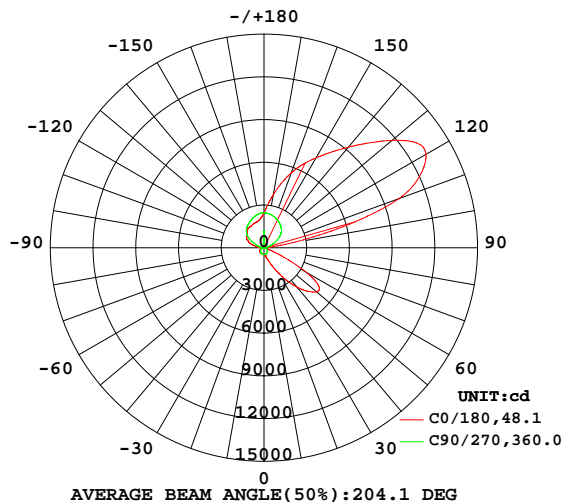


## LUMINAIRE PHOTOMETRIC TEST REPORT

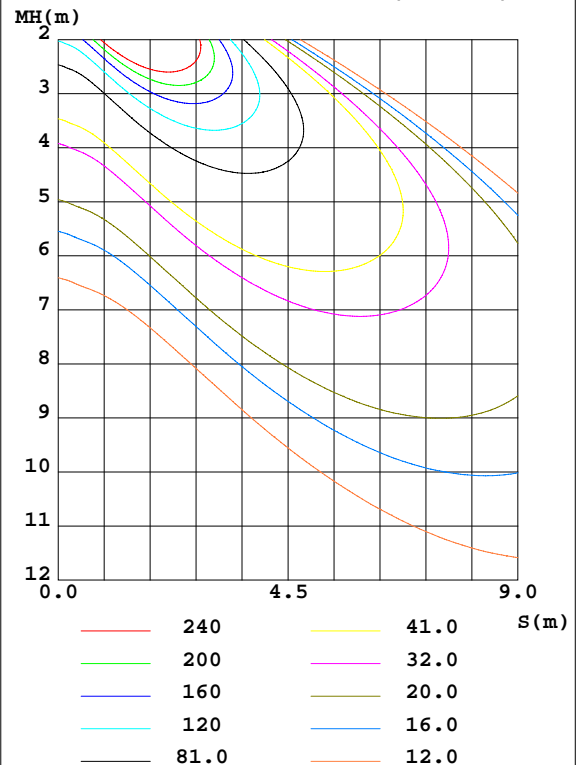
Test:U:229.51V I:0.7947A P:181.14W PF:0.9932 Freq:49.99Hz Lamp Flux:17249.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1035*160*45	SERIAL No.:
MFR.: NLD26-002-01	SUR.:0.98*0.042	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 95.23 lm/W			
MODEL		I <sub>max</sub> (cd)	13230	S/MH(C0/180)	1.36
NOMINAL POWER(W)	190	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	17250	η UP,DN(C0-180)	41.0,10.3
NOMINAL FLUX(lm)	17249.9	CIE CLASS	SEMI-IND.	η UP,DN(C180-360)	38.8,9.9
LAMPS INSIDE	1	η up(%)	79.8	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	230.0	η down(%)	20.2	CIBSE SHR MAX	1.20

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:2026-04-23

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:

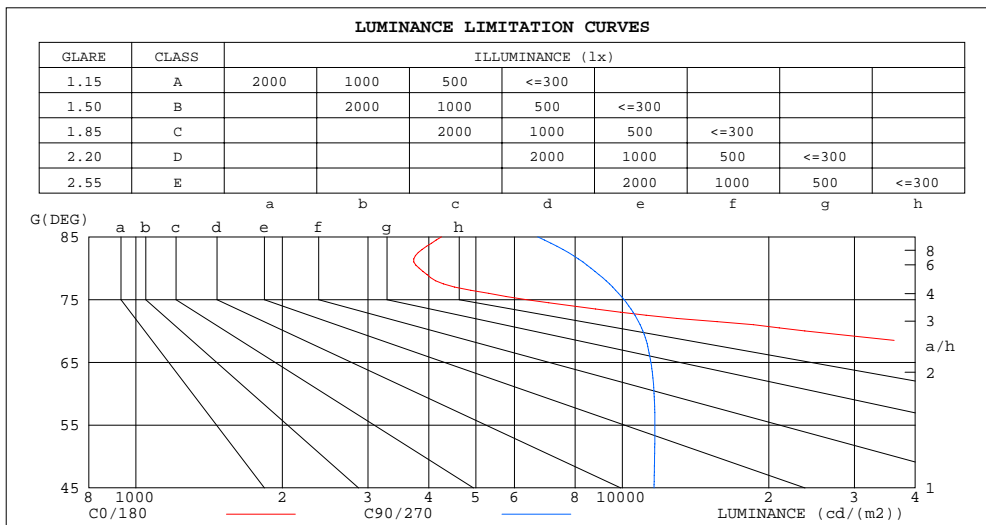
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	60.03	54.39	48.15	46.50	46.26	46.49	48.41	54.77	0- 10	47.61	47.61	0.28,0.28
20	101.6	67.32	45.53	43.96	44.73	44.00	46.04	69.10	10- 20	152.7	200.3	1.16,1.16
30	207.2	93.03	41.54	41.48	43.96	41.52	42.12	98.76	20- 30	307.4	507.7	2.94,2.94
40	360.8	125.6	36.61	38.69	42.06	38.67	37.14	137.6	30- 40	560.8	1069	6.19,6.19
50	481.7	121.6	30.82	34.53	38.66	34.54	31.28	136.6	40- 50	847.7	1916	11.1,11.1
60	334.8	75.68	23.92	28.66	32.23	28.69	24.34	84.79	50- 60	915.4	2832	16.4,16.4
70	33.40	25.97	15.51	19.91	22.68	20.24	15.95	27.74	60- 70	473.4	3305	19.2,19.2
80	2.732	3.159	6.161	9.690	11.14	9.965	6.558	3.329	70- 80	140.3	3445	20,20
90	0.5919	0.4424	0.3179	2.176	2.093	2.325	0.3582	0.4536	80- 90	40.35	3486	20.2,20.2
100	181.0	25.40	19.17	37.64	55.28	40.70	21.69	29.26	90-100	190.8	3676	21.3,21.3
110	1004	106.8	51.19	70.68	110.3	73.32	55.16	115.0	100-110	1035	4712	27.3,27.3
120	1313	254.6	104.2	99.45	141.7	101.7	111.5	270.0	110-120	2235	6946	40.3,40.3
130	1173	406.8	155.9	129.4	153.7	130.4	161.0	430.6	120-130	2838	9784	56.7,56.7
140	922.3	523.6	187.9	158.6	176.2	157.0	187.5	538.1	130-140	2701	12486	72.4,72.4
150	728.7	526.1	209.0	178.6	178.8	175.4	205.5	530.1	140-150	2199	14684	85.1,85.1
160	558.7	437.1	226.6	187.5	186.3	184.9	224.6	438.5	150-160	1508	16193	93.9,93.9
170	378.5	328.8	240.2	204.4	198.1	202.8	240.2	331.0	160-170	813.1	17006	98.6,98.6
180	245.3	245.3	245.3	245.3	245.3	245.3	245.3	245.3	170-180	244.1	17250	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2026-04-23

$\gamma$  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:229.51V I:0.7947A P:181.14W PF:0.9932 Freq:49.99Hz Lamp Flux:17249.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1035*160*45	SERIAL No.:
MFR.: NLD26-002-01	SUR.:0.98*0.042	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	4249	6699
80	3822	8620
75	6327	10085
70	23723	11018
65	80302	11447
60	162682	11622
55	199189	11664
50	182082	11648
45	148457	11621

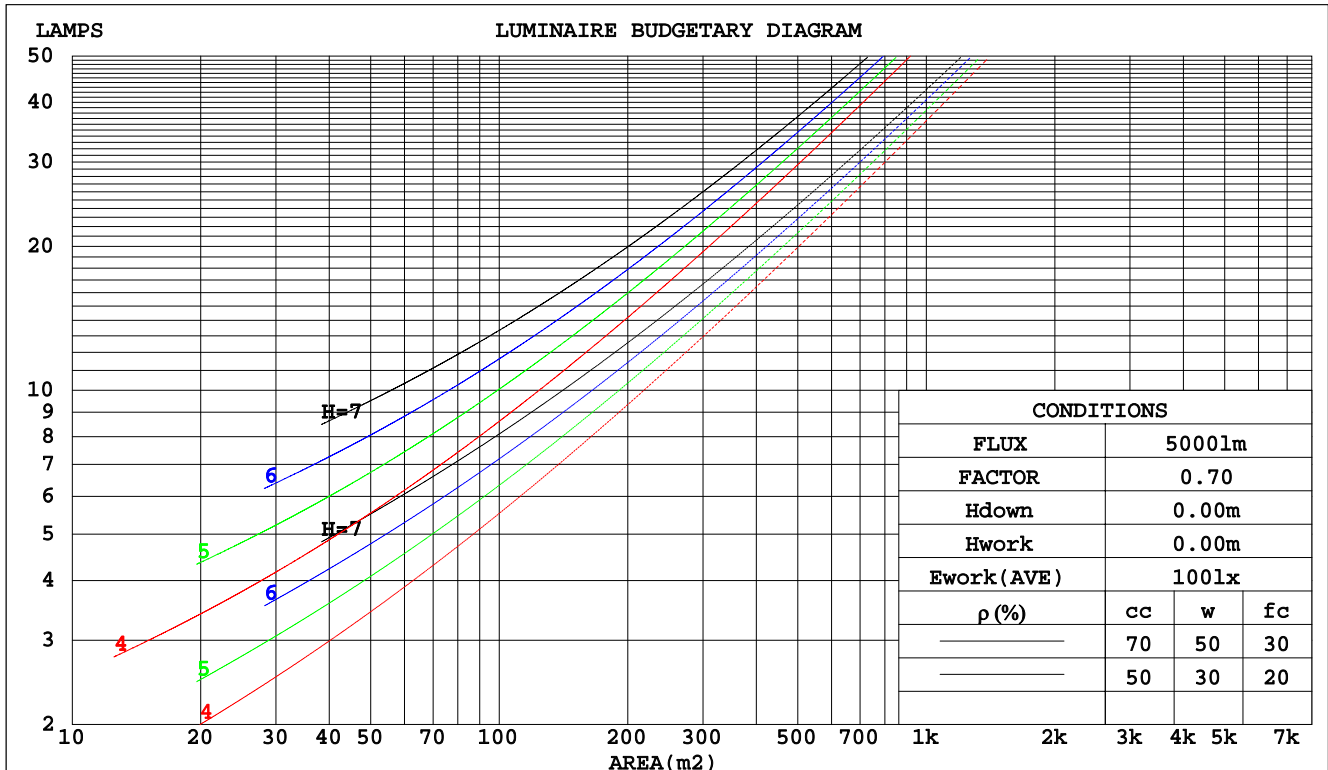
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2026-04-23

$\gamma$  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:229.51V I:0.7947A P:181.14W PF:0.9932 Freq:49.99Hz Lamp Flux:17249.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1035*160*45	SERIAL No.:
MFR.: NLD26-002-01	SUR.:0.98*0.042	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	1.00	1.00	1.00	.88	.88	.88	.67	.67	.67	.47	.47	.47	.29	.29	.29	.20
1.0	.87	.83	.80	.77	.74	.71	.58	.56	.54	.41	.40	.39	.25	.25	.24	.17
2.0	.76	.70	.65	.67	.62	.58	.51	.47	.45	.36	.34	.32	.22	.21	.20	.14
3.0	.66	.59	.53	.58	.52	.48	.44	.40	.37	.31	.29	.26	.19	.18	.16	.11
4.0	.58	.50	.44	.51	.45	.40	.39	.34	.31	.27	.24	.22	.17	.15	.14	.09
5.0	.51	.43	.37	.45	.39	.34	.34	.30	.26	.24	.21	.19	.15	.13	.12	.08
6.0	.45	.38	.32	.40	.34	.29	.31	.26	.22	.21	.18	.16	.13	.11	.10	.06
7.0	.41	.33	.27	.36	.29	.25	.27	.23	.19	.19	.16	.14	.12	.10	.08	.05
8.0	.36	.29	.24	.32	.26	.21	.25	.20	.17	.17	.14	.12	.10	.09	.07	.05
9.0	.33	.26	.21	.29	.23	.19	.22	.18	.15	.16	.13	.10	.10	.08	.06	.04
10.0	.30	.23	.18	.27	.21	.16	.20	.16	.13	.14	.11	.09	.09	.07	.06	.03



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2026-04-23

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:229.51V I:0.7947A P:181.14W PF:0.9932 Freq:49.99Hz Lamp Flux:17249.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1035*160*45	SERIAL No.:
MFR.: NLD26-002-01	SUR.:0.98*0.042	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	.268	.153	.048	.237	.135	.043	.179	.103	.033	.126	.072	.023	.076	.044	.014		
2.0	.250	.137	.042	.221	.122	.038	.168	.094	.029	.119	.067	.021	.074	.042	.013		
3.0	.232	.123	.037	.206	.110	.033	.157	.085	.026	.112	.061	.019	.070	.039	.012		
4.0	.215	.112	.033	.191	.100	.030	.146	.077	.023	.104	.056	.017	.065	.035	.011		
5.0	.200	.102	.030	.178	.091	.027	.136	.071	.021	.097	.051	.015	.061	.033	.010		
6.0	.186	.093	.027	.166	.084	.024	.127	.065	.019	.091	.047	.014	.057	.030	.009		
7.0	.174	.086	.024	.155	.077	.022	.119	.060	.017	.085	.044	.013	.053	.028	.008		
8.0	.163	.080	.022	.145	.071	.020	.111	.056	.016	.080	.040	.012	.050	.026	.007		
9.0	.153	.074	.021	.136	.066	.019	.105	.052	.015	.075	.038	.011	.047	.024	.007		
10.0	.144	.069	.019	.128	.062	.017	.099	.048	.014	.071	.035	.010	.044	.022	.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	.798	.798	.798	.682	.682	.682	.466	.466	.466	.268	.268	.268	.086	.086	.086	
1.0	.790	.769	.751	.676	.660	.646	.463	.454	.447	.266	.263	.260	.085	.085	.084	
2.0	.784	.749	.720	.671	.645	.623	.460	.446	.434	.265	.260	.255	.085	.084	.083	
3.0	.778	.734	.700	.667	.634	.607	.458	.440	.426	.264	.257	.251	.085	.083	.082	
4.0	.772	.723	.687	.662	.625	.596	.455	.436	.420	.263	.255	.248	.085	.083	.082	
5.0	.766	.715	.677	.658	.618	.589	.453	.432	.416	.262	.254	.247	.085	.083	.081	
6.0	.760	.708	.670	.653	.613	.584	.451	.429	.413	.262	.252	.245	.084	.083	.081	
7.0	.755	.702	.665	.649	.609	.580	.449	.427	.411	.261	.251	.245	.084	.082	.081	
8.0	.750	.697	.662	.645	.605	.577	.446	.425	.409	.260	.251	.244	.084	.082	.081	
9.0	.745	.693	.659	.641	.602	.575	.444	.423	.408	.259	.250	.243	.084	.082	.081	
10.0	.740	.690	.656	.638	.599	.573	.442	.421	.407	.258	.249	.243	.084	.082	.081	

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2026-04-23

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:229.51V I:0.7947A P:181.14W PF:0.9932 Freq:49.99Hz Lamp Flux:17249.9x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.:			DIM.: 1035*160*45			SERIAL No.:				
MFR.: NLD26-002-01			SUR.:0.98*0.042			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	28.0	28.8	29.2	29.9	31.5	15.4	16.1	16.5	17.2	18.8
3H	28.0	28.7	29.1	29.8	31.4	16.0	16.7	17.2	17.8	19.4
4H	27.8	28.4	28.9	29.5	31.1	16.3	16.9	17.4	18.0	19.6
6H	27.6	28.2	28.8	29.3	30.9	16.4	16.9	17.5	18.1	19.7
8H	27.5	28.0	28.7	29.2	30.8	16.3	16.9	17.5	18.0	19.6
12H	27.4	27.9	28.6	29.1	30.7	16.3	16.8	17.5	18.0	19.6
4H 2H	27.6	28.2	28.7	29.3	30.9	18.2	18.8	19.4	20.0	21.5
3H	27.5	28.0	28.7	29.2	30.8	18.5	19.0	19.7	20.2	21.8
4H	27.3	27.8	28.5	28.9	30.6	18.6	19.1	19.8	20.2	21.9
6H	27.1	27.5	28.3	28.7	30.3	18.6	19.0	19.8	20.2	21.9
8H	27.0	27.4	28.2	28.5	30.2	18.6	19.0	19.8	20.1	21.8
12H	26.9	27.2	28.1	28.4	30.1	18.5	18.9	19.7	20.0	21.7
8H 4H	27.0	27.4	28.2	28.5	30.2	18.5	18.9	19.7	20.0	21.7
6H	26.8	27.1	28.0	28.3	29.9	18.6	18.9	19.8	20.1	21.7
8H	26.7	26.9	27.9	28.1	29.8	18.5	18.8	19.8	20.0	21.7
12H	26.6	26.8	27.8	28.0	29.7	18.5	18.7	19.7	19.9	21.6
12H 4H	26.9	27.2	28.1	28.4	30.1	18.4	18.7	19.6	19.9	21.6
6H	26.7	26.9	27.9	28.1	29.8	18.5	18.7	19.7	19.9	21.6
8H	26.6	26.8	27.8	28.0	29.7	18.4	18.7	19.7	19.9	21.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.5					+ 1.0 / - 1.5				
1.5H	+ 3.0 / - 3.9					+ 1.2 / - 1.1				
2.0H	+ 3.2 / - 7.9					+ 2.3 / - 2.2				

CIE Pub.117, 17250 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 9.9)

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2026-04-23

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:229.51V I:0.7947A P:181.14W PF:0.9932 Freq:49.99Hz Lamp Flux:17249.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1035*160*45	SERIAL No.:
MFR.: NLD26-002-01	SUR.:0.98*0.042	Shielding Angle:

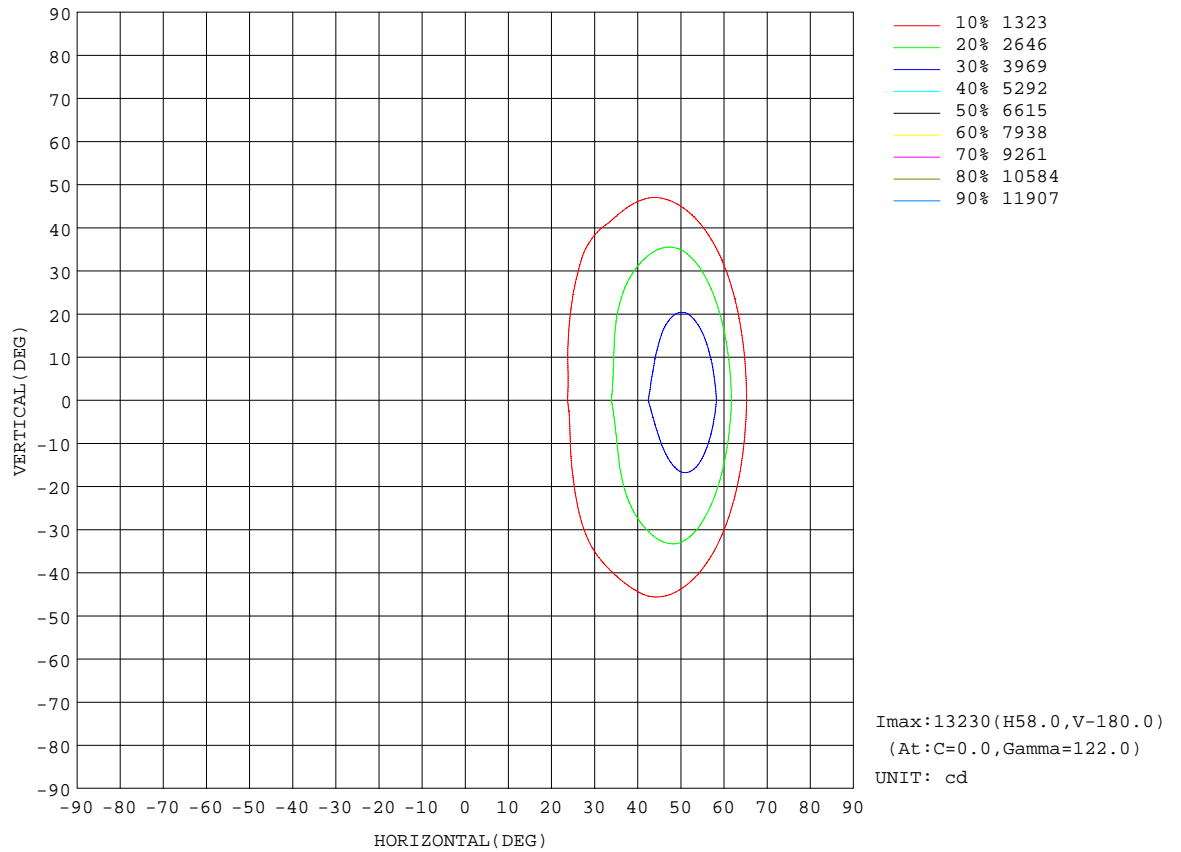
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	33	22	16	30	20	15	24	16	12	4
0.80	43	31	24	38	28	22	30	22	18	6
1.00	51	39	31	45	35	29	35	28	23	8
1.25	58	46	39	52	42	35	40	33	28	10
1.50	64	52	45	56	47	40	43	37	32	11
2.00	71	61	54	63	55	48	48	43	38	13
2.50	76	67	60	67	60	54	51	46	42	14
3.00	80	72	65	71	64	58	54	49	45	15
4.00	84	77	72	75	69	64	57	53	50	16
5.00	87	81	76	77	72	68	58	55	53	17
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:2026-04-23

$\gamma$  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:229.51V I:0.7947A P:181.14W PF:0.9932 Freq:49.99Hz Lamp Flux:17249.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1035*160*45	SERIAL No.:
MFR.: NLD26-002-01	SUR.:0.98*0.042	Shielding Angle:

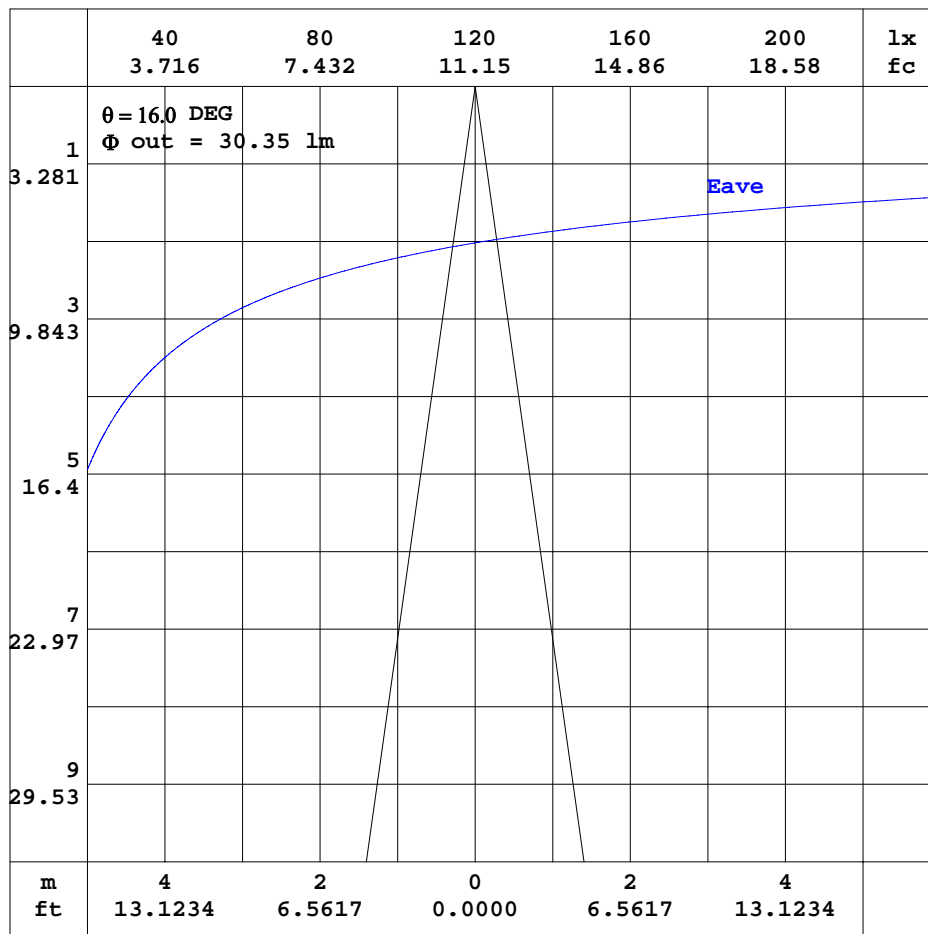


C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2026-04-23

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:

### AAI CURVES

Test:U:229.51V I:0.7947A P:181.14W PF:0.9932 Freq:49.99Hz Lamp Flux:17249.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1035*160*45	SERIAL No.:
MFR.: NLD26-002-01	SUR.:0.98*0.042	Shielding Angle:



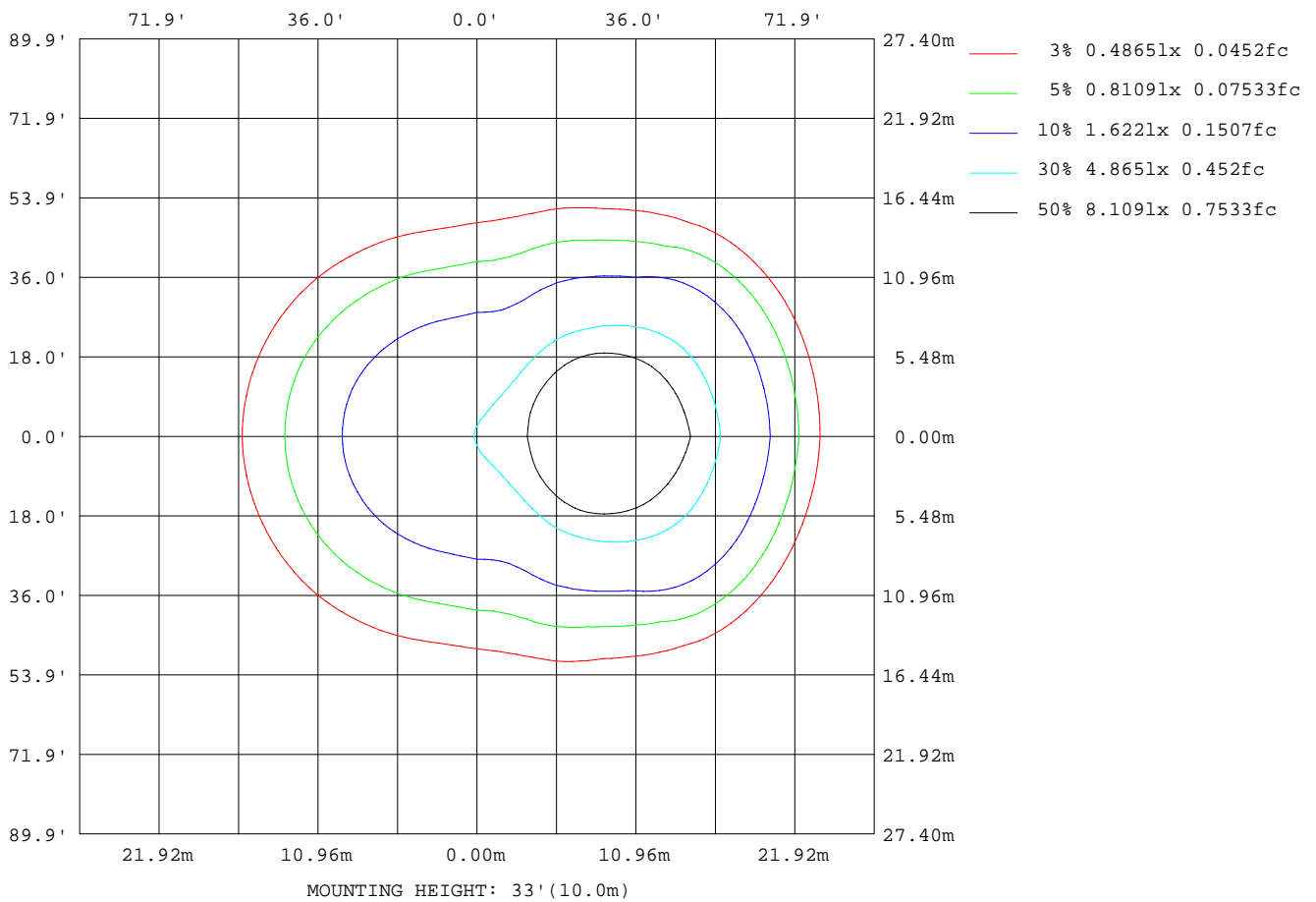
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2026-04-23

$\gamma$  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:229.51V I:0.7947A P:181.14W PF:0.9932 Freq:49.99Hz Lamp Flux:17249.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1035*160*45	SERIAL No.:
MFR.: NLD26-002-01	SUR.:0.98*0.042	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2026-04-23

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:

### LED Avg.L Report

Test:U:229.51V I:0.7947A P:181.14W PF:0.9932 Freq:49.99Hz Lamp Flux:17249.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1035*160*45	SERIAL No.:
MFR.: NLD26-002-01	SUR.:0.98*0.042	Shielding Angle:

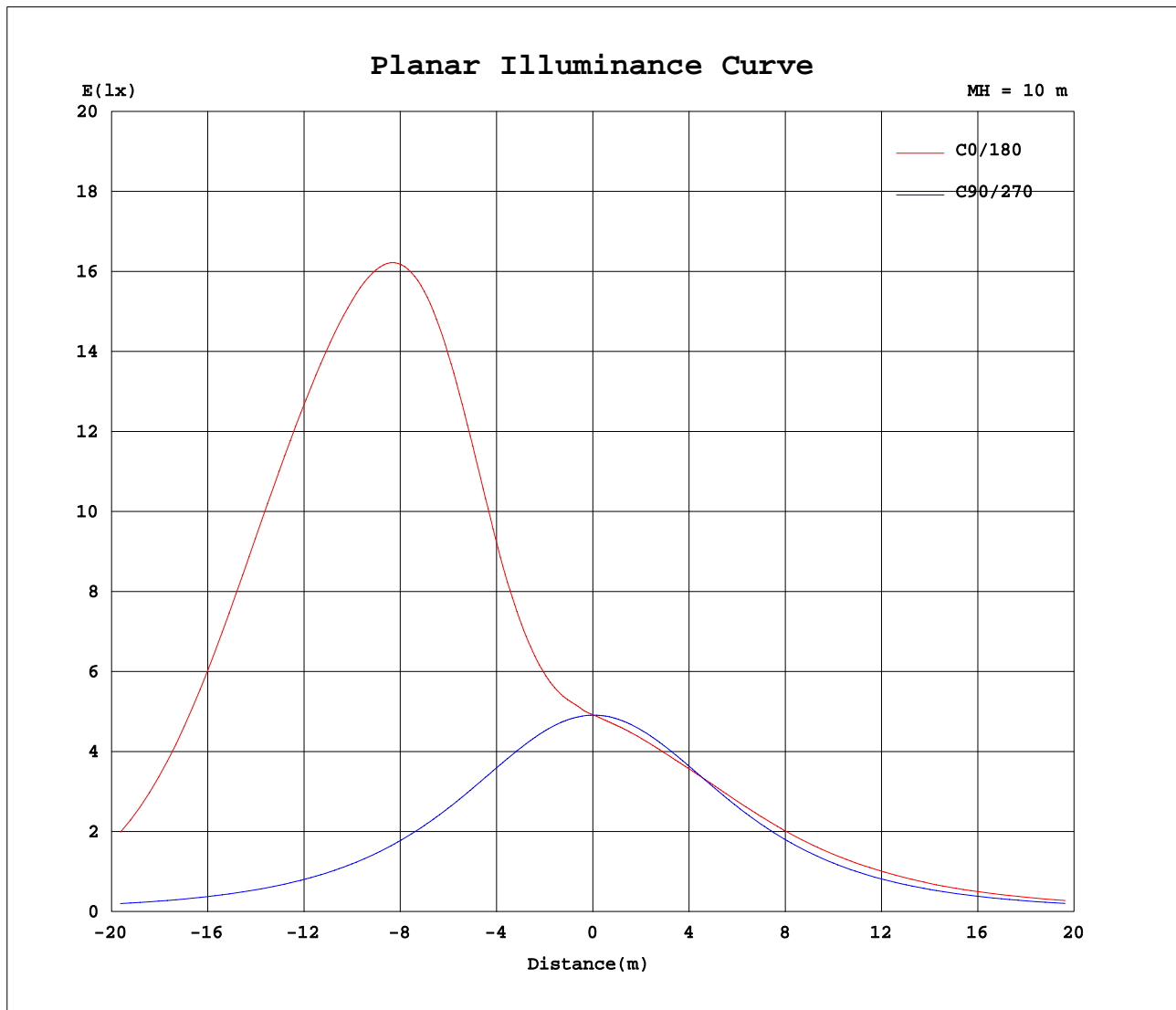
AvgL	cd/m2
L_0~180(65)av	48205
L_0~180(75)av	11075
L_0~180(85)av	12131
L_90~270(65)av	11574
L_90~270(75)av	10285
L_90~270(85)av	7136
L_45(65)av	22250
L_45(75)av	12281
L_45(85)av	9469

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2026-04-23

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: 2026-04-23

$\gamma$  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:229.51V I:0.7947A P:181.14W PF:0.9932 Freq:49.99Hz Lamp Flux:17249.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1035*160*45	SERIAL No.:
MFR.: NLD26-002-01	SUR.:0.98*0.042	Shielding Angle:

Table--1

UNIT: ×10cd

C(DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	49.2	49.3	49.3	49.4	49.4	49.4	49.3	49.3	49.2	49.1	49.2	49.3	49.3	49.4	49.4	49.3	49.3	49.2	49.1
5	52.9	52.8	52.7	52.6	52.4	52.2	52.0	51.7	51.5	51.2	51.0	50.8	50.5	50.3	50.0	49.7	49.4	49.1	48.8
10	60.0	59.7	59.3	58.9	58.3	57.6	56.9	56.1	55.3	54.4	53.6	52.7	51.9	51.1	50.4	49.8	49.2	48.6	48.1
15	74.9	74.1	73.0	71.7	70.2	68.4	66.3	64.0	61.7	59.4	57.4	55.4	53.6	52.0	50.6	49.5	48.5	47.7	47.0
20	102	99.6	97.2	94.3	91.0	86.9	82.1	77.2	72.2	67.3	63.2	59.4	56.0	53.0	50.6	48.8	47.4	46.3	45.5
25	146	141	136	131	124	116	107	97.1	87.6	78.5	71.1	64.6	58.9	54.0	50.3	47.7	45.8	44.5	43.7
30	207	200	192	182	170	157	141	124	108	93.0	81.3	71.0	62.3	55.0	49.7	46.1	43.7	42.3	41.5
35	282	271	258	243	226	205	181	157	133	110	93.0	78.2	65.6	55.4	48.2	43.7	41.0	39.6	39.2
40	361	345	326	305	281	253	220	188	156	126	103	84.1	68.2	55.5	46.6	41.3	38.2	36.8	36.6
45	432	409	384	355	325	288	248	207	168	131	106	84.6	67.5	54.1	44.7	38.8	35.5	34.0	33.8
50	482	452	419	384	347	303	255	207	162	122	96.2	76.4	61.5	50.7	42.7	36.9	33.3	31.4	30.8
55	470	439	406	370	331	287	237	188	142	101	78.5	62.6	51.7	44.9	39.2	34.1	30.6	28.5	27.5
60	335	316	295	271	245	213	177	140	106	75.7	59.9	48.8	41.5	37.1	33.2	29.3	26.6	24.9	23.9
65	140	133	126	117	108	97.5	85.3	73.0	61.2	50.3	43.3	37.6	33.0	29.4	26.4	23.9	22.0	20.7	19.9
70	33.4	33.5	33.4	33.1	32.5	31.5	30.3	28.9	27.4	26.0	24.8	23.7	22.6	21.5	20.2	18.8	17.5	16.4	15.5
75	6.74	6.94	7.20	7.51	7.89	8.34	8.86	9.42	10.0	10.7	11.6	12.5	13.3	13.8	13.7	13.0	12.2	11.4	10.7
80	2.73	2.64	2.58	2.55	2.56	2.57	2.59	2.67	2.86	3.16	3.93	4.77	5.60	6.34	6.68	6.61	6.45	6.28	6.16
85	1.52	1.51	1.49	1.46	1.43	1.39	1.33	1.29	1.25	1.22	1.21	1.23	1.27	1.35	1.47	1.64	1.86	2.11	2.40
90	0.59	0.57	0.54	0.52	0.50	0.48	0.47	0.46	0.45	0.44	0.44	0.44	0.43	0.43	0.38	0.31	0.26	0.26	0.32
95	15.8	13.4	11.3	9.66	8.37	7.59	7.28	7.24	7.37	7.62	7.69	7.76	7.83	7.88	7.69	7.31	7.02	6.91	7.07
100	181	142	108	79.4	56.6	41.0	32.2	27.3	25.4	25.4	23.6	22.5	22.0	21.8	21.2	20.3	19.6	19.2	19.2
105	577	455	349	260	186	133	99.0	77.2	64.6	58.5	49.5	43.7	40.3	38.7	37.2	35.4	34.4	34.0	34.3
110	1004	824	664	525	405	309	236	179	137	107	84.5	70.3	62.4	59.1	56.3	52.9	51.1	50.6	51.2
115	1211	1037	878	734	605	491	393	308	238	182	145	118	101	91.0	83.7	77.6	74.4	73.4	73.8
120	1313	1173	1038	909	786	664	544	434	337	255	209	178	158	147	137	125	116	109	104
125	1292	1188	1084	979	873	759	639	525	420	328	278	242	217	200	184	168	154	142	132
130	1173	1106	1034	957	877	785	685	586	492	407	353	310	277	250	226	204	185	169	156
135	1042	1001	955	903	846	779	703	625	549	477	423	375	333	296	264	235	211	191	174
140	922	899	870	836	797	750	696	639	581	524	472	423	377	335	296	263	234	209	188
145	820	807	789	767	740	708	670	629	585	540	493	447	402	358	318	283	251	223	199
150	729	722	711	697	678	655	627	596	562	526	486	445	404	364	326	291	260	232	209
155	646	643	636	625	611	593	571	546	518	488	455	421	387	354	321	291	264	239	218
160	559	556	551	543	533	518	501	482	460	437	412	386	360	335	310	286	264	244	227
165	467	465	462	456	448	439	426	413	398	382	365	347	330	312	295	278	262	247	234
170	379	377	375	372	367	362	355	347	338	329	319	308	298	287	277	267	257	248	240
175	301	301	300	299	297	294	291	288	284	280	276	272	268	264	260	256	252	248	244
180	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2026-04-23

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:229.51V I:0.7947A P:181.14W PF:0.9932 Freq:49.99Hz Lamp Flux:17249.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1035*160*45	SERIAL No.:
MFR.: NLD26-002-01	SUR.:0.98*0.042	Shielding Angle:

Table--2

UNIT: ×10cd

C(DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	49.1	49.1	49.1	49.1	49.2	49.2	49.2	49.3	49.3	49.2	49.2	49.1	49.0	49.0	49.0	49.1	49.1	49.2	49.3
5	48.6	48.5	48.3	48.2	48.1	48.0	47.9	47.8	47.7	47.6	47.5	47.4	47.3	47.2	47.2	47.3	47.3	47.4	47.5
10	47.8	47.5	47.2	47.0	46.8	46.7	46.6	46.6	46.5	46.4	46.3	46.2	46.1	46.1	46.1	46.1	46.2	46.3	46.3
15	46.5	46.1	45.8	45.6	45.5	45.4	45.3	45.3	45.3	45.2	45.1	45.1	45.0	45.0	45.1	45.2	45.3	45.3	45.4
20	44.9	44.5	44.2	44.1	44.0	43.9	43.9	43.9	44.0	44.0	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8
25	43.0	42.5	42.3	42.2	42.3	42.3	42.4	42.5	42.7	42.9	43.1	43.3	43.5	43.7	44.0	44.1	44.3	44.4	44.4
30	40.7	40.3	40.2	40.3	40.4	40.6	40.8	41.1	41.5	41.8	42.2	42.5	42.8	43.1	43.4	43.7	43.8	44.0	44.0
35	38.3	37.9	37.9	38.1	38.4	38.7	39.2	39.7	40.2	40.7	41.1	41.5	41.9	42.3	42.6	42.9	43.1	43.2	43.2
40	35.7	35.3	35.4	35.8	36.2	36.7	37.3	38.0	38.7	39.2	39.8	40.3	40.7	41.1	41.5	41.7	41.9	42.1	42.1
45	32.9	32.6	32.8	33.3	33.9	34.5	35.3	36.0	36.8	37.4	38.0	38.6	39.1	39.5	39.9	40.2	40.4	40.5	40.5
50	30.0	29.7	30.0	30.7	31.4	32.1	32.9	33.7	34.5	35.2	35.9	36.5	37.0	37.5	38.0	38.3	38.5	38.7	38.6
55	26.8	26.7	27.1	27.9	28.7	29.4	30.2	31.0	31.8	32.5	33.2	33.8	34.4	34.8	35.1	35.4	35.5	35.6	35.6
60	23.5	23.5	24.0	24.8	25.5	26.3	27.1	27.9	28.7	29.3	29.8	30.3	30.7	31.1	31.5	31.9	32.1	32.2	32.2
65	19.7	20.0	20.5	21.2	21.8	22.4	23.1	23.7	24.3	24.9	25.5	26.0	26.5	27.0	27.4	27.7	27.9	28.0	27.9
70	15.6	15.9	16.4	17.1	17.7	18.3	18.8	19.4	19.9	20.4	20.8	21.2	21.6	21.9	22.2	22.4	22.6	22.7	22.6
75	10.9	11.4	11.9	12.5	13.1	13.6	14.1	14.5	14.9	15.2	15.5	15.7	15.9	16.1	16.4	16.6	16.8	16.9	16.8
80	6.52	6.98	7.49	8.02	8.47	8.82	9.14	9.43	9.69	9.92	10.1	10.3	10.5	10.6	10.8	11.0	11.1	11.1	11.1
85	2.78	3.17	3.58	3.99	4.35	4.66	4.96	5.23	5.50	5.80	6.08	6.34	6.57	6.78	6.94	7.07	7.15	7.18	7.11
90	0.63	1.00	1.39	1.75	1.99	2.10	2.15	2.17	2.18	2.22	2.25	2.27	2.28	2.26	2.22	2.17	2.12	2.09	2.13
95	8.15	9.51	11.1	12.8	14.4	15.9	17.4	18.9	20.3	21.4	22.6	23.6	24.6	25.7	26.8	27.7	28.5	29.1	29.1
100	20.3	21.9	23.8	26.0	28.2	30.5	32.8	35.2	37.6	40.1	42.5	44.8	47.0	49.2	51.2	53.0	54.4	55.3	55.2
105	35.5	37.1	39.2	41.6	44.1	46.6	49.3	52.2	55.3	58.7	62.3	66.0	69.7	73.7	78.0	81.8	84.8	86.8	85.7
110	52.0	53.5	55.5	57.8	60.1	62.3	64.8	67.6	70.7	74.6	78.8	83.3	87.9	93.1	98.7	104	108	110	109
115	72.8	72.5	72.8	73.7	75.0	76.6	78.8	81.5	84.8	89.1	93.9	98.9	104	110	116	122	127	130	128
120	98.4	93.9	90.5	88.5	88.2	89.7	92.1	95.5	99.5	104	108	113	118	123	129	135	139	142	140
125	123	114	108	104	102	103	106	110	114	117	121	124	127	131	136	140	143	145	144
130	144	135	127	122	120	121	123	126	129	132	134	137	140	143	146	150	152	154	152
135	161	151	143	138	136	137	138	141	145	147	149	152	154	157	160	163	165	166	165
140	173	163	155	151	150	150	152	155	159	160	162	164	166	169	171	173	175	176	175
145	184	173	166	162	161	162	164	167	170	171	172	173	173	174	175	176	177	177	176
150	194	184	177	173	171	172	173	176	179	179	179	180	180	180	179	179	179	179	179
155	204	194	187	183	180	180	180	182	184	184	184	184	185	184	184	184	183	183	183
160	215	205	198	193	190	188	187	187	188	187	187	187	187	187	187	187	187	186	186
165	224	216	210	205	201	198	196	194	193	192	192	191	191	190	190	190	190	190	190
170	233	227	222	218	214	211	208	206	204	203	201	200	200	199	199	198	198	198	198
175	241	237	234	231	229	226	224	223	221	219	218	217	216	215	215	215	214	214	214
180	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2026-04-23

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:229.51V I:0.7947A P:181.14W PF:0.9932 Freq:49.99Hz Lamp Flux:17249.9x1 lm																		
NAME:									TYPE:					WEIGHT:				
SPEC.:									DIM.: 1035*160*45					SERIAL No.:				
MFR.: NLD26-002-01									SUR.:0.98*0.042					Shielding Angle:				

Table--3

UNIT: ×10cd

C(DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	49.3	49.4	49.4	49.4	49.3	49.3	49.2	49.1	49.2	49.3	49.3	49.4	49.4	49.3	49.3	49.2	49.1	49.1	49.1
5	47.5	47.6	47.6	47.6	47.6	47.6	47.7	47.7	47.8	48.0	48.2	48.4	48.5	48.6	48.7	48.9	49.0	49.2	49.4
10	46.4	46.4	46.5	46.5	46.4	46.4	46.4	46.5	46.6	46.8	47.0	47.2	47.4	47.6	47.8	48.1	48.4	48.9	49.4
15	45.4	45.4	45.4	45.4	45.4	45.3	45.3	45.3	45.4	45.5	45.6	45.9	46.0	46.2	46.5	46.9	47.4	48.2	49.1
20	44.8	44.7	44.7	44.5	44.4	44.2	44.1	44.0	44.0	44.1	44.2	44.3	44.5	44.6	44.9	45.4	46.0	46.9	48.2
25	44.4	44.3	44.1	43.9	43.6	43.3	43.0	42.7	42.6	42.5	42.5	42.6	42.7	42.7	43.0	43.5	44.3	45.2	46.7
30	43.9	43.8	43.6	43.2	42.8	42.4	41.9	41.5	41.2	41.0	40.8	40.7	40.6	40.6	40.7	41.2	42.1	43.0	44.6
35	43.1	43.0	42.7	42.3	41.8	41.3	40.8	40.2	39.7	39.3	39.0	38.7	38.5	38.2	38.3	38.8	39.7	40.3	41.9
40	42.0	41.8	41.5	41.1	40.5	39.9	39.3	38.7	38.0	37.5	36.9	36.5	36.1	35.7	35.7	36.1	37.1	37.4	39.0
45	40.4	40.2	39.8	39.4	38.8	38.2	37.5	36.8	36.1	35.4	34.7	34.2	33.6	33.1	32.9	33.3	34.3	34.6	36.3
50	38.5	38.2	37.8	37.3	36.7	36.0	35.3	34.5	33.8	33.0	32.3	31.7	31.0	30.3	30.0	30.3	31.3	31.9	34.1
55	35.5	35.4	35.1	34.7	34.1	33.4	32.6	31.8	31.0	30.3	29.5	28.9	28.1	27.4	27.0	27.1	28.0	29.1	31.4
60	32.0	31.8	31.4	31.0	30.5	30.0	29.4	28.7	27.9	27.1	26.3	25.6	24.8	24.1	23.7	23.8	24.3	25.3	27.1
65	27.7	27.4	27.0	26.6	26.2	25.7	25.2	24.6	23.9	23.2	22.6	21.9	21.3	20.6	20.2	20.1	20.4	21.1	22.5
70	22.5	22.3	22.0	21.8	21.4	21.1	20.7	20.2	19.7	19.1	18.4	17.8	17.2	16.6	16.1	15.9	15.9	16.8	17.9
75	16.7	16.5	16.3	16.1	15.9	15.8	15.5	15.3	14.8	14.3	13.8	13.3	12.7	12.1	11.6	11.3	11.2	11.9	12.7
80	11.0	10.8	10.7	10.6	10.4	10.3	10.2	9.96	9.69	9.38	9.04	8.67	8.23	7.74	7.28	6.88	6.56	6.68	6.85
85	7.00	6.84	6.66	6.48	6.29	6.08	5.86	5.62	5.37	5.11	4.82	4.52	4.18	3.82	3.44	3.07	2.72	2.39	2.10
90	2.17	2.23	2.28	2.32	2.34	2.34	2.34	2.32	2.34	2.33	2.28	2.17	1.92	1.52	1.10	0.70	0.36	0.29	0.30
95	28.8	28.3	27.6	26.7	25.8	24.6	23.4	22.1	20.8	19.5	18.0	16.6	14.9	13.1	11.4	9.89	8.73	8.77	9.11
100	54.5	53.5	52.0	50.2	48.1	45.7	43.3	40.7	38.2	35.8	33.4	31.0	28.7	26.4	24.4	22.8	21.7	22.0	22.7
105	83.4	80.4	76.7	72.8	69.0	65.1	61.2	57.5	54.5	51.7	49.3	47.0	44.6	42.3	40.3	38.7	37.7	37.8	38.5
110	105	101	96.2	91.2	86.5	81.9	77.5	73.3	70.3	67.7	65.4	63.4	61.2	59.0	57.1	55.8	55.2	54.9	55.7
115	124	119	113	108	102	97.0	92.0	87.5	84.2	81.6	79.5	78.1	77.0	76.3	76.3	77.1	78.8	79.9	82.6
120	136	131	126	120	115	110	106	102	97.8	94.6	92.3	91.2	92.0	94.7	98.9	104	111	118	127
125	141	138	133	130	126	123	119	116	112	109	106	106	108	113	120	129	140	151	164
130	150	147	144	141	138	135	133	130	127	125	123	123	126	131	138	148	161	175	192
135	163	161	158	155	152	149	147	144	141	139	137	138	140	145	152	162	176	194	216
140	173	171	168	166	163	161	159	157	154	151	149	149	151	155	162	173	188	209	236
145	175	174	173	171	171	170	169	168	165	162	160	159	161	164	171	182	197	221	250
150	178	178	178	177	177	177	176	175	173	171	169	169	170	174	180	191	205	229	258
155	183	183	182	182	182	181	181	181	179	178	177	178	180	184	191	201	215	236	262
160	186	186	185	185	185	185	185	185	184	185	185	187	191	196	203	212	225	242	262
165	189	189	189	189	189	190	190	191	192	194	196	199	203	209	215	223	233	247	261
170	198	198	198	198	199	200	201	203	205	207	210	213	217	222	227	233	240	248	257
175	214	215	215	215	216	217	219	220	222	224	226	229	231	234	238	241	244	248	252
180	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2026-04-23

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:229.51V I:0.7947A P:181.14W PF:0.9932 Freq:49.99Hz Lamp Flux:17249.9x1 lm																	
NAME:									TYPE:						WEIGHT:		
SPEC.:									DIM.: 1035*160*45						SERIAL No.:		
MFR.: NLD26-002-01									SUR.:0.98*0.042						Shielding Angle:		

Table--4

UNIT: x10cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	49.1	49.1	49.2	49.2	49.2	49.3	49.3	49.2	49.2	49.1	49.0	49.0	49.0	49.1	49.1				
5	49.7	50.0	50.3	50.5	50.8	51.1	51.4	51.7	51.9	52.1	52.3	52.5	52.6	52.8	52.9				
10	50.0	50.6	51.3	52.2	53.0	53.9	54.8	55.7	56.6	57.4	58.2	58.8	59.3	59.6	59.9				
15	50.1	51.4	52.9	54.5	56.4	58.3	60.4	62.8	65.2	67.5	69.6	71.4	72.7	73.7	74.5				
20	49.7	51.7	54.2	57.3	60.9	64.8	69.1	74.3	79.5	84.7	89.5	93.5	96.5	98.8	101				
25	48.8	51.7	55.7	60.9	67.0	73.9	81.6	91.4	102	112	121	129	135	140	143				
30	47.2	51.1	57.1	65.2	74.9	86.1	98.8	115	132	149	165	178	189	197	203				
35	45.1	50.1	58.3	69.9	83.9	100	119	143	169	194	218	238	253	266	275				
40	42.5	48.6	58.8	73.6	91.6	113	138	170	204	238	271	299	320	337	351				
45	40.1	46.8	57.9	73.6	93.4	117	146	186	228	271	312	347	375	398	417				
50	38.2	44.9	54.6	67.8	85.4	108	137	181	230	281	330	373	406	436	461				
55	35.3	41.2	48.2	56.9	69.9	88.3	113	158	208	261	312	357	392	422	449				
60	30.1	34.5	39.3	45.1	54.0	66.9	84.8	119	156	195	233	265	288	308	323				
65	24.5	27.2	30.7	35.1	40.5	47.3	55.5	68.2	81.8	95.5	109	119	127	133	137				
70	19.3	20.8	22.2	23.5	24.9	26.3	27.7	29.7	31.6	33.3	34.8	35.6	35.8	35.5	34.7				
75	13.5	14.2	14.3	13.9	13.2	12.4	11.5	10.7	10.00	9.30	8.65	8.09	7.64	7.27	6.97				
80	6.99	7.03	6.66	5.88	5.01	4.14	3.33	2.99	2.78	2.67	2.63	2.61	2.58	2.59	2.64				
85	1.84	1.61	1.45	1.34	1.28	1.25	1.24	1.27	1.31	1.37	1.42	1.47	1.49	1.51	1.52				
90	0.35	0.43	0.47	0.46	0.46	0.45	0.45	0.48	0.51	0.55	0.58	0.60	0.61	0.61	0.60				
95	9.62	10.2	10.3	9.96	9.56	9.12	8.70	8.30	8.05	8.00	8.23	8.91	10.1	11.6	13.5				
100	23.7	25.0	25.6	25.8	26.2	27.3	29.3	30.3	33.3	39.1	48.6	64.0	85.8	113	144				
105	40.0	42.2	43.8	45.3	48.7	54.9	64.6	73.9	89.9	115	151	204	275	361	462				
110	57.8	61.6	64.6	67.9	76.1	91.2	115	151	199	261	338	435	551	685	836				
115	87.4	95.0	102	111	128	154	194	261	343	438	545	660	783	916	1058				
120	137	151	161	171	190	222	270	366	478	602	732	855	971	1085	1200				
125	179	198	214	232	258	295	349	449	562	684	808	922	1022	1117	1207				
130	213	237	263	293	329	374	431	519	616	717	817	907	983	1053	1116				
135	242	273	308	347	392	443	499	572	648	725	799	864	918	966	1007				
140	267	302	342	387	435	485	538	596	654	710	763	808	845	877	902				
145	283	321	362	407	453	501	548	593	636	677	714	746	771	792	808				
150	290	326	365	406	448	490	530	566	600	631	658	680	698	713	723				
155	290	320	353	388	422	457	490	519	546	571	593	611	625	635	643				
160	285	309	334	361	387	413	438	461	481	500	516	530	541	549	555				
165	277	294	312	330	348	366	383	399	413	425	436	446	454	460	464				
170	266	276	287	298	310	321	331	340	347	354	360	365	370	374	376				
175	256	260	265	269	274	278	282	285	288	291	293	295	297	299	300				
180	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245				

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2026-04-23

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: