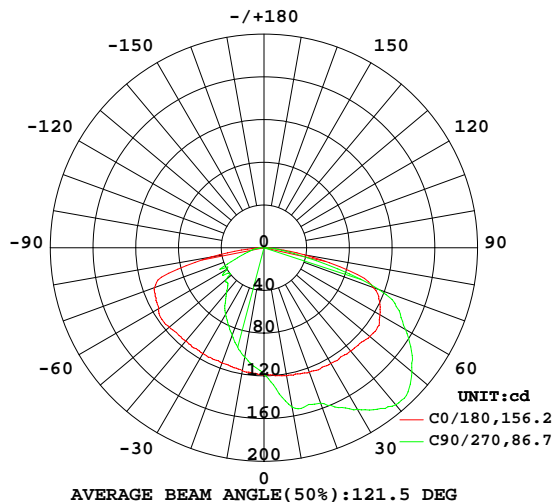


LUMINAIRE PHOTOMETRIC TEST REPORT

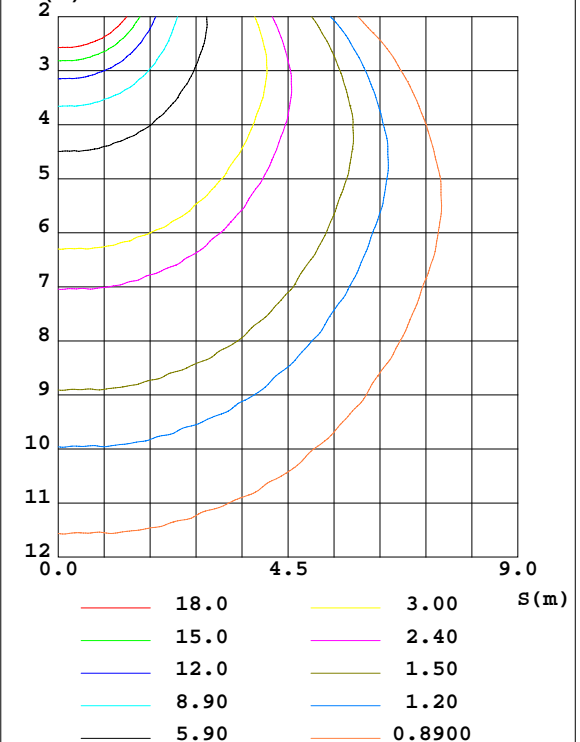
Test:U:229.74V I:0.0422A P:5.4159W PF:0.5584 Freq:49.99Hz Lamp Flux:599.588x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 80*70*100	SERIAL No.:
MFR.: NLD25-0009-01	SUR.:0.065*0.02	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 110.71 lm/W			
MODEL		Imax(cd)	221.8	S/MH(C0/180)	1.48
NOMINAL POWER(W)	5	LOR(%)	100.0	S/MH(C90/270)	0.93
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	599.59	η UP,DN(C0-180)	0.0,72.6
NOMINAL FLUX(lm)	599.588	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,27.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	230.0	η down(%)	100.0	CIBSE SHR MAX	1.55

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:2025-06-11

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:

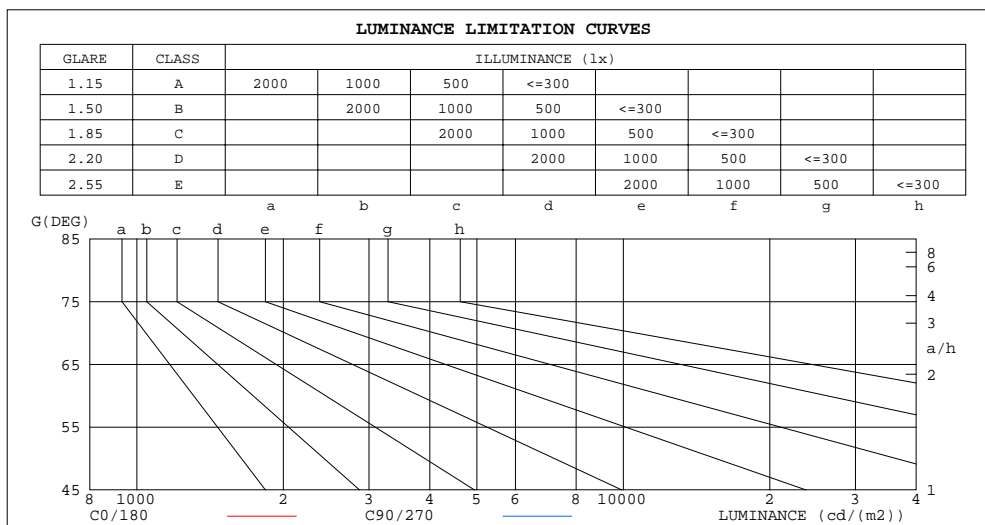
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	121.8	143.8	151.4	139.5	117.0	106.6	104.1	109.1	0- 10	11.61	11.61	1.94,1.94
20	124.3	158.9	154.9	150.4	114.9	93.97	87.13	97.50	10- 20	35.20	46.81	7.81,7.81
30	125.1	167.9	174.7	154.5	114.5	78.73	72.02	83.57	20- 30	56.77	103.6	17.3,17.3
40	126.3	187.7	191.9	172.9	114.0	64.62	54.43	69.30	30- 40	77.02	180.6	30.1,30.1
50	129.3	206.0	180.8	191.3	115.7	53.21	45.98	59.14	40- 50	94.66	275.3	45.9,45.9
60	125.3	219.1	152.9	204.2	113.9	57.02	40.04	64.25	50- 60	107.8	383.1	63.9,63.9
70	108.6	215.7	114.3	200.3	109.3	39.90	24.41	37.03	60- 70	110.3	493.3	82.3,82.3
80	38.43	133.2	23.84	143.8	49.97	18.07	10.01	11.93	70- 80	84.68	578.0	96.4,96.4
90	0.6701	1.186	0.5498	2.603	0.9622	1.375	1.074	1.510	80- 90	21.56	599.6	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:2025-06-11

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:229.74V I:0.0422A P:5.4159W PF:0.5584 Freq:49.99Hz Lamp Flux:599.588x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 80*70*100	SERIAL No.:
MFR.: NLD25-0009-01	SUR.:0.065*0.02	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	86672	72416
80	170254	105605
75	243115	180194
70	244290	257096
65	217806	254495
60	192715	235288
55	174083	226018
50	154718	216351
45	138030	207649

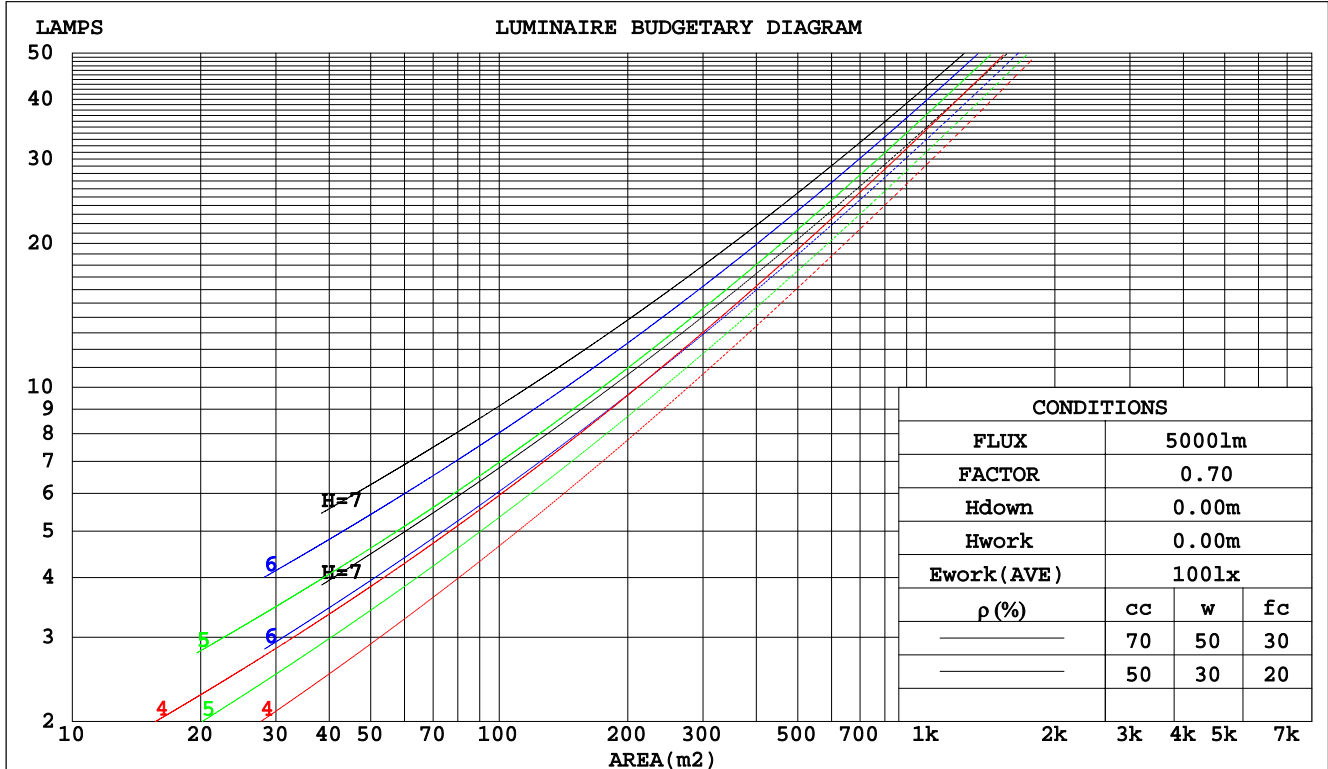
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-11

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.74V I:0.0422A P:5.4159W PF:0.5584 Freq:49.99Hz Lamp Flux:599.588x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 80*70*100	SERIAL No.:
MFR.: NLD25-0009-01	SUR.:0.065*0.02	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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	.00	.95	.90	.98	.93	.88	.93	.89	.85	.89	.86	.83	.86	.83	.80	.78
2.0	.84	.76	.69	.82	.75	.68	.78	.72	.66	.75	.70	.65	.72	.67	.63	.61
3.0	.72	.62	.55	.70	.61	.54	.67	.59	.53	.64	.58	.52	.61	.56	.51	.49
4.0	.62	.52	.44	.61	.51	.44	.58	.50	.43	.56	.49	.43	.54	.47	.42	.40
5.0	.55	.45	.37	.54	.44	.37	.51	.43	.36	.49	.42	.36	.47	.41	.35	.33
6.0	.49	.39	.31	.48	.38	.31	.46	.37	.31	.44	.36	.31	.42	.36	.30	.28
7.0	.44	.34	.27	.43	.34	.27	.41	.33	.27	.40	.32	.27	.38	.31	.26	.24
8.0	.40	.30	.24	.39	.30	.24	.37	.29	.23	.36	.29	.23	.35	.28	.23	.21
9.0	.36	.27	.21	.35	.27	.21	.34	.26	.21	.33	.26	.21	.32	.25	.21	.19
10.0	.33	.25	.19	.33	.24	.19	.31	.24	.19	.30	.23	.19	.30	.23	.18	.17



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-11

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:229.74V I:0.0422A P:5.4159W PF:0.5584 Freq:49.99Hz Lamp Flux:599.588x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 80*70*100	SERIAL No.:
MFR.: NLD25-0009-01	SUR.:0.065*0.02	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	.385	.219	.069	.377	.215	.068	.364	.209	.067	.351	.203	.065	.340	.197	.063		
2.0	.352	.193	.059	.345	.190	.059	.333	.185	.058	.322	.180	.056	.311	.176	.056		
3.0	.318	.169	.051	.312	.167	.050	.301	.163	.050	.291	.159	.049	.281	.156	.048		
4.0	.287	.149	.044	.282	.148	.044	.272	.144	.043	.263	.141	.043	.255	.138	.042		
5.0	.261	.133	.039	.256	.132	.038	.248	.129	.038	.240	.126	.038	.232	.124	.037		
6.0	.239	.120	.034	.235	.118	.034	.227	.116	.034	.220	.114	.034	.213	.112	.033		
7.0	.219	.109	.031	.216	.108	.031	.209	.106	.030	.203	.104	.030	.197	.102	.030		
8.0	.203	.099	.028	.200	.098	.028	.194	.097	.028	.188	.095	.027	.182	.094	.027		
9.0	.189	.091	.025	.186	.091	.025	.180	.089	.025	.175	.088	.025	.170	.086	.025		
10.0	.176	.084	.023	.174	.084	.023	.169	.083	.023	.164	.081	.023	.160	.080	.023		

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	.185	.155	.128	.159	.133	.111	.109	.092	.076	.062	.053	.044	.020	.017	.014	
2.0	.180	.132	.091	.154	.113	.078	.106	.078	.055	.061	.046	.032	.020	.015	.010	
3.0	.174	.115	.068	.149	.099	.059	.102	.069	.041	.059	.040	.024	.019	.013	.008	
4.0	.166	.102	.053	.143	.088	.046	.098	.061	.032	.057	.036	.019	.018	.012	.006	
5.0	.158	.092	.043	.136	.079	.037	.094	.055	.026	.054	.033	.016	.017	.011	.005	
6.0	.151	.084	.036	.130	.072	.031	.089	.051	.022	.052	.030	.013	.017	.010	.004	
7.0	.143	.077	.030	.123	.067	.026	.085	.047	.019	.049	.028	.011	.016	.009	.004	
8.0	.136	.071	.026	.117	.062	.023	.081	.043	.016	.047	.026	.010	.015	.008	.003	
9.0	.129	.066	.023	.111	.057	.020	.077	.040	.015	.045	.024	.009	.015	.008	.003	
10.0	.123	.062	.021	.106	.054	.018	.074	.038	.013	.043	.022	.008	.014	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-11

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:229.74V I:0.0422A P:5.4159W PF:0.5584 Freq:49.99Hz Lamp Flux:599.588x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 80*70*100			SERIAL No.:			
MFR.: NLD25-0009-01					SUR.:0.065*0.02			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	3H	33.8	35.6	34.1	35.8	36.0	34.1	35.8	34.4	36.0	36.3
	4H	36.5	38.1	36.8	38.3	38.6	36.4	38.1	36.8	38.3	38.6
	6H	37.6	39.1	37.9	39.4	39.6	37.2	38.7	37.5	39.0	39.3
	8H	38.0	39.5	38.4	39.8	40.1	37.4	38.9	37.8	39.2	39.5
	12H	38.1	39.5	38.5	39.8	40.1	37.4	38.9	37.8	39.2	39.5
	12H	38.1	39.5	38.4	39.8	40.1	37.4	38.8	37.8	39.1	39.4
4H	2H	35.5	37.0	35.8	37.3	37.5	35.6	37.1	35.9	37.4	37.7
	3H	38.4	39.8	38.8	40.1	40.4	38.2	39.6	38.6	39.9	40.2
	4H	39.7	40.9	40.1	41.3	41.6	39.2	40.5	39.6	40.8	41.1
	6H	40.3	41.4	40.7	41.8	42.2	39.6	40.7	40.0	41.1	41.4
	8H	40.4	41.4	40.8	41.8	42.2	39.6	40.7	40.0	41.0	41.4
	12H	40.4	41.4	40.8	41.8	42.2	39.6	40.6	40.0	41.0	41.4
8H	4H	40.6	41.7	41.0	42.0	42.4	40.2	41.3	40.7	41.7	42.1
	6H	41.5	42.4	41.9	42.8	43.2	40.9	41.8	41.3	42.2	42.6
	8H	41.7	42.5	42.1	42.9	43.3	41.0	41.8	41.5	42.2	42.7
	12H	41.7	42.4	42.2	42.9	43.3	41.0	41.7	41.5	42.2	42.7
12H	4H	40.7	41.6	41.1	42.0	42.4	40.3	41.3	40.8	41.7	42.1
	6H	41.7	42.5	42.1	42.9	43.3	41.1	41.9	41.6	42.4	42.8
	8H	41.9	42.6	42.4	43.1	43.5	41.3	42.0	41.8	42.5	42.9
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.4 / - 0.7					+ 0.3 / - 0.6					

CIE Pub.117, 599.6 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = -1.8$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-06-11

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:229.74V I:0.0422A P:5.4159W PF:0.5584 Freq:49.99Hz Lamp Flux:599.588x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 80*70*100	SERIAL No.:
MFR.: NLD25-0009-01	SUR.:0.065*0.02	Shielding Angle:

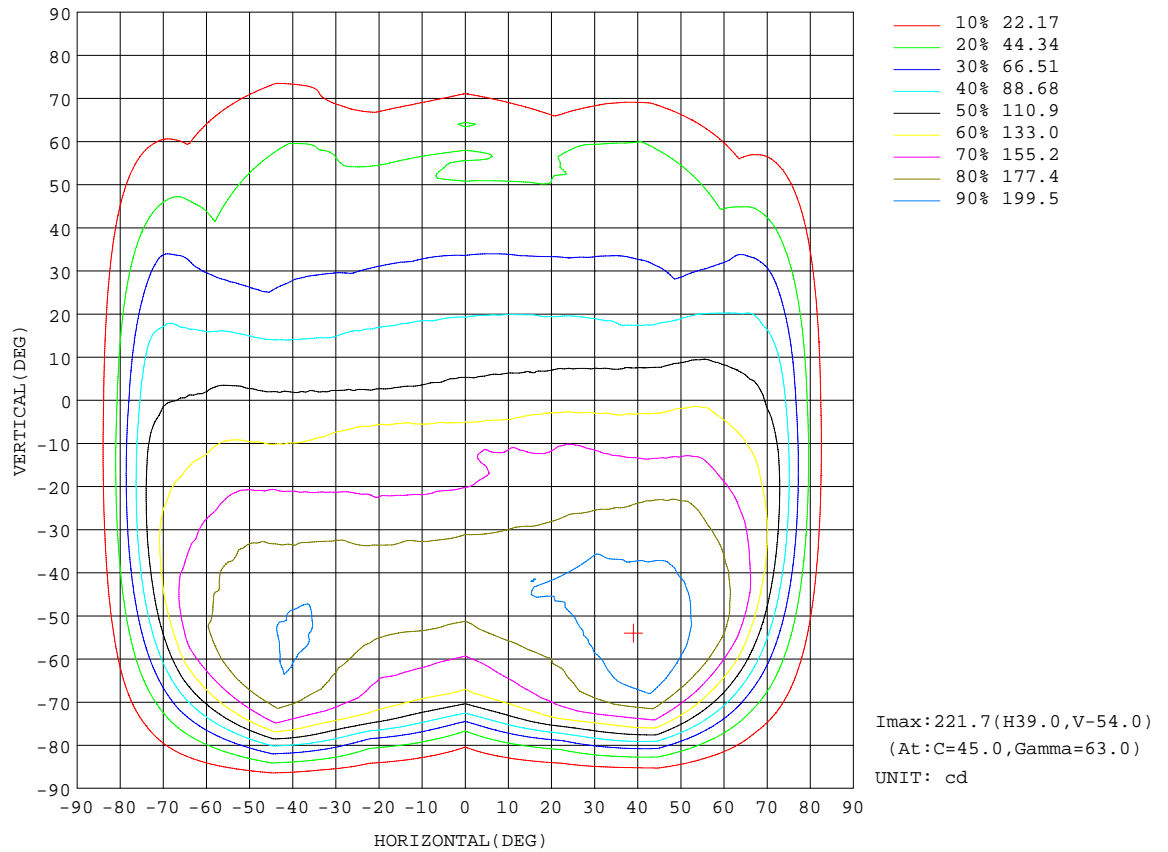
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	50	37	29	49	37	29	48	36	29	22
0.80	59	46	37	58	46	37	56	45	37	29
1.00	68	55	46	66	54	46	64	56	45	37
1.25	75	62	54	73	62	53	70	60	53	44
1.50	81	69	60	79	68	60	75	66	58	50
2.00	89	78	70	87	77	69	83	74	68	59
2.50	94	84	76	91	82	75	87	80	74	64
3.00	98	89	82	95	87	81	91	84	79	69
4.00	103	96	90	100	94	88	96	90	86	76
5.00	106	100	95	103	98	93	98	94	90	80
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:2025-06-11

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:229.74V I:0.0422A P:5.4159W PF:0.5584 Freq:49.99Hz Lamp Flux:599.588x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 80*70*100	SERIAL No.:
MFR.: NLD25-0009-01	SUR.:0.065*0.02	Shielding Angle:

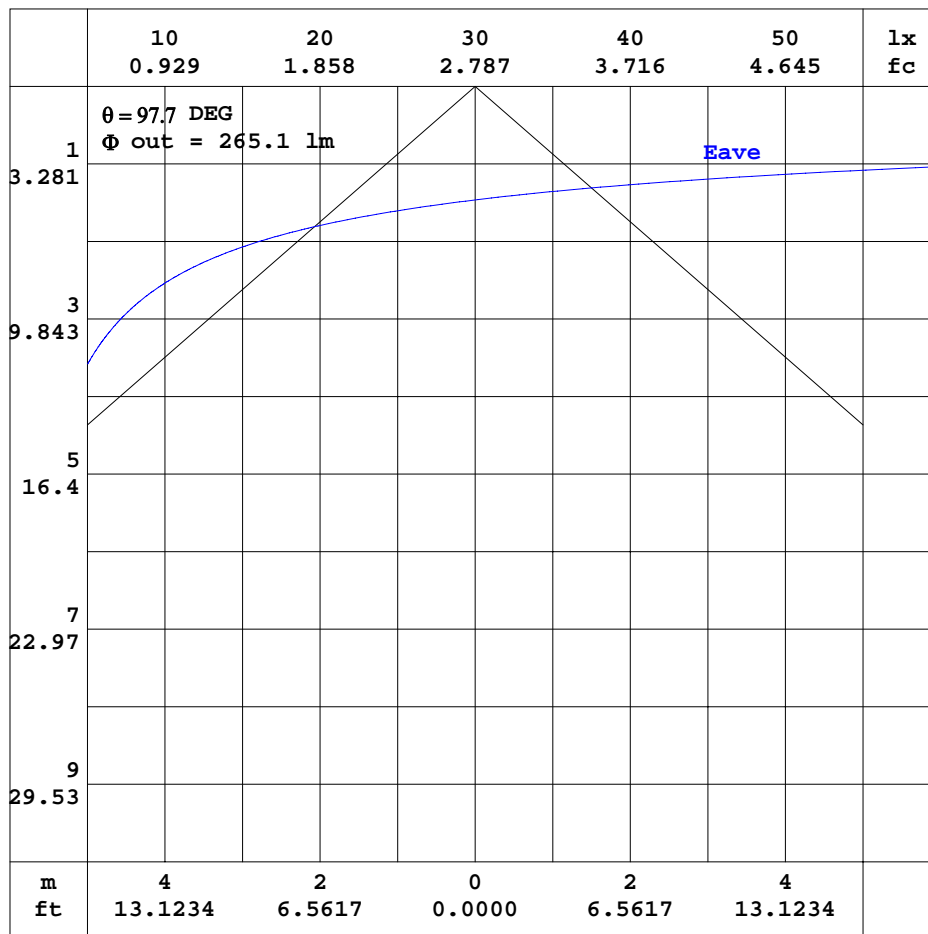


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-06-11

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:229.74V I:0.0422A P:5.4159W PF:0.5584 Freq:49.99Hz Lamp Flux:599.588x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 80*70*100	SERIAL No.:
MFR.: NLD25-0009-01	SUR.:0.065*0.02	Shielding Angle:



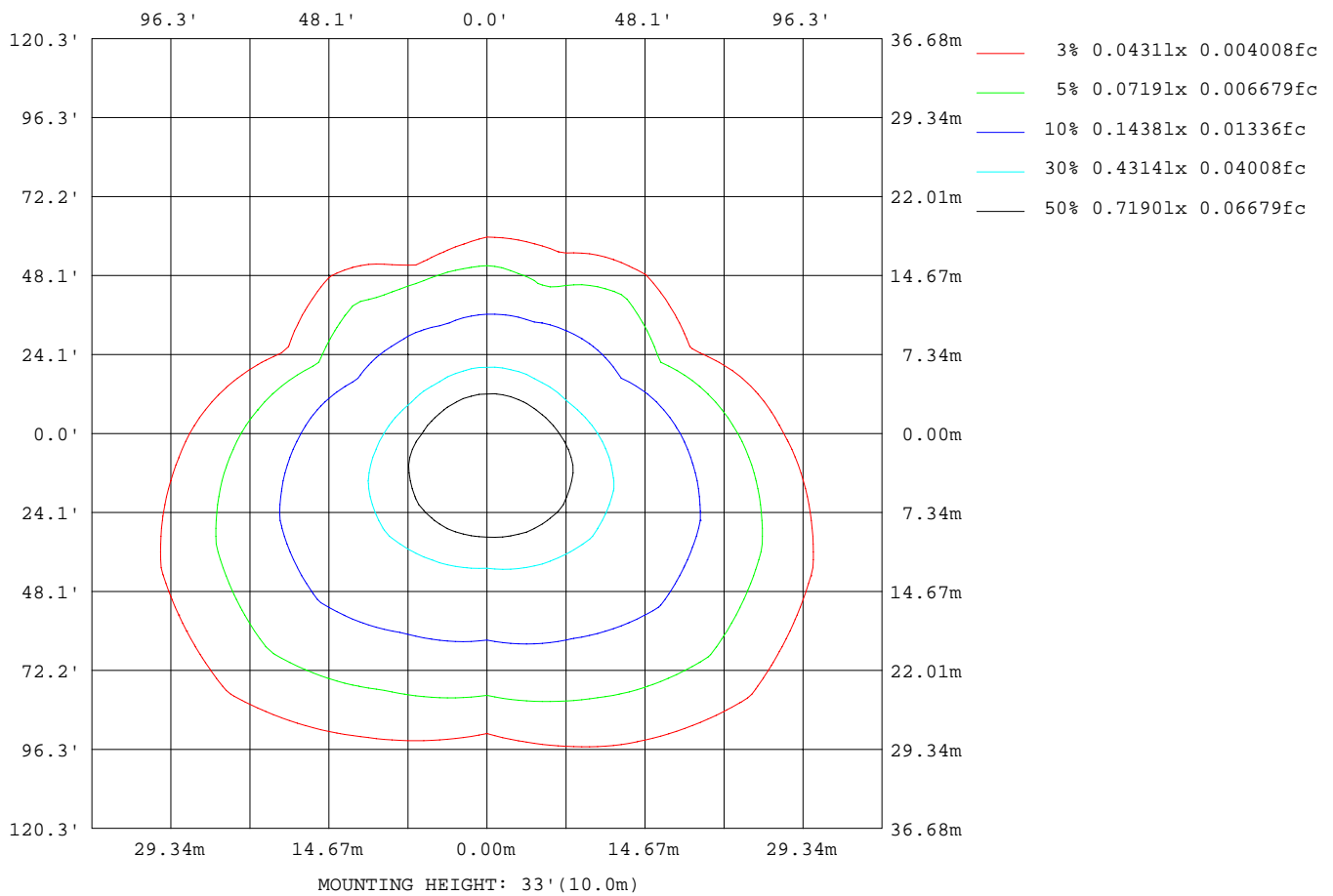
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-11

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:229.74V I:0.0422A P:5.4159W PF:0.5584 Freq:49.99Hz Lamp Flux:599.588x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 80*70*100	SERIAL No.:
MFR.: NLD25-0009-01	SUR.:0.065*0.02	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-11

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:229.74V I:0.0422A P:5.4159W PF:0.5584 Freq:49.99Hz Lamp Flux:599.588x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 80*70*100	SERIAL No.:
MFR.: NLD25-0009-01	SUR.:0.065*0.02	Shielding Angle:

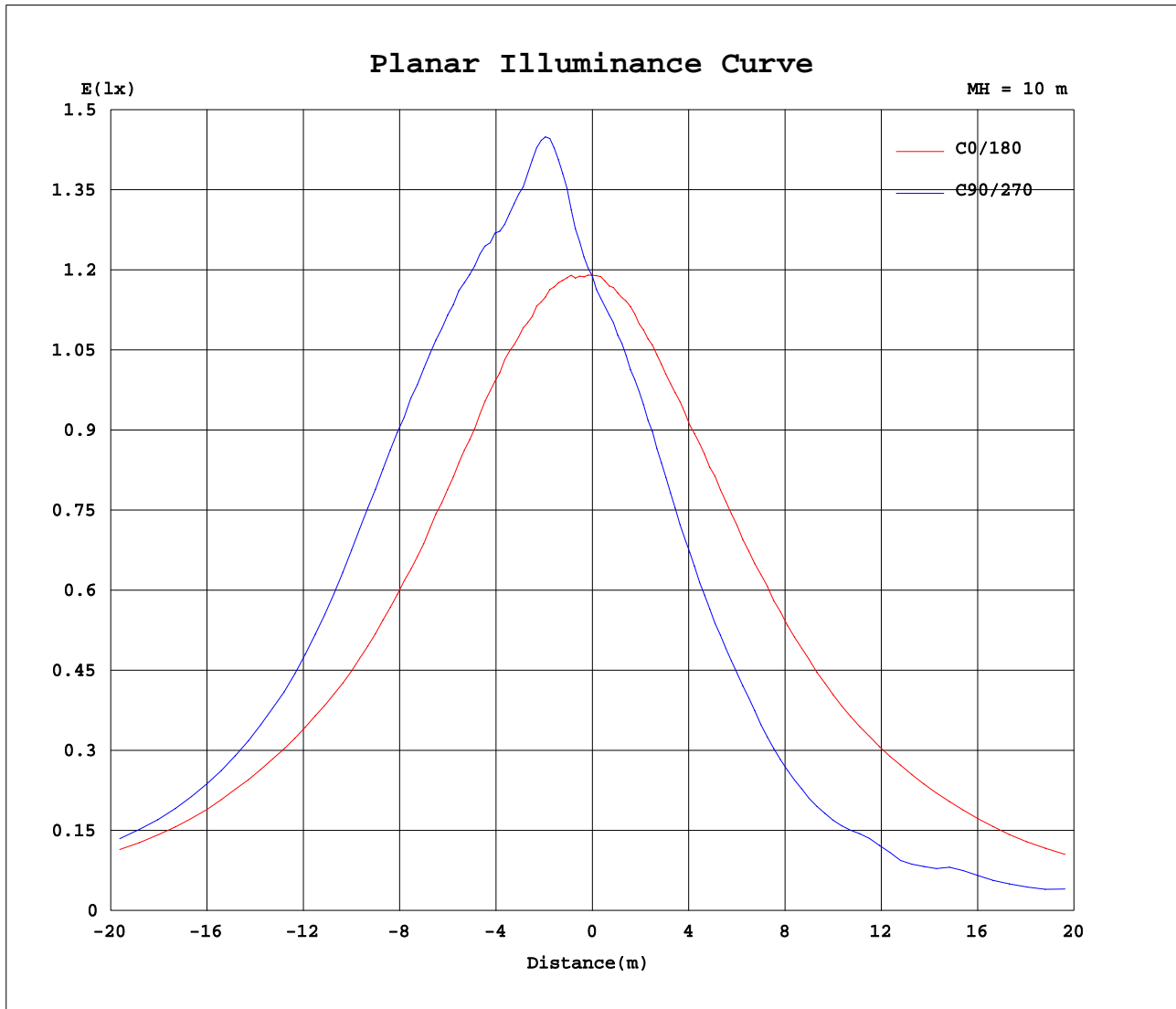
AvgL	cd/m2
L_0~180(65)av	210441
L_0~180(75)av	258769
L_0~180(85)av	111761
L_90~270(65)av	165498
L_90~270(75)av	113413
L_90~270(85)av	60846
L_45(65)av	240046
L_45(75)av	321597
L_45(85)av	252008

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-11

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: 2025-06-11

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:

```