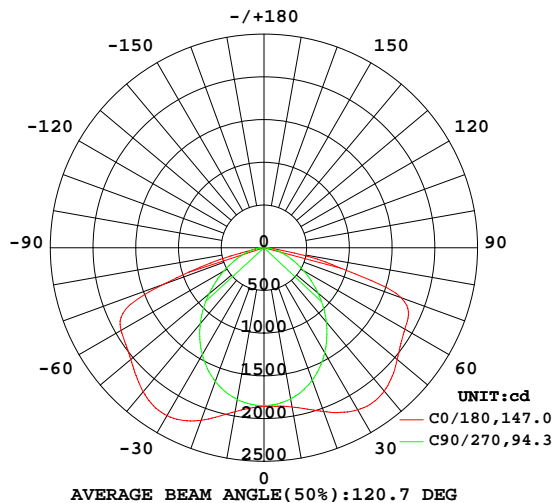


LUMINAIRE PHOTOMETRIC TEST REPORT

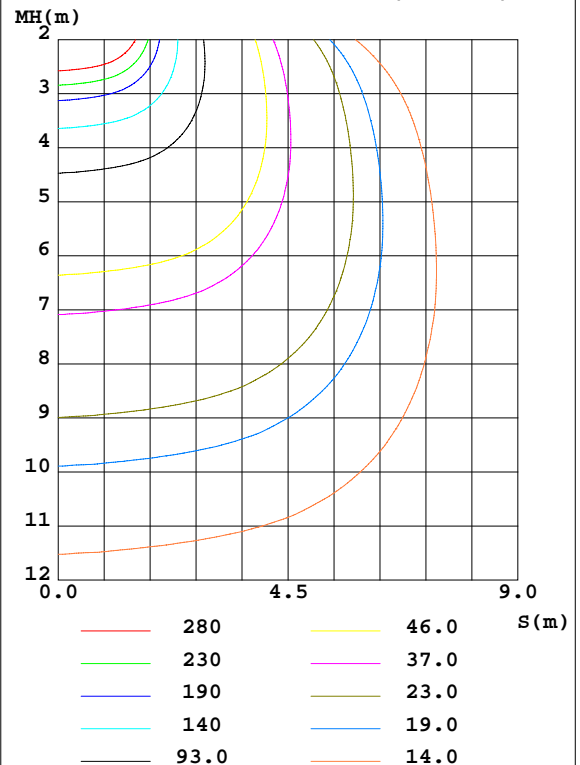
Test:U:229.57V I:0.3467A P:78.596W PF:0.9874 Freq:49.99Hz Lamp Flux:7394.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 960*42*38	SERIAL No.:
MFR.: NLD25-0020-01	SUR.:0.79*0.035	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 94.08 lm/W			
MODEL		Imax(cd)	2271	S/MH(C0/180)	1.76
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	1.17
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	7394.5	η UP,DN(C0-180)	0.0,50.0
NOMINAL FLUX(lm)	7394.46	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.0
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:2025-09-28

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:

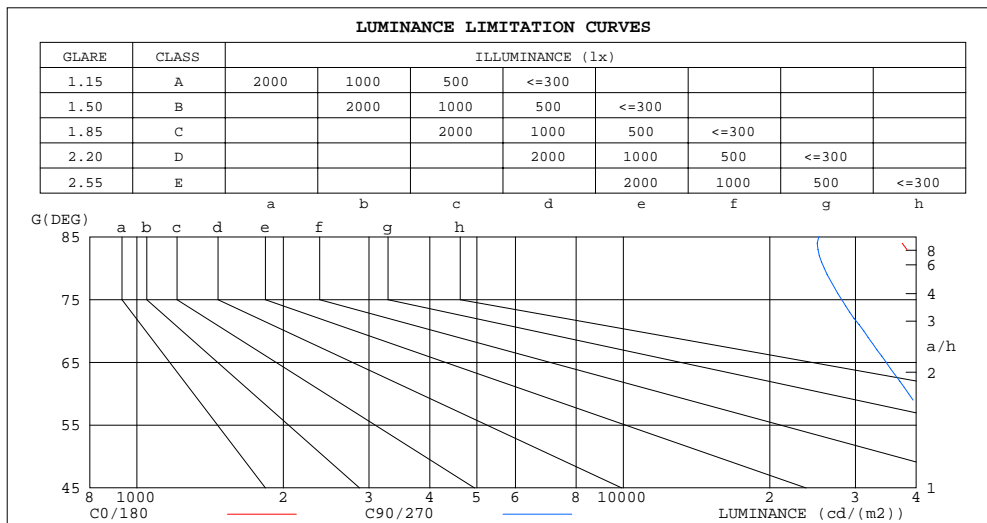
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	1893	1840	1798	1866	1949	1878	1804	1834	0- 10	176.8	176.8	2.39,2.39
20	2040	1832	1650	1915	2148	1917	1665	1840	10- 20	528.8	705.6	9.54,9.54
30	2190	1837	1421	1957	2269	1955	1444	1862	20- 30	866.8	1572	21.3,21.3
40	2190	1821	1136	1929	2200	1936	1160	1862	30- 40	1142	2714	36.7,36.7
50	2036	1726	827.6	1780	2035	1801	839.7	1776	40- 50	1293	4007	54.2,54.2
60	1904	1509	533.6	1514	1932	1537	540.3	1558	50- 60	1306	5313	71.9,71.9
70	1709	1205	295.2	1225	1265	1213	297.1	1247	60- 70	1206	6520	88.2,88.2
80	362.1	699.0	124.3	318.4	123.5	366.9	125.3	697.6	70- 80	740.2	7260	98.2,98.2
90	39.05	35.02	12.32	12.88	17.06	13.44	11.81	36.30	80- 90	134.8	7394	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:2025-09-28

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:229.57V I:0.3467A P:78.596W PF:0.9874 Freq:49.99Hz Lamp Flux:7394.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 960*42*38	SERIAL No.:
MFR.: NLD25-0020-01	SUR.:0.79*0.035	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	41378	25218
80	75416	25881
75	131786	28106
70	180740	31215
65	159620	34694
60	137726	38597
55	123292	42593
50	114571	46567
45	108566	50250

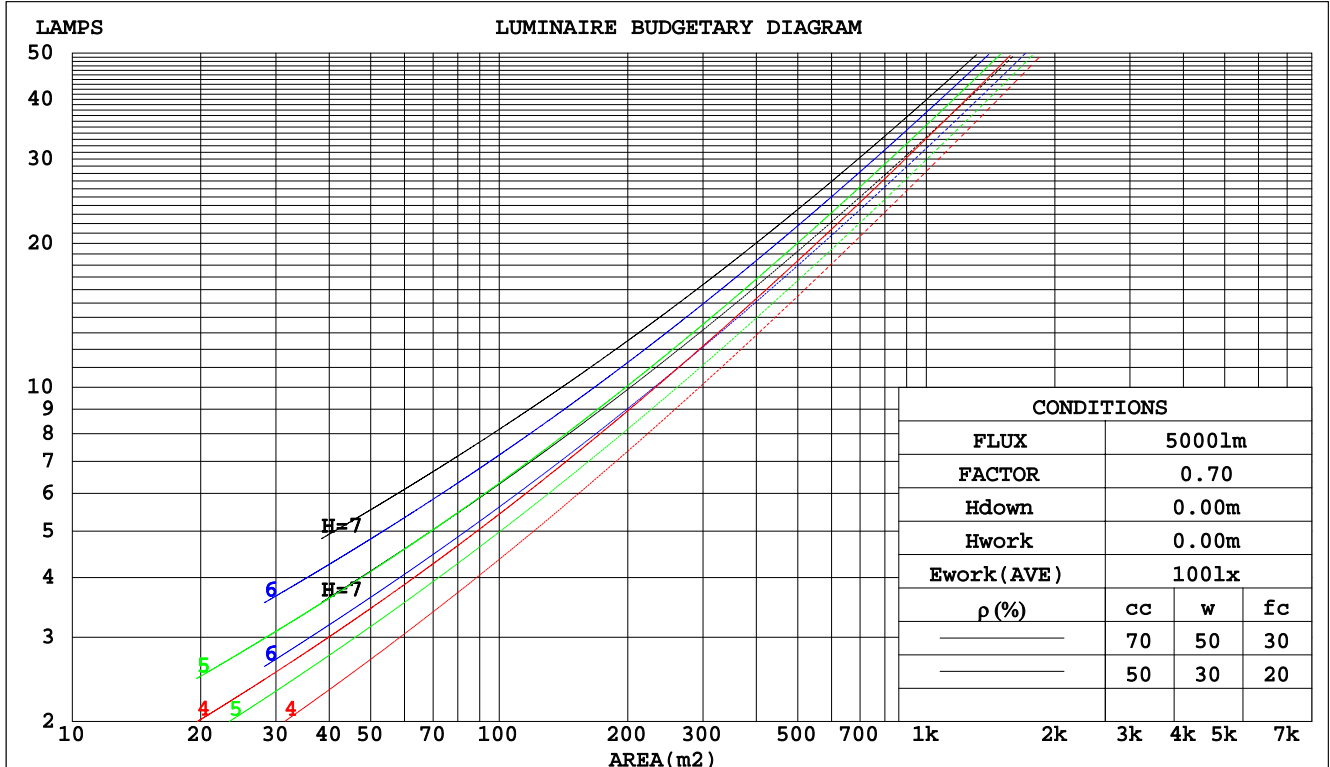
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-28

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:229.57V I:0.3467A P:78.596W PF:0.9874 Freq:49.99Hz Lamp Flux:7394.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 960*42*38	SERIAL No.:
MFR.: NLD25-0020-01	SUR.:0.79*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	1.19	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	1.00
1.0	1.02	.98	.93	1.00	.96	.92	.96	.92	.89	.92	.89	.86	.88	.86	.84	.81
2.0	.88	.80	.74	.86	.79	.73	.82	.76	.71	.79	.74	.70	.76	.72	.68	.66
3.0	.76	.67	.60	.74	.66	.59	.71	.64	.58	.68	.62	.57	.66	.60	.56	.54
4.0	.66	.57	.50	.65	.56	.49	.62	.55	.48	.60	.53	.48	.58	.52	.47	.45
5.0	.59	.49	.42	.57	.48	.42	.55	.47	.41	.53	.46	.41	.51	.45	.40	.38
6.0	.52	.43	.36	.51	.42	.36	.49	.41	.35	.48	.41	.35	.46	.40	.35	.33
7.0	.47	.38	.31	.46	.37	.31	.45	.37	.31	.43	.36	.31	.42	.35	.30	.28
8.0	.43	.34	.28	.42	.33	.27	.41	.33	.27	.39	.32	.27	.38	.32	.27	.25
9.0	.39	.30	.25	.38	.30	.24	.37	.30	.24	.36	.29	.24	.35	.29	.24	.22
10.0	.36	.28	.22	.35	.27	.22	.34	.27	.22	.33	.27	.22	.32	.26	.22	.20



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-28

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:229.57V I:0.3467A P:78.596W PF:0.9874 Freq:49.99Hz Lamp Flux:7394.46x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.: 960*42*38			SERIAL No.:		
MFR.: NLD25-0020-01			SUR.:0.79*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	.339	.193	.061	.332	.189	.060	.318	.183	.058	.306	.176	.057	.294	.171	.055	
2.0	.319	.175	.054	.312	.172	.053	.300	.167	.052	.289	.162	.051	.279	.158	.050	
3.0	.293	.156	.047	.287	.154	.046	.277	.150	.046	.267	.146	.045	.258	.143	.044	
4.0	.268	.139	.041	.263	.138	.041	.254	.135	.040	.245	.132	.040	.237	.129	.039	
5.0	.246	.125	.036	.242	.124	.036	.233	.121	.036	.226	.119	.035	.218	.117	.035	
6.0	.227	.114	.033	.223	.113	.032	.215	.110	.032	.208	.108	.032	.202	.106	.032	
7.0	.210	.104	.029	.207	.103	.029	.200	.101	.029	.194	.099	.029	.188	.098	.029	
8.0	.195	.095	.027	.192	.095	.027	.186	.093	.027	.181	.091	.026	.175	.090	.026	
9.0	.182	.088	.025	.179	.087	.025	.174	.086	.024	.169	.085	.024	.164	.083	.024	
10.0	.171	.082	.023	.168	.081	.023	.163	.080	.023	.159	.079	.022	.155	.078	.022	

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	.182	.156	.132	.156	.134	.114	.107	.092	.079	.061	.053	.046	.020	.017	.015	
2.0	.176	.132	.095	.151	.113	.082	.103	.078	.057	.060	.046	.033	.019	.015	.011	
3.0	.169	.114	.071	.145	.099	.062	.099	.069	.043	.057	.040	.025	.018	.013	.008	
4.0	.162	.101	.055	.139	.088	.048	.095	.061	.034	.055	.036	.020	.018	.012	.007	
5.0	.154	.091	.045	.132	.079	.039	.091	.055	.028	.053	.032	.016	.017	.011	.005	
6.0	.147	.083	.037	.126	.072	.032	.087	.050	.023	.050	.030	.014	.016	.010	.005	
7.0	.140	.076	.032	.120	.066	.028	.083	.046	.020	.048	.027	.012	.016	.009	.004	
8.0	.133	.070	.027	.114	.061	.024	.079	.043	.017	.046	.025	.010	.015	.008	.003	
9.0	.127	.065	.024	.109	.057	.021	.076	.040	.015	.044	.024	.009	.014	.008	.003	
10.0	.121	.061	.022	.104	.053	.019	.072	.037	.013	.042	.022	.008	.014	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-28

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:229.57V I:0.3467A P:78.596W PF:0.9874 Freq:49.99Hz Lamp Flux:7394.46x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 960*42*38			SERIAL No.:			
MFR.: NLD25-0020-01					SUR.:0.79*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		30.9	32.5	31.2	32.7	32.9	26.0	27.6	26.3	27.8	28.1
3H		33.8	35.4	34.1	35.6	35.8	27.0	28.5	27.3	28.7	29.0
4H		34.8	36.2	35.1	36.5	36.7	27.3	28.8	27.6	29.0	29.3
6H		35.1	36.4	35.4	36.7	37.0	27.6	28.9	27.9	29.2	29.5
8H		35.1	36.4	35.4	36.7	37.0	27.6	29.0	28.0	29.3	29.6
12H		35.0	36.3	35.4	36.6	36.9	27.7	29.0	28.1	29.3	29.6
4H	2H	31.4	32.9	31.8	33.1	33.4	28.2	29.7	28.6	29.9	30.2
	3H	34.7	35.9	35.0	36.2	36.6	29.5	30.8	29.9	31.1	31.4
	4H	35.8	36.9	36.1	37.3	37.6	30.0	31.1	30.3	31.4	31.8
	6H	36.2	37.2	36.6	37.6	38.0	30.2	31.3	30.6	31.6	32.0
	8H	36.2	37.2	36.6	37.5	37.9	30.3	31.3	30.8	31.7	32.1
	12H	36.2	37.1	36.6	37.5	37.9	30.4	31.3	30.8	31.7	32.1
8H	4H	36.1	37.0	36.5	37.4	37.8	31.7	32.7	32.2	33.1	33.5
	6H	36.6	37.5	37.1	37.9	38.3	32.3	33.1	32.7	33.5	33.9
	8H	36.7	37.4	37.2	37.8	38.3	32.4	33.1	32.9	33.6	34.0
	12H	36.7	37.3	37.2	37.8	38.2	32.5	33.2	33.0	33.6	34.1
12H	4H	36.0	36.9	36.5	37.3	37.7	31.9	32.8	32.3	33.2	33.6
	6H	36.7	37.4	37.1	37.8	38.3	32.5	33.2	33.0	33.7	34.1
	8H	36.8	37.4	37.2	37.8	38.3	32.7	33.4	33.2	33.8	34.3
Variations with the observer position at spacings:											
S = 1.0H		+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H		+ 0.2 / - 0.4					+ 0.2 / - 0.4				
2.0H		+ 0.4 / - 0.6					+ 0.6 / - 0.7				

CIE Pub.117, 7394 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 7.0$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-28

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:229.57V I:0.3467A P:78.596W PF:0.9874 Freq:49.99Hz Lamp Flux:7394.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 960*42*38	SERIAL No.:
MFR.: NLD25-0020-01	SUR.:0.79*0.035	Shielding Angle:

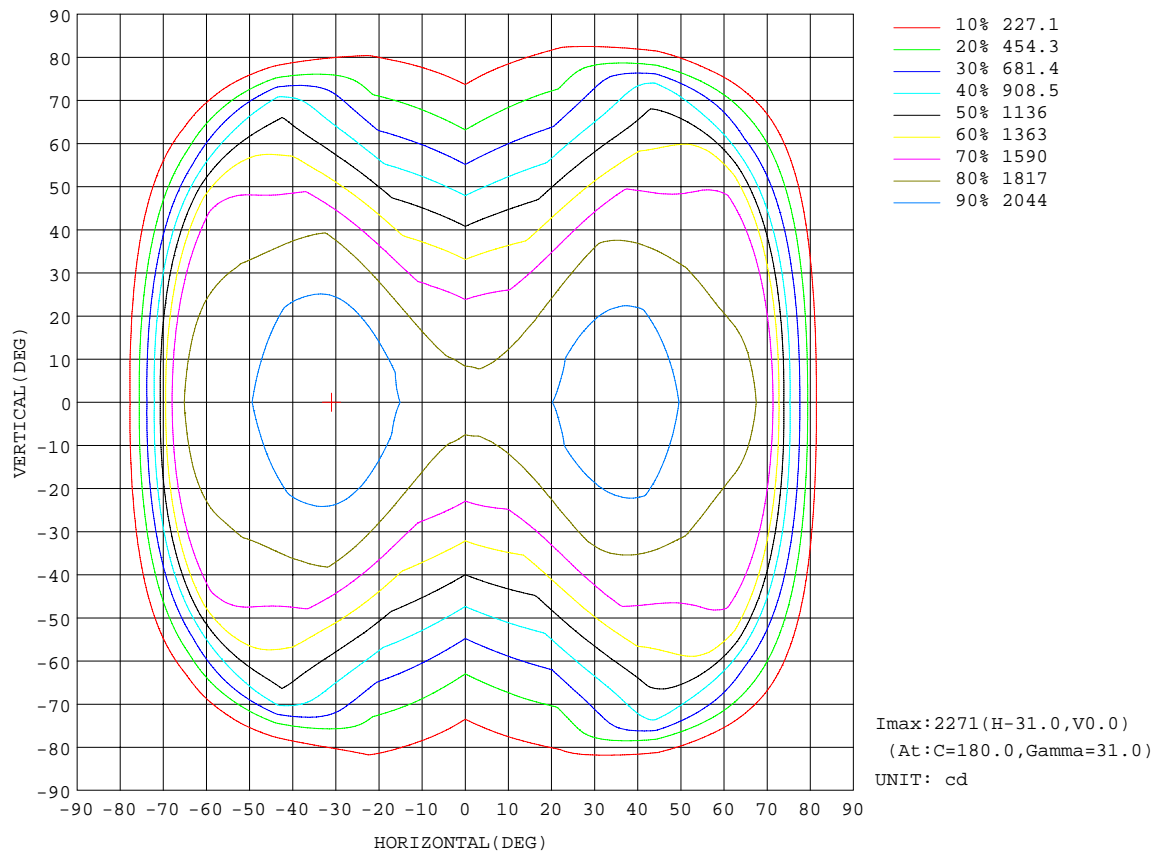
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	53	41	33	52	41	33	51	40	33	26
0.80	63	51	43	62	50	42	60	49	42	35
1.00	72	60	51	70	59	51	68	61	51	43
1.25	79	67	60	78	67	59	75	65	58	50
1.50	84	73	66	83	73	65	79	71	64	56
2.00	92	82	75	90	81	75	86	79	73	65
2.50	96	88	81	94	86	80	90	84	78	70
3.00	100	93	86	98	91	85	94	88	83	74
4.00	105	99	93	102	97	92	98	93	89	80
5.00	108	102	98	105	100	96	100	97	93	84
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:2025-09-28

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:229.57V I:0.3467A P:78.596W PF:0.9874 Freq:49.99Hz Lamp Flux:7394.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 960*42*38	SERIAL No.:
MFR.: NLD25-0020-01	SUR.:0.79*0.035	Shielding Angle:

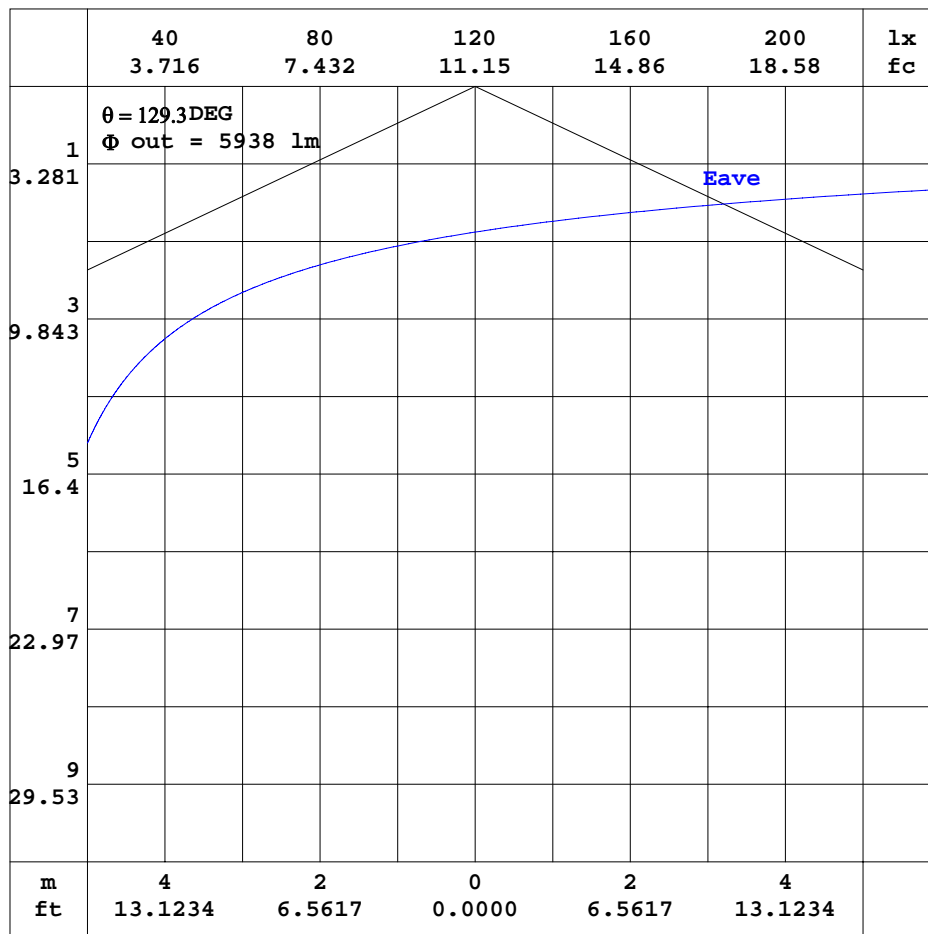


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-09-28

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:229.57V I:0.3467A P:78.596W PF:0.9874 Freq:49.99Hz Lamp Flux:7394.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 960*42*38	SERIAL No.:
MFR.: NLD25-0020-01	SUR.:0.79*0.035	Shielding Angle:



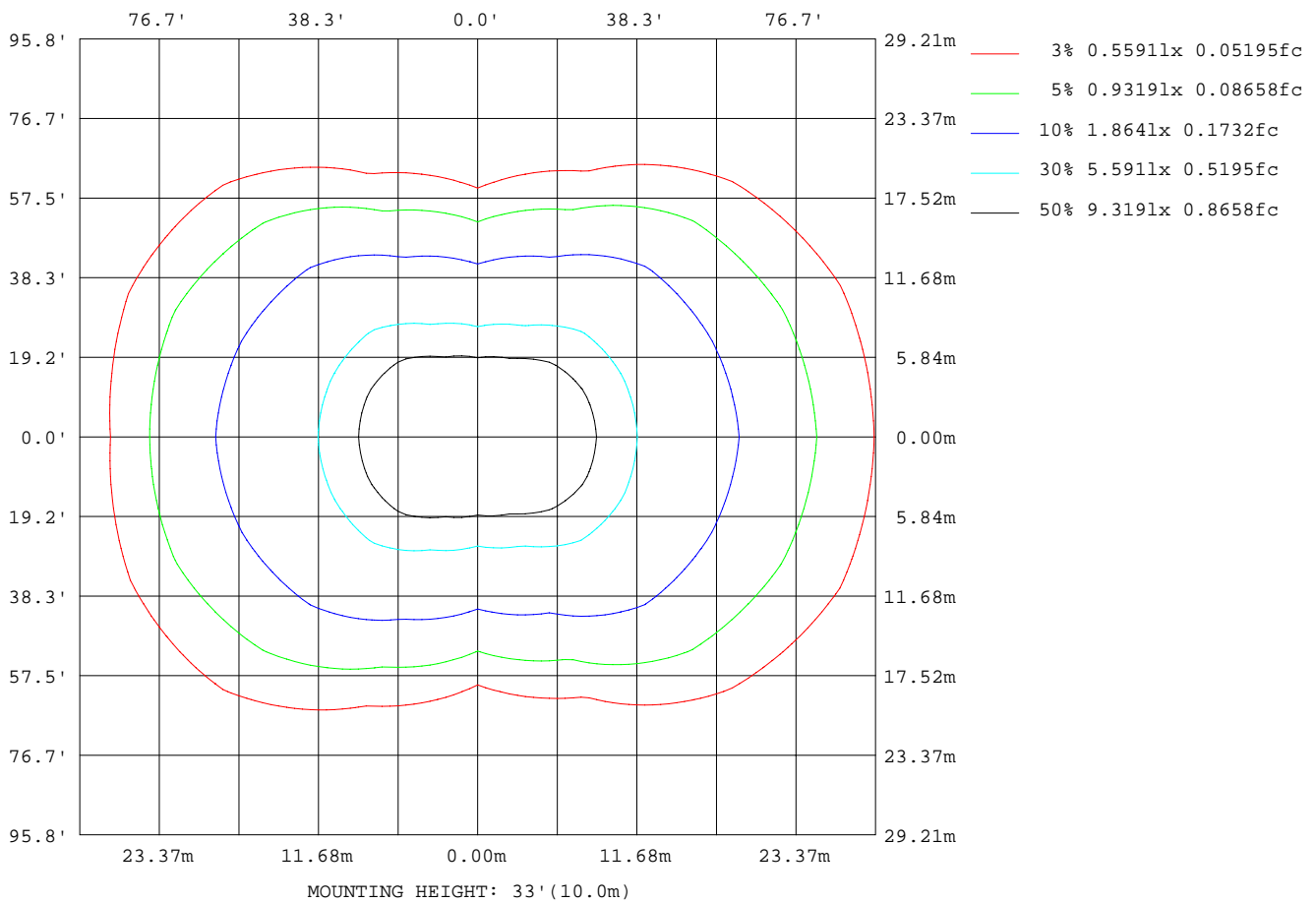
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-09-28

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:229.57V I:0.3467A P:78.596W PF:0.9874 Freq:49.99Hz Lamp Flux:7394.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 960*42*38	SERIAL No.:
MFR.: NLD25-0020-01	SUR.:0.79*0.035	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-28

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:229.57V I:0.3467A P:78.596W PF:0.9874 Freq:49.99Hz Lamp Flux:7394.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 960*42*38	SERIAL No.:
MFR.: NLD25-0020-01	SUR.:0.79*0.035	Shielding Angle:

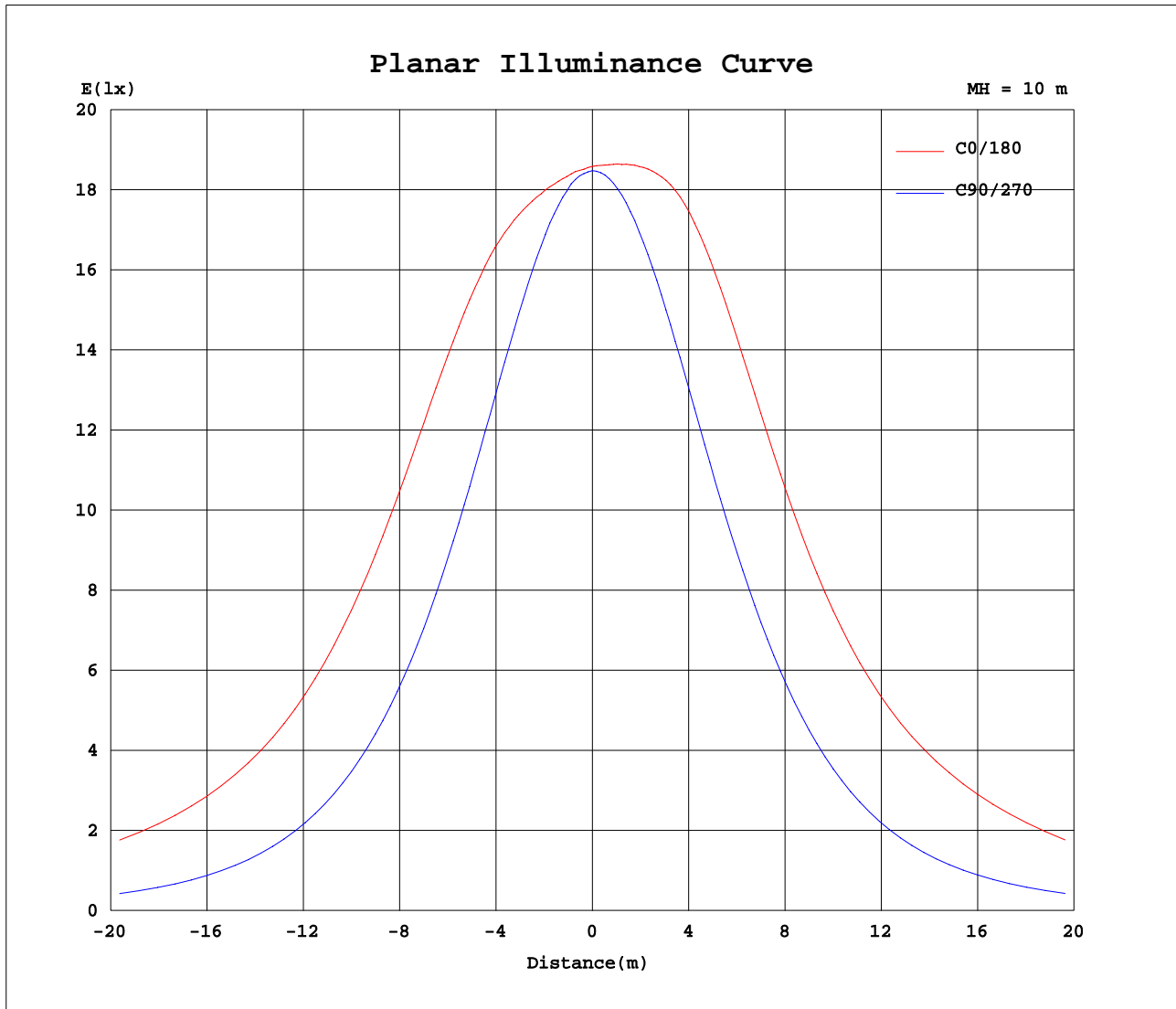
AvgL	cd/m2
L_0~180(65)av	157850
L_0~180(75)av	102770
L_0~180(85)av	34841
L_90~270(65)av	34818
L_90~270(75)av	28255
L_90~270(85)av	25164
L_45(65)av	117942
L_45(75)av	146601
L_45(85)av	45989

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-28

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: 2025-09-28

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
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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

```