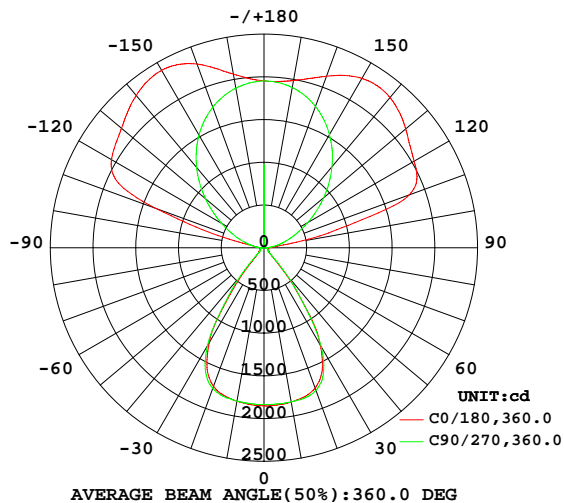


## LUMINAIRE PHOTOMETRIC TEST REPORT

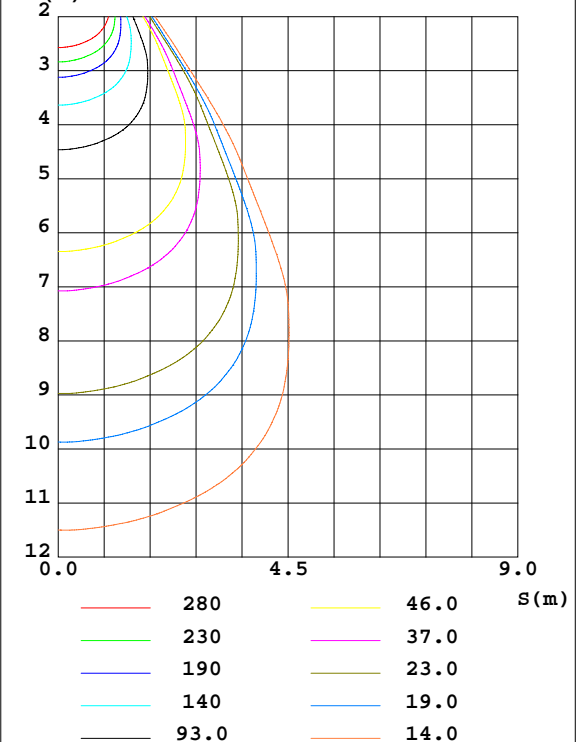
Test:U:229.65V I:0.3431A P:77.796W PF:0.9872 Freq:49.99Hz Lamp Flux:10240.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 960*42*38	SERIAL No.:
MFR.: NLD25-0020-01	SUR.:0.96*0.035	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 131.63 lm/W			
MODEL		I <sub>max</sub> (cd)	2398	S/MH(C0/180)	0.98
NOMINAL POWER(W)	80	LOR(%)	100.0	S/MH(C90/270)	0.99
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	10240	η UP,DN(C0-180)	38.8,11.4
NOMINAL FLUX(lm)	10240.2	CIE CLASS	SEMI-IND.	η UP,DN(C180-360)	38.5,11.3
LAMPS INSIDE	1	η up(%)	77.2	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	230.0	η down(%)	22.8	CIBSE SHR MAX	1.10

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:2025-09-28

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:

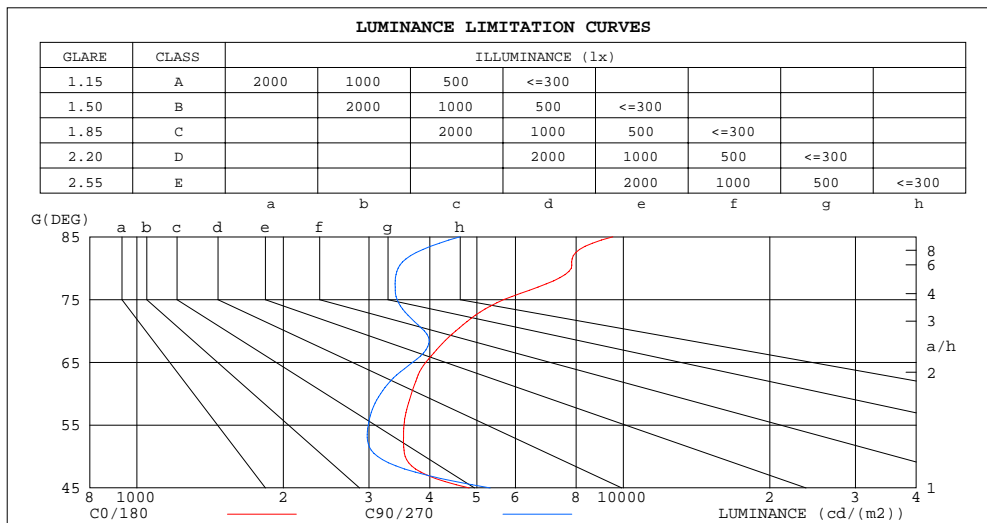
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1835	1817	1832	1822	1824	1804	1823	1824	0- 10	174.6	174.6	1.7,1.7
20	1748	1690	1777	1715	1725	1658	1752	1714	10- 20	504.0	678.6	6.63,6.63
30	1320	1353	1345	1343	1282	1316	1325	1356	20- 30	717.4	1396	13.6,13.6
40	367.6	720.8	424.7	607.6	319.5	681.2	429.1	648.7	30- 40	572.3	1968	19.2,19.2
50	76.89	72.26	67.50	89.64	76.57	71.72	66.95	93.70	40- 50	158.4	2127	20.8,20.8
60	61.59	64.96	53.26	71.15	62.16	64.58	52.47	70.95	50- 60	60.67	2187	21.4,21.4
70	52.00	57.63	44.81	61.80	54.17	57.34	45.44	61.16	60- 70	58.44	2246	21.9,21.9
80	45.60	45.18	20.09	57.02	49.32	47.71	20.35	55.49	70- 80	53.52	2299	22.5,22.5
90	19.79	22.04	4.055	27.62	26.07	24.75	5.584	22.52	80- 90	33.60	2333	22.8,22.8
100	387.1	749.7	138.5	399.4	133.4	353.8	132.4	742.5	90-100	145.8	2479	24.2,24.2
110	1806	1358	326.6	1329	1343	1340	316.5	1314	100-110	799.0	3278	32,32
120	2029	1658	593.9	1645	2062	1654	574.1	1627	110-120	1298	4576	44.7,44.7
130	2166	1878	913.3	1913	2177	1919	894.3	1843	120-130	1404	5980	58.4,58.4
140	2295	1971	1238	2063	2327	2075	1227	1933	130-140	1380	7360	71.9,71.9
150	2290	1972	1532	2092	2398	2106	1522	1941	140-150	1213	8573	83.7,83.7
160	2136	1949	1761	2042	2288	2045	1753	1934	150-160	920.0	9493	92.7,92.7
170	1989	1938	1905	1987	2064	1984	1897	1936	160-170	560.2	10054	98.2,98.2
180	1954	1954	1954	1954	1954	1954	1954	1954	170-180	186.7	10240	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:2025-09-28

$\gamma$  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:

## LUMINANCE LIMITATION CURVES

Test:U:229.65V I:0.3431A P:77.796W PF:0.9872 Freq:49.99Hz Lamp Flux:10240.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 960*42*38	SERIAL No.:
MFR.: NLD25-0020-01	SUR.:0.96*0.035	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	9514	4613
80	7815	3444
75	5679	3428
70	4525	3899
65	3926	3689
60	3666	3170
55	3540	2991
50	3560	3126
45	4820	5324

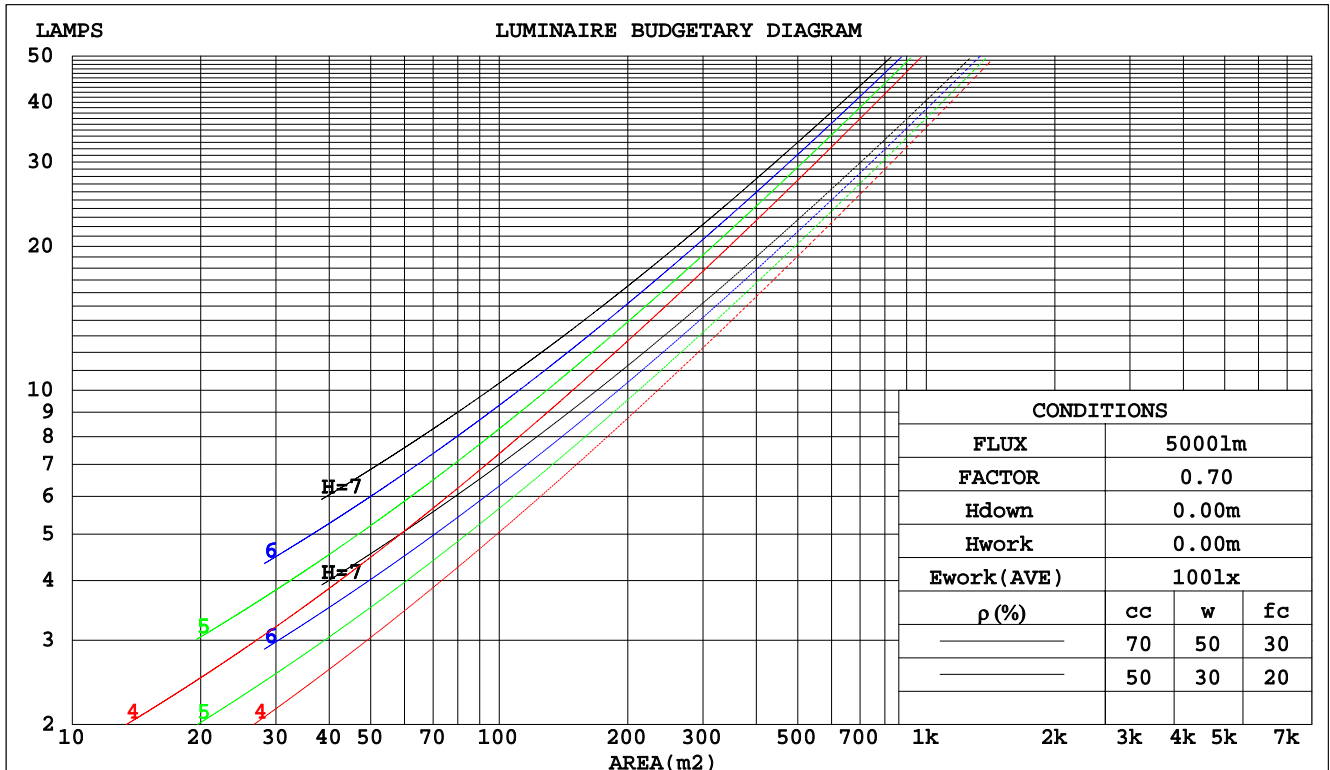
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2025-09-28

$\gamma$  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:229.65V I:0.3431A P:77.796W PF:0.9872 Freq:49.99Hz Lamp Flux:10240.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 960*42*38	SERIAL No.:
MFR.: NLD25-0020-01	SUR.:0.96*0.035	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	1.01	1.01	1.01	.89	.89	.89	.68	.68	.68	.49	.49	.49	.31	.31	.31	.23
1.0	.89	.85	.82	.79	.76	.73	.61	.59	.57	.44	.43	.42	.29	.28	.28	.21
2.0	.78	.73	.68	.70	.65	.62	.54	.51	.49	.40	.38	.36	.26	.25	.25	.19
3.0	.70	.63	.58	.62	.57	.53	.49	.45	.42	.36	.34	.32	.24	.23	.22	.17
4.0	.62	.55	.50	.56	.50	.45	.44	.40	.37	.33	.30	.28	.22	.21	.20	.16
5.0	.56	.49	.43	.50	.44	.40	.40	.36	.32	.30	.27	.25	.21	.19	.18	.14
6.0	.51	.43	.38	.46	.39	.35	.36	.32	.29	.27	.25	.23	.19	.18	.17	.13
7.0	.46	.39	.34	.41	.35	.31	.33	.29	.26	.25	.22	.20	.18	.16	.15	.12
8.0	.42	.35	.30	.38	.32	.28	.30	.26	.23	.23	.21	.19	.17	.15	.14	.11
9.0	.38	.32	.27	.35	.29	.25	.28	.24	.21	.22	.19	.17	.16	.14	.13	.11
10.0	.35	.29	.24	.32	.26	.23	.26	.22	.19	.20	.17	.15	.15	.13	.12	.10



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2025-09-28

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:229.65V I:0.3431A P:77.796W PF:0.9872 Freq:49.99Hz Lamp Flux:10240.2x1 lm									
NAME:				TYPE:				WEIGHT:	
SPEC.:				DIM.: 960*42*38				SERIAL No.:	
MFR.: NLD25-0020-01				SUR.:0.96*0.035				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	.249	.141	.045	.218	.125	.040	.162	.093	.030	.110	.063	.020	.062	.036	.012	
2.0	.229	.126	.039	.202	.111	.034	.150	.083	.026	.102	.057	.018	.058	.033	.010	
3.0	.212	.113	.034	.187	.100	.030	.139	.076	.023	.096	.052	.016	.055	.030	.009	
4.0	.197	.102	.030	.174	.091	.027	.130	.069	.021	.090	.048	.015	.052	.028	.009	
5.0	.184	.094	.027	.162	.083	.024	.122	.063	.019	.084	.044	.013	.049	.026	.008	
6.0	.172	.086	.025	.152	.077	.022	.114	.059	.017	.079	.041	.012	.047	.025	.007	
7.0	.161	.080	.023	.143	.071	.020	.108	.054	.016	.075	.038	.011	.044	.023	.007	
8.0	.151	.074	.021	.134	.066	.019	.102	.051	.015	.071	.036	.010	.042	.022	.006	
9.0	.143	.069	.019	.127	.062	.017	.096	.048	.013	.067	.034	.010	.040	.021	.006	
10.0	.135	.065	.018	.120	.058	.016	.091	.045	.013	.064	.032	.009	.039	.019	.006	

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	.779	.779	.779	.666	.666	.666	.454	.454	.454	.261	.261	.261	.083	.083	.083		
1.0	.769	.750	.732	.658	.644	.630	.450	.443	.436	.259	.256	.254	.083	.082	.082		
2.0	.761	.729	.703	.652	.628	.607	.447	.434	.424	.258	.253	.248	.083	.082	.081		
3.0	.754	.714	.683	.646	.616	.592	.444	.428	.415	.256	.250	.245	.082	.081	.080		
4.0	.747	.703	.669	.641	.607	.581	.441	.423	.409	.255	.248	.242	.082	.081	.080		
5.0	.741	.694	.659	.636	.600	.574	.438	.419	.405	.254	.246	.240	.082	.080	.079		
6.0	.735	.687	.652	.632	.595	.568	.436	.416	.402	.253	.245	.239	.082	.080	.079		
7.0	.730	.681	.647	.628	.590	.564	.434	.414	.399	.252	.244	.238	.081	.080	.079		
8.0	.724	.676	.643	.624	.586	.560	.432	.412	.398	.251	.243	.237	.081	.080	.078		
9.0	.720	.672	.640	.620	.583	.558	.430	.410	.396	.250	.242	.236	.081	.079	.078		
10.0	.715	.668	.637	.617	.580	.556	.428	.408	.395	.249	.241	.236	.081	.079	.078		

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2025-09-28

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:229.65V I:0.3431A P:77.796W PF:0.9872 Freq:49.99Hz Lamp Flux:10240.2x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 960*42*38			SERIAL No.:			
MFR.: NLD25-0020-01					SUR.:0.96*0.035			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	10.6	11.2	11.7	12.3	13.8	10.6	11.3	11.7	12.4	13.8
	3H	11.0	11.6	12.1	12.7	14.2	10.8	11.4	11.9	12.5	14.0
	4H	11.4	12.0	12.5	13.1	14.6	10.9	11.5	12.0	12.6	14.1
	6H	12.1	12.6	13.2	13.7	15.3	11.0	11.5	12.1	12.6	14.2
	8H	12.4	12.9	13.6	14.0	15.6	11.0	11.5	12.2	12.6	14.2
	12H	12.7	13.2	13.9	14.3	15.9	11.1	11.6	12.2	12.7	14.2
4H	2H	10.3	10.8	11.4	11.9	13.5	10.3	10.9	11.4	12.0	13.5
	3H	11.0	11.5	12.2	12.6	14.2	10.8	11.2	11.9	12.4	13.9
	4H	11.8	12.2	12.9	13.3	14.9	11.1	11.5	12.2	12.6	14.2
	6H	12.7	13.1	13.9	14.2	15.8	11.4	11.7	12.5	12.9	14.5
	8H	13.2	13.5	14.4	14.7	16.3	11.5	11.8	12.7	13.0	14.6
	12H	13.6	13.9	14.8	15.1	16.7	11.6	11.9	12.8	13.1	14.7
8H	4H	12.0	12.3	13.1	13.5	15.1	11.4	11.7	12.5	12.9	14.5
	6H	13.2	13.5	14.4	14.6	16.3	11.9	12.2	13.1	13.4	15.0
	8H	13.8	14.0	15.0	15.2	16.9	12.2	12.5	13.4	13.7	15.3
	12H	14.5	14.7	15.7	15.8	17.5	12.6	12.8	13.8	13.9	15.6
12H	4H	11.9	12.2	13.1	13.4	15.0	11.4	11.7	12.6	12.9	14.5
	6H	13.3	13.5	14.5	14.7	16.3	12.1	12.4	13.3	13.5	15.2
	8H	14.0	14.2	15.2	15.4	17.0	12.6	12.8	13.8	14.0	15.6
Variations with the observer position at spacings:											
S = 1.0H	+ 0.6 / - 0.7					+ 0.9 / - 1.1					
1.5H	+ 1.5 / - 0.6					+ 2.2 / - 1.1					
2.0H	+ 0.2 / - 0.3					+ 0.6 / - 0.3					

CIE Pub.117, 10240 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 8.1$ )

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-09-28

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:229.65V I:0.3431A P:77.796W PF:0.9872 Freq:49.99Hz Lamp Flux:10240.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 960*42*38	SERIAL No.:
MFR.: NLD25-0020-01	SUR.:0.96*0.035	Shielding Angle:

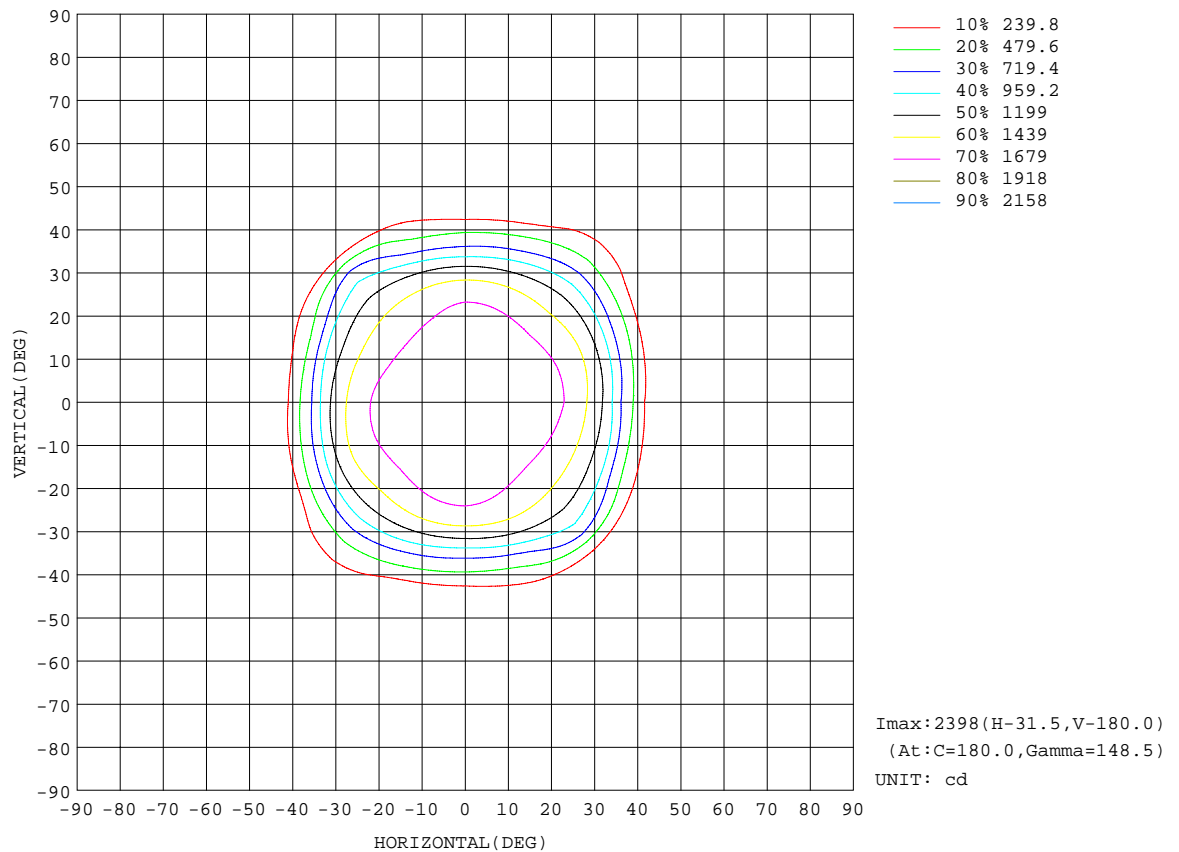
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	42	32	26	38	30	25	33	26	23	15
0.80	50	40	33	46	37	31	38	32	27	17
1.00	57	46	39	52	42	37	42	36	31	18
1.25	63	53	46	57	48	42	46	40	36	19
1.50	68	58	51	61	53	47	49	43	39	20
2.00	75	65	59	67	59	54	53	48	44	20
2.50	79	71	64	71	64	58	55	51	47	21
3.00	82	75	69	73	67	62	57	53	50	21
4.00	86	80	75	77	72	68	60	56	54	21
5.00	89	84	79	79	75	71	61	59	56	22
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:2025-09-28

$\gamma$  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:

## ISOCANDELA DIAGRAM

Test:U:229.65V I:0.3431A P:77.796W PF:0.9872 Freq:49.99Hz Lamp Flux:10240.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 960*42*38	SERIAL No.:
MFR.: NLD25-0020-01	SUR.:0.96*0.035	Shielding Angle:



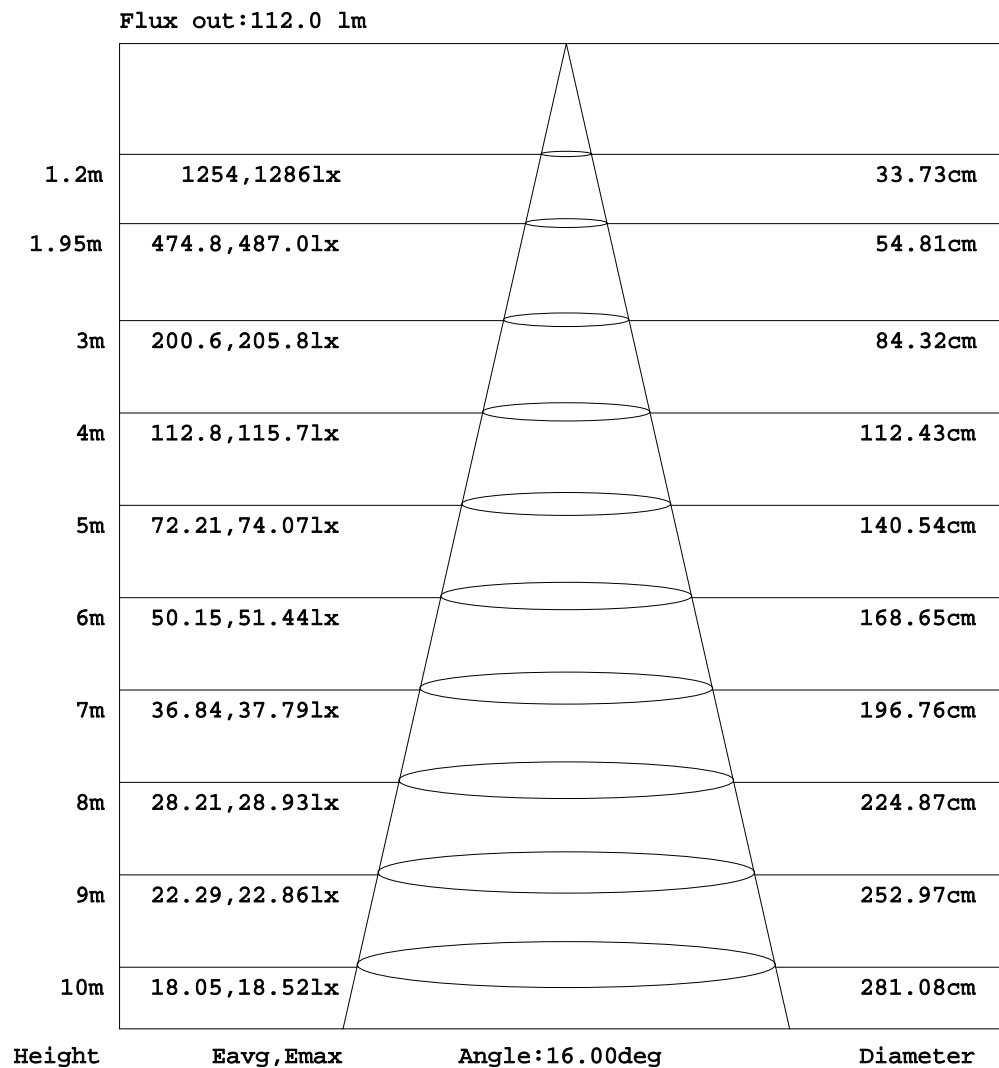
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2025-09-28

$\gamma$  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 Figure

Test:U:229.65V I:0.3431A P:77.796W PF:0.9872 Freq:49.99Hz Lamp Flux:10240.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 960*42*38	SERIAL No.:
MFR.: NLD25-0020-01	SUR.:0.96*0.035	Shielding Angle:



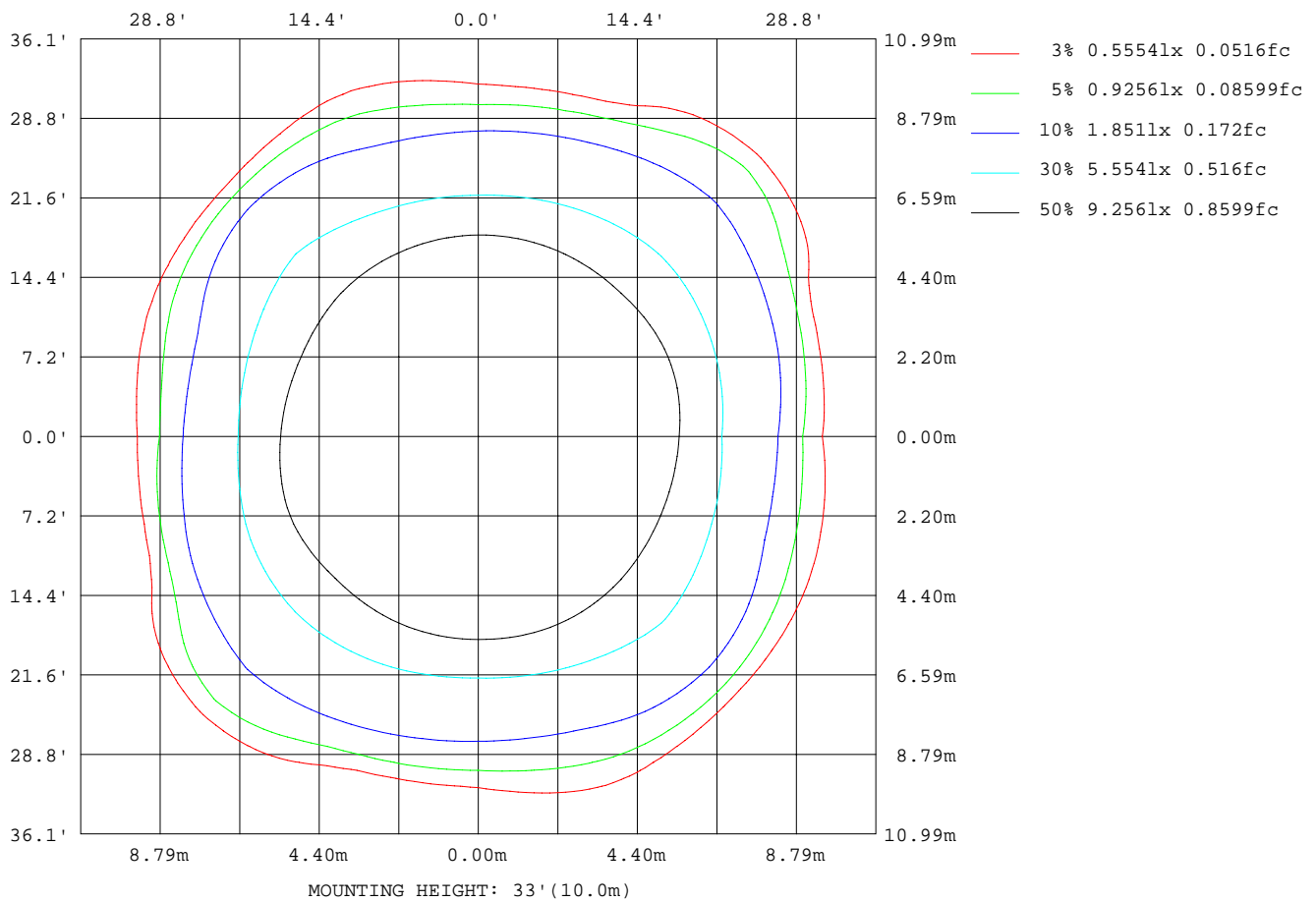
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-09-28

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:

## ISOLUX DIAGRAM

Test:U:229.65V I:0.3431A P:77.796W PF:0.9872 Freq:49.99Hz Lamp Flux:10240.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 960*42*38	SERIAL No.:
MFR.: NLD25-0020-01	SUR.:0.96*0.035	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators:  
Test Date: 2025-09-28

$\gamma$  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:229.65V I:0.3431A P:77.796W PF:0.9872 Freq:49.99Hz Lamp Flux:10240.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 960*42*38	SERIAL No.:
MFR.: NLD25-0020-01	SUR.:0.96*0.035	Shielding Angle:

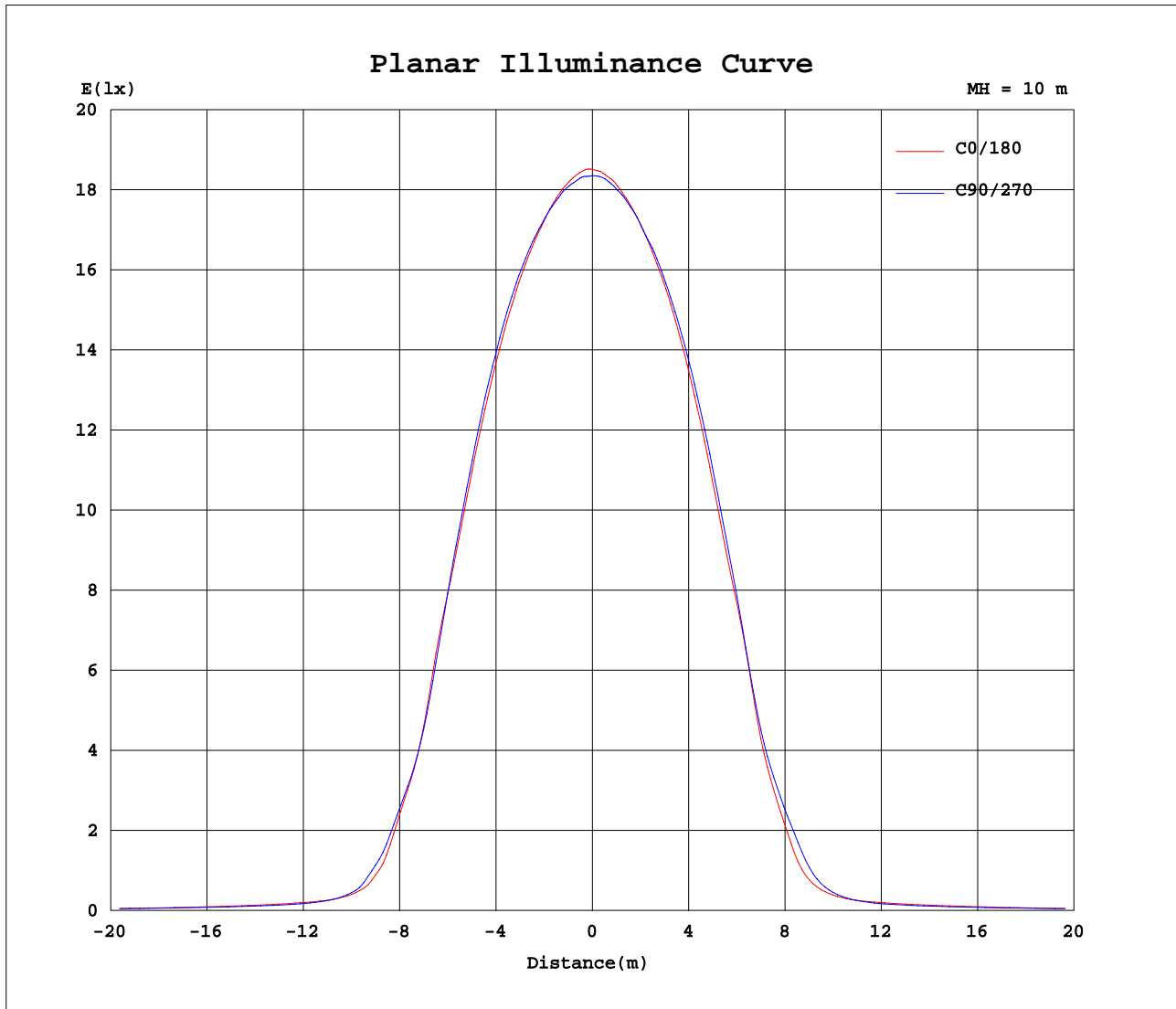
AvgL	cd/m2
L_0~180(65)av	3963
L_0~180(75)av	5920
L_0~180(85)av	10516
L_90~270(65)av	3658
L_90~270(75)av	3459
L_90~270(85)av	4666
L_45(65)av	4468
L_45(75)av	6777
L_45(85)av	12560

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2025-09-28

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: 2025-09-28

$\gamma$  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:229.65V I:0.3431A P:77.796W PF:0.9872 Freq:49.99Hz Lamp Flux:10240.2x1 lm																	
NAME:									TYPE:						WEIGHT:		
SPEC.:									DIM.: 960*42*38						SERIAL No.:		
MFR.: NLD25-0020-01									SUR.:0.96*0.035						Shielding Angle:		

Table--1

UNIT: cd

C(DEC) γ (DEC)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	1851	1849	1848	1846	1845	1844	1842	1841	1840	1839	1839	1839	1839	1839	1839	1838	1837	1837	1836
5	1846	1844	1841	1839	1838	1837	1837	1837	1837	1838	1837	1836	1836	1835	1835	1835	1835	1835	1835
10	1835	1831	1828	1825	1823	1820	1819	1817	1817	1817	1818	1820	1822	1825	1827	1828	1830	1831	1832
15	1809	1802	1796	1791	1786	1782	1778	1775	1773	1773	1776	1780	1785	1792	1798	1806	1812	1818	1823
20	1748	1737	1728	1719	1711	1704	1698	1693	1690	1690	1694	1701	1710	1720	1732	1745	1758	1768	1777
25	1606	1592	1580	1570	1562	1556	1552	1550	1551	1554	1562	1573	1584	1597	1608	1619	1628	1636	1640
30	1320	1310	1303	1300	1300	1305	1316	1328	1341	1353	1359	1363	1366	1367	1365	1361	1355	1350	1345
35	838	864	892	919	947	982	1021	1055	1082	1097	1074	1041	1000	957	917	885	858	837	825
40	368	365	372	391	419	472	544	615	677	721	689	640	581	518	473	450	434	426	425
45	115	124	132	140	147	154	160	165	170	175	183	190	195	196	189	174	158	141	126
50	76.9	77.4	77.6	77.6	77.3	76.4	75.1	73.8	72.8	72.3	74.5	77.0	79.4	81.2	80.6	77.6	74.1	70.6	67.5
55	68.2	68.1	68.0	67.9	67.8	67.7	67.7	67.6	67.4	67.2	66.7	66.0	65.2	64.3	62.9	61.3	59.7	58.4	57.6
60	61.6	62.2	62.8	63.3	63.8	64.3	64.7	65.1	65.2	65.0	63.9	62.6	61.2	59.6	57.9	56.3	54.9	53.8	53.3
65	55.7	57.0	58.2	59.1	59.9	60.6	61.2	61.5	61.6	61.2	59.8	58.1	56.3	54.6	53.4	52.8	52.4	52.3	52.4
70	52.0	55.2	57.8	59.7	60.9	61.4	61.1	60.3	59.1	57.6	56.0	54.2	52.4	50.6	48.9	47.3	46.1	45.2	44.8
75	49.4	51.4	53.2	54.7	55.9	57.1	58.1	58.7	58.7	57.9	55.1	51.5	47.6	43.5	39.6	35.9	32.9	30.8	29.8
80	45.6	45.6	45.6	45.5	45.5	45.7	46.0	46.1	45.9	45.2	42.9	40.1	37.1	33.8	30.3	26.7	23.7	21.4	20.1
85	27.9	29.8	31.5	32.7	33.6	34.2	34.5	34.3	33.9	33.0	31.7	30.0	28.1	25.9	23.2	20.0	17.2	14.9	13.5
90	19.8	21.3	22.5	23.4	24.0	24.2	24.1	23.7	23.0	22.0	20.7	19.1	17.4	15.4	12.9	10.1	7.45	5.37	4.05
95	108	101	97.6	97.6	101	109	122	137	152	166	179	188	194	193	178	149	119	90.3	67.5
100	387	412	440	473	509	563	630	689	731	750	678	584	478	370	284	226	182	153	138
105	1020	1076	1123	1161	1190	1221	1250	1262	1249	1205	1060	892	714	541	411	329	271	236	224
110	1806	1818	1813	1794	1759	1710	1647	1568	1471	1358	1195	1023	851	688	557	462	391	346	327
115	1976	1962	1938	1906	1864	1817	1763	1697	1614	1513	1353	1182	1008	842	705	602	524	472	449
120	2029	2016	1996	1969	1934	1899	1862	1812	1745	1658	1503	1334	1161	993	854	750	670	617	594
125	2086	2080	2067	2047	2020	1993	1964	1922	1863	1783	1634	1469	1300	1136	1000	899	821	771	749
130	2166	2165	2156	2140	2116	2089	2059	2016	1957	1878	1736	1580	1421	1268	1141	1048	977	932	913
135	2242	2244	2238	2222	2197	2167	2130	2081	2018	1938	1808	1667	1525	1388	1276	1193	1131	1092	1077
140	2295	2298	2291	2274	2247	2213	2169	2115	2049	1971	1856	1734	1612	1496	1402	1332	1281	1249	1238
145	2314	2314	2305	2287	2259	2222	2174	2118	2053	1980	1884	1784	1685	1593	1518	1463	1423	1399	1392
150	2290	2287	2277	2258	2231	2194	2148	2095	2036	1972	1897	1821	1747	1679	1624	1583	1554	1536	1532
155	2225	2221	2210	2193	2170	2139	2099	2056	2008	1958	1905	1852	1802	1756	1718	1690	1670	1659	1656
160	2136	2131	2122	2109	2092	2070	2043	2014	1982	1949	1915	1881	1849	1819	1796	1779	1767	1761	1761
165	2051	2047	2041	2032	2022	2009	1994	1978	1961	1943	1924	1905	1888	1873	1860	1852	1846	1843	1844
170	1989	1986	1982	1978	1973	1967	1960	1953	1946	1938	1931	1924	1918	1912	1908	1905	1904	1904	1905
175	1954	1951	1949	1947	1945	1944	1943	1942	1942	1942	1940	1939	1938	1937	1937	1937	1938	1939	1941
180	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2025-09-28

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:229.65V I:0.3431A P:77.796W PF:0.9872 Freq:49.99Hz Lamp Flux:10240.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 960*42*38	SERIAL No.:
MFR.: NLD25-0020-01	SUR.:0.96*0.035	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	1835	1834	1833	1833	1832	1832	1831	1831	1830	1829	1828	1827	1827	1830	1836	1841	1847	1851	1851
5	1835	1836	1836	1836	1836	1835	1833	1832	1830	1828	1826	1824	1824	1826	1830	1835	1839	1843	1841
10	1833	1833	1833	1832	1831	1829	1827	1825	1822	1819	1815	1812	1810	1811	1814	1818	1821	1824	1821
15	1823	1822	1820	1816	1812	1807	1802	1797	1792	1789	1786	1784	1783	1784	1787	1790	1792	1793	1787
20	1776	1772	1766	1758	1749	1740	1730	1722	1715	1715	1717	1720	1724	1727	1729	1729	1728	1725	1714
25	1639	1634	1628	1619	1608	1595	1583	1572	1565	1570	1578	1587	1595	1599	1596	1591	1584	1574	1561
30	1344	1344	1345	1346	1345	1344	1342	1342	1343	1351	1360	1368	1371	1364	1346	1325	1303	1282	1267
35	836	855	880	907	935	960	983	1001	1013	1011	1002	986	965	931	887	844	807	779	785
40	432	445	463	484	512	542	571	593	608	593	570	539	503	462	420	380	346	320	314
45	118	115	118	129	160	210	258	300	329	298	254	202	151	119	108	104	105	110	114
50	67.0	67.4	68.6	70.6	73.9	78.3	82.7	86.6	89.6	88.7	86.9	84.3	81.6	79.6	78.6	77.8	77.1	76.6	76.0
55	58.4	59.7	61.4	63.5	65.9	68.5	71.0	73.3	75.1	75.4	75.2	74.5	73.6	72.6	71.6	70.5	69.5	68.5	68.1
60	53.9	55.2	56.8	58.8	61.3	64.0	66.8	69.2	71.2	71.5	71.2	70.5	69.4	68.0	66.4	64.8	63.3	62.2	62.2
65	52.5	52.8	53.4	54.4	56.2	58.7	61.4	63.8	65.9	66.6	66.7	66.4	65.5	64.1	62.1	60.1	58.3	56.8	57.1
70	45.6	46.9	48.6	50.6	52.8	55.1	57.4	59.6	61.8	64.1	66.1	67.5	68.2	66.8	63.6	60.1	56.8	54.2	55.5
75	32.1	35.4	39.5	43.9	48.0	51.5	54.8	57.8	60.5	63.1	65.2	66.6	67.2	66.0	63.0	59.7	56.4	53.6	53.8
80	21.8	24.6	28.3	32.7	37.7	43.2	48.5	53.3	57.0	57.2	56.5	55.0	53.2	51.8	51.0	50.3	49.8	49.3	49.2
85	15.0	17.4	20.5	24.1	27.8	31.4	34.9	38.0	40.5	41.5	41.9	41.6	41.0	39.7	38.1	36.4	34.9	33.7	34.5
90	5.27	7.31	9.98	13.1	16.2	19.3	22.3	25.1	27.6	29.2	30.4	31.1	31.3	30.8	29.7	28.4	27.2	26.1	26.4
95	77.4	93.2	111	129	132	121	107	91.1	76.6	73.8	73.2	74.3	76.1	76.8	76.0	75.2	74.5	74.0	74.6
100	155	184	222	263	304	342	372	392	399	360	309	253	198	161	144	135	132	133	131
105	232	261	313	387	511	676	840	985	1096	1061	988	892	785	700	646	603	573	559	570
110	340	379	445	534	666	832	1005	1174	1329	1417	1480	1520	1538	1523	1481	1431	1382	1343	1374
115	470	519	595	694	828	991	1161	1330	1489	1596	1686	1759	1817	1861	1893	1913	1922	1923	1922
120	618	671	751	854	991	1154	1324	1491	1645	1737	1811	1868	1914	1957	1998	2031	2052	2062	2052
125	774	828	909	1012	1149	1312	1480	1642	1791	1870	1928	1971	2001	2032	2066	2093	2111	2120	2110
130	938	989	1065	1164	1295	1452	1614	1771	1913	1986	2038	2074	2098	2121	2145	2162	2173	2177	2171
135	1100	1147	1216	1306	1427	1573	1724	1871	2004	2076	2129	2166	2191	2213	2233	2246	2253	2254	2251
140	1258	1299	1359	1438	1545	1674	1809	1942	2063	2136	2192	2235	2266	2291	2310	2322	2328	2327	2325
145	1408	1442	1492	1558	1647	1756	1871	1985	2092	2164	2223	2272	2310	2339	2361	2374	2380	2379	2377
150	1546	1572	1612	1664	1734	1820	1911	2004	2092	2161	2221	2273	2316	2350	2373	2389	2397	2398	2394
155	1667	1687	1716	1755	1806	1868	1935	2004	2072	2131	2186	2236	2280	2314	2338	2355	2365	2367	2363
160	1770	1784	1805	1831	1865	1905	1949	1995	2042	2087	2130	2171	2207	2237	2259	2275	2285	2288	2283
165	1850	1860	1872	1888	1908	1932	1958	1985	2012	2040	2067	2092	2115	2135	2151	2162	2170	2173	2168
170	1908	1913	1920	1928	1937	1949	1961	1974	1987	2001	2014	2026	2037	2046	2054	2060	2063	2064	2061
175	1943	1945	1947	1950	1953	1956	1960	1963	1967	1971	1975	1979	1982	1985	1987	1988	1989	1989	1986
180	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2025-09-28

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:229.65V I:0.3431A P:77.796W PF:0.9872 Freq:49.99Hz Lamp Flux:10240.2x1 lm																		
NAME:									TYPE:					WEIGHT:				
SPEC.:									DIM.: 960*42*38					SERIAL No.:				
MFR.: NLD25-0020-01									SUR.:0.96*0.035					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	1850	1848	1846	1844	1842	1841	1840	1839	1839	1839	1839	1839	1839	1838	1837	1837	1836	1835	1834
5	1839	1835	1832	1830	1829	1829	1829	1829	1829	1829	1830	1830	1830	1831	1831	1831	1831	1832	1832
10	1818	1814	1810	1807	1805	1804	1804	1804	1805	1806	1808	1810	1812	1815	1818	1820	1823	1825	1826
15	1780	1772	1764	1758	1754	1752	1750	1750	1752	1756	1760	1766	1774	1783	1791	1799	1806	1808	1808
20	1702	1689	1677	1668	1662	1658	1657	1658	1663	1670	1679	1690	1702	1717	1730	1742	1752	1753	1751
25	1546	1532	1519	1511	1508	1508	1511	1515	1523	1532	1543	1555	1568	1582	1595	1606	1615	1615	1612
30	1256	1248	1245	1251	1266	1283	1300	1316	1320	1321	1321	1320	1320	1321	1322	1323	1325	1326	1328
35	802	829	862	905	954	999	1036	1060	1034	996	951	904	868	845	830	821	820	834	855
40	320	338	367	421	496	569	634	681	652	604	547	487	448	432	424	423	429	439	454
45	120	126	131	132	128	124	122	122	135	150	165	177	178	167	154	141	128	121	118
50	75.5	75.0	74.6	73.9	73.0	72.3	71.8	71.7	73.3	75.1	76.7	77.9	77.3	74.8	72.0	69.3	67.0	66.5	66.8
55	67.8	67.6	67.5	67.4	67.4	67.3	67.1	66.9	66.3	65.5	64.6	63.6	62.2	60.5	59.0	57.8	57.0	57.7	59.0
60	62.5	63.1	63.7	64.2	64.6	64.9	64.9	64.6	63.5	62.1	60.5	58.9	57.2	55.5	54.1	53.0	52.5	53.2	54.4
65	57.9	58.9	60.0	60.8	61.2	61.4	61.4	60.9	59.4	57.6	55.7	54.0	52.7	52.0	51.6	51.4	51.5	51.6	52.0
70	57.6	60.0	62.3	63.1	62.3	61.0	59.3	57.3	55.5	53.5	51.6	49.9	48.3	47.1	46.2	45.6	45.4	46.1	47.1
75	54.8	56.1	57.6	58.8	59.6	59.9	59.6	58.6	55.4	51.6	47.4	43.2	39.2	35.8	33.0	31.1	30.3	32.7	36.0
80	49.1	49.1	49.1	49.2	49.4	49.3	48.8	47.7	44.8	41.3	37.6	33.7	29.9	26.5	23.5	21.4	20.3	22.0	24.7
85	35.7	37.1	38.3	39.0	39.0	38.5	37.7	36.4	34.5	32.3	29.8	27.1	24.0	20.6	17.6	15.2	13.8	15.5	18.2
90	26.9	27.5	28.1	28.2	27.7	27.0	26.0	24.8	23.1	21.3	19.3	17.1	14.5	11.6	8.92	6.85	5.58	7.18	9.56
95	75.3	76.1	76.9	76.0	73.8	72.4	72.6	75.0	89.5	105	119	130	127	110	91.5	75.1	63.9	81.5	105
100	133	141	155	184	229	274	318	354	363	362	351	331	297	250	203	162	132	136	157
105	597	637	688	769	870	963	1033	1069	973	843	695	543	422	341	279	237	215	216	241
110	1415	1459	1497	1514	1502	1471	1418	1340	1196	1036	871	709	575	476	398	345	317	323	356
115	1912	1892	1861	1818	1762	1691	1604	1501	1351	1190	1028	870	734	624	535	472	436	445	484
120	2030	1998	1957	1915	1870	1814	1743	1654	1510	1353	1192	1034	894	778	684	615	574	585	627
125	2091	2064	2029	1998	1969	1928	1872	1797	1660	1508	1350	1193	1054	938	842	771	729	740	781
130	2159	2140	2115	2092	2070	2036	1988	1919	1788	1642	1489	1337	1203	1093	1002	935	894	904	942
135	2242	2227	2206	2185	2162	2128	2080	2013	1888	1750	1606	1465	1341	1241	1159	1099	1063	1070	1103
140	2317	2303	2283	2259	2231	2193	2142	2075	1960	1833	1703	1576	1466	1379	1309	1257	1227	1231	1258
145	2368	2353	2331	2304	2269	2225	2170	2104	2001	1892	1780	1671	1579	1506	1448	1405	1380	1384	1404
150	2384	2367	2343	2312	2272	2225	2169	2106	2019	1929	1838	1751	1677	1620	1574	1541	1522	1523	1538
155	2352	2335	2310	2277	2236	2190	2138	2081	2014	1946	1879	1816	1762	1720	1686	1661	1647	1647	1657
160	2272	2255	2232	2203	2168	2130	2089	2045	1999	1953	1908	1866	1831	1802	1780	1763	1753	1752	1758
165	2158	2145	2129	2109	2087	2064	2038	2012	1985	1958	1932	1907	1886	1868	1854	1843	1835	1835	1838
170	2055	2047	2038	2029	2018	2007	1996	1984	1971	1958	1945	1934	1923	1914	1907	1901	1897	1896	1897
175	1984	1980	1977	1974	1971	1968	1965	1962	1959	1955	1951	1947	1944	1942	1940	1938	1937	1936	1936
180	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2025-09-28

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:229.65V I:0.3431A P:77.796W PF:0.9872 Freq:49.99Hz Lamp Flux:10240.2x1 lm																	
NAME:									TYPE:						WEIGHT:		
SPEC.:									DIM.: 960*42*38						SERIAL No.:		
MFR.: NLD25-0020-01									SUR.:0.96*0.035						Shielding Angle:		

Table--4

UNIT: cd

C(DEC) γ (DEC)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	1833	1833	1832	1832	1831	1831	1830	1829	1828	1827	1827	1829	1833	1838	1844				
5	1833	1833	1833	1832	1832	1831	1830	1829	1827	1826	1826	1828	1831	1835	1840				
10	1827	1828	1828	1827	1826	1825	1824	1822	1820	1819	1818	1819	1821	1824	1829				
15	1806	1804	1802	1800	1798	1796	1794	1793	1792	1791	1792	1793	1795	1799	1804				
20	1747	1741	1735	1728	1722	1717	1714	1716	1720	1726	1731	1736	1740	1743	1746				
25	1607	1600	1592	1583	1575	1568	1565	1572	1582	1593	1603	1610	1612	1612	1610				
30	1330	1333	1336	1340	1345	1350	1356	1366	1376	1384	1389	1388	1379	1364	1345				
35	881	910	942	976	1007	1033	1053	1052	1043	1026	1004	978	950	917	880				
40	473	497	528	565	600	629	649	638	616	587	551	516	483	447	408				
45	122	133	168	223	278	325	358	324	276	220	163	124	107	99.8	102				
50	67.9	69.9	73.8	79.3	84.9	89.9	93.7	92.4	89.8	86.5	82.9	80.2	78.7	77.7	77.1				
55	60.7	62.7	65.1	67.8	70.4	72.8	74.7	75.1	75.1	74.6	73.8	72.9	72.0	70.9	69.7				
60	56.1	58.2	60.7	63.6	66.4	68.9	70.9	71.3	71.0	70.2	69.1	67.9	66.6	65.2	63.5				
65	52.7	53.8	55.7	58.3	61.0	63.6	65.7	66.3	66.4	66.0	65.1	63.9	62.4	60.6	58.3				
70	48.4	50.1	52.1	54.4	56.7	59.0	61.2	63.2	64.8	65.8	66.1	65.4	63.4	60.5	56.7				
75	39.9	44.2	47.9	50.9	53.7	56.3	58.6	61.2	63.4	64.9	65.6	64.9	62.7	59.4	55.0				
80	28.2	32.4	37.3	42.6	47.7	52.1	55.5	54.9	53.4	51.1	48.6	46.9	46.1	45.6	45.4				
85	21.4	25.0	28.3	31.0	33.5	35.6	37.1	37.3	36.9	36.1	35.0	33.8	32.6	31.2	29.6				
90	12.4	15.4	17.8	19.3	20.6	21.7	22.5	23.4	24.1	24.5	24.6	24.4	23.7	22.8	21.4				
95	130	155	169	173	172	167	160	148	135	122	110	102	98.9	99.0	102				
100	193	245	331	446	560	662	743	728	688	631	565	512	476	443	413				
105	289	363	488	657	833	1003	1154	1217	1252	1262	1251	1230	1200	1155	1095				
110	415	501	629	793	968	1145	1314	1434	1537	1624	1694	1748	1787	1809	1816				
115	551	646	781	952	1132	1311	1480	1584	1670	1740	1796	1847	1893	1929	1957				
120	698	796	934	1106	1286	1463	1627	1718	1789	1843	1883	1922	1959	1989	2013				
125	852	948	1083	1250	1424	1594	1751	1836	1901	1948	1982	2013	2043	2065	2079				
130	1007	1097	1222	1376	1538	1696	1843	1927	1993	2042	2078	2109	2136	2155	2165				
135	1159	1238	1348	1483	1626	1768	1901	1986	2055	2110	2154	2189	2217	2235	2244				
140	1305	1372	1463	1576	1696	1817	1933	2016	2088	2149	2199	2238	2268	2288	2297				
145	1442	1495	1567	1655	1750	1848	1943	2020	2090	2152	2205	2248	2279	2300	2312				
150	1565	1604	1657	1722	1793	1867	1941	2008	2070	2128	2179	2220	2250	2272	2285				
155	1676	1703	1739	1783	1832	1883	1936	1987	2037	2083	2125	2160	2186	2205	2218				
160	1770	1787	1809	1837	1867	1900	1934	1968	2001	2033	2062	2086	2104	2119	2130				
165	1844	1853	1866	1881	1897	1915	1934	1953	1971	1989	2006	2019	2030	2039	2046				
170	1899	1903	1908	1914	1921	1928	1936	1945	1953	1961	1968	1974	1979	1983	1986				
175	1935	1936	1936	1937	1939	1940	1942	1943	1945	1947	1948	1950	1951	1952	1953				
180	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954				

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2025-09-28

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: