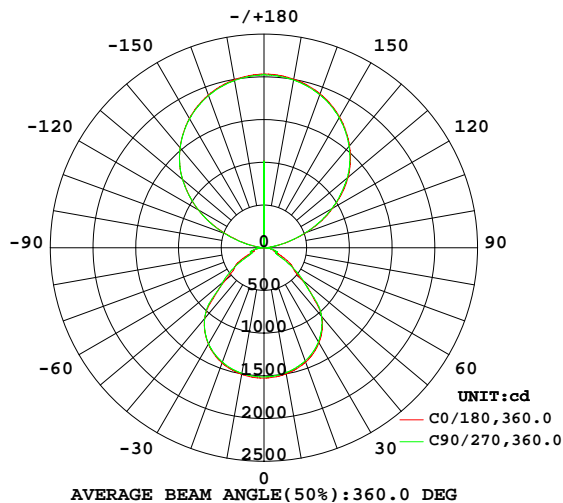


## LUMINAIRE PHOTOMETRIC TEST REPORT

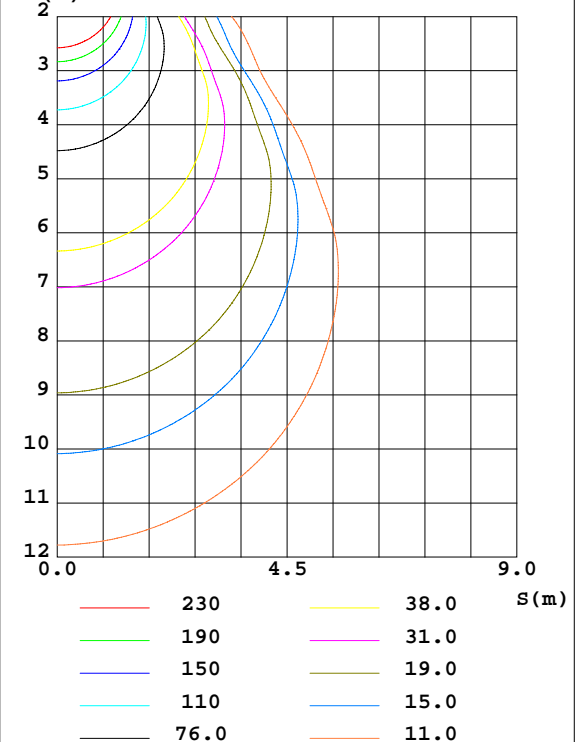
Test:U:229.64V I:0.3381A P:75.776W PF:0.9760 Freq:49.99Hz Lamp Flux:9121.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 500*50	SERIAL No.:
MFR.: NLD23-009	SUR.:3.14*0.238*0.238	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 120.38 lm/W			
MODEL		Imax(cd)	2033	S/MH(C0/180)	1.26
NOMINAL POWER(W)	80	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	9121.8	$\eta$ UP,DN(C0-180)	31.7,18.2
NOMINAL FLUX(lm)	9121.76	CIE CLASS	SEMI-IND.	$\eta$ UP,DN(C180-360)	31.3,18.7
LAMPS INSIDE	1	$\eta$ up(%)	63.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230.0	$\eta$ down(%)	37.0	CIBSE SHR MAX	1.35

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:2023-12-18

$\gamma$  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:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

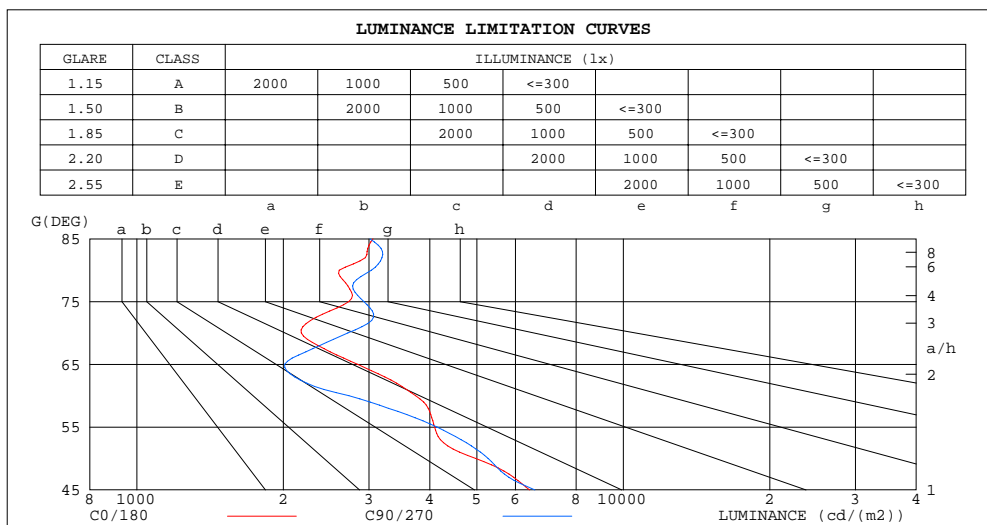
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\%lum, lamp$
10	1499	1489	1485	1485	1504	1497	1493	1486	0- 10	143.4	143.4	1.57,1.57
20	1425	1414	1410	1413	1436	1428	1424	1414	10- 20	412.4	555.8	6.09,6.09
30	1286	1276	1274	1280	1303	1299	1298	1281	20- 30	626.8	1183	13,13
40	1052	1045	1049	1055	1081	1076	1080	1058	30- 40	740.0	1923	21.1,21.1
50	568.0	576.3	602.7	608.9	588.7	610.9	631.3	610.3	40- 50	641.2	2564	28.1,28.1
60	332.4	321.1	242.5	320.4	355.5	351.5	286.8	329.4	50- 60	400.0	2964	32.5,32.5
70	132.4	174.2	165.1	186.6	129.4	196.9	160.5	184.8	60- 70	220.3	3184	34.9,34.9
80	80.47	78.51	93.72	77.14	92.37	85.62	103.9	85.91	70- 80	134.4	3318	36.4,36.4
90	1.658	1.624	1.521	2.199	5.687	7.466	5.979	3.503	80- 90	54.29	3373	37,37
100	156.6	157.8	149.2	130.7	120.5	122.3	129.8	147.0	90-100	51.35	3424	37.5,37.5
110	528.6	528.3	516.7	490.4	474.5	472.7	488.9	515.1	100-110	326.6	3751	41.1,41.1
120	928.3	918.5	916.1	897.9	888.7	870.0	885.6	912.9	110-120	695.8	4446	48.7,48.7
130	1284	1274	1272	1250	1242	1234	1245	1271	120-130	967.3	5414	59.3,59.3
140	1558	1551	1550	1532	1528	1519	1527	1545	130-140	1085	6498	71.2,71.2
150	1769	1761	1759	1749	1747	1736	1742	1758	140-150	1034	7532	82.6,82.6
160	1918	1907	1907	1903	1904	1891	1896	1908	150-160	846.0	8378	91.8,91.8
170	2004	1992	1994	1993	1997	1984	1987	1996	160-170	552.1	8930	97.9,97.9
180	2033	2033	2033	2033	2033	2033	2033	2033	170-180	191.6	9122	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:2023-12-18

$\gamma$  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:229.64V I:0.3381A P:75.776W PF:0.9760 Freq:49.99Hz Lamp Flux:9121.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 500*50	SERIAL No.:
MFR.: NLD23-009	SUR.:3.14*0.238*0.238	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3056	3014
80	2606	3036
75	2727	2929
70	2177	2715
65	2842	2013
60	3739	2727
55	4093	4139
50	4970	5273
45	6414	6578

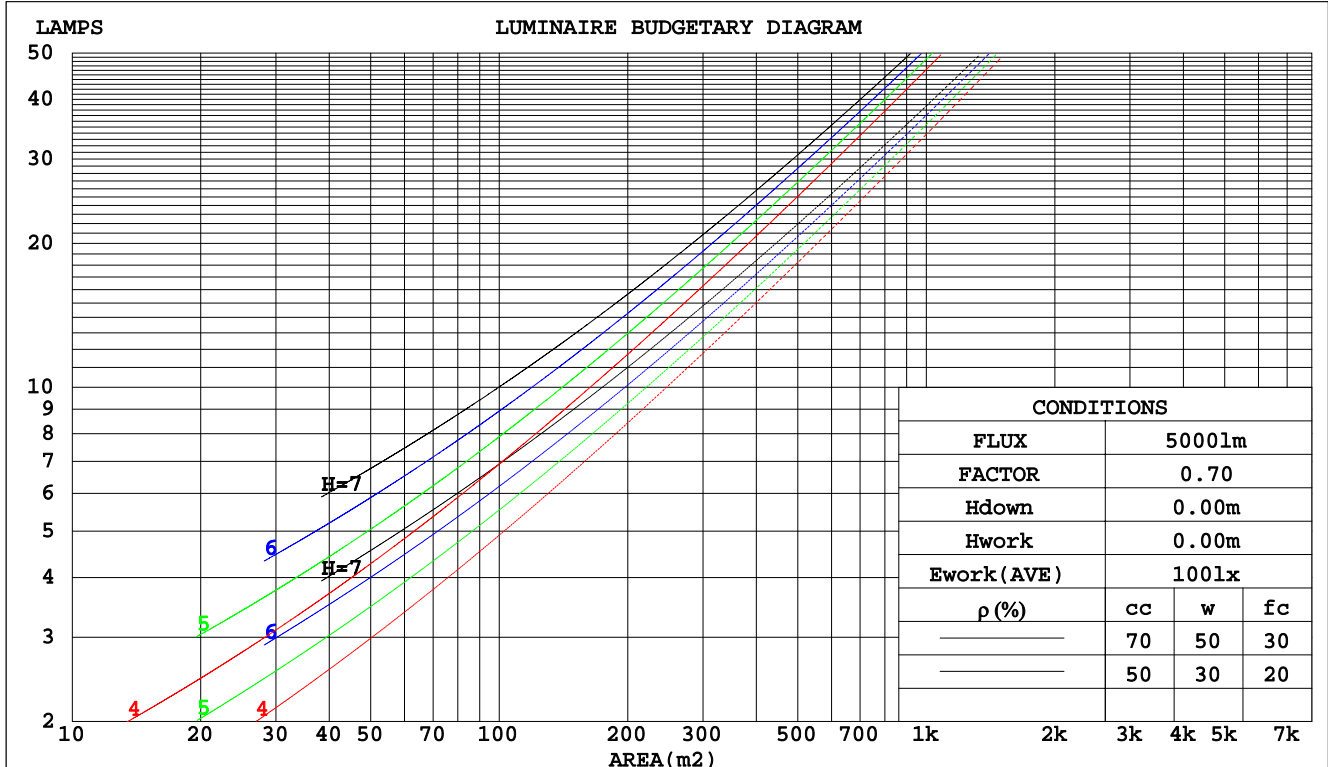
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2023-12-18

$\gamma$  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:229.64V I:0.3381A P:75.776W PF:0.9760 Freq:49.99Hz Lamp Flux:9121.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 500*50	SERIAL No.:
MFR.: NLD23-009	SUR.:3.14*0.238*0.238	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	1.04	1.04	1.04	.94	.94	.94	.76	.76	.76	.59	.59	.59	.44	.44	.44	.37
1.0	.91	.88	.84	.83	.80	.77	.67	.65	.63	.53	.52	.50	.40	.39	.38	.32
2.0	.80	.75	.70	.73	.68	.64	.60	.56	.53	.47	.45	.43	.36	.34	.33	.28
3.0	.71	.64	.59	.65	.59	.54	.53	.49	.45	.42	.39	.37	.32	.30	.29	.24
4.0	.63	.56	.50	.58	.51	.46	.47	.43	.39	.38	.35	.32	.29	.27	.25	.21
5.0	.56	.49	.43	.52	.45	.40	.43	.38	.34	.34	.31	.28	.26	.24	.22	.19
6.0	.51	.43	.37	.46	.40	.35	.38	.33	.30	.31	.27	.25	.24	.22	.20	.17
7.0	.46	.38	.33	.42	.35	.31	.35	.30	.26	.28	.25	.22	.22	.19	.18	.15
8.0	.42	.34	.29	.38	.32	.27	.32	.27	.23	.26	.22	.20	.20	.18	.16	.13
9.0	.38	.31	.26	.35	.29	.24	.29	.24	.21	.24	.20	.18	.19	.16	.14	.12
10.0	.35	.28	.23	.32	.26	.22	.27	.22	.19	.22	.18	.16	.17	.15	.13	.11



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2023-12-18

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:229.64V I:0.3381A P:75.776W PF:0.9760 Freq:49.99Hz Lamp Flux:9121.76x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.: 500*50			SERIAL No.:		
MFR.: NLD23-009			SUR.:3.14*0.238*0.238			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	.262	.149	.047	.236	.135	.043	.187	.107	.034	.142	.082	.026	.101	.059	.019	
2.0	.243	.133	.041	.220	.121	.037	.175	.097	.030	.134	.075	.024	.097	.055	.017	
3.0	.226	.120	.036	.204	.109	.033	.164	.089	.027	.126	.069	.021	.091	.050	.016	
4.0	.210	.109	.032	.190	.099	.029	.153	.081	.024	.118	.063	.019	.086	.046	.014	
5.0	.195	.100	.029	.177	.091	.026	.143	.074	.022	.111	.058	.017	.080	.043	.013	
6.0	.183	.092	.026	.166	.084	.024	.134	.069	.020	.104	.054	.016	.076	.040	.012	
7.0	.171	.085	.024	.155	.077	.022	.126	.063	.018	.098	.050	.015	.072	.037	.011	
8.0	.161	.078	.022	.146	.072	.020	.118	.059	.017	.092	.047	.013	.068	.035	.010	
9.0	.151	.073	.020	.138	.067	.019	.112	.055	.016	.087	.044	.013	.064	.033	.009	
10.0	.143	.068	.019	.130	.063	.018	.106	.052	.015	.083	.041	.012	.061	.031	.009	

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	.671	.671	.671	.573	.573	.573	.391	.391	.391	.225	.225	.225	.072	.072	.072	
1.0	.661	.641	.622	.566	.550	.536	.387	.378	.370	.223	.219	.215	.071	.070	.070	
2.0	.653	.620	.591	.559	.533	.511	.383	.369	.357	.221	.215	.209	.071	.069	.068	
3.0	.646	.604	.571	.554	.521	.495	.380	.362	.347	.220	.211	.205	.071	.069	.067	
4.0	.639	.592	.556	.549	.512	.483	.377	.357	.340	.218	.209	.201	.070	.068	.066	
5.0	.633	.583	.546	.544	.505	.475	.374	.352	.336	.217	.207	.199	.070	.068	.066	
6.0	.627	.576	.539	.539	.499	.469	.372	.349	.332	.216	.205	.197	.070	.067	.065	
7.0	.621	.570	.534	.535	.494	.465	.369	.346	.330	.215	.204	.196	.069	.067	.065	
8.0	.616	.565	.530	.530	.490	.462	.367	.344	.328	.214	.203	.195	.069	.067	.065	
9.0	.611	.561	.526	.526	.486	.459	.365	.342	.326	.212	.202	.194	.069	.066	.064	
10.0	.606	.557	.524	.523	.484	.457	.363	.340	.325	.212	.201	.194	.069	.066	.064	

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2023-12-18

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:229.64V I:0.3381A P:75.776W PF:0.9760 Freq:49.99Hz Lamp Flux:9121.76x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.:			DIM.: 500*50			SERIAL No.:				
MFR.: NLD23-009			SUR.:3.14*0.238*0.238			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	12.9	13.7	13.8	14.6	15.9	12.5	13.3	13.5	14.3	15.5
3H	13.4	14.2	14.4	15.1	16.5	13.1	13.8	14.1	14.8	16.1
4H	13.7	14.3	14.7	15.3	16.7	13.4	14.1	14.4	15.1	16.4
6H	13.9	14.5	14.9	15.5	16.8	13.7	14.3	14.7	15.3	16.7
8H	14.0	14.6	15.0	15.6	16.9	13.9	14.5	14.9	15.5	16.9
12H	14.1	14.6	15.1	15.7	17.0	14.0	14.5	15.0	15.6	17.0
4H 2H	12.8	13.5	13.8	14.5	15.8	12.5	13.2	13.5	14.2	15.5
3H	13.6	14.1	14.6	15.2	16.5	13.2	13.7	14.2	14.8	16.1
4H	13.9	14.4	15.0	15.5	16.9	13.7	14.1	14.7	15.2	16.6
6H	14.2	14.7	15.3	15.7	17.2	14.1	14.5	15.1	15.6	17.0
8H	14.4	14.8	15.5	15.9	17.4	14.3	14.7	15.4	15.8	17.2
12H	14.6	15.0	15.7	16.0	17.5	14.5	14.9	15.6	16.0	17.4
8H 4H	13.9	14.3	15.0	15.4	16.8	13.7	14.1	14.7	15.1	16.6
6H	14.4	14.7	15.5	15.8	17.3	14.2	14.6	15.3	15.6	17.1
8H	14.7	15.0	15.8	16.1	17.6	14.6	14.9	15.7	16.0	17.5
12H	15.0	15.2	16.1	16.3	17.8	14.9	15.2	16.0	16.3	17.8
12H 4H	13.9	14.2	15.0	15.3	16.8	13.6	14.0	14.7	15.1	16.5
6H	14.4	14.7	15.5	15.8	17.3	14.3	14.5	15.4	15.6	17.1
8H	14.8	15.0	15.9	16.1	17.6	14.7	14.9	15.8	16.0	17.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.7					+ 0.6 / - 0.6				
1.5H	+ 0.2 / - 0.6					+ 0.2 / - 0.2				
2.0H	+ 1.0 / - 1.7					+ 1.1 / - 0.9				

CIE Pub.117, 9122 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 7.7$ )

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-12-18

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:

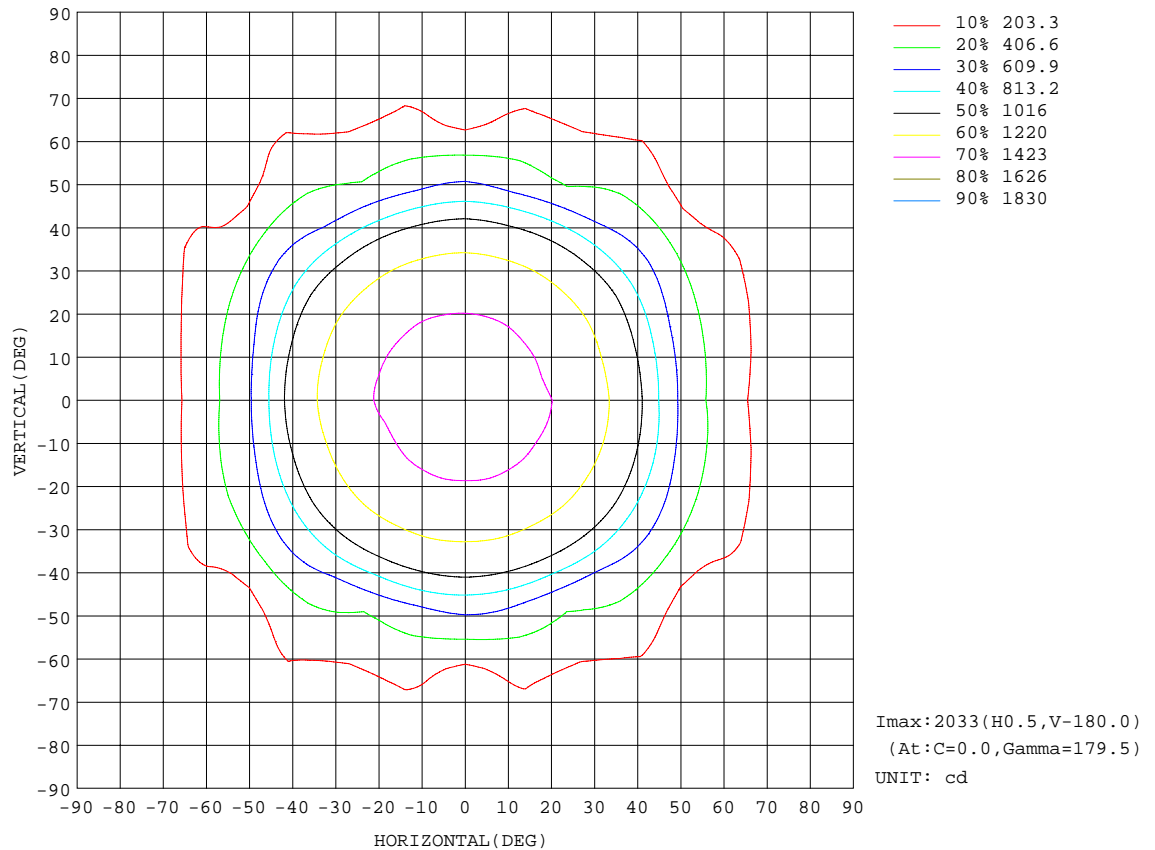
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γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=0.8547]
Remarks:

```

## ISOCANDELA DIAGRAM

Test:U:229.64V I:0.3381A P:75.776W PF:0.9760 Freq:49.99Hz Lamp Flux:9121.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 500*50	SERIAL No.:
MFR.: NLD23-009	SUR.:3.14*0.238*0.238	Shielding Angle:

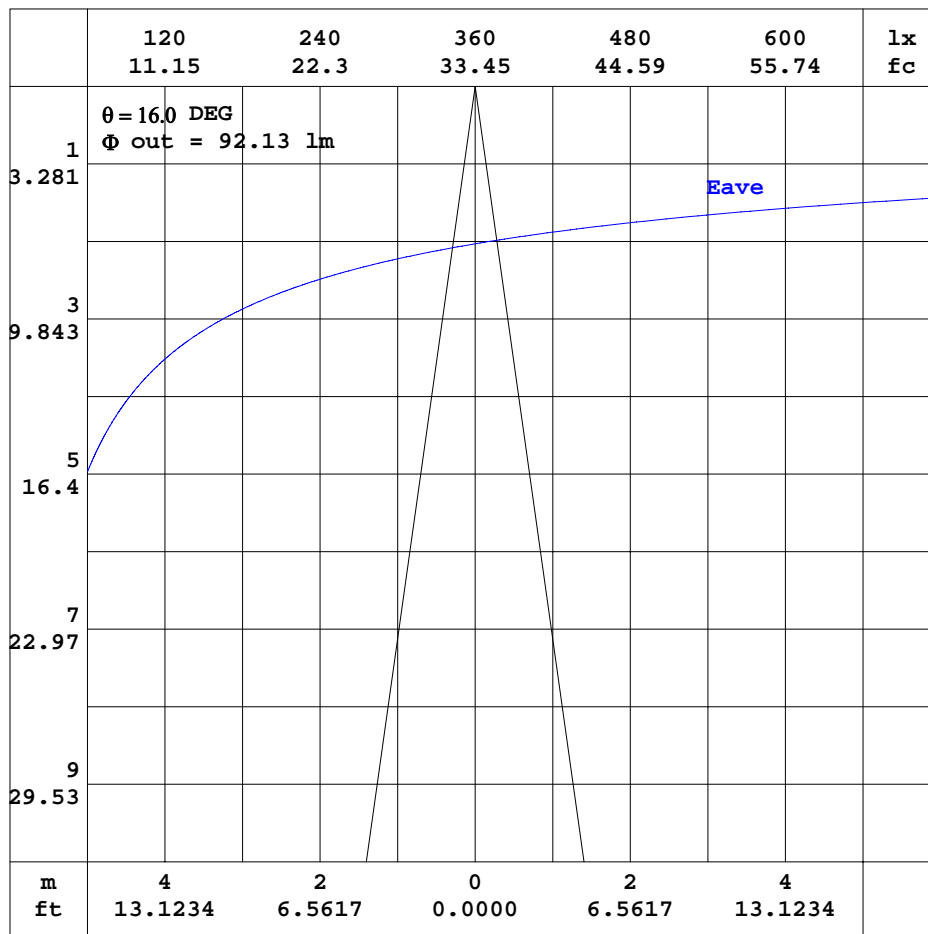


C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2023-12-18

$\gamma$  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 CURVES

Test:U:229.64V I:0.3381A P:75.776W PF:0.9760 Freq:49.99Hz Lamp Flux:9121.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 500*50	SERIAL No.:
MFR.: NLD23-009	SUR.:3.14*0.238*0.238	Shielding Angle:



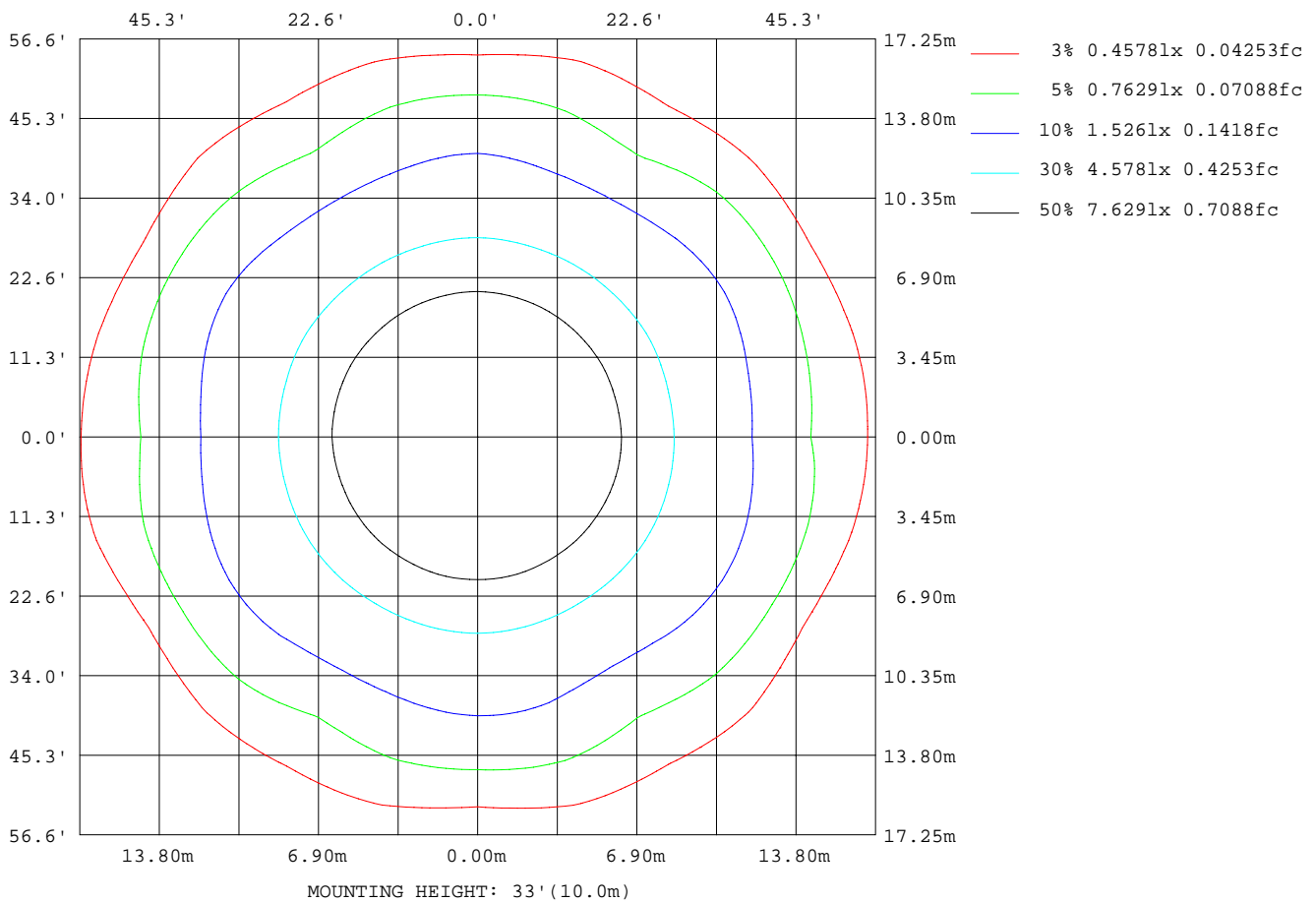
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-12-18

$\gamma$  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:229.64V I:0.3381A P:75.776W PF:0.9760 Freq:49.99Hz Lamp Flux:9121.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 500*50	SERIAL No.:
MFR.: NLD23-009	SUR.:3.14*0.238*0.238	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2023-12-18

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:229.64V I:0.3381A P:75.776W PF:0.9760 Freq:49.99Hz Lamp Flux:9121.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 500*50	SERIAL No.:
MFR.: NLD23-009	SUR.:3.14*0.238*0.238	Shielding Angle:

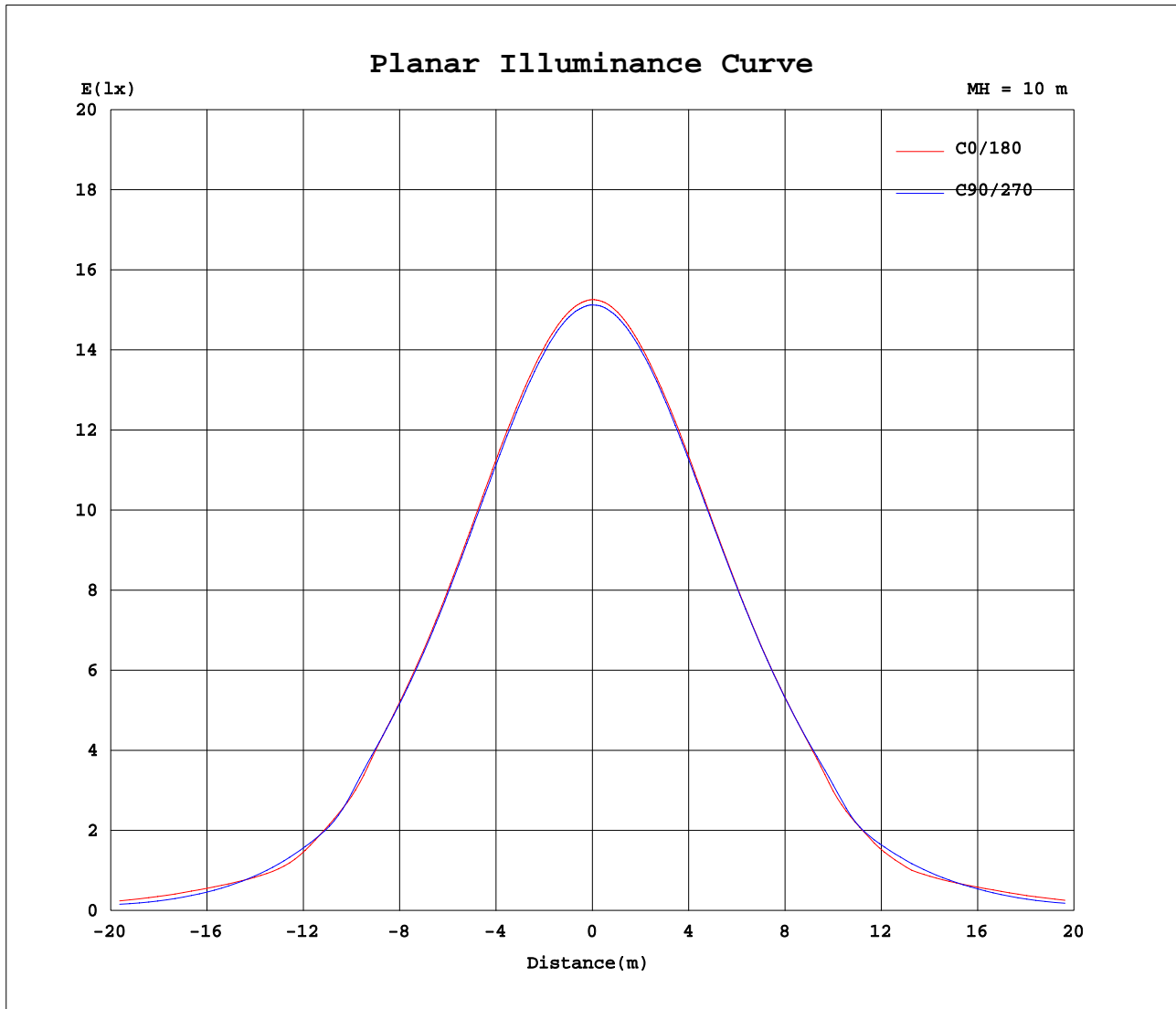
AvgL	cd/m2
L_0~180(65)av	2884
L_0~180(75)av	2811
L_0~180(85)av	3318
L_90~270(65)av	2101
L_90~270(75)av	3146
L_90~270(85)av	3567
L_45(65)av	3219
L_45(75)av	2697
L_45(85)av	3225

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2023-12-18

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: 2023-12-18

$\gamma$  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:229.64V I:0.3381A P:75.776W PF:0.9760 Freq:49.99Hz Lamp Flux:9121.76x1 lm																		
NAME:									TYPE:					WEIGHT:				
SPEC.:									DIM.: 500*50					SERIAL No.:				
MFR.: NLD23-009									SUR.:3.14*0.238*0.238					Shielding Angle:				

Table--1

UNIT: cd

C(°) \ γ (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	1526	1524	1523	1522	1521	1520	1519	1518	1518	1517	1516	1516	1515	1514	1514	1514	1513	1513	1512
5	1518	1517	1516	1514	1513	1512	1511	1510	1510	1509	1509	1508	1507	1507	1506	1506	1506	1505	1505
10	1499	1498	1497	1496	1494	1492	1490	1490	1489	1489	1488	1488	1487	1487	1487	1487	1486	1486	1485
15	1468	1467	1465	1463	1461	1459	1458	1457	1457	1457	1456	1456	1456	1456	1455	1455	1455	1454	1454
20	1425	1423	1422	1420	1418	1415	1414	1414	1414	1414	1413	1413	1412	1412	1412	1413	1412	1411	1410
25	1365	1364	1363	1361	1358	1356	1354	1354	1354	1354	1352	1351	1350	1351	1351	1352	1352	1351	1351
30	1286	1286	1285	1283	1281	1279	1277	1276	1276	1276	1274	1272	1270	1271	1273	1274	1274	1274	1274
35	1185	1185	1185	1184	1182	1180	1179	1177	1176	1175	1172	1169	1168	1169	1171	1173	1174	1173	1173
40	1052	1053	1055	1056	1057	1057	1057	1054	1050	1045	1040	1036	1033	1034	1037	1041	1044	1047	1049
45	806	819	829	835	838	837	833	825	814	802	786	773	765	772	785	799	811	821	827
50	568	587	603	616	628	635	635	622	602	576	540	509	489	510	542	576	592	601	603
55	417	442	460	470	469	464	455	450	443	434	413	394	381	395	414	433	433	428	422
60	332	331	325	316	298	280	269	284	304	321	316	305	295	299	303	303	281	258	242
65	214	233	241	237	208	177	154	178	208	235	221	201	182	198	216	229	203	173	151
70	132	158	175	184	178	168	159	165	172	174	153	132	116	134	157	180	178	172	165
75	125	119	116	115	120	126	130	124	117	111	113	116	120	118	116	116	122	129	135
80	80.5	78.5	77.7	78.0	80.8	83.7	85.9	84.0	81.2	78.5	77.9	78.2	79.0	80.4	82.2	84.6	88.7	92.1	93.7
85	47.4	47.4	47.2	46.9	46.1	45.3	44.6	44.3	44.2	44.4	44.7	45.2	45.7	46.5	47.1	47.6	47.4	47.0	46.7
90	1.66	1.66	1.66	1.66	1.67	1.67	1.68	1.66	1.64	1.62	1.61	1.61	1.60	1.58	1.57	1.55	1.54	1.53	1.52
95	42.3	42.2	42.2	42.4	42.9	43.5	43.8	43.4	42.8	42.1	42.0	41.8	41.5	40.5	39.4	38.4	38.0	37.6	37.3
100	157	155	154	154	156	158	160	160	159	158	157	157	156	154	151	149	149	149	149
105	328	322	318	317	320	325	329	330	331	331	330	329	328	326	325	323	321	320	318
110	529	519	513	510	513	517	523	525	527	528	529	529	528	526	524	521	520	519	517
115	736	728	723	720	720	723	726	727	729	730	733	734	735	733	729	726	726	726	724
120	928	923	920	917	916	916	916	916	917	918	923	927	929	926	921	916	916	917	916
125	1115	1107	1101	1098	1098	1100	1102	1101	1101	1101	1103	1105	1106	1105	1102	1100	1099	1099	1097
130	1284	1280	1277	1275	1276	1277	1277	1276	1275	1274	1277	1279	1281	1279	1275	1272	1272	1273	1272
135	1429	1425	1423	1422	1422	1423	1425	1424	1423	1422	1424	1425	1427	1425	1423	1421	1421	1421	1420
140	1558	1554	1552	1550	1551	1552	1553	1552	1551	1551	1552	1554	1555	1554	1552	1550	1550	1550	1550
145	1671	1666	1664	1662	1663	1664	1666	1665	1664	1664	1665	1666	1666	1665	1664	1662	1662	1662	1662
150	1769	1764	1760	1758	1759	1761	1762	1762	1762	1761	1762	1762	1763	1762	1761	1760	1760	1760	1759
155	1851	1846	1842	1840	1840	1842	1843	1843	1843	1842	1843	1843	1844	1843	1842	1841	1841	1841	1841
160	1918	1912	1908	1905	1905	1907	1908	1908	1908	1907	1908	1909	1909	1909	1908	1907	1907	1907	1907
165	1968	1962	1958	1955	1955	1956	1958	1958	1957	1957	1958	1958	1958	1958	1958	1957	1957	1958	1958
170	2004	1998	1993	1991	1990	1991	1992	1992	1992	1992	1993	1993	1993	1993	1993	1993	1993	1994	1994
175	2026	2020	2015	2013	2012	2013	2014	2014	2014	2014	2014	2015	2015	2015	2015	2015	2015	2016	2016
180	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2023-12-18

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:229.64V I:0.3381A P:75.776W PF:0.9760 Freq:49.99Hz Lamp Flux:9121.76x1 lm																		
NAME:									TYPE:					WEIGHT:				
SPEC.:									DIM.: 500*50					SERIAL No.:				
MFR.: NLD23-009									SUR.:3.14*0.238*0.238					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	1512	1512	1512	1511	1511	1510	1510	1510	1510	1509	1509	1509	1508	1508	1509	1514	1521	1526	1526
5	1505	1505	1505	1504	1504	1503	1503	1503	1503	1503	1503	1503	1502	1502	1503	1509	1515	1521	1521
10	1485	1485	1485	1485	1484	1484	1484	1484	1485	1485	1485	1485	1484	1484	1484	1486	1492	1499	1504
15	1454	1454	1454	1454	1454	1453	1454	1454	1455	1454	1454	1454	1454	1455	1457	1463	1470	1475	1476
20	1411	1412	1413	1413	1413	1412	1413	1413	1413	1413	1413	1413	1413	1414	1416	1423	1430	1436	1435
25	1352	1353	1354	1354	1353	1352	1353	1355	1356	1356	1355	1355	1356	1357	1360	1366	1373	1378	1378
30	1274	1275	1276	1275	1275	1274	1276	1278	1280	1280	1280	1280	1281	1282	1285	1291	1297	1303	1303
35	1174	1174	1175	1173	1172	1172	1174	1177	1181	1182	1183	1184	1185	1187	1189	1195	1200	1205	1206
40	1047	1045	1042	1040	1039	1039	1044	1049	1055	1059	1062	1065	1065	1066	1067	1071	1076	1081	1081
45	825	820	813	803	796	794	807	824	842	854	863	869	866	860	853	848	845	845	851
50	593	578	561	541	525	519	543	575	609	631	647	656	649	636	620	606	594	589	599
55	422	422	419	402	387	379	402	432	461	472	478	479	481	479	474	456	440	430	447
60	258	281	304	307	306	305	312	318	320	304	288	277	298	324	350	357	358	355	353
65	176	207	235	224	207	191	207	225	237	211	181	159	184	218	248	243	232	220	231
70	171	177	179	157	135	120	138	163	187	184	177	170	179	188	192	170	146	129	150
75	131	126	121	121	121	122	122	122	124	132	140	146	143	138	132	132	132	133	131
80	88.5	82.3	76.9	78.4	81.1	83.7	81.3	78.6	77.1	82.4	88.2	92.6	88.3	82.8	78.3	82.4	87.7	92.4	89.7
85	47.1	47.6	47.9	47.1	46.2	45.5	45.5	45.9	46.7	47.8	49.0	50.3	51.5	52.7	53.7	54.2	54.8	55.5	57.1
90	1.51	1.51	1.53	1.58	1.65	1.75	1.86	2.01	2.20	2.47	2.78	3.11	3.42	3.76	4.14	4.65	5.18	5.69	6.09
95	36.7	36.0	35.3	34.6	33.9	33.2	32.1	31.1	30.4	30.4	30.5	30.5	29.8	28.9	27.9	27.2	26.6	26.1	25.6
100	148	146	143	141	138	136	134	132	131	131	132	133	131	129	127	125	122	120	118
105	315	312	309	305	301	298	297	296	296	298	301	302	301	298	294	290	286	282	277
110	512	507	501	496	491	488	487	488	490	495	499	502	499	495	490	485	480	475	467
115	718	712	706	702	699	698	697	697	699	702	706	708	704	699	694	692	690	687	679
120	911	905	900	895	892	891	892	895	898	900	902	902	898	893	888	889	889	889	881
125	1093	1087	1083	1080	1079	1078	1077	1076	1077	1080	1083	1085	1080	1074	1069	1069	1070	1069	1064
130	1268	1263	1258	1256	1254	1253	1252	1251	1250	1253	1255	1256	1251	1245	1240	1240	1241	1242	1239
135	1417	1413	1409	1407	1406	1404	1403	1402	1401	1404	1406	1407	1403	1398	1394	1394	1395	1396	1394
140	1547	1544	1540	1539	1538	1537	1535	1533	1532	1534	1536	1537	1534	1530	1527	1527	1528	1528	1525
145	1660	1657	1655	1654	1653	1653	1651	1649	1648	1649	1651	1651	1649	1646	1644	1644	1645	1645	1642
150	1758	1756	1754	1754	1753	1753	1752	1750	1749	1750	1750	1750	1749	1747	1745	1746	1747	1747	1743
155	1840	1839	1838	1838	1838	1837	1836	1835	1834	1834	1834	1834	1833	1832	1832	1832	1833	1833	1829
160	1906	1906	1905	1905	1905	1905	1905	1904	1903	1903	1903	1903	1903	1902	1902	1901	1903	1904	1899
165	1957	1957	1956	1957	1957	1957	1956	1956	1955	1955	1955	1956	1955	1955	1955	1955	1957	1958	1954
170	1994	1994	1993	1993	1993	1993	1993	1993	1993	1993	1994	1994	1994	1994	1994	1996	1997	1997	1992
175	2016	2016	2016	2016	2016	2017	2017	2017	2017	2018	2018	2019	2019	2019	2019	2021	2022	2022	2018
180	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2023-12-18

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:229.64V I:0.3381A P:75.776W PF:0.9760 Freq:49.99Hz Lamp Flux:9121.76x1 lm																		
NAME:									TYPE:					WEIGHT:				
SPEC.:									DIM.: 500*50					SERIAL No.:				
MFR.: NLD23-009									SUR.:3.14*0.238*0.238					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	1524	1522	1521	1520	1519	1518	1518	1517	1516	1516	1515	1514	1514	1514	1513	1513	1512	1512	1512
5	1520	1518	1517	1516	1515	1514	1514	1513	1512	1512	1512	1511	1510	1510	1509	1509	1508	1508	1507
10	1503	1501	1501	1500	1500	1499	1498	1497	1497	1496	1496	1495	1495	1494	1494	1493	1493	1492	1491
15	1474	1473	1472	1472	1471	1470	1470	1469	1469	1469	1469	1469	1468	1467	1466	1466	1465	1464	1463
20	1433	1431	1430	1430	1430	1429	1429	1428	1429	1430	1430	1429	1428	1427	1426	1425	1424	1424	1423
25	1377	1376	1375	1375	1375	1374	1373	1373	1373	1374	1374	1373	1372	1371	1371	1370	1370	1369	1367
30	1302	1301	1301	1302	1302	1301	1300	1299	1299	1299	1300	1299	1298	1297	1298	1298	1298	1296	1293
35	1205	1204	1205	1207	1208	1206	1204	1202	1202	1202	1203	1202	1201	1201	1202	1203	1203	1200	1196
40	1081	1081	1084	1087	1089	1086	1081	1076	1075	1075	1075	1075	1074	1074	1077	1079	1080	1076	1070
45	860	871	884	895	900	889	874	858	849	843	840	843	848	856	869	881	888	878	863
50	614	632	651	666	674	658	635	611	596	585	579	581	587	596	611	624	631	617	598
55	469	492	502	507	505	498	486	470	443	417	400	415	438	461	469	472	470	463	452
60	349	342	328	315	307	321	338	352	344	333	322	325	329	330	315	298	287	300	318
65	243	249	222	194	173	197	228	256	246	230	215	227	240	247	219	187	164	188	220
70	178	202	195	182	170	180	191	197	173	147	128	146	170	192	185	172	161	169	179
75	129	129	138	148	155	152	146	139	135	132	130	130	131	134	142	150	155	149	141
80	86.3	84.0	89.9	96.4	101	96.8	90.8	85.6	88.7	93.1	97.3	95.8	93.6	92.1	96.3	101	104	99.5	93.8
85	58.8	60.2	60.7	60.7	60.2	58.8	57.4	56.4	57.0	58.1	59.1	58.8	58.4	58.4	60.4	62.4	63.9	62.7	60.9
90	6.43	6.73	6.96	7.15	7.29	7.39	7.45	7.47	7.45	7.40	7.30	7.13	6.93	6.70	6.47	6.23	5.98	5.74	5.50
95	25.2	24.9	24.8	24.8	25.0	25.3	25.6	25.9	26.0	26.2	26.4	27.0	27.6	28.3	28.7	29.2	29.7	30.8	31.9
100	117	116	116	117	119	120	121	122	123	123	123	124	125	127	128	129	130	132	134
105	274	271	271	272	274	277	279	282	283	284	284	286	287	289	291	293	295	297	298
110	461	456	456	458	461	465	469	473	475	476	478	479	481	483	485	487	489	489	490
115	671	664	661	660	661	666	672	678	680	680	681	685	689	692	693	693	694	695	696
120	872	863	860	858	859	862	866	870	871	871	872	878	885	890	889	888	886	886	887
125	1058	1053	1049	1046	1045	1048	1052	1056	1057	1057	1058	1062	1066	1069	1070	1070	1070	1071	1073
130	1235	1231	1228	1225	1224	1227	1230	1234	1234	1234	1235	1239	1243	1247	1246	1245	1245	1247	1249
135	1390	1387	1384	1381	1380	1381	1384	1386	1386	1387	1387	1390	1394	1396	1396	1396	1396	1397	1400
140	1522	1519	1517	1515	1514	1516	1517	1519	1519	1519	1519	1522	1524	1527	1527	1527	1527	1529	1531
145	1638	1635	1633	1632	1632	1633	1634	1635	1635	1635	1635	1637	1640	1642	1642	1642	1642	1644	1646
150	1739	1735	1734	1733	1733	1734	1735	1736	1736	1736	1736	1738	1740	1741	1742	1742	1742	1744	1746
155	1824	1820	1818	1818	1818	1819	1820	1822	1822	1821	1821	1823	1824	1826	1826	1826	1826	1828	1830
160	1894	1890	1889	1888	1889	1889	1890	1891	1891	1891	1891	1892	1894	1895	1895	1895	1896	1897	1899
165	1949	1944	1943	1943	1943	1944	1944	1945	1945	1945	1946	1946	1947	1948	1949	1949	1949	1951	1952
170	1987	1983	1982	1981	1982	1983	1983	1984	1984	1984	1984	1985	1986	1987	1987	1987	1987	1988	1990
175	2013	2008	2007	2007	2008	2009	2009	2010	2010	2010	2010	2011	2011	2012	2012	2013	2013	2013	2014
180	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2023-12-18

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:229.64V I:0.3381A P:75.776W PF:0.9760 Freq:49.99Hz Lamp Flux:9121.76x1 lm																	
NAME:									TYPE:						WEIGHT:		
SPEC.:									DIM.: 500*50						SERIAL No.:		
MFR.: NLD23-009									SUR.:3.14*0.238*0.238						Shielding Angle:		

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	1512	1511	1511	1510	1510	1510	1510	1509	1509	1509	1508	1508	1509	1512	1518				
5	1507	1506	1505	1505	1504	1504	1503	1503	1503	1502	1501	1500	1501	1505	1510				
10	1490	1489	1489	1488	1488	1487	1486	1485	1485	1484	1482	1481	1482	1485	1491				
15	1462	1462	1461	1460	1459	1457	1456	1456	1455	1455	1453	1452	1452	1455	1460				
20	1422	1422	1421	1420	1418	1416	1414	1413	1412	1412	1410	1409	1409	1412	1418				
25	1366	1365	1364	1363	1361	1359	1357	1356	1355	1355	1353	1351	1351	1354	1359				
30	1291	1290	1288	1287	1285	1283	1281	1281	1281	1280	1278	1276	1275	1277	1281				
35	1193	1192	1191	1190	1188	1186	1184	1185	1186	1186	1182	1178	1176	1176	1179				
40	1064	1062	1060	1060	1058	1058	1058	1061	1064	1065	1059	1053	1047	1046	1047				
45	848	840	835	833	836	840	846	855	861	864	852	837	822	814	809				
50	577	563	554	552	567	588	610	628	642	648	637	620	601	588	577				
55	438	414	394	383	407	439	471	482	486	484	475	463	450	439	428				
60	333	328	320	311	317	324	329	319	307	299	308	320	332	336	336				
65	249	242	228	214	223	234	239	214	187	168	190	219	245	247	236				
70	185	165	143	127	143	165	185	179	169	159	166	174	179	171	155				
75	133	129	126	124	122	121	122	128	135	139	135	128	122	121	122				
80	88.7	89.8	91.9	93.8	91.1	88.1	85.9	89.3	93.3	96.1	92.7	88.0	83.2	81.1	80.2				
85	58.7	57.3	56.0	54.9	53.7	52.9	52.5	53.3	54.2	54.8	53.4	51.6	49.7	48.6	47.8				
90	5.24	4.93	4.60	4.29	4.01	3.75	3.50	3.23	2.98	2.76	2.62	2.50	2.36	2.16	1.93				
95	32.8	32.9	33.0	33.2	34.6	36.3	38.0	39.0	39.9	40.7	41.5	42.2	42.7	42.8	42.7				
100	136	136	136	137	140	143	147	150	153	156	158	159	160	160	159				
105	299	299	299	300	305	310	316	322	326	330	332	333	333	332	331				
110	490	489	489	491	498	506	515	522	528	532	535	537	537	536	533				
115	697	696	695	697	705	714	724	729	734	737	741	743	744	743	740				
120	889	889	891	893	899	906	913	920	926	931	934	935	935	934	932				
125	1074	1073	1072	1074	1082	1092	1101	1104	1106	1108	1109	1111	1112	1113	1114				
130	1252	1251	1251	1252	1257	1264	1271	1274	1277	1280	1282	1284	1285	1285	1285				
135	1401	1401	1401	1401	1406	1411	1416	1419	1422	1424	1426	1428	1429	1429	1429				
140	1533	1533	1533	1534	1537	1541	1545	1548	1550	1552	1554	1556	1557	1558	1558				
145	1649	1649	1649	1650	1653	1656	1659	1661	1663	1664	1666	1669	1670	1671	1671				
150	1748	1749	1749	1750	1752	1755	1758	1759	1760	1761	1763	1766	1767	1768	1769				
155	1832	1833	1833	1834	1836	1839	1841	1841	1842	1843	1845	1847	1849	1850	1851				
160	1900	1901	1902	1902	1904	1906	1908	1908	1909	1910	1912	1913	1915	1916	1917				
165	1953	1954	1954	1955	1956	1958	1959	1960	1960	1961	1962	1964	1965	1967	1967				
170	1991	1991	1992	1993	1994	1995	1996	1996	1997	1997	1999	2000	2002	2003	2003				
175	2015	2015	2016	2016	2017	2018	2019	2020	2020	2020	2021	2022	2024	2024	2025				
180	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033	2033				

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2023-12-18

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: