	.201	.070	.068	.066	
8.0	.623	.575	.542	.536	.499	.473	.371	.350	.335	.216	.207	.200	.070	.068	.066	
9.0	.618	.571	.539	.532	.495	.470	.369	.348	.334	.215	.206	.199	.070	.067	.066	
10.0	.614	.567	.536	.529	.492	.468	.367	.346	.332	.214	.205	.198	.069	.067	.066	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-01-29

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:229.45V I:0.5165A P:117.13W PF:0.9883 Freq:49.99Hz Lamp Flux:16864.3x1 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		5.1	5.9	6.1	6.8	8.1	4.8	5.6	5.8	6.5	7.8
3H		4.8	5.4	5.8	6.4	7.7	4.5	5.1	5.5	6.1	7.4
4H		4.6	5.2	5.6	6.2	7.5	4.3	4.9	5.3	5.9	7.2
6H		4.4	5.0	5.5	6.0	7.3	4.1	4.7	5.2	5.7	7.0
8H		4.3	4.9	5.4	5.9	7.3	4.0	4.6	5.1	5.6	6.9
12H		4.3	4.8	5.3	5.8	7.2	3.9	4.4	5.0	5.5	6.9
4H 2H		4.7	5.3	5.7	6.3	7.6	4.4	5.0	5.4	6.0	7.3
3H		4.3	4.8	5.3	5.8	7.2	4.0	4.5	5.1	5.5	6.9
4H		4.1	4.5	5.2	5.6	7.0	3.8	4.3	4.9	5.3	6.7
6H		3.9	4.3	5.0	5.4	6.8	3.6	4.0	4.7	5.1	6.5
8H		3.8	4.2	4.9	5.3	6.7	3.5	3.9	4.6	5.0	6.4
12H		3.8	4.1	4.9	5.2	6.7	3.4	3.8	4.6	4.9	6.3
8H 4H		3.8	4.2	4.9	5.2	6.7	3.5	3.9	4.6	4.9	6.4
6H		3.6	3.9	4.7	5.0	6.5	3.3	3.6	4.4	4.7	6.2
8H		3.6	3.8	4.7	4.9	6.4	3.2	3.5	4.4	4.6	6.1
12H		3.5	3.8	4.7	4.9	6.4	3.2	3.4	4.3	4.5	6.0
12H 4H		3.7	4.0	4.8	5.1	6.6	3.4	3.7	4.5	4.8	6.3
6H		3.5	3.8	4.7	4.9	6.4	3.2	3.5	4.4	4.6	6.1
8H		3.5	3.7	4.6	4.8	6.3	3.2	3.4	4.3	4.5	6.0
Variations with the observer position at spacings:											
S = 1.0H		+ 2.1 / - 5.5					+ 2.2 / - 6.2				
1.5H		+ 2.6 / - 3.8					+ 2.7 / - 3.8				
2.0H		+ 4.6 / - 8.0					+ 4.7 / - 8.7				

CIE Pub.117, 16864 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 9.8$ )

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-01-29

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

## UTILIZATION FACTORS TABLE

Test:U:229.45V I:0.5165A P:117.13W PF:0.9883 Freq:49.99Hz Lamp Flux:16864.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*40	SERIAL No.:
MFR.: NLT23-0015-04	SUR.:3.14*0.6*0.6	Shielding Angle:

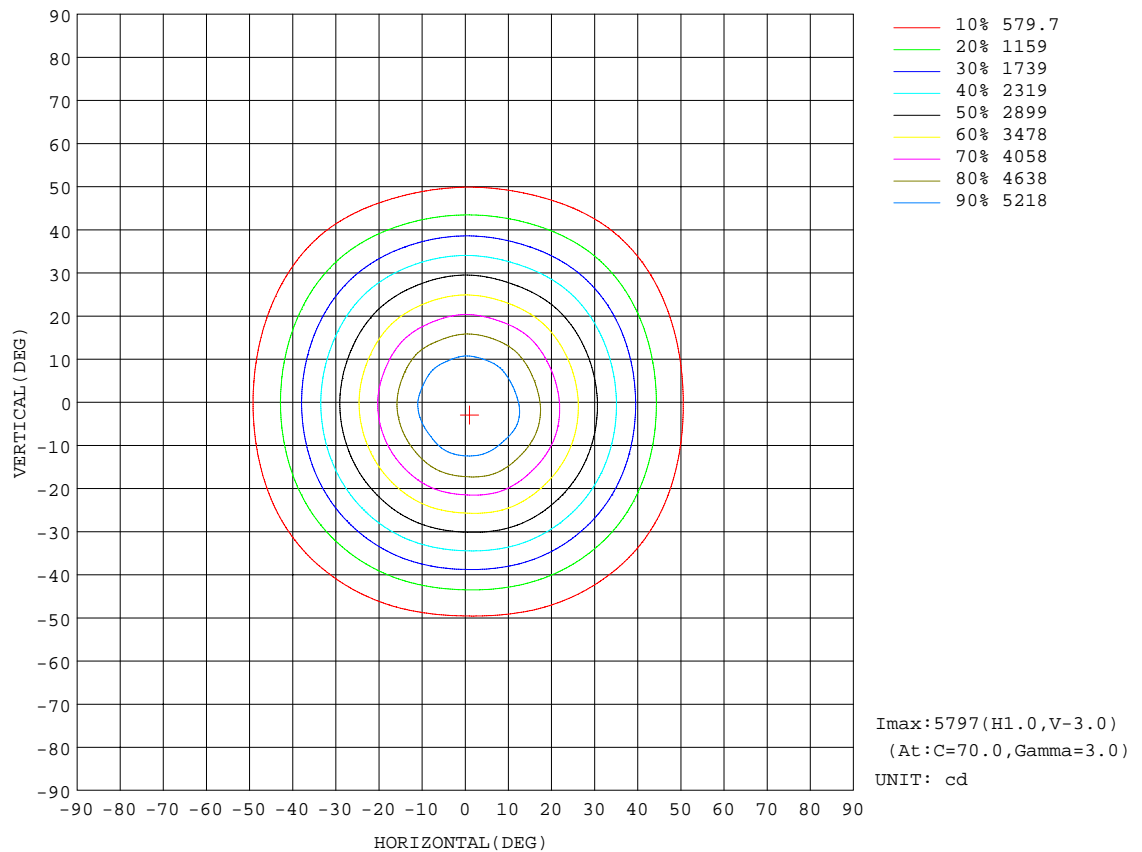
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	48	38	33	45	37	32	39	33	30	22
0.80	57	47	41	53	44	39	46	39	35	25
1.00	63	54	47	59	50	45	50	45	40	28
1.25	70	60	54	64	56	51	54	49	45	30
1.50	74	65	59	68	61	55	57	52	48	31
2.00	80	72	66	74	67	62	61	56	53	32
2.50	84	77	71	77	71	66	63	59	56	32
3.00	87	81	75	79	74	69	65	62	59	33
4.00	91	85	81	83	78	74	68	65	62	34
5.00	93	89	85	85	81	78	69	67	64	34
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-01-29

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

## ISOCANDELA DIAGRAM

Test:U:229.45V I:0.5165A P:117.13W PF:0.9883 Freq:49.99Hz Lamp Flux:16864.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*40	SERIAL No.:
MFR.: NLT23-0015-04	SUR.:3.14*0.6*0.6	Shielding Angle:



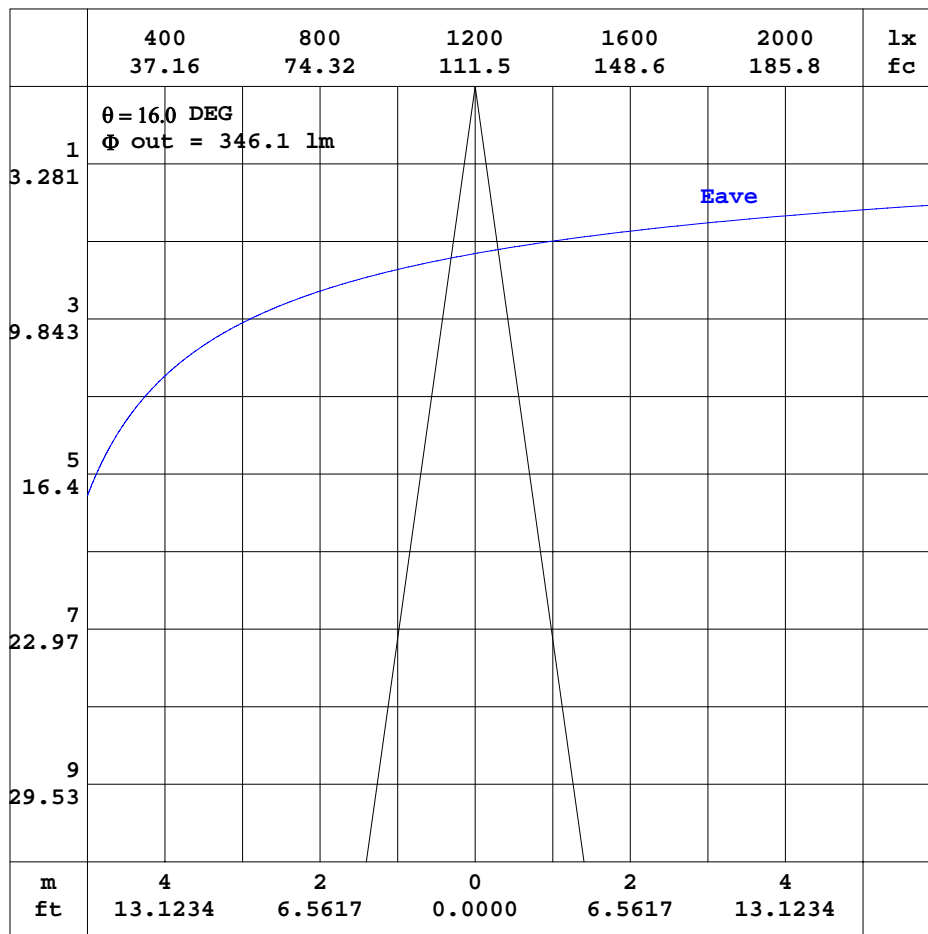
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2024-01-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=0.8547]  
Remarks:



## AAI CURVES

Test:U:229.45V I:0.5165A P:117.13W PF:0.9883 Freq:49.99Hz Lamp Flux:16864.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*40	SERIAL No.:
MFR.: NLT23-0015-04	SUR.:3.14*0.6*0.6	Shielding Angle:



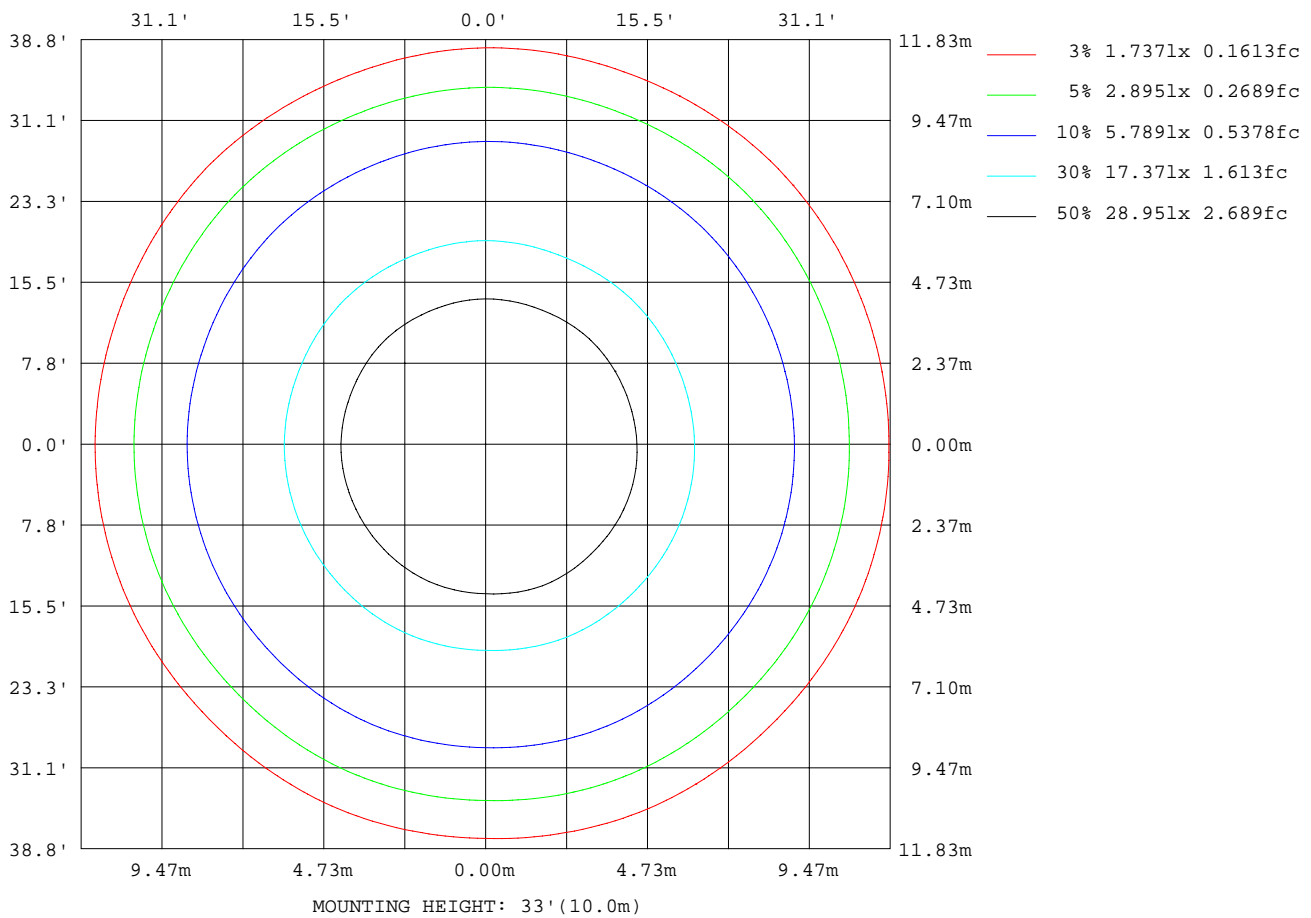
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2024-01-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=0.8547]  
Remarks:

## ISOLUX DIAGRAM

Test:U:229.45V I:0.5165A P:117.13W PF:0.9883 Freq:49.99Hz Lamp Flux:16864.3x1 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: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024-01-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity: 65.0%  
Test Distance: 11.700m [K=0.8547]  
Remarks:

## LED Avg.L Report

Test:U:229.45V I:0.5165A P:117.13W PF:0.9883 Freq:49.99Hz Lamp Flux:16864.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*40	SERIAL No.:
MFR.: NLT23-0015-04	SUR.:3.14*0.6*0.6	Shielding Angle:

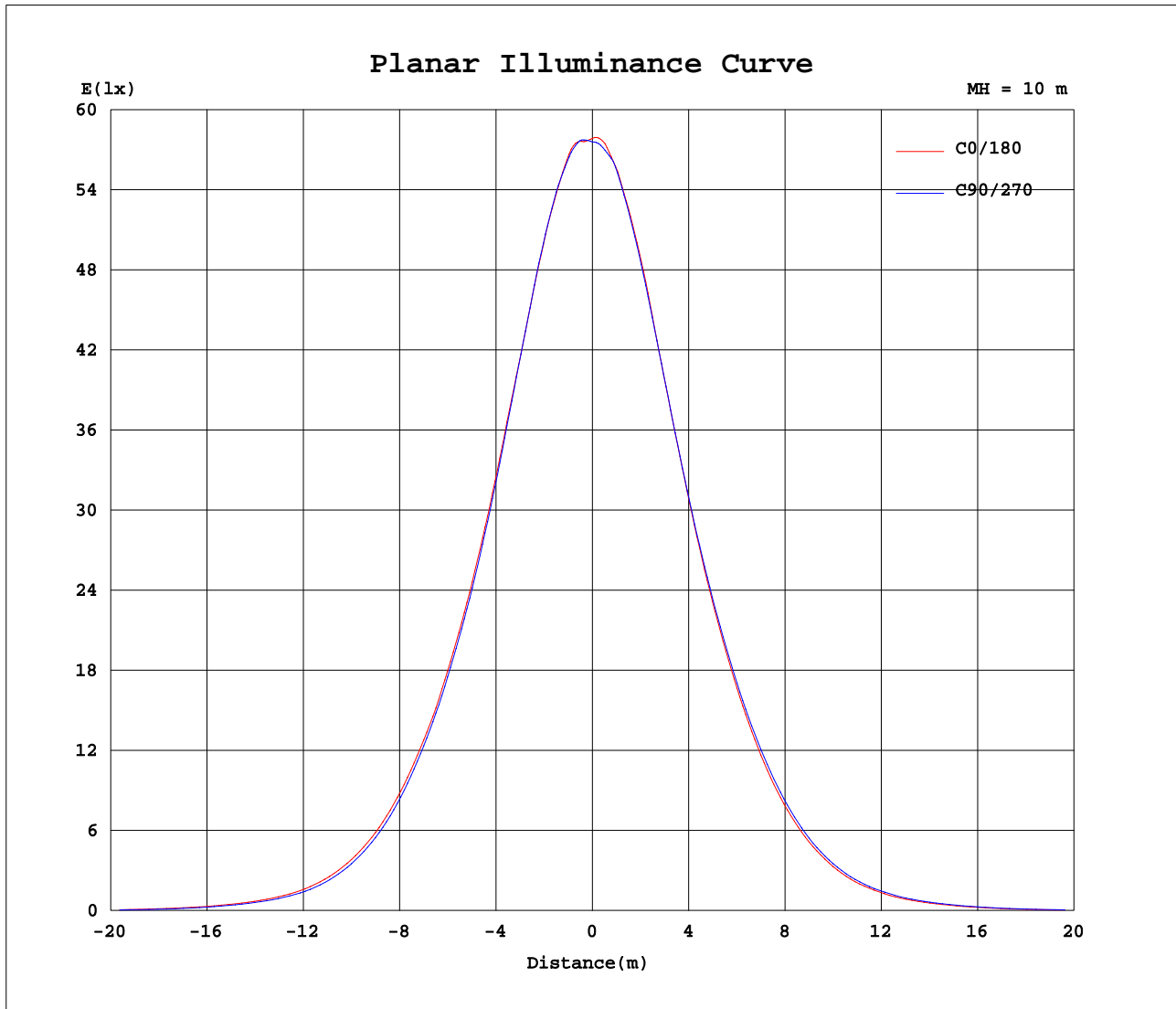
AvgL	cd/m2
L_0~180(65)av	67
L_0~180(75)av	41
L_0~180(85)av	167
L_90~270(65)av	64
L_90~270(75)av	32
L_90~270(85)av	168
L_45(65)av	66
L_45(75)av	34
L_45(85)av	152

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2024-01-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=0.8547]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024-01-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity: 65.0%  
Test Distance: 11.700m [K=0.8547]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.45V I:0.5165A P:117.13W PF:0.9883 Freq:49.99Hz Lamp Flux:16864.3x1 lm																	
NAME:									TYPE:						WEIGHT:		
SPEC.:									DIM.: 1200*40						SERIAL No.:		
MFR.: NLT23-0015-04									SUR.: 3.14*0.6*0.6						Shielding Angle:		

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	5785	5782	5779	5777	5775	5773	5771	5769	5768	5767	5765	5764	5763	5762	5761	5761	5760	5759	5759
5	5770	5774	5777	5778	5778	5775	5770	5765	5760	5757	5761	5767	5773	5777	5772	5772	5765	5756	5747
10	5440	5462	5478	5490	5496	5494	5484	5472	5460	5450	5455	5462	5470	5477	5478	5471	5463	5454	5445
15	4916	4948	4974	4993	5006	5009	5004	4995	4984	4974	4976	4979	4981	4982	4975	4961	4945	4929	4914
20	4302	4323	4340	4353	4361	4362	4358	4351	4343	4336	4341	4346	4350	4352	4344	4326	4306	4286	4266
25	3637	3650	3659	3667	3672	3673	3671	3667	3664	3660	3666	3671	3675	3675	3665	3645	3622	3598	3575
30	2984	2991	2997	3001	3004	3004	3002	2999	2996	2994	2998	3001	3003	3002	2993	2975	2954	2934	2914
35	2326	2332	2337	2340	2341	2340	2337	2333	2328	2324	2324	2324	2323	2319	2310	2295	2278	2262	2246
40	1675	1680	1683	1685	1685	1682	1676	1670	1664	1657	1656	1654	1652	1648	1639	1624	1608	1593	1579
45	1083	1086	1088	1089	1088	1084	1078	1071	1064	1057	1055	1053	1051	1047	1040	1029	1017	1006	995
50	619	622	624	624	623	619	614	608	601	596	595	594	593	591	585	576	566	556	547
55	332	333	333	333	332	331	328	325	322	319	317	315	313	310	306	302	297	293	288
60	145	146	147	147	146	145	144	142	140	137	136	134	133	131	128	124	120	117	113
65	39.6	40.2	40.5	40.6	40.4	40.0	39.3	38.5	37.5	36.4	35.4	34.3	33.2	32.1	31.0	29.9	28.8	27.8	26.8
70	9.39	9.89	10.3	10.5	10.6	10.5	10.2	9.88	9.46	8.99	8.57	8.13	7.69	7.25	6.84	6.44	6.07	5.71	5.38
75	10.8	11.3	11.6	11.8	12.0	12.0	11.9	11.8	11.5	11.1	10.5	9.88	9.16	8.41	7.68	6.98	6.31	5.70	5.15
80	14.3	14.2	14.1	14.0	13.9	13.7	13.5	13.2	12.9	12.6	12.3	12.0	11.7	11.2	10.8	10.2	9.58	8.96	8.33
85	18.4	18.3	18.1	17.9	17.5	17.1	16.5	15.9	15.3	14.7	14.3	13.9	13.6	13.2	12.6	12.0	11.3	10.5	9.77
90	0.99	0.97	0.96	0.96	0.98	1.01	1.07	1.13	1.19	1.24	1.24	1.24	1.24	1.24	1.25	1.29	1.34	1.39	1.44
95	42.2	42.8	43.2	43.6	43.8	44.0	44.1	44.1	44.0	43.7	43.3	42.7	42.0	41.3	40.5	39.6	38.7	37.8	37.0
100	218	215	213	212	210	210	210	209	209	206	203	200	196	194	192	190	188	186	
105	570	561	553	547	542	540	540	541	542	543	540	536	532	527	522	518	514	510	506
110	981	968	958	950	945	943	944	947	950	953	950	946	941	936	928	919	910	902	895
115	1388	1373	1361	1351	1344	1340	1340	1342	1343	1345	1341	1337	1331	1324	1315	1304	1294	1285	1277
120	1764	1750	1738	1729	1721	1717	1716	1716	1716	1716	1714	1710	1706	1700	1691	1681	1670	1660	1652
125	2112	2099	2087	2078	2071	2066	2065	2064	2064	2063	2059	2054	2049	2043	2036	2028	2020	2013	2007
130	2427	2415	2404	2395	2388	2384	2381	2380	2379	2378	2373	2368	2362	2356	2350	2344	2338	2332	2328
135	2709	2697	2687	2678	2671	2666	2664	2662	2661	2659	2653	2648	2642	2636	2630	2626	2622	2618	2616
140	2957	2946	2937	2928	2921	2917	2914	2912	2910	2908	2903	2897	2891	2886	2881	2878	2875	2873	2871
145	3174	3163	3154	3146	3139	3134	3131	3129	3127	3125	3120	3115	3110	3105	3101	3099	3097	3096	3095
150	3360	3350	3340	3332	3326	3321	3318	3315	3313	3311	3307	3303	3298	3294	3291	3290	3289	3288	3287
155	3515	3504	3495	3488	3481	3477	3474	3472	3470	3469	3465	3461	3458	3454	3452	3451	3451	3451	3450
160	3639	3630	3621	3614	3608	3604	3602	3600	3599	3598	3595	3592	3589	3586	3584	3583	3583	3583	3583
165	3737	3728	3720	3714	3708	3705	3703	3701	3700	3700	3697	3695	3693	3691	3690	3690	3690	3690	3691
170	3806	3797	3791	3785	3780	3777	3776	3776	3776	3776	3774	3773	3771	3770	3769	3769	3769	3769	3770
175	3847	3840	3834	3829	3825	3823	3822	3823	3823	3824	3823	3822	3822	3821	3821	3821	3822	3822	3823
180	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024-01-29

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity: 65.0%  
Test Distance: 11.700m [K=0.8547]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.45V I:0.5165A P:117.13W PF:0.9883 Freq:49.99Hz Lamp Flux:16864.3x1 lm																		
NAME:									TYPE:					WEIGHT:				
SPEC.:									DIM.: 1200*40					SERIAL No.:				
MFR.: NLT23-0015-04									SUR.: 3.14*0.6*0.6					Shielding Angle:				

Table--2

UNIT: cd

C(DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	5757	5756	5755	5753	5753	5753	5754	5754	5754	5753	5751	5750	5750	5755	5763	5771	5779	5785	5785
5	5738	5728	5718	5709	5700	5691	5683	5677	5672	5672	5674	5676	5679	5680	5680	5679	5677	5675	5671
10	5443	5440	5437	5431	5417	5395	5373	5351	5332	5327	5326	5326	5328	5328	5325	5321	5316	5310	5300
15	4911	4910	4907	4903	4891	4870	4847	4824	4802	4789	4778	4769	4762	4757	4753	4749	4746	4743	4736
20	4256	4249	4241	4234	4221	4204	4186	4168	4151	4140	4130	4122	4116	4111	4107	4104	4101	4097	4088
25	3566	3559	3553	3547	3536	3520	3503	3486	3470	3459	3449	3441	3434	3431	3429	3429	3429	3428	3422
30	2906	2900	2894	2888	2877	2862	2846	2830	2815	2806	2798	2792	2788	2785	2783	2782	2782	2780	2774
35	2238	2232	2227	2221	2211	2198	2183	2169	2156	2147	2140	2133	2129	2125	2123	2121	2120	2119	2115
40	1575	1572	1569	1566	1558	1544	1530	1517	1504	1498	1494	1492	1490	1489	1489	1488	1488	1488	1486
45	990	987	984	980	973	963	953	944	935	932	931	931	932	933	933	933	933	933	931
50	546	547	548	548	545	537	530	522	516	516	518	520	522	524	525	525	525	525	523
55	286	283	281	279	277	275	273	271	269	268	268	268	268	268	268	269	269	270	270
60	112	110	109	108	106	105	103	101	100	99.8	99.9	100	101	102	102	103	104	105	105
65	26.1	25.5	25.0	24.5	23.9	23.3	22.8	22.3	22.0	22.0	22.1	22.3	22.6	22.9	23.3	23.7	24.2	24.7	25.3
70	5.07	4.79	4.54	4.31	4.09	3.89	3.73	3.61	3.55	3.55	3.63	3.79	4.05	4.43	4.93	5.55	6.28	7.13	8.23
75	4.76	4.45	4.22	4.06	3.96	3.92	3.95	4.03	4.17	4.16	4.27	4.55	5.07	6.18	7.86	9.68	11.5	13.3	14.4
80	7.65	7.00	6.41	5.91	5.53	5.30	5.24	5.37	5.73	6.52	7.52	8.72	10.1	11.7	13.5	15.2	16.9	18.4	19.3
85	9.07	8.40	7.79	7.25	6.78	6.40	6.15	6.06	6.14	6.60	7.23	8.01	8.92	9.90	10.9	12.0	13.2	14.4	15.8
90	1.50	1.56	1.61	1.65	1.67	1.67	1.66	1.65	1.63	1.60	1.58	1.57	1.59	1.69	1.85	2.03	2.19	2.34	2.35
95	36.3	35.6	35.1	34.8	34.7	35.0	35.3	35.6	35.9	35.6	35.1	34.7	34.2	34.2	34.5	34.7	34.9	34.9	34.0
100	184	181	179	177	176	177	179	180	182	182	181	181	181	182	184	187	189	190	190
105	500	495	491	487	488	493	498	503	507	505	502	498	496	499	506	515	523	530	532
110	892	891	891	893	896	902	908	913	916	911	904	898	893	896	906	917	928	938	938
115	1276	1276	1279	1282	1288	1294	1301	1306	1310	1305	1299	1293	1289	1292	1302	1314	1325	1335	1336
120	1651	1653	1656	1660	1665	1670	1675	1679	1682	1679	1675	1671	1668	1672	1683	1694	1705	1716	1716
125	2005	2004	2005	2007	2011	2016	2021	2026	2030	2028	2026	2024	2023	2027	2036	2046	2056	2065	2066
130	2326	2325	2325	2326	2329	2334	2339	2344	2348	2348	2347	2346	2347	2351	2359	2367	2376	2383	2384
135	2614	2613	2613	2614	2616	2620	2625	2629	2633	2634	2634	2635	2636	2640	2647	2654	2661	2668	2670
140	2869	2868	2867	2868	2870	2873	2878	2882	2886	2888	2889	2890	2892	2896	2902	2909	2915	2921	2923
145	3093	3092	3091	3091	3092	3096	3099	3103	3107	3109	3111	3113	3115	3119	3125	3131	3136	3142	3144
150	3286	3285	3284	3284	3285	3288	3291	3295	3298	3300	3302	3304	3306	3310	3316	3321	3327	3331	3333
155	3449	3448	3447	3446	3447	3450	3453	3456	3459	3461	3463	3465	3467	3471	3476	3482	3486	3491	3491
160	3582	3582	3582	3582	3583	3585	3587	3590	3592	3594	3595	3597	3599	3603	3607	3612	3617	3620	3620
165	3690	3690	3689	3689	3690	3691	3693	3695	3697	3699	3701	3703	3705	3708	3712	3716	3719	3722	3721
170	3770	3770	3770	3770	3771	3772	3774	3775	3777	3778	3779	3781	3783	3785	3788	3791	3794	3796	3794
175	3823	3824	3824	3825	3825	3826	3827	3828	3829	3830	3831	3832	3833	3835	3837	3840	3841	3842	3839
180	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024-01-29

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity: 65.0%  
Test Distance: 11.700m [K=0.8547]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.45V I:0.5165A P:117.13W PF:0.9883 Freq:49.99Hz Lamp Flux:16864.3x1 lm																		
NAME:									TYPE:					WEIGHT:				
SPEC.:									DIM.: 1200*40					SERIAL No.:				
MFR.: NLT23-0015-04									SUR.: 3.14*0.6*0.6					Shielding Angle:				

Table--3

UNIT: cd

C(DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	5783	5779	5775	5773	5771	5769	5768	5767	5765	5764	5763	5762	5761	5761	5760	5759	5759	5757	5756
5	5667	5663	5660	5660	5663	5667	5670	5671	5664	5656	5648	5642	5643	5650	5659	5667	5674	5669	5662
10	5289	5279	5270	5266	5266	5267	5269	5271	5266	5261	5256	5253	5255	5262	5271	5279	5287	5286	5284
15	4729	4723	4719	4720	4726	4733	4739	4742	4733	4721	4709	4700	4698	4706	4715	4727	4738	4743	4747
20	4079	4071	4064	4064	4069	4075	4082	4087	4081	4075	4068	4063	4065	4073	4083	4093	4102	4100	4097
25	3416	3410	3406	3408	3415	3423	3431	3438	3436	3434	3431	3429	3432	3439	3447	3455	3463	3461	3459
30	2768	2762	2758	2760	2767	2775	2784	2791	2792	2792	2792	2792	2798	2808	2818	2828	2835	2830	2823
35	2111	2109	2108	2111	2120	2130	2140	2149	2153	2155	2157	2160	2165	2174	2182	2190	2196	2193	2189
40	1483	1482	1482	1485	1492	1500	1508	1516	1519	1521	1523	1526	1531	1539	1547	1555	1562	1563	1564
45	929	928	927	930	936	943	949	956	958	959	960	962	966	972	979	986	992	994	997
50	521	520	519	522	528	534	541	546	545	544	543	542	545	551	558	565	572	573	573
55	271	271	272	274	277	280	283	285	286	286	287	288	289	292	295	297	300	302	304
60	106	107	107	109	111	113	115	116	117	117	117	117	118	120	122	124	126	126	127
65	25.8	26.5	27.2	28.0	28.9	29.8	30.6	31.3	31.5	31.6	31.7	31.8	32.1	32.8	33.4	34.0	34.5	34.4	34.2
70	9.41	10.6	11.8	13.0	14.0	14.9	15.6	16.1	16.3	16.3	16.0	15.6	15.0	14.3	13.5	12.6	11.7	10.8	9.87
75	15.4	16.1	16.7	17.1	17.4	17.5	17.5	17.5	17.8	17.9	18.0	17.9	17.5	16.7	15.7	14.7	13.6	12.4	11.3
80	19.9	20.4	20.8	21.2	21.6	22.0	22.3	22.4	22.3	22.1	21.8	21.4	21.2	21.0	20.8	20.5	20.0	18.9	17.7
85	17.1	18.4	19.5	20.5	21.1	21.6	22.0	22.4	22.7	22.9	23.1	23.2	23.4	23.6	23.7	23.6	23.4	22.5	21.5
90	2.33	2.29	2.23	2.19	2.16	2.14	2.12	2.10	2.07	2.05	2.03	2.01	2.01	2.02	2.03	2.03	2.03	1.98	1.93
95	32.9	31.8	30.6	29.8	29.3	28.9	28.7	28.5	28.2	28.0	27.8	27.7	27.8	28.0	28.3	28.7	29.3	30.2	31.3
100	189	188	187	186	185	184	184	184	185	186	188	189	189	187	185	183	183	187	193
105	531	530	529	527	527	527	528	529	535	541	547	551	551	547	542	537	534	541	549
110	935	932	928	927	928	931	935	940	949	958	967	974	973	966	958	950	945	953	964
115	1334	1331	1329	1328	1330	1333	1338	1343	1354	1364	1374	1382	1382	1374	1365	1357	1352	1362	1375
120	1715	1714	1712	1712	1714	1718	1723	1729	1739	1750	1759	1767	1768	1761	1754	1747	1742	1751	1761
125	2066	2065	2064	2065	2069	2074	2080	2087	2097	2107	2116	2124	2125	2120	2114	2109	2104	2111	2119
130	2385	2385	2385	2387	2391	2396	2402	2408	2417	2426	2435	2442	2444	2442	2439	2436	2434	2439	2445
135	2671	2672	2673	2676	2680	2685	2690	2696	2704	2712	2720	2726	2730	2729	2728	2727	2726	2730	2735
140	2924	2925	2927	2929	2933	2938	2943	2949	2956	2963	2970	2976	2979	2980	2980	2980	2980	2984	2988
145	3145	3146	3147	3150	3153	3158	3162	3167	3173	3180	3185	3191	3194	3196	3197	3197	3198	3201	3204
150	3333	3334	3334	3336	3340	3344	3348	3353	3358	3363	3369	3373	3376	3378	3379	3380	3381	3384	3387
155	3491	3491	3491	3492	3495	3499	3503	3507	3511	3516	3520	3524	3527	3528	3530	3531	3533	3535	3537
160	3619	3618	3617	3618	3620	3623	3627	3630	3634	3638	3642	3645	3648	3650	3651	3653	3654	3656	3657
165	3719	3717	3716	3716	3718	3720	3723	3726	3729	3732	3735	3737	3739	3741	3742	3743	3744	3746	3748
170	3791	3788	3786	3785	3786	3788	3791	3793	3796	3798	3800	3802	3803	3804	3805	3806	3807	3808	3810
175	3835	3831	3828	3827	3827	3828	3830	3832	3833	3835	3836	3837	3838	3839	3840	3841	3841	3842	3844
180	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024-01-29

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity: 65.0%  
Test Distance: 11.700m [K=0.8547]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.45V I:0.5165A P:117.13W PF:0.9883 Freq:49.99Hz Lamp Flux:16864.3x1 lm																	
NAME:									TYPE:						WEIGHT:		
SPEC.:									DIM.: 1200*40						SERIAL No.:		
MFR.: NLT23-0015-04									SUR.:3.14*0.6*0.6						Shielding Angle:		

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	5755	5753	5753	5753	5754	5754	5754	5753	5751	5750	5750	5753	5758	5766	5774				
5	5655	5648	5647	5651	5657	5665	5674	5682	5691	5700	5710	5721	5732	5744	5757				
10	5283	5282	5288	5299	5311	5325	5338	5344	5349	5355	5362	5372	5386	5402	5420				
15	4751	4757	4767	4780	4795	4809	4821	4825	4827	4830	4834	4842	4856	4873	4893				
20	4096	4096	4107	4127	4149	4171	4191	4194	4195	4195	4197	4206	4223	4245	4271				
25	3458	3459	3466	3481	3498	3515	3532	3540	3548	3555	3563	3573	3586	3602	3619				
30	2816	2812	2817	2832	2850	2869	2887	2896	2904	2911	2919	2928	2940	2954	2968				
35	2186	2185	2191	2206	2222	2239	2255	2264	2271	2277	2283	2290	2299	2308	2317				
40	1565	1567	1573	1584	1596	1609	1621	1629	1635	1641	1647	1652	1658	1664	1669				
45	999	1003	1010	1021	1033	1045	1055	1061	1064	1067	1069	1072	1075	1078	1080				
50	573	574	577	585	592	600	607	610	612	613	614	615	616	617	618				
55	305	307	310	313	316	320	323	325	326	328	329	330	331	331	332				
60	128	129	130	133	135	138	140	141	142	142	143	143	144	144	145				
65	33.9	33.8	34.0	34.6	35.3	36.1	36.8	37.2	37.5	37.7	38.0	38.3	38.6	38.9	39.3				
70	9.04	8.31	7.79	7.47	7.28	7.18	7.17	7.20	7.29	7.44	7.65	7.90	8.20	8.55	8.94				
75	10.2	9.27	8.48	7.89	7.44	7.13	6.96	6.98	7.13	7.39	7.76	8.21	8.74	9.35	10.1				
80	16.4	15.1	14.0	13.0	12.2	11.6	11.2	11.3	11.5	11.9	12.4	12.8	13.1	13.5	13.9				
85	20.3	19.2	18.3	17.7	17.2	16.8	16.6	16.3	16.2	16.1	16.2	16.4	16.7	17.2	17.7				
90	1.87	1.81	1.77	1.74	1.72	1.70	1.68	1.68	1.67	1.65	1.61	1.54	1.44	1.31	1.16				
95	32.4	33.6	34.8	35.9	37.1	38.2	39.2	40.1	40.8	41.4	41.9	42.3	42.5	42.5	42.4				
100	199	205	209	210	211	211	211	212	214	215	216	217	217	218	218				
105	558	567	572	573	573	572	571	570	569	568	568	567	568	568	569				
110	975	986	993	995	995	993	990	984	978	972	967	965	966	969	974				
115	1388	1401	1407	1406	1403	1399	1393	1389	1385	1382	1379	1378	1378	1380	1383				
120	1773	1783	1788	1785	1781	1775	1769	1763	1758	1754	1751	1750	1751	1754	1758				
125	2127	2135	2140	2139	2137	2134	2130	2125	2120	2114	2110	2107	2106	2107	2109				
130	2451	2457	2459	2459	2456	2454	2450	2448	2445	2443	2440	2438	2435	2432	2430				
135	2739	2744	2745	2744	2742	2739	2736	2734	2732	2730	2727	2724	2721	2717	2713				
140	2991	2995	2996	2994	2992	2989	2986	2984	2982	2980	2978	2975	2972	2967	2963				
145	3207	3209	3209	3208	3206	3203	3200	3199	3198	3197	3195	3192	3189	3185	3180				
150	3389	3391	3391	3390	3388	3386	3383	3382	3381	3380	3378	3376	3373	3369	3365				
155	3539	3541	3541	3539	3538	3536	3533	3533	3532	3531	3530	3528	3525	3522	3519				
160	3659	3660	3660	3659	3658	3656	3655	3654	3654	3653	3652	3651	3649	3646	3643				
165	3749	3750	3750	3750	3749	3749	3748	3747	3747	3746	3745	3744	3743	3741	3739				
170	3811	3812	3812	3812	3812	3812	3811	3812	3812	3811	3811	3811	3810	3809	3807				
175	3844	3845	3846	3846	3846	3847	3847	3847	3847	3847	3848	3848	3848	3848	3847				
180	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859				

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2024-01-29

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=0.8547]  
Remarks: