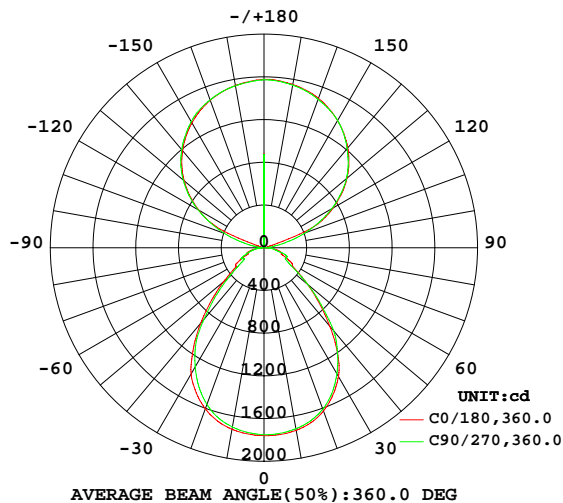


LUMINAIRE PHOTOMETRIC TEST REPORT

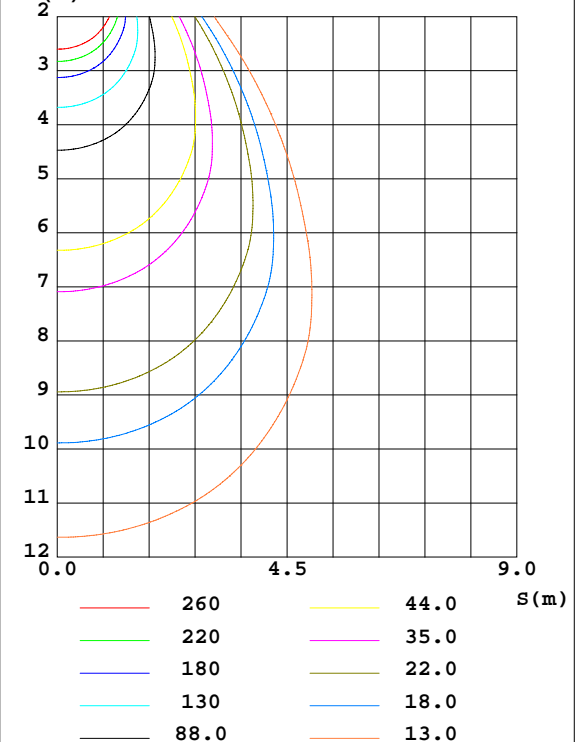
Test:U:229.72V I:0.2872A P:64.671W PF:0.9801 Freq:49.99Hz Lamp Flux:7754.06x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 510*280*20	SERIAL No.:
MFR.: NLD-242002-01	SUR.:0.465*0.235	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 119.90 lm/W			
MODEL		Imax(cd)	1760	S/MH(C0/180)	1.16
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	1.12
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	7754.1	η UP,DN(C0-180)	28.7,22.2
NOMINAL FLUX(lm)	7754.06	CIE CLASS	DIFFUSE	η UP,DN(C180-360)	28.3,20.8
LAMPS INSIDE	1	η up(%)	57.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230.0	η down(%)	43.0	CIBSE SHR MAX	1.25

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:2024-06-08

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:

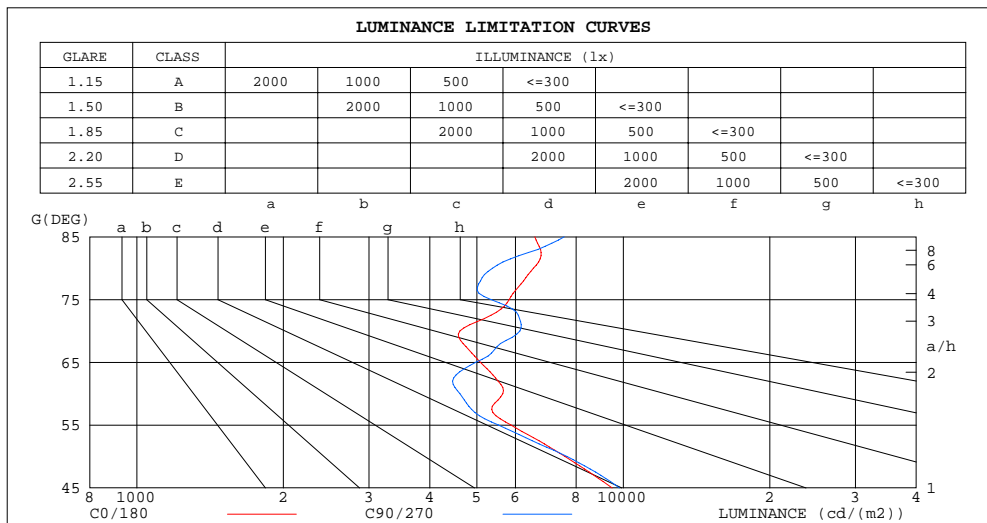
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	1736	1726	1721	1724	1726	1713	1704	1713	0- 10	165.8	165.8	2.14,2.14
20	1627	1616	1609	1609	1606	1580	1562	1581	10- 20	471.2	637.0	8.21,8.21
30	1394	1375	1365	1368	1366	1321	1289	1318	20- 30	682.9	1320	17,17
40	957.7	1005	1014	974.9	922.3	887.6	874.9	900.0	30- 40	722.9	2043	26.3,26.3
50	532.9	541.6	537.8	519.3	492.6	453.4	432.4	462.5	40- 50	543.7	2587	33.4,33.4
60	308.9	267.4	252.1	277.6	299.6	254.0	214.3	239.1	50- 60	310.4	2897	37.4,37.4
70	172.4	216.7	229.0	195.4	157.4	164.4	179.5	179.6	60- 70	223.0	3120	40.2,40.2
80	124.0	109.9	102.2	103.6	105.6	94.96	88.31	99.53	70- 80	156.3	3276	42.3,42.3
90	2.139	6.645	8.101	5.353	1.365	1.481	1.907	2.000	80- 90	58.44	3335	43,43
100	30.11	92.61	112.8	69.97	26.33	63.70	102.8	85.09	90-100	27.89	3363	43.4,43.4
110	247.1	379.4	409.8	283.2	164.6	271.7	391.4	365.6	100-110	177.9	3540	45.7,45.7
120	747.9	743.2	734.7	719.2	706.2	705.2	712.2	726.3	110-120	543.3	4084	52.7,52.7
130	1014	1014	1008	991.1	976.2	977.9	986.9	998.6	120-130	773.5	4857	62.6,62.6
140	1220	1218	1212	1198	1187	1189	1198	1208	130-140	853.1	5710	73.6,73.6
150	1377	1381	1378	1363	1350	1354	1363	1370	140-150	807.7	6518	84.1,84.1
160	1490	1485	1480	1475	1471	1471	1474	1480	150-160	658.9	7177	92.6,92.6
170	1552	1549	1547	1544	1542	1541	1541	1545	160-170	428.6	7605	98.1,98.1
180	1577	1577	1577	1577	1577	1577	1577	1577	170-180	148.7	7754	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:2024-06-08

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:

LUMINANCE LIMITATION CURVES

Test:U:229.72V I:0.2872A P:64.671W PF:0.9801 Freq:49.99Hz Lamp Flux:7754.06x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 510*280*20	SERIAL No.:
MFR.: NLD-242002-01	SUR.:0.465*0.235	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	6576	7555
80	6535	5385
75	5826	5344
70	4612	6129
65	5082	4973
60	5653	4613
55	5877	5537
50	7587	7656
45	9482	9816

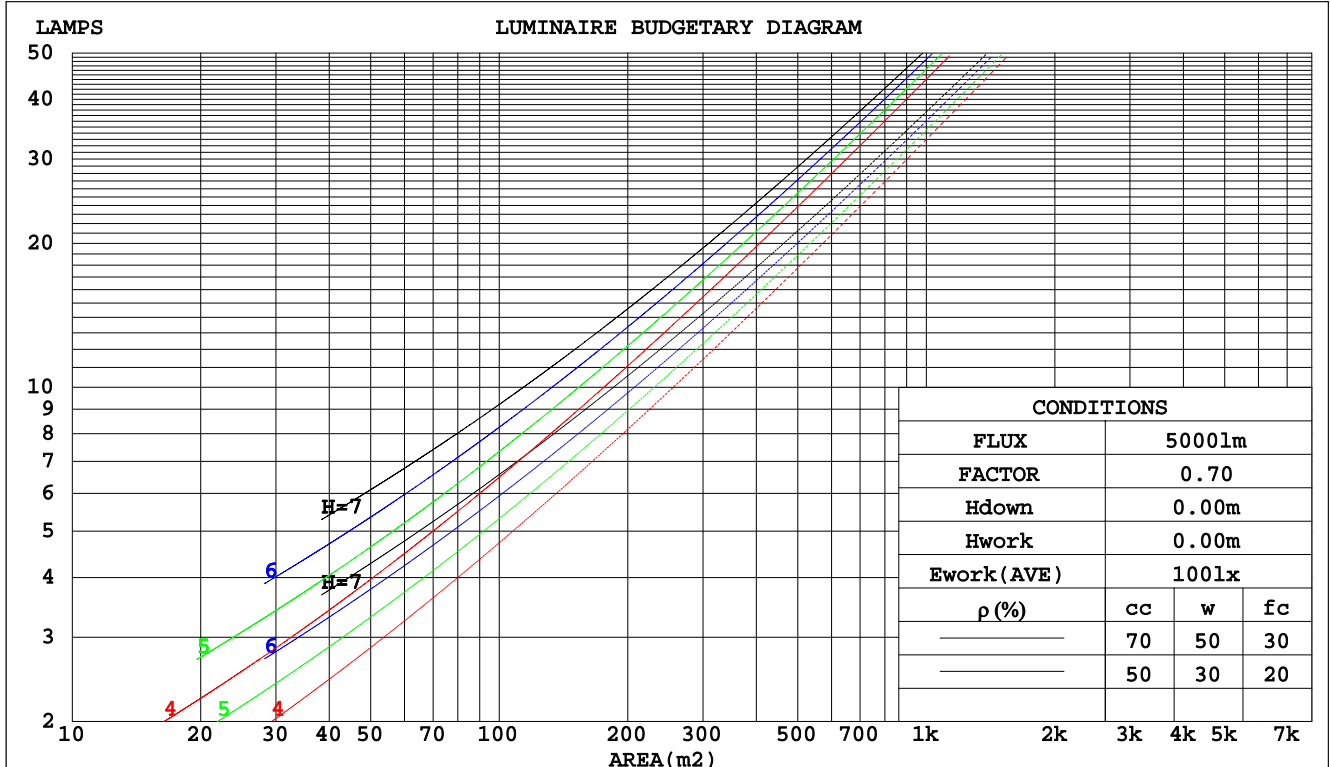
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-06-08

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.72V I:0.2872A P:64.671W PF:0.9801 Freq:49.99Hz Lamp Flux:7754.06x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 510*280*20	SERIAL No.:
MFR.: NLD-242002-01	SUR.:0.465*0.235	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	1.05	1.05	1.05	.96	.96	.96	.79	.79	.79	.64	.64	.64	.50	.50	.50	.43
1.0	.93	.89	.86	.85	.82	.79	.70	.68	.66	.57	.56	.54	.45	.44	.43	.37
2.0	.82	.76	.71	.75	.70	.66	.63	.59	.56	.51	.49	.46	.40	.39	.37	.32
3.0	.73	.66	.60	.67	.61	.56	.56	.52	.48	.46	.43	.40	.36	.34	.33	.28
4.0	.65	.57	.52	.60	.53	.48	.50	.45	.42	.41	.38	.35	.33	.31	.29	.25
5.0	.58	.50	.45	.54	.47	.42	.45	.40	.36	.38	.34	.31	.30	.28	.26	.22
6.0	.52	.45	.39	.49	.42	.37	.41	.36	.32	.34	.30	.28	.28	.25	.23	.20
7.0	.48	.40	.35	.44	.37	.33	.38	.32	.29	.31	.28	.25	.26	.23	.21	.18
8.0	.43	.36	.31	.40	.34	.29	.34	.29	.26	.29	.25	.22	.24	.21	.19	.17
9.0	.40	.33	.28	.37	.31	.26	.32	.27	.23	.27	.23	.20	.22	.19	.17	.15
10.0	.37	.30	.25	.34	.28	.24	.29	.24	.21	.25	.21	.18	.20	.18	.16	.14



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-06-08

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:229.72V I:0.2872A P:64.671W PF:0.9801 Freq:49.99Hz Lamp Flux:7754.06x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 510*280*20	SERIAL No.:
MFR.: NLD-242002-01	SUR.:0.465*0.235	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	.238	.136	.043	.192	.110	.035	.151	.087	.028	.113	.065	.021	
2.0	.243	.133	.041	.221	.122	.037	.180	.100	.031	.142	.080	.025	.107	.060	.019	
3.0	.225	.120	.036	.205	.110	.033	.167	.091	.028	.132	.073	.022	.100	.055	.017	
4.0	.209	.109	.032	.191	.100	.029	.156	.083	.025	.124	.066	.020	.094	.051	.016	
5.0	.194	.099	.029	.178	.091	.027	.146	.076	.022	.116	.061	.018	.088	.047	.014	
6.0	.182	.091	.026	.166	.084	.024	.136	.070	.020	.109	.057	.017	.083	.044	.013	
7.0	.170	.084	.024	.156	.078	.022	.128	.065	.019	.102	.053	.015	.078	.041	.012	
8.0	.160	.078	.022	.146	.072	.020	.121	.060	.017	.097	.049	.014	.074	.038	.011	
9.0	.150	.073	.020	.138	.067	.019	.114	.056	.016	.092	.046	.013	.070	.036	.010	
10.0	.142	.068	.019	.130	.063	.018	.108	.053	.015	.087	.043	.012	.067	.034	.010	

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	.625	.625	.625	.534	.534	.534	.364	.364	.364	.209	.209	.209	.067	.067	.067	
1.0	.615	.594	.576	.526	.510	.496	.360	.351	.343	.207	.203	.199	.066	.065	.064	
2.0	.606	.573	.545	.519	.493	.471	.356	.341	.328	.205	.198	.193	.066	.064	.063	
3.0	.599	.557	.524	.513	.481	.454	.353	.334	.319	.204	.195	.188	.065	.063	.061	
4.0	.592	.545	.509	.508	.471	.443	.349	.328	.312	.202	.192	.184	.065	.063	.061	
5.0	.585	.536	.499	.503	.464	.434	.346	.324	.307	.201	.190	.182	.065	.062	.060	
6.0	.579	.528	.492	.498	.458	.428	.344	.320	.303	.199	.188	.180	.064	.062	.059	
7.0	.574	.522	.486	.493	.453	.424	.341	.317	.300	.198	.187	.179	.064	.061	.059	
8.0	.568	.517	.482	.489	.449	.420	.338	.315	.298	.197	.186	.178	.064	.061	.059	
9.0	.563	.513	.479	.485	.445	.418	.336	.313	.296	.196	.185	.177	.063	.061	.059	
10.0	.558	.509	.476	.481	.442	.415	.334	.311	.295	.195	.184	.176	.063	.060	.058	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2024-06-08

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:229.72V I:0.2872A P:64.671W PF:0.9801 Freq:49.99Hz Lamp Flux:7754.06x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 510*280*20			SERIAL No.:			
MFR.: NLD-242002-01					SUR.:0.465*0.235			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	2H	14.6	15.4	15.5	16.3	17.5	14.4	15.2	15.3	16.1	17.3
	3H	15.5	16.2	16.4	17.1	18.4	15.6	16.4	16.6	17.3	18.5
	4H	16.1	16.8	17.0	17.7	18.9	16.2	16.9	17.2	17.8	19.1
	6H	16.7	17.3	17.7	18.3	19.6	16.6	17.2	17.6	18.2	19.4
	8H	17.0	17.6	18.0	18.6	19.8	16.8	17.4	17.8	18.4	19.7
	12H	17.2	17.7	18.2	18.7	20.0	17.0	17.6	18.0	18.6	19.9
4H	2H	14.7	15.4	15.6	16.3	17.5	14.5	15.2	15.5	16.1	17.4
	3H	15.9	16.5	16.9	17.4	18.7	16.1	16.7	17.1	17.6	18.9
	4H	16.7	17.2	17.7	18.2	19.5	16.8	17.3	17.8	18.3	19.6
	6H	17.4	17.9	18.5	18.9	20.3	17.3	17.8	18.3	18.8	20.1
	8H	17.8	18.2	18.9	19.3	20.6	17.6	18.0	18.7	19.1	20.4
	12H	18.1	18.5	19.1	19.5	20.9	18.0	18.3	19.0	19.4	20.8
8H	4H	16.8	17.3	17.9	18.3	19.6	16.9	17.3	18.0	18.4	19.7
	6H	17.8	18.2	18.9	19.2	20.6	17.7	18.0	18.7	19.0	20.4
	8H	18.3	18.6	19.4	19.7	21.1	18.1	18.4	19.2	19.5	20.9
	12H	18.7	19.0	19.8	20.0	21.5	18.6	18.9	19.7	19.9	21.4
12H	4H	16.8	17.2	17.9	18.2	19.6	16.9	17.3	18.0	18.3	19.7
	6H	17.9	18.2	18.9	19.2	20.6	17.7	18.0	18.8	19.1	20.5
	8H	18.4	18.7	19.5	19.8	21.2	18.2	18.5	19.3	19.6	21.0
Variations with the observer position at spacings:											
S = 1.0H	+ 0.4 / - 0.4					+ 0.3 / - 0.4					
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.2					
2.0H	+ 0.6 / - 0.3					+ 0.9 / - 0.6					

CIE Pub.117, 7754 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 7.1$)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2024-06-08

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:229.72V I:0.2872A P:64.671W PF:0.9801 Freq:49.99Hz Lamp Flux:7754.06x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 510*280*20	SERIAL No.:
MFR.: NLD-242002-01	SUR.:0.465*0.235	Shielding Angle:

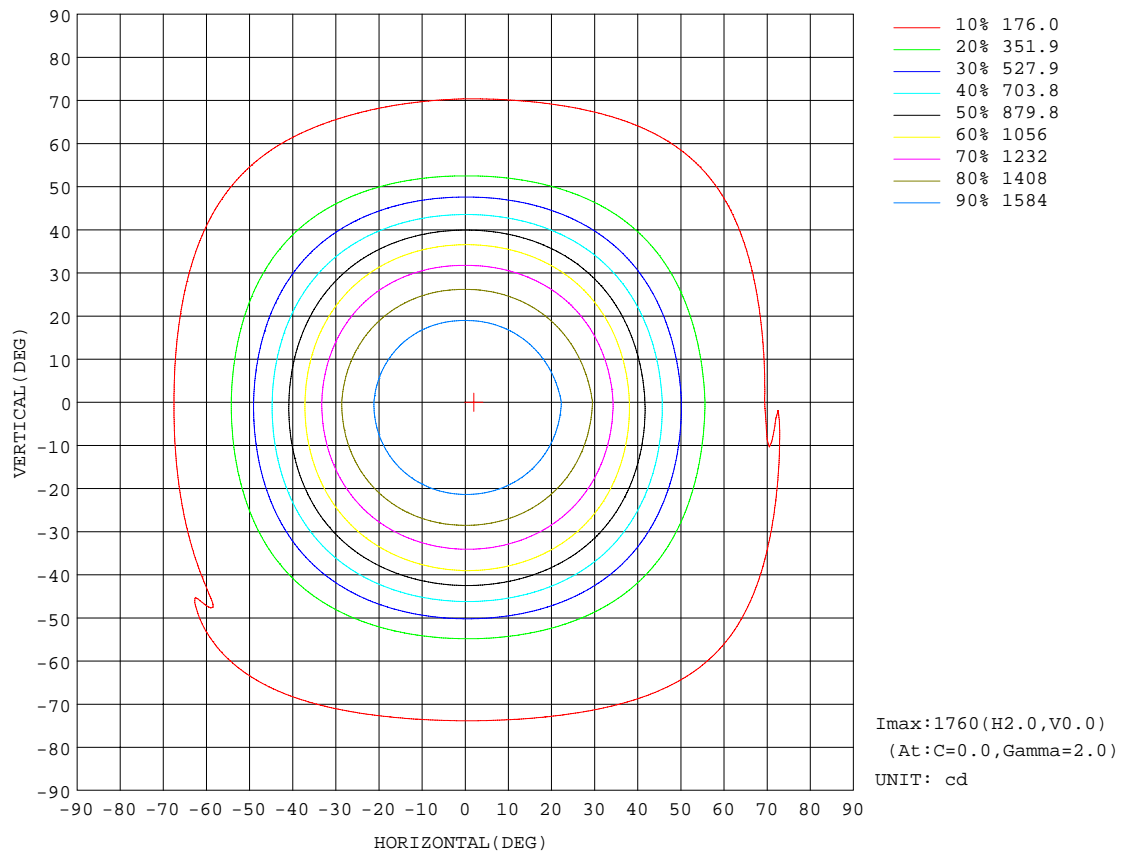
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	46	36	31	44	35	30	39	32	27	20
0.80	56	45	39	52	43	37	45	38	34	24
1.00	63	52	45	58	49	43	50	44	39	27
1.25	69	59	52	64	55	49	55	49	44	29
1.50	74	64	58	68	60	54	58	52	48	31
2.00	81	72	65	74	67	61	63	57	53	34
2.50	85	77	71	78	71	66	65	61	57	35
3.00	88	81	75	81	75	70	68	63	60	36
4.00	92	86	81	84	79	75	70	67	64	38
5.00	94	89	85	87	82	79	72	69	67	39
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:2024-06-08

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:229.72V I:0.2872A P:64.671W PF:0.9801 Freq:49.99Hz Lamp Flux:7754.06x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 510*280*20	SERIAL No.:
MFR.: NLD-242002-01	SUR.:0.465*0.235	Shielding Angle:

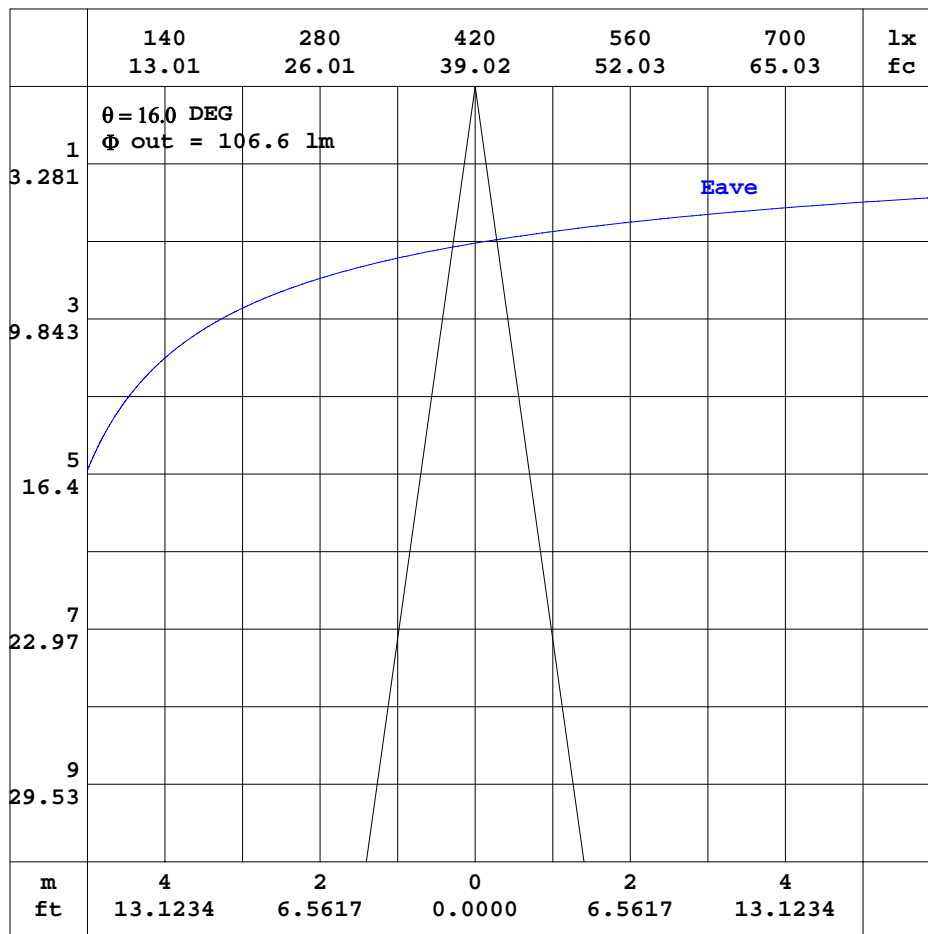


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-06-08

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:229.72V I:0.2872A P:64.671W PF:0.9801 Freq:49.99Hz Lamp Flux:7754.06x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 510*280*20	SERIAL No.:
MFR.: NLD-242002-01	SUR.:0.465*0.235	Shielding Angle:



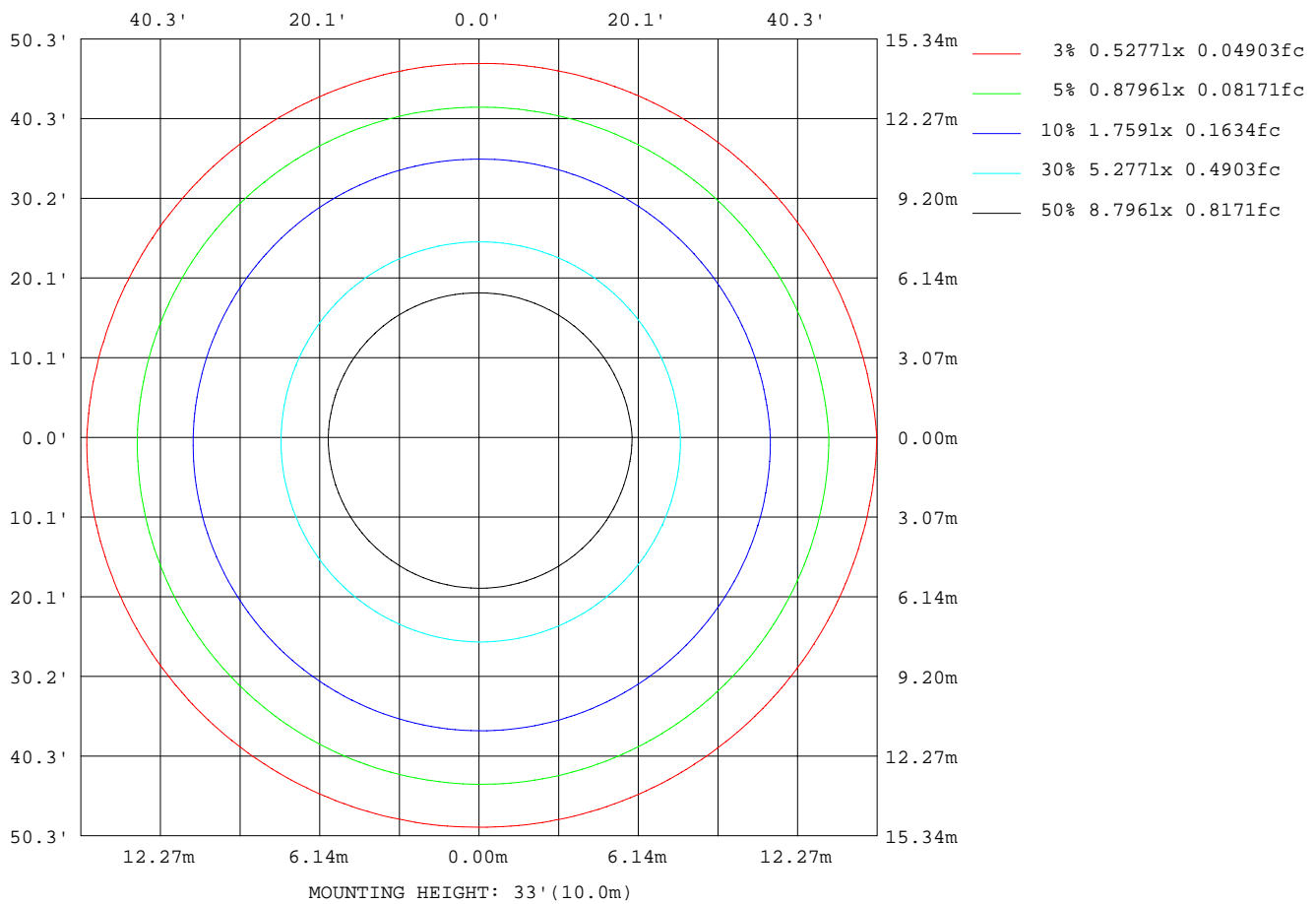
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-06-08

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:

ISOLUX DIAGRAM

Test:U:229.72V I:0.2872A P:64.671W PF:0.9801 Freq:49.99Hz Lamp Flux:7754.06x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 510*280*20	SERIAL No.:
MFR.: NLD-242002-01	SUR.:0.465*0.235	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date: 2024-06-08

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:229.72V I:0.2872A P:64.671W PF:0.9801 Freq:49.99Hz Lamp Flux:7754.06x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 510*280*20	SERIAL No.:
MFR.: NLD-242002-01	SUR.:0.465*0.235	Shielding Angle:

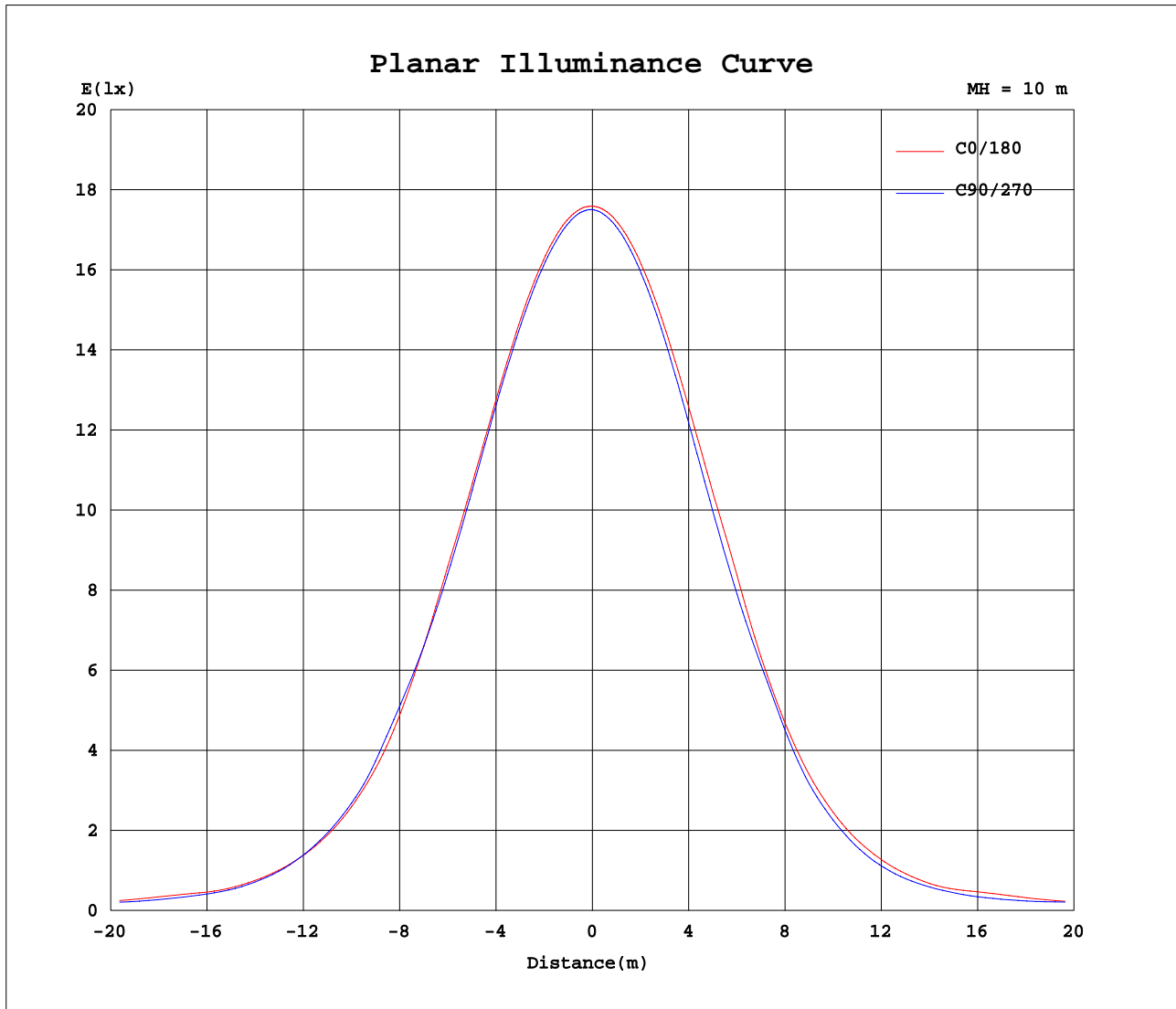
AvgL	cd/m2
L_0~180(65)av	4941
L_0~180(75)av	5618
L_0~180(85)av	5807
L_90~270(65)av	5029
L_90~270(75)av	5001
L_90~270(85)av	5919
L_45(65)av	4987
L_45(75)av	5219
L_45(85)av	5829

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-06-08

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: 2024-06-08

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:229.72V I:0.2872A P:64.671W PF:0.9801 Freq:49.99Hz Lamp Flux:7754.06x1 lm																	
NAME:									TYPE:						WEIGHT:		
SPEC.:									DIM.: 510*280*20						SERIAL No.:		
MFR.: NLD-242002-01									SUR.:0.465*0.235						Shielding Angle:		

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	1759	1758	1757	1757	1756	1755	1754	1754	1753	1753	1752	1752	1752	1751	1751	1751	1751	1751	1751
5	1755	1754	1753	1752	1751	1751	1750	1749	1748	1748	1747	1747	1746	1746	1745	1745	1745	1745	1744
10	1736	1734	1733	1732	1731	1730	1728	1727	1727	1726	1725	1724	1723	1723	1722	1722	1721	1721	1721
15	1696	1695	1694	1692	1691	1690	1688	1687	1686	1685	1684	1683	1683	1682	1681	1680	1680	1679	1679
20	1627	1625	1624	1623	1622	1620	1619	1618	1617	1616	1615	1614	1613	1613	1612	1611	1610	1610	1609
25	1524	1523	1521	1520	1518	1517	1516	1515	1513	1512	1511	1510	1509	1508	1507	1506	1506	1505	1504
30	1394	1391	1389	1387	1385	1383	1381	1379	1377	1375	1374	1372	1371	1370	1369	1368	1367	1366	1365
35	1199	1201	1202	1203	1204	1205	1205	1206	1206	1206	1206	1206	1206	1206	1205	1204	1203	1202	1201
40	958	965	971	977	983	988	993	997	1001	1005	1008	1010	1012	1014	1015	1015	1016	1015	1014
45	733	736	740	743	746	749	751	753	755	757	758	759	760	760	760	760	760	759	758
50	533	534	536	537	538	539	540	541	541	542	542	542	542	541	541	540	540	539	538
55	368	367	366	364	363	362	361	359	358	357	356	355	353	352	351	350	349	348	347
60	309	303	297	292	287	283	278	274	271	267	264	262	259	257	256	254	253	252	252
65	235	234	234	234	234	234	233	233	233	233	232	232	232	231	231	231	230	230	230
70	172	179	185	191	196	201	206	210	213	217	220	222	224	226	228	229	229	229	229
75	165	164	162	161	160	159	158	158	157	156	155	155	154	153	153	152	152	151	151
80	124	122	120	119	117	115	114	113	111	110	109	108	107	106	105	104	103	103	102
85	62.6	64.0	65.3	66.5	67.6	68.5	69.4	70.2	70.9	71.4	71.9	72.3	72.5	72.7	72.7	72.7	72.6	72.3	71.9
90	2.14	2.79	3.40	3.98	4.52	5.02	5.48	5.91	6.30	6.65	6.96	7.23	7.47	7.67	7.83	7.95	8.04	8.09	8.10
95	11.2	13.1	14.9	16.5	18.1	19.5	20.8	22.0	23.1	24.1	25.0	25.7	26.4	26.9	27.3	27.6	27.8	27.9	27.9
100	30.1	39.1	47.7	55.6	63.1	70.1	76.5	82.4	87.8	92.6	96.9	101	104	107	109	111	112	113	113
105	50.0	71.7	92.1	111	129	146	161	176	189	200	211	220	228	235	240	245	248	249	250
110	247	267	285	303	318	333	347	359	370	379	388	395	401	406	409	411	412	411	410
115	591	590	590	589	588	587	587	586	585	584	583	582	580	579	578	577	575	574	572
120	748	748	747	747	746	746	745	745	744	743	742	742	741	740	739	738	737	736	735
125	889	889	888	888	888	887	887	886	886	885	884	883	883	882	881	880	879	878	877
130	1014	1015	1015	1015	1015	1015	1015	1015	1015	1014	1014	1014	1013	1012	1012	1011	1010	1009	1008
135	1125	1125	1124	1124	1124	1124	1123	1123	1122	1122	1121	1121	1120	1119	1118	1118	1117	1116	1115
140	1220	1220	1220	1220	1220	1220	1219	1219	1219	1218	1218	1217	1217	1216	1215	1214	1214	1213	1212
145	1304	1305	1305	1305	1306	1306	1306	1306	1306	1306	1306	1306	1306	1305	1305	1304	1304	1303	1302
150	1377	1378	1378	1379	1379	1380	1380	1381	1381	1381	1381	1381	1381	1381	1380	1380	1380	1379	1378
155	1439	1439	1439	1439	1439	1439	1439	1438	1438	1438	1438	1437	1437	1437	1436	1436	1435	1435	1434
160	1490	1489	1489	1488	1488	1487	1487	1486	1486	1485	1485	1484	1483	1483	1482	1482	1481	1481	1480
165	1527	1527	1526	1526	1525	1525	1525	1524	1524	1523	1523	1522	1522	1522	1521	1521	1520	1520	1519
170	1552	1552	1551	1551	1551	1550	1550	1550	1550	1549	1549	1549	1548	1548	1548	1548	1547	1547	1547
175	1570	1570	1569	1569	1569	1568	1568	1568	1568	1567	1567	1567	1567	1566	1566	1566	1566	1566	1565
180	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-06-08

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:229.72V I:0.2872A P:64.671W PF:0.9801 Freq:49.99Hz Lamp Flux:7754.06x1 lm																		
NAME:									TYPE:					WEIGHT:				
SPEC.:									DIM.: 510*280*20					SERIAL No.:				
MFR.: NLD-242002-01									SUR.:0.465*0.235					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	1751	1751	1752	1752	1753	1753	1754	1754	1755	1755	1756	1756	1757	1757	1758	1758	1759	1759	1759
5	1745	1745	1745	1746	1746	1746	1747	1747	1748	1748	1748	1749	1749	1749	1750	1750	1750	1750	1750
10	1721	1721	1721	1722	1722	1722	1723	1723	1724	1724	1724	1725	1725	1725	1725	1726	1726	1726	1725
15	1679	1679	1679	1679	1679	1680	1680	1680	1680	1680	1681	1681	1681	1681	1681	1681	1680	1680	1678
20	1609	1609	1609	1609	1609	1609	1609	1609	1609	1609	1609	1609	1608	1608	1608	1607	1606	1606	1603
25	1504	1504	1504	1505	1505	1505	1505	1505	1505	1505	1505	1504	1504	1503	1503	1502	1501	1500	1497
30	1365	1365	1366	1366	1367	1367	1368	1368	1368	1369	1369	1369	1369	1369	1368	1368	1367	1366	1361
35	1199	1197	1195	1193	1190	1188	1185	1182	1180	1177	1174	1171	1168	1165	1162	1159	1157	1154	1150
40	1011	1008	1004	1000	996	991	986	980	975	969	963	958	952	946	940	934	928	922	918
45	756	754	751	748	745	742	738	735	731	727	723	719	715	711	707	702	698	694	689
50	536	535	533	531	529	527	524	522	519	517	514	511	508	505	502	499	496	493	488
55	346	346	345	344	344	343	342	342	341	340	339	338	338	337	336	334	333	332	329
60	254	257	259	262	265	268	271	274	278	281	284	287	290	292	295	297	298	300	295
65	229	228	228	227	227	226	226	225	225	224	224	223	223	222	222	222	222	222	222
70	226	223	220	216	213	208	204	200	195	191	186	182	177	173	169	165	161	157	157
75	151	151	151	152	152	152	152	152	153	153	153	153	153	153	153	153	153	153	152
80	102	102	102	102	103	103	103	103	104	104	104	105	105	105	105	105	106	106	105
85	71.0	70.0	68.9	67.7	66.5	65.2	63.8	62.4	61.0	59.5	58.1	56.6	55.1	53.6	52.2	50.7	49.3	48.0	47.0
90	7.90	7.67	7.41	7.12	6.80	6.47	6.11	5.74	5.35	4.96	4.56	4.16	3.76	3.36	2.97	2.59	2.22	1.37	1.76
95	27.1	26.2	25.2	24.2	23.0	21.9	20.6	19.4	18.2	16.9	15.6	14.4	13.2	12.1	11.0	9.98	9.05	8.21	8.70
100	109	105	101	96.5	91.6	86.4	81.0	75.5	70.0	64.4	58.9	53.5	48.2	43.2	38.4	34.0	29.9	26.3	29.2
105	242	233	223	212	200	188	175	162	149	136	123	110	98.1	86.3	75.1	64.7	55.3	46.9	54.1
110	399	387	373	360	345	330	314	299	283	268	252	237	223	209	196	185	174	165	173
115	570	568	566	564	561	559	557	555	553	550	548	546	545	543	541	540	538	537	537
120	733	731	730	728	726	724	723	721	719	718	716	714	713	711	710	709	707	706	706
125	875	873	872	870	868	866	864	863	861	859	857	856	854	853	851	850	849	848	848
130	1006	1005	1003	1001	999	997	995	993	991	989	987	986	984	982	980	979	978	976	976
135	1113	1112	1110	1108	1107	1105	1104	1102	1100	1099	1097	1096	1094	1093	1092	1091	1090	1089	1089
140	1210	1209	1207	1206	1204	1203	1201	1199	1198	1196	1195	1194	1192	1191	1190	1189	1187	1187	1186
145	1300	1299	1297	1295	1294	1292	1290	1289	1287	1285	1284	1282	1280	1279	1278	1276	1275	1274	1274
150	1376	1375	1373	1372	1370	1368	1367	1365	1363	1362	1360	1358	1357	1355	1354	1353	1351	1350	1350
155	1433	1432	1431	1430	1429	1428	1427	1425	1424	1423	1422	1421	1420	1419	1419	1418	1417	1417	1417
160	1480	1479	1478	1478	1477	1477	1476	1475	1475	1474	1474	1473	1473	1472	1472	1472	1471	1471	1471
165	1519	1519	1518	1518	1517	1517	1516	1516	1515	1515	1515	1514	1514	1514	1513	1513	1513	1513	1512
170	1546	1546	1546	1546	1545	1545	1545	1545	1544	1544	1544	1544	1543	1543	1543	1543	1543	1542	1542
175	1565	1565	1565	1565	1565	1565	1565	1564	1564	1564	1564	1564	1564	1564	1564	1564	1563	1563	1563
180	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-06-08

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:229.72V I:0.2872A P:64.671W PF:0.9801 Freq:49.99Hz Lamp Flux:7754.06x1 lm																		
NAME:									TYPE:					WEIGHT:				
SPEC.:									DIM.: 510*280*20					SERIAL No.:				
MFR.: NLD-242002-01									SUR.:0.465*0.235					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	1758	1758	1757	1757	1756	1756	1755	1755	1754	1754	1753	1753	1752	1752	1751	1751	1751	1751	1751
5	1749	1748	1747	1746	1745	1744	1743	1742	1742	1741	1740	1739	1738	1738	1737	1737	1736	1736	1737
10	1723	1722	1720	1719	1718	1716	1715	1713	1712	1711	1709	1708	1707	1706	1705	1705	1704	1705	1705
15	1676	1674	1672	1670	1668	1666	1664	1662	1660	1658	1657	1655	1654	1652	1651	1651	1650	1650	1651
20	1600	1597	1594	1591	1588	1585	1582	1580	1577	1574	1572	1570	1568	1566	1564	1563	1562	1563	1564
25	1493	1489	1485	1481	1476	1472	1468	1465	1461	1457	1454	1451	1448	1445	1443	1441	1440	1441	1442
30	1356	1351	1346	1341	1336	1331	1326	1321	1316	1311	1307	1303	1299	1296	1293	1291	1289	1290	1291
35	1147	1144	1141	1138	1135	1132	1129	1127	1125	1123	1121	1120	1118	1118	1117	1117	1117	1118	1120
40	913	909	905	901	897	894	891	888	885	883	880	879	877	876	875	875	875	876	878
45	685	680	676	672	668	664	660	657	653	650	648	645	643	642	640	639	639	640	642
50	483	479	474	470	466	461	457	453	450	446	443	441	438	436	434	433	432	434	436
55	326	323	319	316	313	310	307	304	301	299	297	294	293	291	290	289	288	289	291
60	291	286	281	276	270	265	259	254	249	243	238	233	229	224	221	217	214	215	216
65	223	223	224	225	225	226	227	228	229	229	230	231	232	233	233	234	235	235	236
70	157	158	159	159	160	162	163	164	166	168	169	171	173	175	176	178	179	180	180
75	150	149	148	146	145	143	142	140	139	138	137	135	134	134	133	132	132	132	133
80	103	102	101	99.8	98.5	97.3	96.1	95.0	93.9	92.8	91.8	91.0	90.2	89.5	89.0	88.6	88.3	88.9	89.7
85	46.1	45.3	44.5	43.8	43.1	42.5	42.0	41.5	41.1	40.8	40.6	40.4	40.3	40.3	40.4	40.5	40.8	41.2	41.8
90	1.67	1.60	1.55	1.51	1.48	1.47	1.47	1.48	1.50	1.53	1.57	1.62	1.67	1.72	1.78	1.84	1.91	1.92	1.92
95	9.29	9.96	10.7	11.5	12.4	13.3	14.2	15.2	16.2	17.2	18.1	19.1	20.0	20.9	21.7	22.5	23.2	23.2	23.2
100	32.5	36.2	40.2	44.6	49.1	53.9	58.7	63.7	68.7	73.6	78.5	83.2	87.7	92.0	95.9	99.6	103	103	102
105	62.3	71.5	81.5	92.1	103	115	127	139	151	163	175	186	197	208	217	226	234	233	232
110	182	192	204	216	229	243	257	272	286	301	315	330	343	357	369	381	391	393	394
115	537	537	537	538	538	539	540	541	542	543	544	545	547	548	550	551	553	555	556
120	705	705	705	705	705	705	705	705	706	706	707	707	708	709	710	711	712	713	715
125	848	848	848	848	848	849	849	850	850	851	852	853	854	855	856	858	859	860	861
130	976	976	976	976	976	977	977	978	979	979	980	981	982	983	984	986	987	988	989
135	1089	1089	1089	1090	1090	1091	1092	1093	1093	1094	1095	1096	1097	1099	1100	1101	1102	1103	1104
140	1187	1187	1187	1187	1188	1188	1189	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200
145	1274	1274	1274	1274	1275	1275	1276	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287
150	1350	1351	1351	1352	1352	1353	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365
155	1417	1417	1418	1418	1418	1419	1420	1420	1421	1422	1422	1423	1424	1425	1426	1427	1428	1428	1429
160	1471	1471	1471	1471	1471	1471	1471	1471	1471	1471	1471	1472	1472	1472	1473	1473	1474	1474	1475
165	1512	1512	1512	1512	1512	1512	1512	1512	1512	1512	1512	1512	1512	1512	1513	1513	1513	1514	1514
170	1542	1542	1541	1541	1541	1541	1541	1541	1541	1540	1540	1540	1540	1540	1541	1541	1541	1541	1541
175	1563	1562	1562	1562	1561	1561	1561	1561	1560	1560	1560	1560	1560	1560	1560	1560	1560	1560	1560
180	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-06-08

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:229.72V I:0.2872A P:64.671W PF:0.9801 Freq:49.99Hz Lamp Flux:7754.06x1 lm																	
NAME:									TYPE:						WEIGHT:		
SPEC.:									DIM.: 510*280*20						SERIAL No.:		
MFR.: NLD-242002-01									SUR.:0.465*0.235						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	1751	1751	1751	1752	1752	1752	1753	1753	1754	1754	1755	1756	1757	1757	1758				
5	1737	1738	1738	1739	1740	1741	1742	1743	1744	1745	1747	1748	1750	1752	1753				
10	1706	1707	1708	1709	1710	1712	1713	1715	1717	1719	1722	1724	1727	1730	1733				
15	1652	1654	1655	1657	1659	1661	1664	1666	1669	1672	1676	1679	1683	1687	1692				
20	1565	1567	1569	1572	1574	1577	1581	1585	1589	1593	1598	1603	1608	1614	1620				
25	1444	1446	1449	1452	1455	1459	1464	1469	1474	1480	1486	1493	1500	1508	1516				
30	1294	1296	1300	1303	1308	1313	1318	1324	1331	1338	1346	1355	1363	1373	1383				
35	1122	1125	1128	1131	1135	1139	1143	1148	1153	1159	1164	1171	1177	1184	1192				
40	880	882	885	888	892	896	900	905	910	916	922	928	935	942	950				
45	644	647	650	654	658	662	667	673	679	685	692	699	707	715	724				
50	438	441	444	448	452	457	463	468	475	482	489	497	505	514	523				
55	293	295	298	301	305	309	313	317	322	328	334	340	346	353	361				
60	218	220	222	226	230	234	239	245	251	257	265	272	281	289	299				
65	236	236	236	236	236	236	236	236	236	236	236	236	236	235	235				
70	180	180	180	180	180	180	180	179	179	178	177	176	176	175	174				
75	133	134	135	137	138	140	141	143	145	148	150	153	155	158	161				
80	90.6	91.7	92.9	94.3	95.9	97.6	99.5	102	104	106	109	111	114	117	121				
85	42.4	43.1	43.9	44.8	45.8	46.9	48.1	49.3	50.7	52.1	53.6	55.3	57.0	58.8	60.6				
90	1.93	1.94	1.95	1.96	1.97	1.99	2.00	2.01	2.03	2.04	2.06	2.07	2.09	2.10	2.12				
95	23.1	22.9	22.6	22.2	21.7	21.2	20.6	19.9	19.1	18.2	17.3	16.2	15.1	13.9	12.6				
100	101	99.5	97.6	95.1	92.2	88.9	85.1	80.8	76.1	70.9	65.3	59.1	52.6	45.5	38.1				
105	229	225	220	214	206	198	188	177	165	152	138	123	106	88.7	69.9				
110	393	391	389	385	379	373	366	357	347	336	324	311	297	281	265				
115	558	560	561	563	565	567	569	571	574	576	578	581	583	586	588				
120	716	718	719	721	723	724	726	728	730	733	735	737	740	742	745				
125	863	864	865	867	868	870	872	873	875	877	879	881	882	885	887				
130	990	992	993	994	996	997	999	1000	1002	1003	1005	1007	1009	1011	1012				
135	1105	1107	1108	1109	1110	1111	1112	1114	1115	1116	1118	1119	1120	1122	1123				
140	1201	1202	1203	1205	1206	1207	1208	1209	1211	1212	1213	1215	1216	1217	1219				
145	1288	1289	1289	1290	1291	1292	1294	1295	1296	1297	1298	1299	1300	1302	1303				
150	1366	1366	1367	1368	1369	1369	1370	1371	1372	1372	1373	1374	1375	1375	1376				
155	1429	1430	1431	1431	1432	1432	1433	1434	1434	1435	1436	1436	1437	1438	1438				
160	1476	1476	1477	1478	1478	1479	1480	1481	1482	1483	1484	1485	1486	1487	1489				
165	1515	1515	1516	1516	1517	1518	1519	1519	1520	1521	1522	1523	1524	1525	1526				
170	1542	1542	1543	1543	1544	1544	1545	1545	1546	1547	1548	1548	1549	1550	1551				
175	1560	1561	1561	1561	1562	1562	1563	1564	1564	1565	1566	1566	1567	1568	1569				
180	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577	1577				

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-06-08

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: