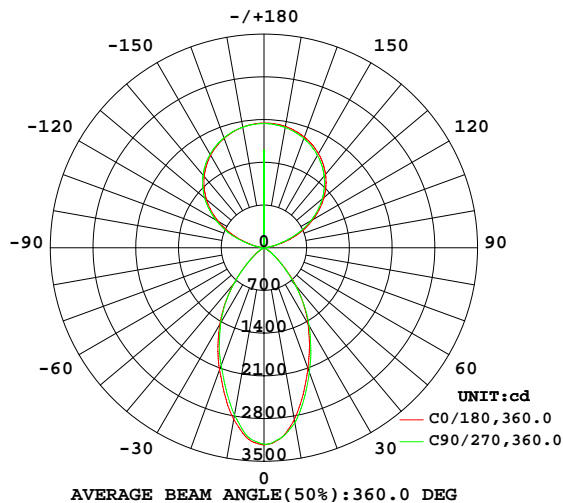


## LUMINAIRE PHOTOMETRIC TEST REPORT

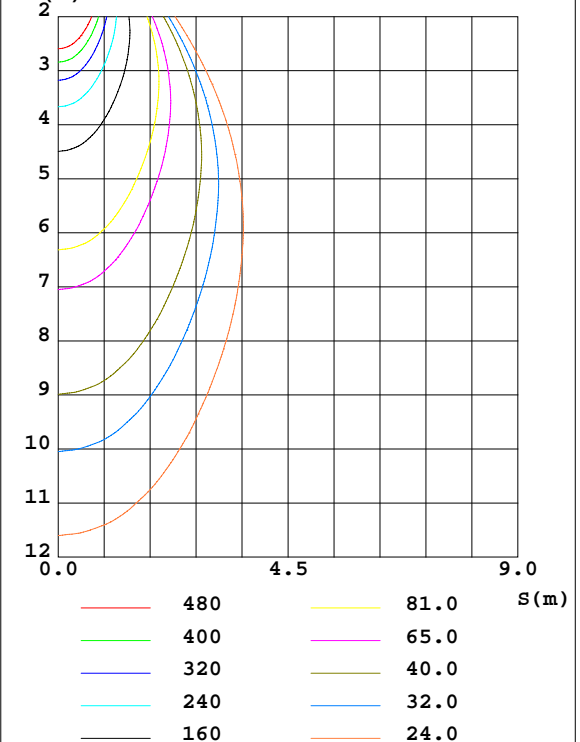
Test:U:229.49V I:0.2557A P:57.893W PF:0.9867 Freq:49.99Hz Lamp Flux:8733.02x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLT23-0015-01	SUR.:3.14*0.325*0.325	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 150.85 lm/W			
MODEL		I <sub>max</sub> (cd)	3231	S/MH(C0/180)	0.80
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	0.78
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	8733.0	η UP,DN(C0-180)	32.4,17.7
NOMINAL FLUX(lm)	8733.02	CIE CLASS	SEMI-IND.	η UP,DN(C180-360)	32.8,17.1
LAMPS INSIDE	1	η up(%)	65.2	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	230.0	η down(%)	34.8	CIBSE SHR MAX	0.90

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

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:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

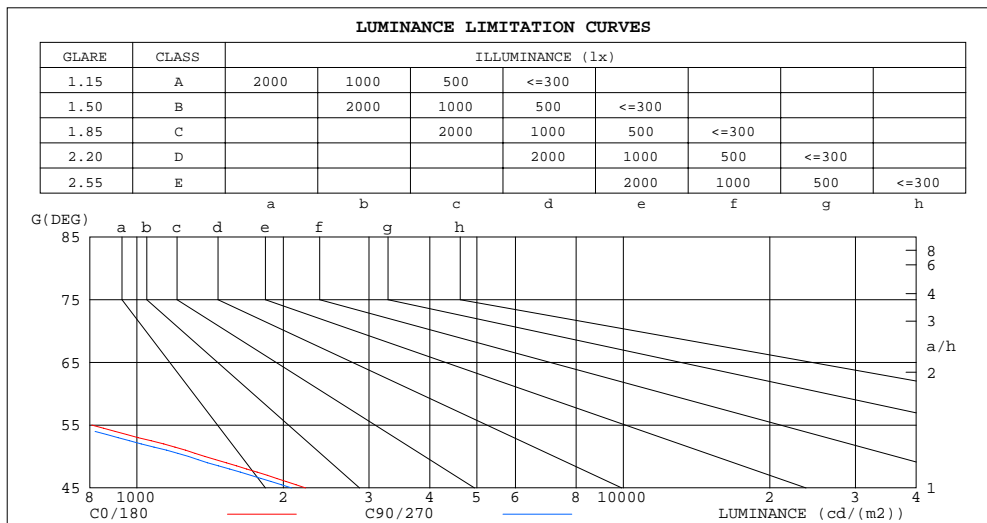
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\%lum, lamp$
10	2859	2881	2913	2888	2855	2783	2783	2818	0- 10	288.5	288.5	3.3,3.3
20	2104	2197	2174	2130	2131	2028	2054	2087	10- 20	691.8	980.3	11.2,11.2
30	1447	1511	1479	1432	1446	1368	1417	1447	20- 30	812.1	1792	20.5,20.5
40	817.0	840.4	796.7	769.7	775.1	736.0	766.4	793.1	30- 40	692.9	2485	28.5,28.5
50	293.9	291.6	272.1	257.4	253.1	251.4	254.8	275.8	40- 50	382.6	2868	32.8,32.8
60	64.58	66.67	57.13	52.48	47.39	49.38	53.71	56.00	50- 60	128.8	2997	34.3,34.3
70	7.934	12.76	14.23	7.286	5.144	12.27	14.44	9.282	60- 70	22.77	3019	34.6,34.6
80	9.374	12.49	11.89	7.224	5.389	11.23	14.29	12.14	70- 80	11.56	3031	34.7,34.7
90	0.4296	0.3866	0.4296	1.117	1.160	0.6443	0.8763	0.5412	80- 90	5.971	3037	34.8,34.8
100	111.9	100.2	88.87	71.92	76.74	80.65	107.6	112.9	90-100	28.70	3066	35.1,35.1
110	518.3	501.8	455.6	450.6	444.7	464.4	496.2	521.1	100-110	287.1	3353	38.4,38.4
120	925.2	919.6	887.4	865.8	860.7	890.1	912.3	938.4	110-120	686.6	4039	46.3,46.3
130	1284	1269	1247	1228	1230	1246	1269	1295	120-130	968.8	5008	57.3,57.3
140	1570	1550	1533	1522	1526	1534	1554	1575	130-140	1086	6095	69.8,69.8
150	1785	1764	1753	1745	1750	1753	1768	1785	140-150	1039	7134	81.7,81.7
160	1932	1913	1908	1904	1909	1906	1918	1930	150-160	850.9	7985	91.4,91.4
170	2019	2004	2002	2002	2007	2000	2007	2015	160-170	555.5	8540	97.8,97.8
180	2045	2045	2045	2045	2045	2045	2045	2045	170-180	192.9	8733	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:229.49V I:0.2557A P:57.893W PF:0.9867 Freq:49.99Hz Lamp Flux:8733.02x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLT23-0015-01	SUR.:3.14*0.325*0.325	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	238	249
80	163	207
75	98	166
70	70	125
65	140	144
60	389	345
55	808	735
50	1379	1276
45	2223	2079

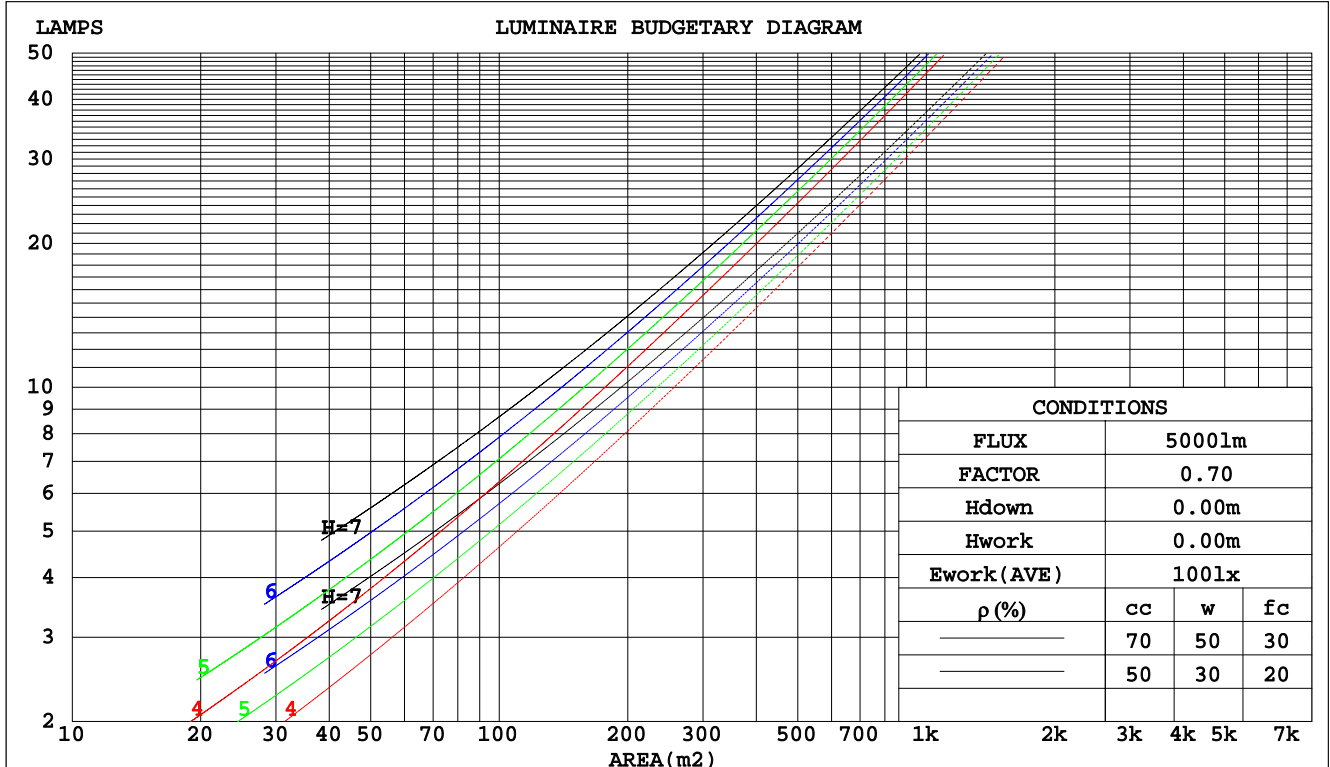
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2024-01-29

$\gamma$  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:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.49V I:0.2557A P:57.893W PF:0.9867 Freq:49.99Hz Lamp Flux:8733.02x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLT23-0015-01	SUR.:3.14*0.325*0.325	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	1.04	1.04	1.04	.94	.94	.94	.75	.75	.75	.58	.58	.58	.42	.42	.42	.35
1.0	.92	.89	.86	.84	.81	.78	.68	.66	.64	.53	.52	.51	.39	.39	.38	.32
2.0	.82	.77	.73	.75	.71	.67	.61	.58	.56	.48	.46	.45	.37	.36	.35	.29
3.0	.74	.67	.62	.67	.62	.58	.55	.52	.49	.44	.42	.40	.34	.33	.31	.27
4.0	.66	.60	.54	.61	.55	.50	.50	.46	.43	.41	.38	.36	.31	.30	.29	.25
5.0	.60	.53	.48	.55	.49	.45	.46	.42	.38	.37	.34	.32	.29	.28	.26	.23
6.0	.55	.47	.42	.50	.44	.40	.42	.38	.34	.34	.31	.29	.27	.25	.24	.21
7.0	.50	.43	.38	.46	.40	.36	.39	.34	.31	.32	.29	.26	.25	.24	.22	.19
8.0	.46	.39	.34	.42	.36	.32	.36	.31	.28	.30	.27	.24	.24	.22	.20	.18
9.0	.42	.35	.31	.39	.33	.29	.33	.29	.26	.28	.25	.22	.22	.20	.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

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:

## WEC AND CCEC

Test:U:229.49V I:0.2557A P:57.893W PF:0.9867 Freq:49.99Hz Lamp Flux:8733.02x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.: 650*40			SERIAL No.:		
MFR.: NLT23-0015-01			SUR.:3.14*0.325*0.325			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	.236	.134	.042	.209	.119	.038	.159	.091	.029	.114	.066	.021	.071	.041	.013		
2.0	.220	.120	.037	.196	.108	.033	.150	.084	.026	.109	.061	.019	.070	.040	.012		
3.0	.205	.109	.033	.183	.098	.029	.141	.077	.023	.103	.056	.017	.067	.037	.012		
4.0	.192	.100	.029	.171	.090	.026	.133	.071	.021	.098	.052	.016	.065	.035	.011		
5.0	.179	.091	.026	.161	.083	.024	.125	.065	.019	.093	.049	.015	.062	.033	.010		
6.0	.168	.084	.024	.151	.076	.022	.118	.061	.018	.088	.046	.013	.059	.031	.009		
7.0	.158	.078	.022	.142	.071	.020	.112	.057	.016	.084	.043	.012	.057	.030	.009		
8.0	.149	.073	.021	.134	.066	.019	.106	.053	.015	.080	.040	.012	.055	.028	.008		
9.0	.141	.068	.019	.127	.062	.017	.101	.050	.014	.076	.038	.011	.052	.027	.008		
10.0	.133	.064	.018	.121	.058	.016	.096	.047	.013	.072	.036	.010	.050	.025	.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	.687	.687	.687	.588	.588	.588	.401	.401	.401	.230	.230	.230	.074	.074	.074	
1.0	.676	.658	.641	.579	.565	.552	.396	.388	.382	.228	.225	.222	.073	.072	.072	
2.0	.667	.637	.611	.571	.548	.528	.392	.379	.368	.226	.221	.216	.072	.071	.070	
3.0	.659	.621	.591	.565	.536	.512	.388	.372	.359	.224	.217	.212	.072	.071	.069	
4.0	.652	.609	.576	.559	.526	.501	.385	.367	.353	.223	.215	.209	.072	.070	.069	
5.0	.646	.600	.566	.554	.519	.492	.382	.362	.348	.221	.213	.206	.071	.069	.068	
6.0	.640	.592	.558	.550	.513	.486	.379	.359	.344	.220	.211	.204	.071	.069	.068	
7.0	.634	.586	.553	.545	.508	.482	.377	.356	.341	.219	.210	.203	.071	.069	.067	
8.0	.629	.581	.548	.541	.504	.478	.375	.354	.339	.218	.209	.202	.070	.068	.067	
9.0	.624	.577	.545	.538	.501	.475	.372	.352	.337	.217	.208	.201	.070	.068	.067	
10.0	.620	.573	.542	.534	.498	.473	.371	.350	.336	.216	.207	.201	.070	.068	.067	

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:229.49V I:0.2557A P:57.893W PF:0.9867 Freq:49.99Hz Lamp Flux:8733.02x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 650*40			SERIAL No.:			
MFR.: NLT23-0015-01					SUR.:3.14*0.325*0.325			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	6.6	7.3	7.6	8.3	9.6	6.5	7.3	7.5	8.2	9.5
	3H	6.3	6.9	7.3	7.9	9.2	6.2	6.9	7.2	7.9	9.2
	4H	6.1	6.7	7.1	7.7	9.0	6.1	6.7	7.1	7.7	9.0
	6H	5.9	6.5	7.0	7.5	8.9	5.9	6.5	7.0	7.5	8.8
	8H	5.9	6.4	6.9	7.4	8.8	5.8	6.4	6.9	7.4	8.8
12H	5.8	6.3	6.9	7.3	8.7	5.8	6.3	6.8	7.3	8.7	
4H	2H	6.2	6.7	7.2	7.8	9.1	6.1	6.7	7.1	7.7	9.0
	3H	5.8	6.3	6.9	7.3	8.7	5.7	6.2	6.8	7.3	8.7
	4H	5.6	6.1	6.7	7.1	8.5	5.6	6.0	6.7	7.1	8.5
	6H	5.5	5.8	6.6	6.9	8.4	5.5	5.9	6.6	6.9	8.4
	8H	5.4	5.8	6.5	6.8	8.3	5.4	5.8	6.5	6.8	8.3
12H	5.3	5.7	6.4	6.7	8.2	5.4	5.7	6.5	6.8	8.2	
8H	4H	5.3	5.7	6.4	6.8	8.2	5.3	5.7	6.4	6.7	8.2
	6H	5.2	5.5	6.3	6.6	8.1	5.2	5.5	6.3	6.6	8.1
	8H	5.2	5.4	6.3	6.5	8.0	5.2	5.4	6.3	6.5	8.1
	12H	5.1	5.3	6.3	6.5	8.0	5.2	5.4	6.3	6.5	8.0
12H	4H	5.2	5.6	6.4	6.7	8.1	5.2	5.5	6.3	6.6	8.1
	6H	5.1	5.4	6.3	6.5	8.0	5.1	5.4	6.3	6.5	8.0
	8H	5.1	5.3	6.2	6.4	8.0	5.1	5.3	6.3	6.5	8.0
Variations with the observer position at spacings:											
S = 1.0H	+ 2.1 / - 5.2					+ 2.1 / - 5.2					
1.5H	+ 2.6 / - 3.8					+ 2.7 / - 3.8					
2.0H	+ 4.6 / - 6.5					+ 4.5 / - 5.7					

CIE Pub.117, 8733 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 7.5$ )

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:229.49V I:0.2557A P:57.893W PF:0.9867 Freq:49.99Hz Lamp Flux:8733.02x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLT23-0015-01	SUR.:3.14*0.325*0.325	Shielding Angle:

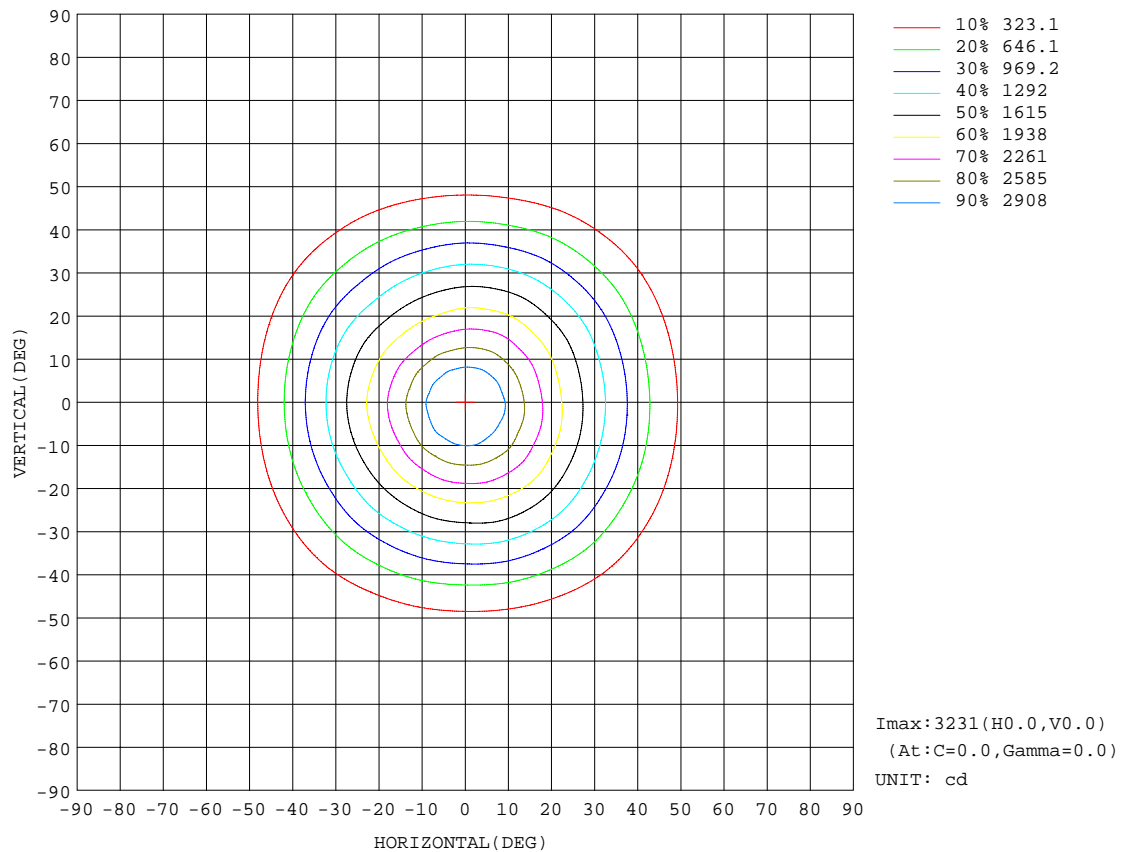
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	48	38	33	45	36	32	39	33	29	22
0.80	56	47	41	52	44	39	45	39	35	25
1.00	63	53	47	58	50	45	50	44	40	27
1.25	69	60	53	64	56	50	54	48	44	29
1.50	74	65	59	68	60	55	57	52	48	30
2.00	80	72	66	73	66	61	61	56	52	31
2.50	84	77	71	77	70	66	63	59	56	32
3.00	87	80	75	79	74	69	65	61	58	32
4.00	91	85	81	82	78	74	67	64	62	33
5.00	93	88	84	85	81	77	69	66	64	33
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:229.49V I:0.2557A P:57.893W PF:0.9867 Freq:49.99Hz Lamp Flux:8733.02x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLT23-0015-01	SUR.:3.14*0.325*0.325	Shielding Angle:



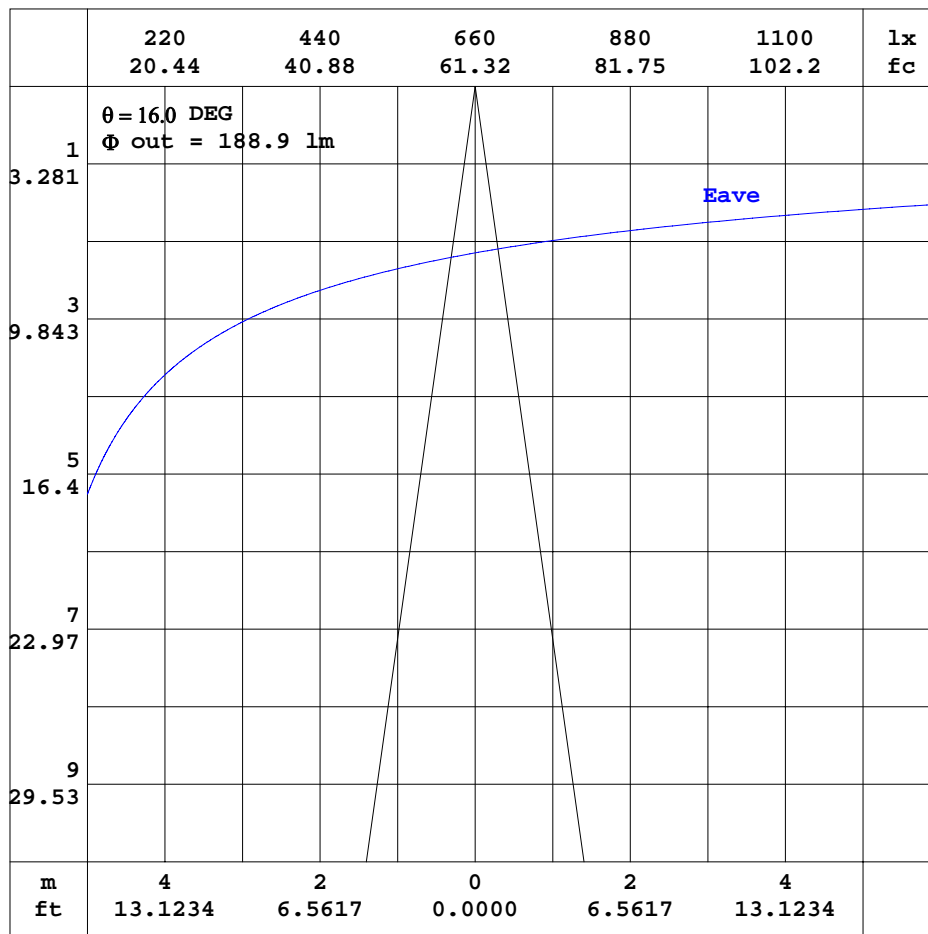
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024-01-29

$\gamma$  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:229.49V I:0.2557A P:57.893W PF:0.9867 Freq:49.99Hz Lamp Flux:8733.02x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLT23-0015-01	SUR.:3.14*0.325*0.325	Shielding Angle:



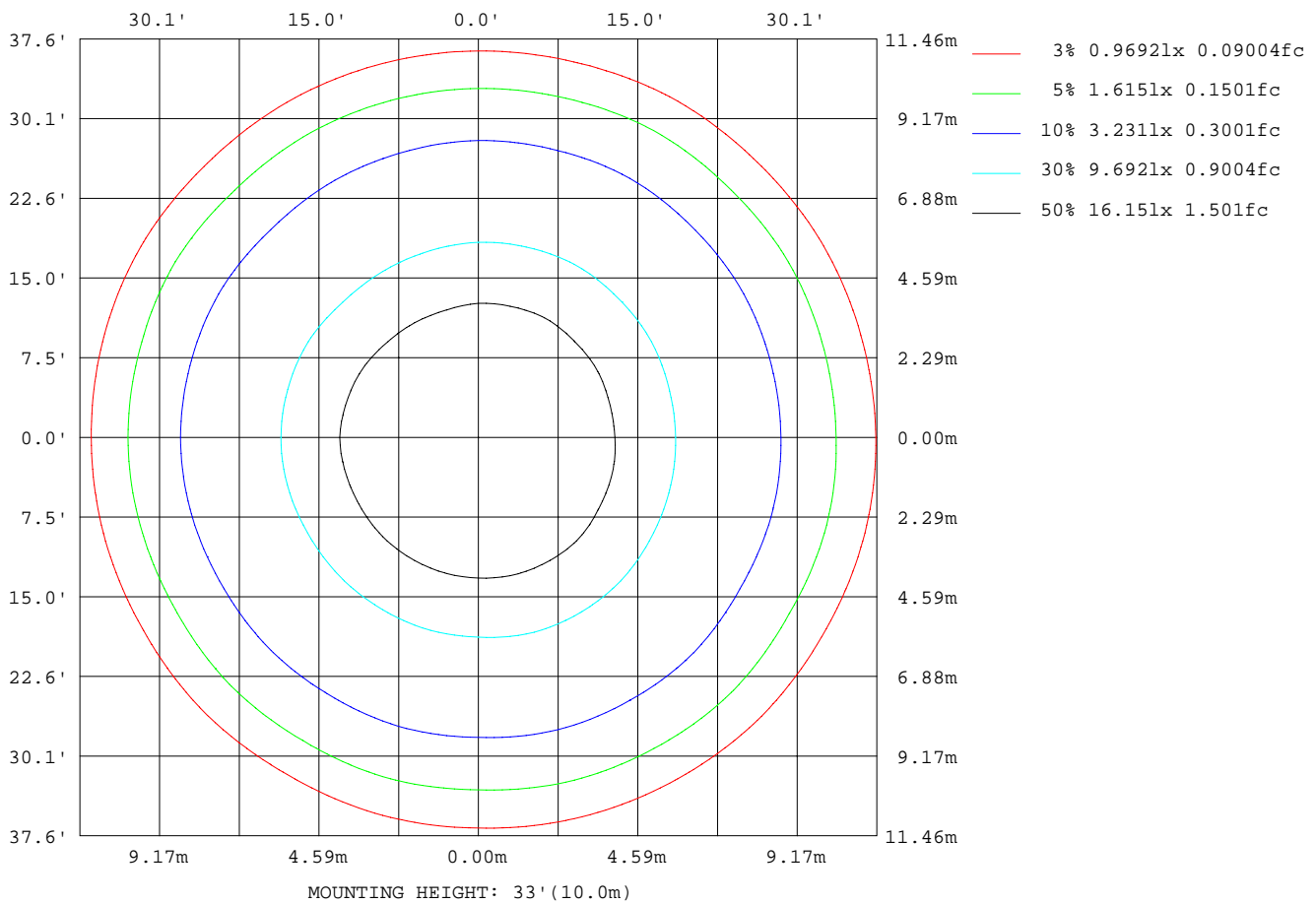
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:229.49V I:0.2557A P:57.893W PF:0.9867 Freq:49.99Hz Lamp Flux:8733.02x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLT23-0015-01	SUR.:3.14*0.325*0.325	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:229.49V I:0.2557A P:57.893W PF:0.9867 Freq:49.99Hz Lamp Flux:8733.02x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLT23-0015-01	SUR.:3.14*0.325*0.325	Shielding Angle:

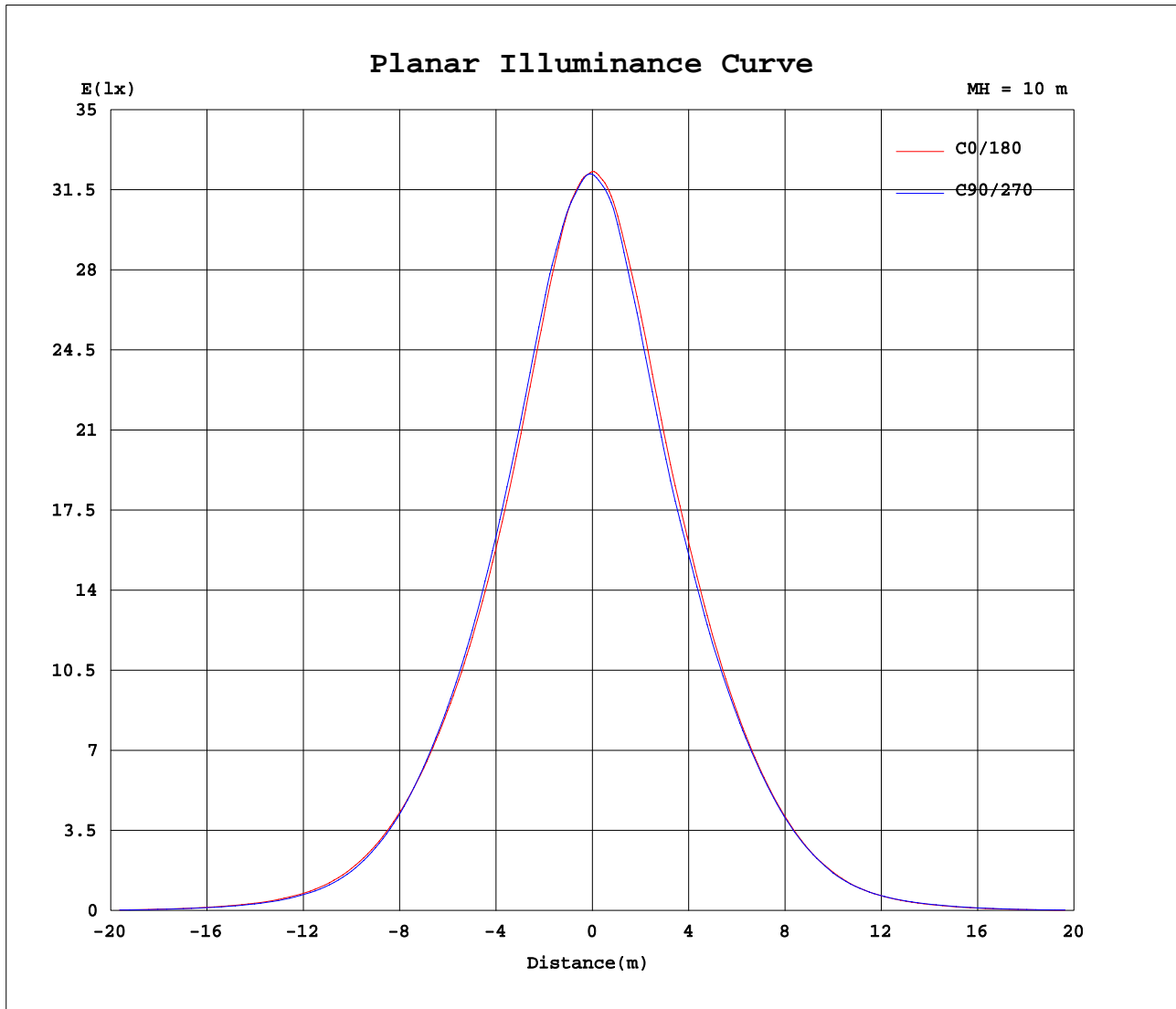
AvgL	cd/m2
L_0~180(65)av	117
L_0~180(75)av	82
L_0~180(85)av	162
L_90~270(65)av	144
L_90~270(75)av	163
L_90~270(85)av	288
L_45(65)av	131
L_45(75)av	131
L_45(85)av	221

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

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:

## 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:229.49V I:0.2557A P:57.893W PF:0.9867 Freq:49.99Hz Lamp Flux:8733.02x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLT23-0015-01	SUR.:3.14*0.325*0.325	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	3231	3228	3226	3225	3224	3223	3222	3221	3219	3218	3218	3218	3219	3219	3218	3218	3218	3218	3218
5	3136	3140	3142	3143	3143	3143	3142	3145	3148	3151	3149	3148	3146	3146	3147	3147	3142	3136	3132
10	2859	2864	2868	2870	2869	2867	2865	2870	2875	2881	2884	2888	2892	2902	2911	2919	2919	2916	2913
15	2484	2494	2502	2509	2513	2517	2523	2538	2554	2567	2569	2567	2565	2567	2569	2569	2564	2557	2551
20	2104	2119	2132	2142	2147	2152	2157	2171	2185	2197	2200	2200	2199	2201	2201	2200	2192	2183	2174
25	1763	1774	1784	1794	1801	1808	1816	1830	1844	1856	1858	1857	1854	1855	1853	1850	1839	1827	1816
30	1447	1451	1455	1460	1465	1471	1478	1490	1501	1511	1516	1519	1520	1523	1522	1519	1507	1493	1479
35	1133	1135	1138	1141	1143	1145	1149	1159	1169	1178	1180	1179	1178	1179	1179	1176	1166	1155	1144
40	817	820	822	823	820	817	817	824	833	840	839	835	831	830	828	825	815	806	797
45	521	527	530	530	526	521	518	523	529	534	530	525	519	518	516	514	505	495	488
50	294	296	297	297	295	293	291	291	292	292	289	286	283	281	279	277	275	274	272
55	154	155	156	156	155	154	153	153	152	152	150	148	147	146	145	144	143	141	140
60	64.6	65.6	66.2	66.4	66.0	65.5	65.1	65.7	66.3	66.7	65.8	64.5	63.2	62.6	62.1	61.4	60.0	58.5	57.1
65	19.6	20.7	21.5	22.1	22.2	22.2	22.2	22.6	23.0	23.4	23.2	22.9	22.7	22.9	23.1	23.1	22.3	21.2	20.1
70	7.93	8.57	9.19	9.79	10.4	11.0	11.5	12.0	12.3	12.8	13.4	14.1	14.7	15.0	15.2	15.3	15.1	14.7	14.2
75	8.40	8.38	8.58	9.00	9.74	10.6	11.5	12.3	13.1	13.8	14.6	15.4	15.9	15.7	15.3	14.8	14.7	14.5	14.2
80	9.37	10.3	11.0	11.6	12.0	12.3	12.5	12.5	12.5	12.5	12.5	12.4	12.4	12.3	12.2	12.1	12.0	12.0	11.9
85	6.88	6.50	6.30	6.27	6.53	6.88	7.27	7.50	7.69	7.84	7.97	8.08	8.15	8.25	8.29	8.24	7.96	7.59	7.20
90	0.43	0.58	0.66	0.69	0.61	0.51	0.40	0.38	0.38	0.39	0.40	0.41	0.42	0.42	0.42	0.42	0.42	0.43	0.43
95	18.3	18.7	18.8	18.7	18.1	17.4	16.8	16.8	16.9	17.1	17.3	17.3	17.4	17.1	16.9	16.7	16.9	17.1	17.1
100	112	111	111	110	110	109	108	106	103	100	97.9	95.8	93.9	91.6	89.7	88.2	88.3	88.7	88.9
105	299	297	295	295	296	297	296	291	284	276	269	263	257	253	251	250	250	251	251
110	518	517	516	516	520	523	524	519	511	502	492	483	474	466	460	456	455	455	456
115	728	725	724	725	729	733	736	731	725	717	710	702	694	686	679	675	676	678	680
120	925	923	922	923	927	931	934	931	926	920	914	908	902	896	891	887	887	887	887
125	1113	1110	1108	1108	1111	1115	1117	1114	1109	1103	1098	1094	1089	1084	1079	1076	1076	1077	1076
130	1284	1280	1277	1276	1278	1280	1282	1279	1274	1269	1266	1262	1259	1255	1251	1248	1247	1247	1247
135	1435	1430	1427	1425	1426	1428	1429	1426	1423	1418	1416	1414	1411	1407	1403	1400	1399	1399	1399
140	1570	1564	1559	1557	1557	1558	1559	1557	1554	1550	1549	1547	1545	1542	1538	1535	1534	1534	1533
145	1686	1679	1674	1671	1671	1672	1673	1671	1668	1665	1664	1663	1662	1659	1656	1653	1652	1652	1651
150	1785	1778	1773	1769	1769	1769	1770	1768	1766	1764	1763	1763	1762	1759	1756	1754	1753	1753	1753
155	1866	1859	1854	1851	1850	1851	1852	1850	1848	1846	1846	1845	1845	1843	1841	1839	1839	1839	1838
160	1932	1925	1920	1917	1916	1917	1917	1916	1915	1913	1913	1913	1912	1911	1910	1908	1908	1908	1908
165	1983	1976	1971	1968	1967	1968	1968	1967	1966	1965	1965	1965	1965	1965	1965	1964	1963	1963	1962
170	2019	2012	2007	2004	2003	2004	2005	2004	2004	2004	2003	2003	2003	2003	2003	2002	2002	2002	2002
175	2039	2033	2028	2025	2024	2025	2026	2026	2025	2025	2026	2026	2026	2026	2026	2026	2026	2026	2026
180	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045

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:229.49V I:0.2557A P:57.893W PF:0.9867 Freq:49.99Hz Lamp Flux:8733.02x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLT23-0015-01	SUR.:3.14*0.325*0.325	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	3218	3218	3217	3217	3217	3217	3217	3216	3216	3217	3217	3218	3216	3215	3216	3221	3226	3231	3230
5	3133	3135	3136	3133	3130	3127	3126	3125	3124	3119	3115	3112	3113	3115	3119	3125	3130	3132	3128
10	2911	2908	2905	2898	2892	2887	2887	2888	2888	2880	2871	2862	2856	2852	2850	2853	2855	2855	2844
15	2550	2550	2549	2543	2536	2530	2530	2529	2527	2517	2505	2494	2490	2487	2487	2490	2492	2492	2480
20	2171	2168	2165	2156	2146	2138	2135	2132	2130	2122	2115	2109	2109	2112	2117	2123	2129	2131	2123
25	1811	1807	1803	1796	1788	1781	1777	1774	1771	1767	1765	1763	1765	1769	1773	1780	1785	1788	1783
30	1473	1469	1465	1457	1448	1441	1437	1435	1432	1428	1423	1421	1426	1432	1439	1443	1445	1446	1444
35	1138	1134	1130	1121	1112	1105	1104	1104	1103	1097	1091	1086	1089	1094	1100	1104	1108	1110	1109
40	795	794	793	787	780	773	772	771	770	765	760	757	760	764	768	771	774	775	774
45	488	489	491	485	479	474	475	476	477	472	466	462	462	464	466	469	472	475	473
50	270	268	265	263	261	259	259	258	257	256	254	252	252	252	252	252	253	253	255
55	139	138	137	135	133	131	131	132	132	131	129	127	127	127	127	127	127	127	126
60	56.3	55.6	54.9	53.8	52.7	51.9	52.1	52.4	52.5	51.4	50.1	48.8	48.4	48.2	48.1	47.8	47.6	47.4	47.1
65	19.5	18.8	18.2	17.3	16.4	15.7	15.5	15.4	15.4	14.9	14.4	13.9	13.8	13.8	13.8	13.5	13.3	13.3	13.4
70	13.6	12.8	12.1	11.3	10.6	9.82	8.99	8.14	7.29	6.32	5.46	4.78	4.63	4.67	4.83	4.75	4.81	5.14	6.27
75	13.6	12.8	12.0	11.0	10.1	9.21	8.60	8.06	7.52	6.79	6.06	5.42	4.96	4.67	4.57	4.65	5.02	5.74	7.30
80	11.7	11.3	10.9	10.3	9.71	9.05	8.42	7.81	7.22	6.67	6.18	5.76	5.46	5.25	5.14	5.00	5.05	5.39	6.50
85	6.89	6.58	6.26	5.90	5.52	5.11	4.63	4.13	3.64	3.12	2.68	2.40	2.55	2.79	3.02	2.86	2.66	2.48	2.51
90	0.43	0.43	0.44	0.41	0.42	0.46	0.70	0.93	1.12	0.99	0.82	0.70	0.90	1.16	1.39	1.37	1.28	1.16	1.11
95	16.4	15.4	14.5	14.1	13.8	13.4	12.9	12.3	11.7	11.2	10.8	10.6	10.7	10.9	11.1	11.2	11.2	11.2	11.2
100	87.5	85.5	83.1	80.4	77.6	75.2	73.4	72.2	71.9	73.6	75.6	77.4	77.2	76.5	75.8	75.9	76.2	76.7	77.5
105	249	246	243	239	235	232	232	234	236	239	241	243	243	242	241	241	240	240	241
110	452	447	443	439	436	435	439	444	451	456	461	463	460	456	451	448	446	445	446
115	675	669	663	660	658	657	658	661	664	669	674	676	673	667	662	659	658	657	659
120	882	876	870	867	865	864	864	864	866	870	874	877	874	871	866	864	862	861	860
125	1071	1065	1060	1057	1055	1054	1053	1053	1054	1058	1062	1065	1063	1059	1056	1055	1055	1055	1054
130	1242	1237	1232	1231	1230	1230	1229	1228	1228	1231	1234	1236	1234	1230	1227	1228	1229	1230	1230
135	1396	1392	1389	1388	1388	1388	1386	1385	1384	1386	1388	1389	1387	1385	1383	1384	1385	1387	1387
140	1531	1528	1526	1526	1526	1527	1525	1523	1522	1523	1524	1525	1524	1522	1521	1522	1524	1526	1525
145	1649	1647	1645	1645	1646	1646	1645	1643	1642	1642	1643	1644	1643	1642	1641	1643	1645	1647	1645
150	1751	1749	1748	1748	1749	1749	1748	1746	1745	1746	1747	1748	1747	1747	1746	1747	1749	1750	1748
155	1837	1835	1834	1834	1834	1835	1834	1833	1832	1833	1833	1834	1834	1834	1834	1836	1837	1838	1835
160	1906	1905	1905	1905	1906	1906	1905	1905	1904	1904	1905	1905	1905	1905	1905	1907	1909	1909	1906
165	1961	1961	1960	1960	1961	1962	1961	1960	1960	1960	1961	1962	1962	1962	1962	1964	1965	1966	1962
170	2002	2001	2001	2001	2002	2002	2002	2002	2002	2002	2002	2003	2003	2004	2004	2006	2007	2007	2004
175	2026	2026	2027	2027	2028	2028	2028	2028	2028	2029	2029	2030	2030	2031	2031	2033	2034	2034	2030
180	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045

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:229.49V I:0.2557A P:57.893W PF:0.9867 Freq:49.99Hz Lamp Flux:8733.02x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLT23-0015-01	SUR.:3.14*0.325*0.325	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	3227	3225	3224	3223	3222	3221	3219	3218	3218	3218	3219	3219	3218	3218	3218	3218	3218	3218	3218
5	3122	3115	3114	3113	3113	3109	3105	3102	3103	3105	3107	3105	3102	3099	3100	3102	3103	3101	3100
10	2832	2820	2815	2811	2807	2799	2791	2783	2782	2782	2782	2776	2770	2766	2770	2776	2783	2785	2788
15	2466	2452	2445	2438	2430	2416	2401	2389	2387	2388	2390	2386	2382	2381	2386	2394	2404	2412	2420
20	2111	2098	2090	2082	2073	2057	2042	2028	2022	2018	2017	2014	2014	2017	2028	2041	2054	2060	2065
25	1776	1767	1759	1750	1740	1725	1709	1696	1691	1690	1691	1692	1696	1702	1711	1722	1732	1741	1750
30	1440	1434	1430	1423	1415	1399	1382	1368	1365	1367	1371	1375	1381	1388	1398	1407	1417	1423	1429
35	1106	1102	1099	1094	1087	1073	1059	1048	1048	1052	1057	1060	1063	1067	1077	1088	1097	1102	1105
40	772	769	768	767	764	754	744	736	736	739	743	744	745	746	753	760	766	769	770
45	471	469	471	473	474	467	459	453	453	455	457	458	458	459	460	462	464	467	469
50	256	257	258	257	257	255	253	251	251	251	252	252	252	252	252	253	255	256	258
55	126	126	126	127	128	127	126	126	127	128	130	129	129	129	130	132	133	134	134
60	47.0	47.1	47.9	48.8	49.6	49.6	49.5	49.4	49.6	50.0	50.4	50.8	51.3	51.8	52.4	53.1	53.7	53.8	53.9
65	13.8	14.3	15.2	16.2	17.1	17.7	18.2	18.5	18.7	18.8	18.8	18.8	18.9	19.0	19.5	20.0	20.3	20.0	19.4
70	7.60	8.98	10.0	10.9	11.6	11.9	12.1	12.3	12.5	12.8	13.0	13.4	13.8	14.2	14.4	14.5	14.4	14.1	13.7
75	9.04	10.7	11.7	12.3	12.6	12.4	12.1	11.7	11.8	12.0	12.3	12.6	13.0	13.3	13.5	13.6	13.8	14.2	14.6
80	7.80	9.09	9.89	10.5	10.9	11.1	11.2	11.2	11.3	11.3	11.5	12.0	12.6	13.2	13.7	14.0	14.3	14.3	14.1
85	2.65	2.89	3.24	3.68	4.20	4.81	5.47	6.13	6.71	7.27	7.84	8.52	9.14	9.62	9.71	9.64	9.46	9.29	9.06
90	1.06	1.01	0.90	0.79	0.70	0.66	0.65	0.64	0.64	0.64	0.64	0.64	0.64	0.65	0.74	0.82	0.88	0.81	0.71
95	11.2	11.1	10.5	10.0	9.83	10.6	11.6	12.7	13.3	13.9	14.5	15.3	16.1	16.9	17.4	17.8	18.3	19.0	19.5
100	78.3	78.8	78.3	77.8	77.5	78.2	79.3	80.6	81.4	82.7	84.8	89.6	94.9	100	103	106	108	110	111
105	242	243	245	247	249	251	252	253	253	252	253	256	259	264	269	274	279	283	286
110	449	452	457	462	467	467	466	464	462	461	461	465	470	476	483	490	496	499	502
115	662	666	672	678	684	685	686	684	682	679	678	683	689	696	701	707	712	717	721
120	861	863	867	872	877	883	887	890	886	881	878	882	889	896	902	907	912	918	923
125	1053	1053	1056	1059	1063	1068	1074	1078	1077	1075	1073	1075	1078	1081	1085	1088	1093	1099	1106
130	1230	1231	1232	1234	1237	1240	1243	1246	1245	1243	1243	1247	1253	1258	1262	1266	1269	1275	1280
135	1386	1385	1386	1388	1390	1393	1396	1398	1398	1398	1398	1402	1407	1412	1414	1417	1420	1425	1430
140	1523	1522	1522	1524	1525	1528	1531	1534	1534	1534	1535	1539	1543	1548	1550	1552	1554	1558	1562
145	1643	1641	1641	1642	1644	1646	1649	1652	1653	1653	1654	1657	1661	1665	1667	1668	1670	1673	1676
150	1745	1743	1743	1744	1746	1748	1751	1753	1754	1755	1756	1759	1762	1765	1766	1767	1768	1771	1774
155	1832	1829	1829	1830	1831	1833	1835	1837	1838	1839	1840	1843	1846	1848	1849	1850	1850	1853	1855
160	1903	1899	1899	1900	1901	1903	1904	1906	1907	1908	1909	1911	1913	1915	1916	1917	1918	1920	1922
165	1958	1954	1954	1955	1956	1957	1958	1960	1960	1961	1963	1964	1966	1968	1969	1969	1970	1971	1973
170	1999	1995	1995	1995	1996	1997	1999	2000	2000	2001	2002	2003	2004	2005	2006	2006	2007	2008	2009
175	2025	2021	2020	2021	2022	2022	2023	2023	2024	2025	2025	2026	2027	2028	2028	2028	2029	2030	2031
180	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045

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:229.49V I:0.2557A P:57.893W PF:0.9867 Freq:49.99Hz Lamp Flux:8733.02x1 lm																	
NAME:									TYPE:						WEIGHT:		
SPEC.:									DIM.: 650*40						SERIAL No.:		
MFR.: NLT23-0015-01									SUR.:3.14*0.325*0.325						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	3217	3217	3217	3217	3217	3216	3216	3217	3217	3218	3216	3215	3216	3219	3224				
5	3098	3096	3095	3094	3093	3092	3092	3095	3098	3101	3102	3102	3105	3113	3123				
10	2791	2798	2806	2813	2815	2816	2818	2824	2830	2834	2832	2830	2830	2836	2845				
15	2429	2439	2449	2457	2458	2456	2455	2458	2460	2462	2460	2458	2458	2463	2472				
20	2071	2082	2093	2101	2098	2092	2087	2091	2096	2101	2096	2091	2087	2089	2095				
25	1758	1768	1777	1782	1780	1775	1770	1771	1773	1773	1768	1762	1757	1756	1759				
30	1434	1443	1450	1455	1453	1450	1447	1449	1452	1454	1450	1445	1441	1441	1443				
35	1109	1116	1123	1129	1129	1127	1126	1130	1135	1138	1136	1133	1130	1130	1131				
40	773	781	789	796	796	794	793	798	804	809	809	809	808	810	813				
45	473	481	489	495	496	495	495	501	507	513	514	513	513	514	517				
50	260	263	267	270	272	274	276	279	281	284	285	286	287	289	291				
55	135	137	139	141	141	142	142	144	146	148	149	150	151	152	153				
60	54.0	54.7	55.5	56.1	56.0	55.9	56.0	57.2	58.7	60.2	61.0	61.7	62.4	63.1	63.8				
65	18.8	18.4	18.1	17.7	17.2	16.7	16.3	16.1	16.1	16.3	16.8	17.4	18.0	18.6	19.1				
70	13.1	12.5	11.8	11.1	10.5	9.88	9.28	8.66	8.13	7.72	7.64	7.67	7.77	7.81	7.87				
75	14.8	14.5	14.0	13.3	12.8	12.3	11.8	11.7	11.6	11.5	11.2	10.7	10.2	9.70	9.08				
80	13.9	13.8	13.6	13.3	12.9	12.5	12.1	11.9	11.6	11.4	11.1	10.7	10.3	9.98	9.67				
85	8.80	8.47	8.15	7.88	7.87	7.90	7.88	7.62	7.30	6.96	6.63	6.36	6.21	6.28	6.50				
90	0.61	0.59	0.58	0.58	0.57	0.55	0.54	0.54	0.54	3.11	0.69	0.80	0.87	0.80	0.66				
95	19.9	19.7	19.3	18.8	18.4	18.1	17.7	17.0	16.4	16.1	16.8	17.8	18.6	18.8	18.7				
100	112	110	109	108	109	111	113	112	111	111	112	113	114	114	113				
105	288	287	286	285	289	294	299	301	303	303	304	304	303	302	301				
110	502	501	501	501	507	514	521	526	530	532	531	529	526	524	521				
115	724	722	720	719	726	733	740	743	744	744	743	740	738	735	731				
120	927	926	924	923	928	933	938	941	942	942	941	939	937	934	930				
125	1112	1114	1115	1117	1121	1125	1129	1128	1126	1124	1123	1122	1121	1119	1116				
130	1284	1285	1285	1285	1289	1292	1295	1295	1295	1294	1294	1294	1293	1291	1288				
135	1434	1435	1435	1436	1439	1442	1444	1444	1443	1442	1442	1443	1443	1441	1439				
140	1565	1566	1567	1568	1570	1573	1575	1575	1574	1573	1573	1574	1574	1573	1572				
145	1679	1680	1681	1682	1684	1686	1688	1688	1687	1687	1688	1688	1689	1689	1688				
150	1776	1777	1778	1779	1781	1783	1785	1785	1784	1784	1785	1786	1787	1787	1786				
155	1858	1859	1859	1860	1862	1864	1865	1865	1865	1864	1866	1867	1868	1868	1867				
160	1924	1924	1925	1926	1927	1929	1930	1930	1930	1930	1931	1932	1933	1933	1933				
165	1974	1975	1976	1977	1978	1979	1980	1980	1980	1981	1982	1982	1983	1984	1984				
170	2011	2011	2012	2013	2013	2014	2015	2015	2016	2016	2017	2018	2018	2019	2019				
175	2032	2032	2033	2034	2034	2035	2035	2036	2036	2036	2036	2037	2038	2039	2039				
180	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045	2045				

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: