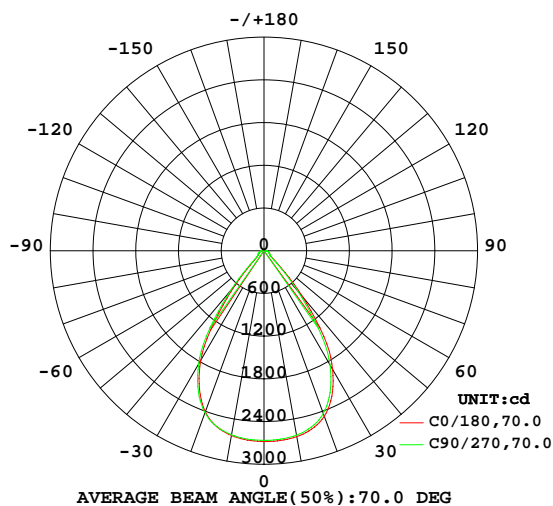


LUMINAIRE PHOTOMETRIC TEST REPORT

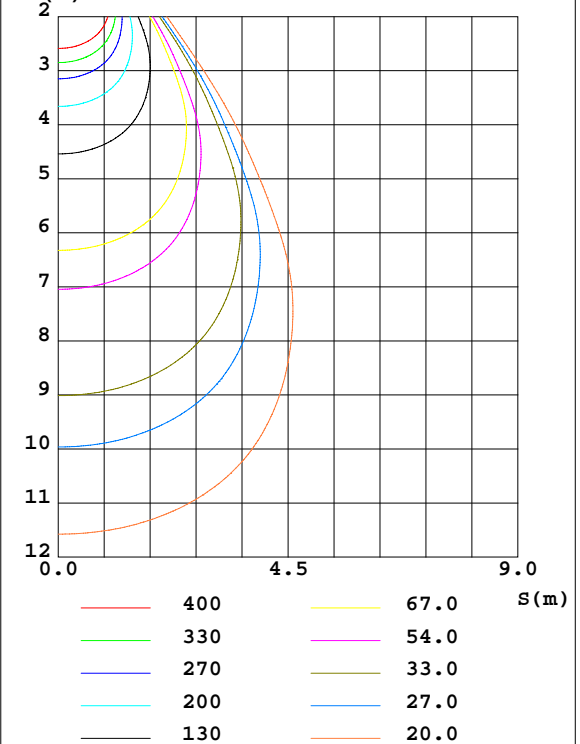
Test:U:229.72V I:0.2678A P:59.683W PF:0.9701 Freq:49.99Hz Lamp Flux:3323.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLD25-0017	SUR.:3.14*0.325*0.325	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 55.68 lm/W			
MODEL		Imax(cd)	2679	S/MH(C0/180)	0.99
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	1.02
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	3323.0	η UP,DN(C0-180)	0.0,50.6
NOMINAL FLUX(lm)	3323.03	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	230.0	η down(%)	100.0	CIBSE SHR MAX	1.05

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-14

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

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

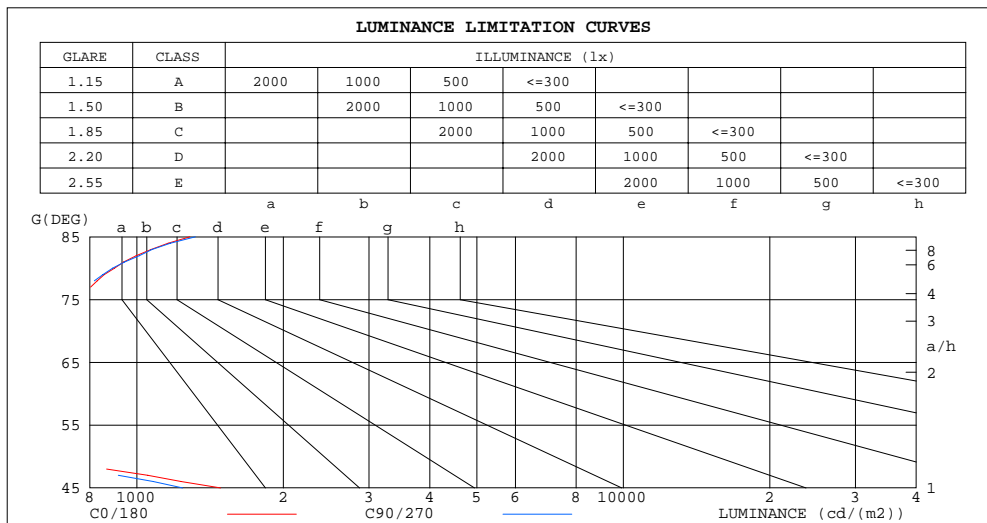
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	2650	2640	2629	2616	2635	2626	2624	2628	0- 10	252.9	252.9	7.61,7.61
20	2476	2463	2434	2405	2408	2403	2422	2441	10- 20	720.6	973.5	29.3,29.3
30	1931	1912	1857	1796	1778	1791	1836	1891	20- 30	997.4	1971	59.3,59.3
40	841.1	821.2	738.9	661.3	638.0	661.3	728.3	806.5	30- 40	811.9	2783	83.7,83.7
50	141.8	138.6	129.2	121.6	119.8	122.1	127.9	137.4	40- 50	258.7	3041	91.5,91.5
60	96.34	96.04	94.63	92.44	92.60	92.07	93.63	95.26	50- 60	95.15	3137	94.4,94.4
70	72.35	72.52	72.00	71.10	71.34	71.43	71.32	72.04	60- 70	81.19	3218	96.8,96.8
80	51.80	52.18	51.30	49.44	48.89	48.90	50.04	52.04	70- 80	66.40	3284	98.8,98.8
90	21.04	20.53	18.32	13.69	9.777	10.96	16.37	20.08	80- 90	38.79	3323	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-14

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

LUMINANCE LIMITATION CURVES

Test:U:229.72V I:0.2678A P:59.683W PF:0.9701 Freq:49.99Hz Lamp Flux:3323.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLD25-0017	SUR.:3.14*0.325*0.325	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-14

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

```

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

```

WEC AND CCEC

Test:U:229.72V I:0.2678A P:59.683W PF:0.9701 Freq:49.99Hz Lamp Flux:3323.03x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.: 650*40			SERIAL No.:		
MFR.: NLD25-0017			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	.216	.123	.039	.209	.119	.038	.196	.113	.036	.185	.106	.034	.174	.101	.032	
2.0	.202	.111	.034	.197	.108	.033	.186	.103	.032	.176	.099	.031	.166	.094	.030	
3.0	.190	.101	.030	.185	.099	.030	.175	.095	.029	.167	.091	.028	.159	.088	.027	
4.0	.179	.093	.027	.174	.091	.027	.166	.088	.026	.159	.085	.026	.152	.082	.025	
5.0	.169	.086	.025	.165	.085	.025	.158	.082	.024	.151	.080	.024	.145	.077	.023	
6.0	.160	.080	.023	.156	.079	.023	.150	.077	.022	.144	.075	.022	.139	.073	.022	
7.0	.152	.075	.021	.149	.074	.021	.143	.072	.021	.138	.071	.021	.133	.069	.020	
8.0	.144	.070	.020	.142	.070	.020	.136	.068	.019	.132	.067	.019	.127	.065	.019	
9.0	.137	.066	.019	.135	.066	.018	.131	.065	.018	.126	.063	.018	.122	.062	.018	
10.0	.131	.063	.017	.129	.062	.017	.125	.061	.017	.121	.060	.017	.117	.059	.017	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.174	.157	.142	.149	.135	.122	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.160	.132	.109	.137	.114	.094	.094	.079	.066	.054	.046	.038	.017	.015	.013	
3.0	.149	.114	.086	.128	.098	.074	.088	.068	.052	.051	.040	.031	.016	.013	.010	
4.0	.139	.099	.069	.120	.086	.060	.082	.060	.042	.048	.035	.025	.015	.011	.008	
5.0	.131	.088	.056	.113	.076	.049	.078	.053	.035	.045	.031	.021	.014	.010	.007	
6.0	.124	.079	.047	.107	.069	.041	.074	.048	.029	.043	.028	.017	.014	.009	.006	
7.0	.118	.072	.040	.101	.062	.035	.070	.044	.024	.041	.026	.015	.013	.008	.005	
8.0	.112	.066	.034	.096	.057	.030	.067	.040	.021	.039	.024	.013	.013	.008	.004	
9.0	.107	.061	.030	.092	.053	.026	.064	.037	.018	.037	.022	.011	.012	.007	.004	
10.0	.102	.056	.026	.088	.049	.023	.061	.034	.016	.036	.020	.010	.012	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-14

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

UGR(Unified Glare Rating) Table

Test:U:229.72V I:0.2678A P:59.683W PF:0.9701 Freq:49.99Hz Lamp Flux:3323.03x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 650*40			SERIAL No.:			
MFR.: NLD25-0017					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		11.1	12.2	11.3	12.3	12.5	10.7	11.8	11.0	12.0	12.2
	3H	11.4	12.4	11.7	12.6	12.8	11.1	12.1	11.4	12.3	12.6
	4H	11.8	12.7	12.1	13.0	13.2	11.5	12.5	11.8	12.7	12.9
	6H	12.2	13.1	12.5	13.4	13.6	12.0	12.9	12.3	13.1	13.4
	8H	12.5	13.3	12.8	13.6	13.9	12.3	13.1	12.6	13.4	13.7
	12H	12.8	13.6	13.1	13.9	14.2	12.6	13.4	12.9	13.7	14.0
4H	2H	11.0	12.0	11.3	12.2	12.4	10.7	11.6	11.0	11.9	12.1
	3H	11.6	12.4	11.9	12.7	13.0	11.3	12.2	11.7	12.4	12.7
	4H	12.2	12.9	12.5	13.2	13.5	11.9	12.7	12.3	13.0	13.3
	6H	12.8	13.5	13.2	13.8	14.2	12.7	13.3	13.0	13.7	14.0
	8H	13.2	13.9	13.6	14.2	14.6	13.1	13.7	13.5	14.1	14.4
	12H	13.7	14.2	14.1	14.6	15.0	13.5	14.1	14.0	14.5	14.9
8H	4H	12.4	13.0	12.8	13.3	13.7	12.2	12.8	12.6	13.1	13.5
	6H	13.3	13.8	13.7	14.2	14.6	13.1	13.6	13.6	14.0	14.5
	8H	13.8	14.3	14.3	14.7	15.1	13.7	14.2	14.2	14.6	15.0
	12H	14.4	14.8	14.9	15.3	15.7	14.4	14.7	14.8	15.2	15.7
12H	4H	12.4	13.0	12.8	13.3	13.7	12.2	12.8	12.6	13.2	13.5
	6H	13.4	13.9	13.9	14.3	14.7	13.3	13.7	13.7	14.1	14.6
	8H	14.0	14.4	14.5	14.9	15.3	13.9	14.3	14.4	14.7	15.2
Variations with the observer position at spacings:											
S = 1.0H	+ 1.2 / - 1.3					+ 1.0 / - 1.1					
1.5H	+ 2.6 / - 1.3					+ 2.3 / - 1.1					
2.0H	+ 1.1 / - 0.3					+ 0.7 / - 0.3					

CIE Pub.117, 3323 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.2$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-14

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

UTILIZATION FACTORS TABLE

Test:U:229.72V I:0.2678A P:59.683W PF:0.9701 Freq:49.99Hz Lamp Flux:3323.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLD25-0017	SUR.:3.14*0.325*0.325	Shielding Angle:

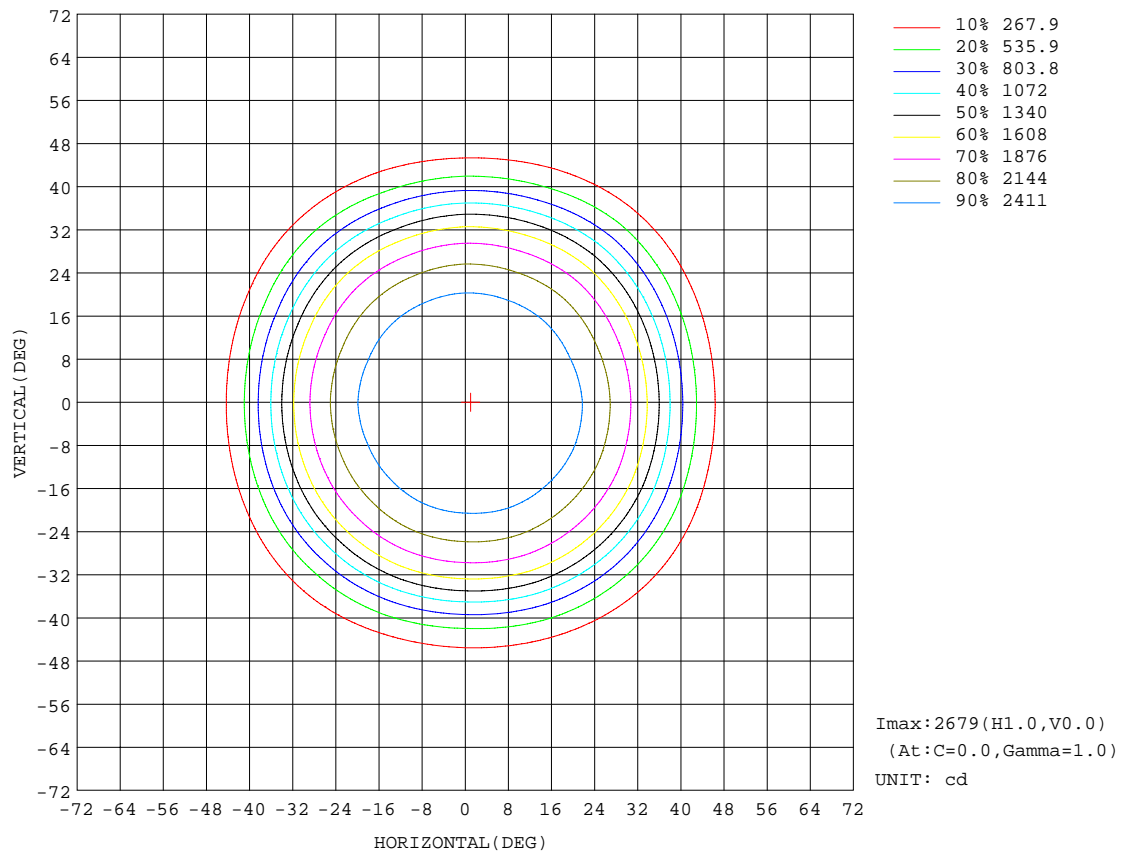
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	82	74	70	81	74	70	80	74	70	66
0.80	89	83	78	89	82	78	87	82	78	73
1.00	95	88	84	94	87	83	92	88	83	78
1.25	99	93	89	98	92	88	96	91	87	83
1.50	102	96	92	101	96	92	99	94	91	86
2.00	106	101	97	104	99	96	101	97	94	89
2.50	108	103	99	106	102	99	103	99	97	90
3.00	110	105	102	108	104	101	104	101	99	92
4.00	112	109	106	110	107	104	106	104	102	94
5.00	113	111	108	111	109	107	107	105	104	96
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-14

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

ISOCANDELA DIAGRAM

Test:U:229.72V I:0.2678A P:59.683W PF:0.9701 Freq:49.99Hz Lamp Flux:3323.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLD25-0017	SUR.:3.14*0.325*0.325	Shielding Angle:

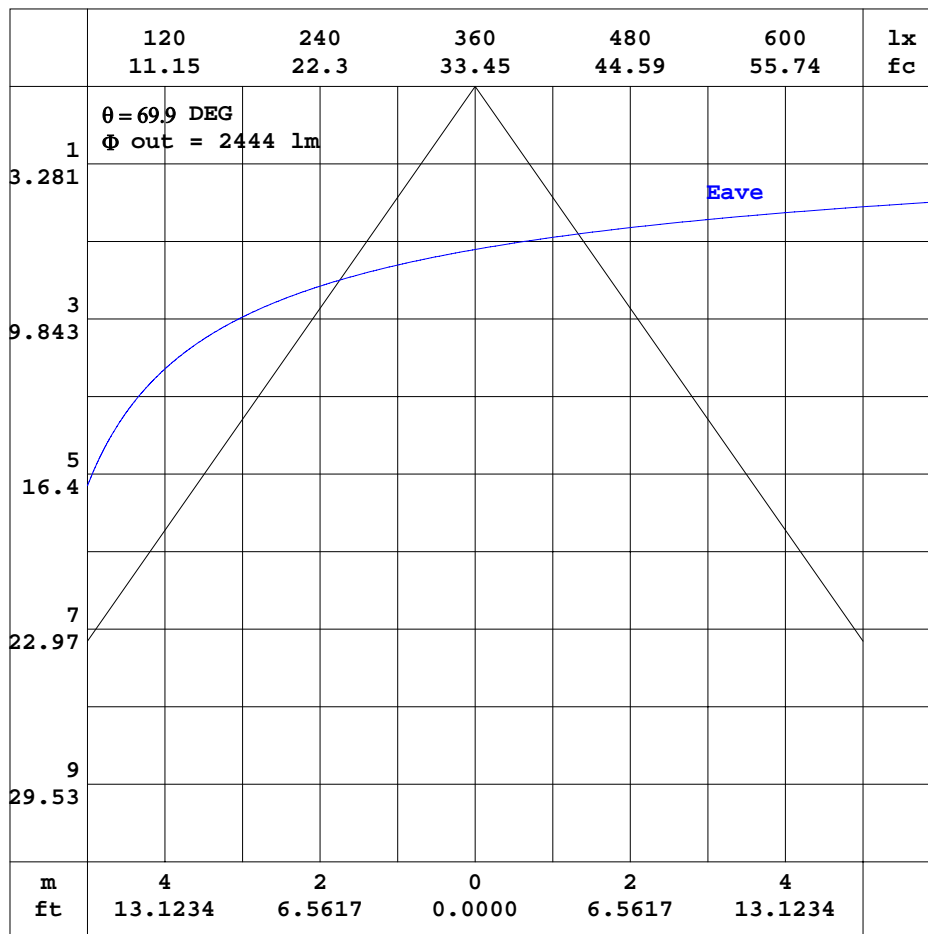


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-14

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

AAI CURVES

Test:U:229.72V I:0.2678A P:59.683W PF:0.9701 Freq:49.99Hz Lamp Flux:3323.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLD25-0017	SUR.:3.14*0.325*0.325	Shielding Angle:



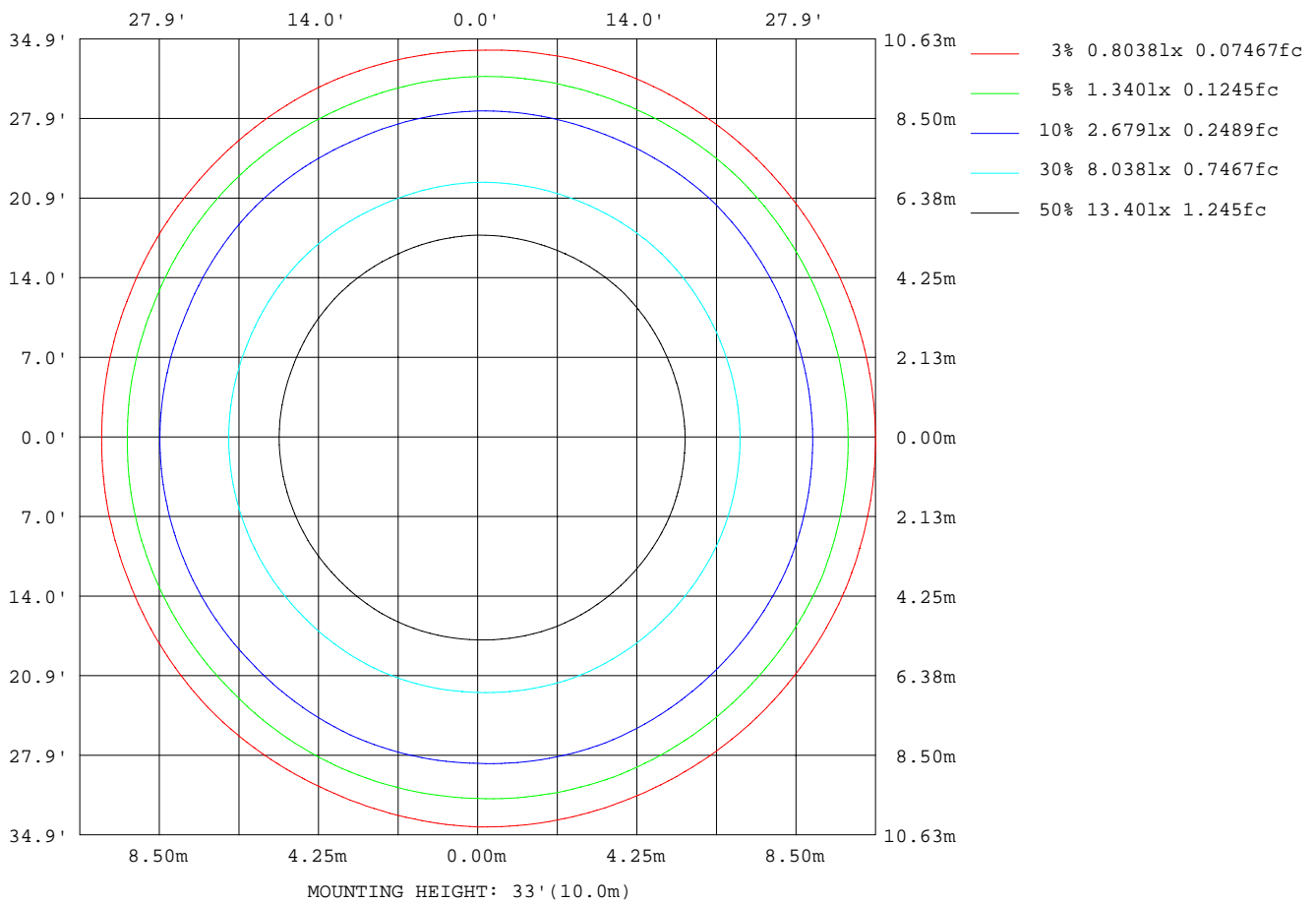
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-14

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

ISOLUX DIAGRAM

Test:U:229.72V I:0.2678A P:59.683W PF:0.9701 Freq:49.99Hz Lamp Flux:3323.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLD25-0017	SUR.:3.14*0.325*0.325	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-08-14

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

LED Avg.L Report

Test:U:229.72V I:0.2678A P:59.683W PF:0.9701 Freq:49.99Hz Lamp Flux:3323.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLD25-0017	SUR.:3.14*0.325*0.325	Shielding Angle:

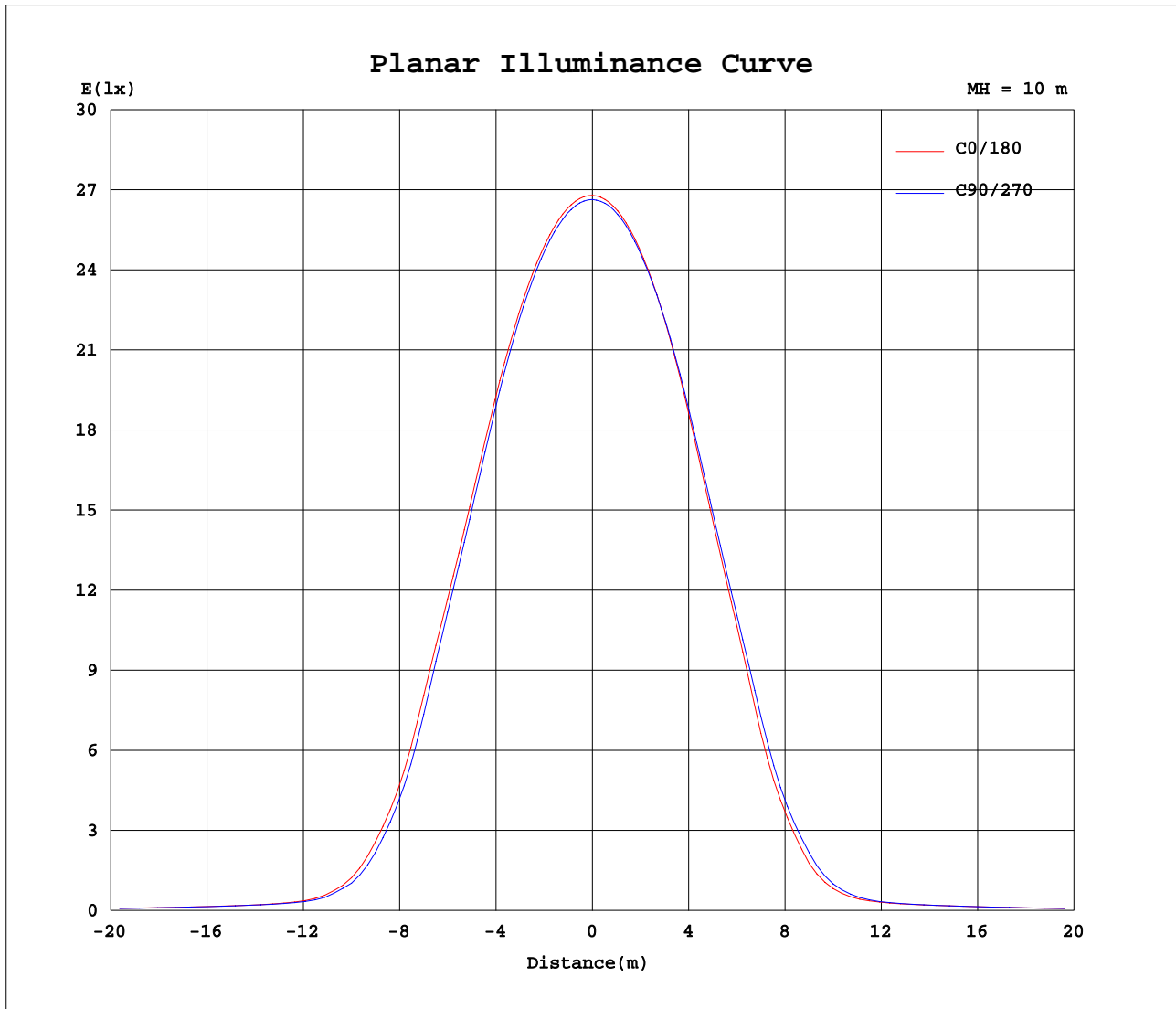
AvgL	cd/m2
L_0~180(65)av	583
L_0~180(75)av	740
L_0~180(85)av	1250
L_90~270(65)av	581
L_90~270(75)av	739
L_90~270(85)av	1300
L_45(65)av	581
L_45(75)av	744
L_45(85)av	1284

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-14

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

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-08-14

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

```

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

```