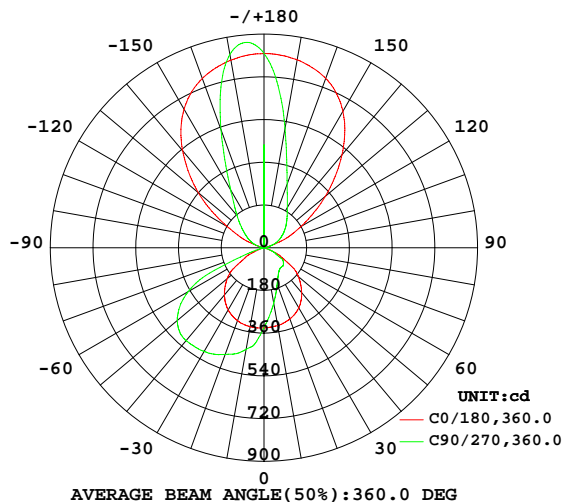


LUMINAIRE PHOTOMETRIC TEST REPORT

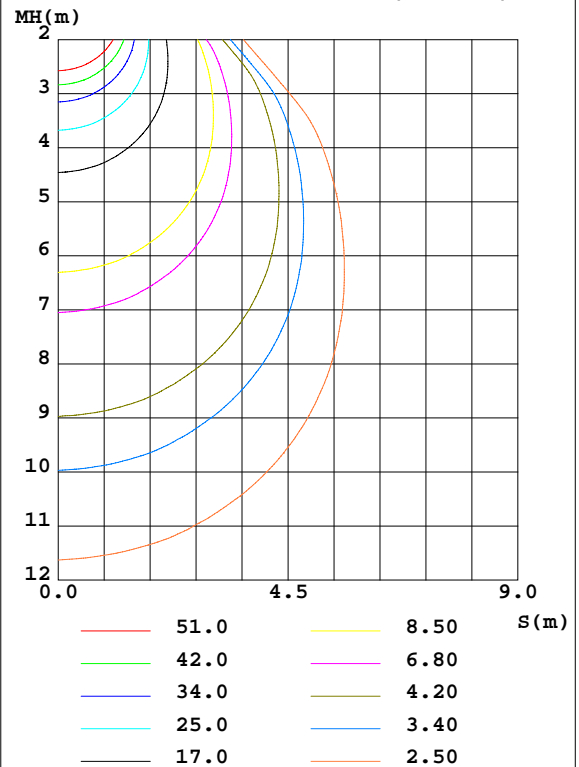
Test:U:229.72V I:0.1114A P:24.809W PF:0.9697 Freq:49.99Hz Lamp Flux:2113.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 120*120*120	SERIAL No.:
MFR.: NLD24-0014-01	SUR.:0.08*0.08	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 85.17 lm/W
MODEL		Imax(cd)	868.8	S/MH(C0/180)	1.32	
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	2.00	
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	2113.0	η UP,DN(C0-180)	22.4,12.2	
NOMINAL FLUX(lm)	2113.03	CIE CLASS	DIFFUSE	η UP,DN(C180-360)	30.5,34.9	
LAMPS INSIDE	1	η up(%)	52.9	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	230.0	η down(%)	47.1	CIBSE SHR MAX	1.30	

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:2024-10-07

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:

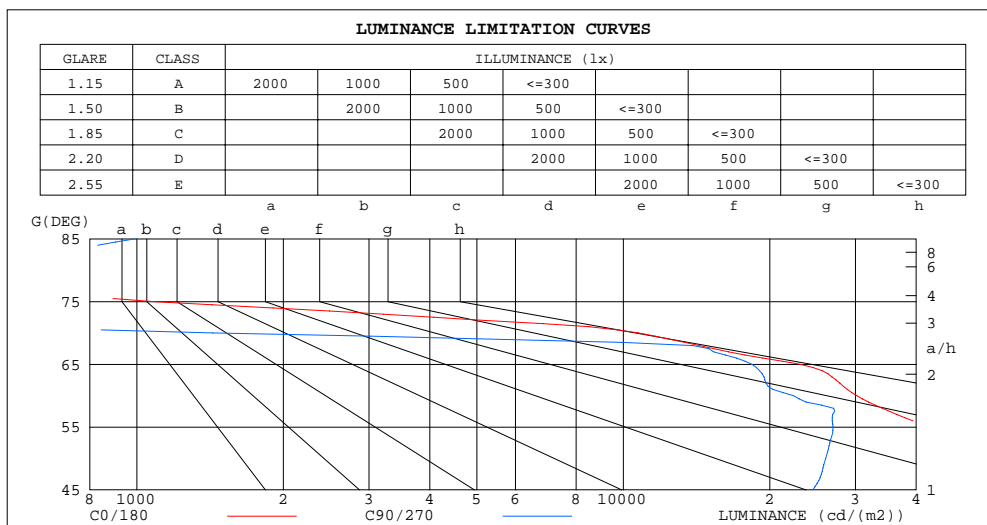
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	333.2	262.1	237.3	263.7	338.0	419.1	434.2	416.3	0- 10	32.44	32.44	1.54,1.54
20	319.5	195.0	163.1	198.1	327.1	452.4	478.5	448.1	10- 20	93.84	126.3	5.98,5.98
30	293.0	142.6	123.2	144.1	302.5	465.3	504.6	458.9	20- 30	145.2	271.5	12.8,12.8
40	247.1	115.3	109.7	113.1	259.6	457.3	510.9	452.6	30- 40	184.4	455.9	21.6,21.6
50	189.4	106.2	107.2	97.92	202.1	414.1	476.8	410.1	40- 50	206.1	662.1	31.3,31.3
60	96.59	89.10	71.61	79.18	104.0	324.4	368.5	323.1	50- 60	195.4	857.5	40.6,40.6
70	23.51	25.22	3.134	22.99	25.04	130.7	72.22	130.3	60- 70	119.5	977.0	46.2,46.2
80	0.4906	0.5678	0.6876	0.6967	0.5412	0.9953	0.6008	0.6851	70- 80	16.67	993.7	47,47
90	0.1804	0.4725	0.6701	0.6357	0.6145	0.3630	0.3282	0.4169	80- 90	0.4797	994.2	47.1,47.1
100	4.774	6.381	11.84	6.287	5.404	9.674	10.20	8.160	90-100	2.891	997.1	47.2,47.2
110	54.34	45.00	41.71	44.35	54.31	49.09	42.59	48.25	100-110	28.78	1026	48.5,48.5
120	181.0	85.22	79.17	86.46	177.6	95.65	76.54	93.93	110-120	78.80	1105	52.3,52.3
130	337.4	131.2	113.3	135.2	361.2	173.4	116.9	159.4	120-130	133.3	1238	58.6,58.6
140	510.9	185.1	149.7	190.1	533.4	294.7	176.7	265.1	130-140	182.9	1421	67.2,67.2
150	664.9	260.5	197.5	261.9	673.9	484.9	281.3	445.1	140-150	215.3	1636	77.4,77.4
160	760.3	388.4	286.5	384.3	759.5	717.4	530.6	692.1	150-160	221.1	1857	87.9,87.9
170	804.2	612.1	512.2	606.0	802.9	856.4	827.5	851.7	160-170	181.9	2039	96.5,96.5
180	818.5	818.5	818.5	818.5	818.5	818.5	818.5	818.5	170-180	73.87	2113	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:2024-10-07

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:0.1114A P:24.809W PF:0.9697 Freq:49.99Hz Lamp Flux:2113.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 120*120*120	SERIAL No.:
MFR.: NLD24-0014-01	SUR.:0.08*0.08	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	385	993
80	441	619
75	1077	556
70	10740	1432
65	23097	18384
60	30183	22380
55	41944	26979
50	46036	26066
45	48347	24500

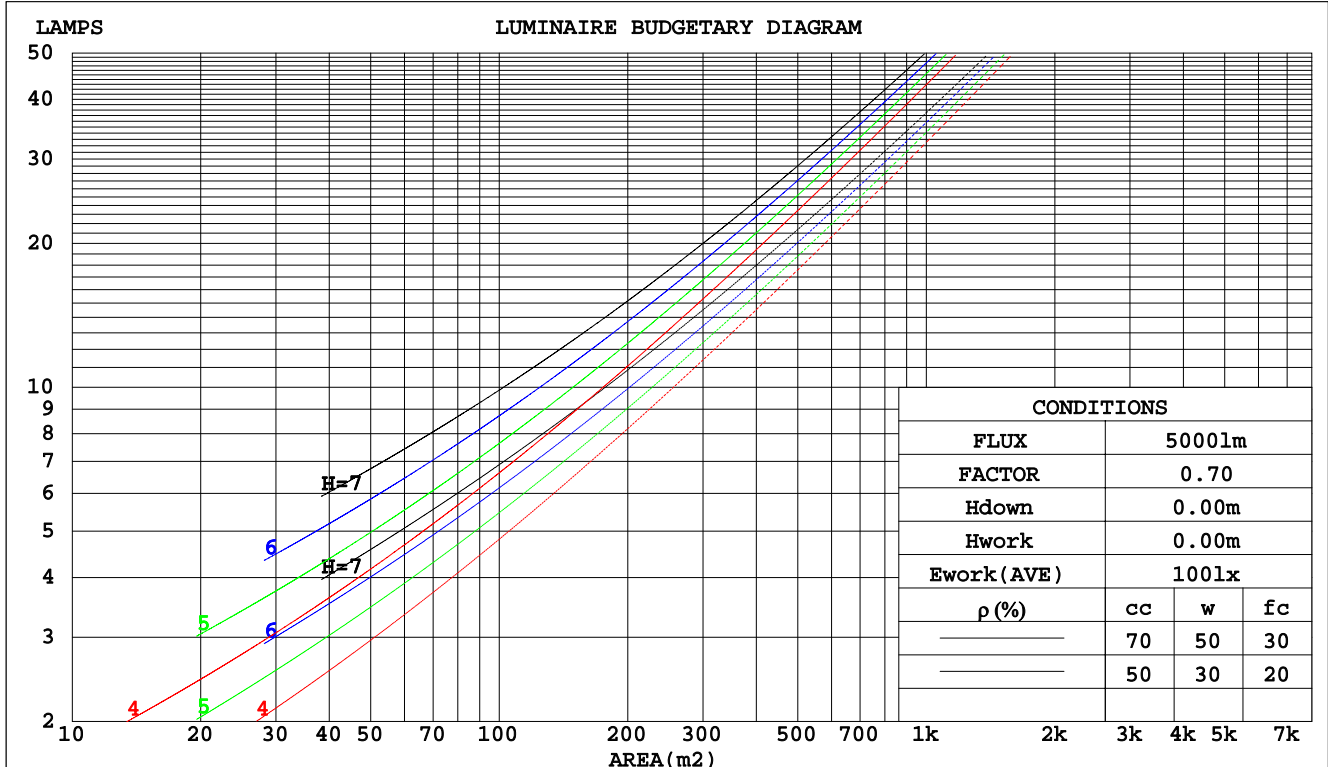
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-10-07

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:0.1114A P:24.809W PF:0.9697 Freq:49.99Hz Lamp Flux:2113.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 120*120*120	SERIAL No.:
MFR.: NLD24-0014-01	SUR.:0.08*0.08	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	1.06	1.06	1.06	.98	.98	.98	.82	.82	.82	.67	.67	.67	.53	.53	.53	.47
1.0	.94	.90	.87	.86	.83	.80	.72	.70	.68	.60	.58	.57	.48	.47	.46	.41
2.0	.82	.76	.71	.76	.71	.66	.64	.60	.57	.53	.50	.48	.43	.41	.39	.35
3.0	.72	.65	.59	.67	.60	.55	.56	.52	.48	.47	.43	.40	.38	.35	.33	.29
4.0	.64	.56	.50	.59	.52	.47	.50	.45	.41	.41	.38	.35	.34	.31	.29	.25
5.0	.57	.49	.43	.52	.45	.40	.44	.39	.35	.37	.33	.30	.30	.27	.25	.21
6.0	.51	.43	.37	.47	.40	.35	.40	.34	.30	.33	.29	.26	.27	.24	.22	.19
7.0	.45	.38	.32	.42	.35	.30	.36	.30	.26	.30	.26	.23	.25	.21	.19	.16
8.0	.41	.33	.28	.38	.31	.27	.33	.27	.23	.27	.23	.20	.22	.19	.17	.15
9.0	.37	.30	.25	.35	.28	.24	.30	.24	.21	.25	.21	.18	.21	.17	.15	.13
10.0	.34	.27	.22	.32	.25	.21	.27	.22	.19	.23	.19	.16	.19	.16	.14	.12



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-10-07

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:0.1114A P:24.809W PF:0.9697 Freq:49.99Hz Lamp Flux:2113.03x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.: 120*120*120			SERIAL No.:		
MFR.: NLD24-0014-01			SUR.:0.08*0.08			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	.239	.137	.043	.196	.113	.036	.157	.091	.029	.121	.070	.023		
2.0	.250	.137	.042	.229	.126	.039	.190	.106	.033	.154	.086	.027	.120	.068	.021		
3.0	.234	.125	.037	.215	.115	.035	.180	.097	.030	.146	.080	.025	.116	.064	.020		
4.0	.219	.114	.033	.201	.105	.031	.168	.089	.027	.138	.074	.022	.109	.059	.018		
5.0	.204	.104	.030	.188	.097	.028	.158	.082	.024	.130	.068	.020	.103	.055	.017		
6.0	.191	.096	.027	.176	.089	.026	.148	.076	.022	.122	.063	.019	.097	.051	.015		
7.0	.179	.088	.025	.165	.082	.023	.139	.070	.020	.114	.059	.017	.091	.048	.014		
8.0	.167	.082	.023	.155	.076	.022	.130	.065	.019	.108	.055	.016	.086	.044	.013		
9.0	.157	.076	.021	.146	.071	.020	.123	.061	.017	.102	.051	.015	.081	.041	.012		
10.0	.148	.071	.020	.137	.066	.018	.116	.057	.016	.096	.048	.014	.077	.039	.011		

pcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.594	.594	.594	.508	.508	.508	.346	.346	.346	.199	.199	.199	.064	.064	.064	
1.0	.584	.563	.545	.500	.483	.469	.342	.333	.324	.197	.192	.189	.063	.062	.061	
2.0	.576	.542	.513	.493	.466	.443	.338	.323	.309	.195	.188	.181	.063	.061	.059	
3.0	.569	.526	.491	.488	.454	.426	.335	.315	.299	.194	.184	.176	.062	.060	.058	
4.0	.563	.514	.476	.483	.444	.414	.332	.309	.291	.192	.181	.172	.062	.059	.057	
5.0	.557	.505	.466	.478	.437	.405	.329	.305	.286	.191	.179	.170	.061	.058	.056	
6.0	.551	.497	.459	.473	.431	.399	.327	.301	.283	.189	.177	.168	.061	.058	.055	
7.0	.545	.491	.453	.469	.426	.395	.324	.298	.280	.188	.176	.167	.061	.058	.055	
8.0	.539	.486	.449	.464	.421	.392	.321	.296	.278	.187	.175	.166	.060	.057	.055	
9.0	.534	.482	.446	.460	.418	.389	.319	.294	.276	.186	.173	.165	.060	.057	.055	
10.0	.529	.478	.443	.456	.415	.387	.317	.292	.275	.185	.173	.164	.060	.057	.054	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2024-10-07

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:0.1114A P:24.809W PF:0.9697 Freq:49.99Hz Lamp Flux:2113.03x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 120*120*120			SERIAL No.:			
MFR.: NLD24-0014-01					SUR.:0.08*0.08			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	18.4	19.4	19.3	20.2	21.4	18.3	19.2	19.2	20.1	21.2	
	3H	18.6	19.4	19.5	20.3	21.5	18.7	19.5	19.6	20.4	21.5
	4H	18.5	19.2	19.4	20.1	21.3	18.5	19.2	19.4	20.2	21.3
	6H	18.3	19.0	19.2	19.9	21.1	18.3	19.0	19.2	19.9	21.1
	8H	18.2	18.9	19.1	19.8	21.0	18.2	18.9	19.2	19.8	21.0
	12H	18.1	18.7	19.1	19.7	20.9	18.1	18.8	19.1	19.7	20.9
4H	2H	18.7	19.5	19.6	20.4	21.6	18.6	19.4	19.6	20.3	21.5
	3H	18.9	19.5	19.8	20.5	21.7	19.0	19.6	19.9	20.6	21.8
	4H	18.7	19.3	19.7	20.2	21.5	18.8	19.3	19.8	20.3	21.6
	6H	18.5	19.0	19.5	20.0	21.3	18.6	19.1	19.6	20.1	21.4
	8H	18.4	18.9	19.4	19.9	21.2	18.5	19.0	19.5	20.0	21.3
	12H	18.3	18.7	19.4	19.7	21.1	18.4	18.8	19.4	19.8	21.1
8H	4H	18.5	18.9	19.5	19.9	21.2	18.5	19.0	19.6	20.0	21.3
	6H	18.3	18.7	19.3	19.7	21.0	18.4	18.7	19.4	19.7	21.1
	8H	18.2	18.5	19.2	19.5	20.9	18.3	18.6	19.3	19.6	21.0
	12H	18.1	18.4	19.2	19.4	20.8	18.2	18.4	19.2	19.5	20.9
12H	4H	18.4	18.8	19.4	19.8	21.1	18.5	18.9	19.5	19.9	21.2
	6H	18.2	18.5	19.2	19.5	20.9	18.3	18.6	19.3	19.6	21.0
	8H	18.1	18.4	19.2	19.4	20.8	18.2	18.4	19.2	19.5	20.8
Variations with the observer position at spacings:											
S = 1.0H	+ 1.3 / - 0.9					+ 0.5 / - 0.6					
1.5H	+ 2.4 / - 2.2					+ 0.9 / - 1.2					
2.0H	+ 3.2 / - 2.3					+ 1.2 / - 1.9					

CIE Pub.117, 2113 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 2.6$)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2024-10-07

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:0.1114A P:24.809W PF:0.9697 Freq:49.99Hz Lamp Flux:2113.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 120*120*120	SERIAL No.:
MFR.: NLD24-0014-01	SUR.:0.08*0.08	Shielding Angle:

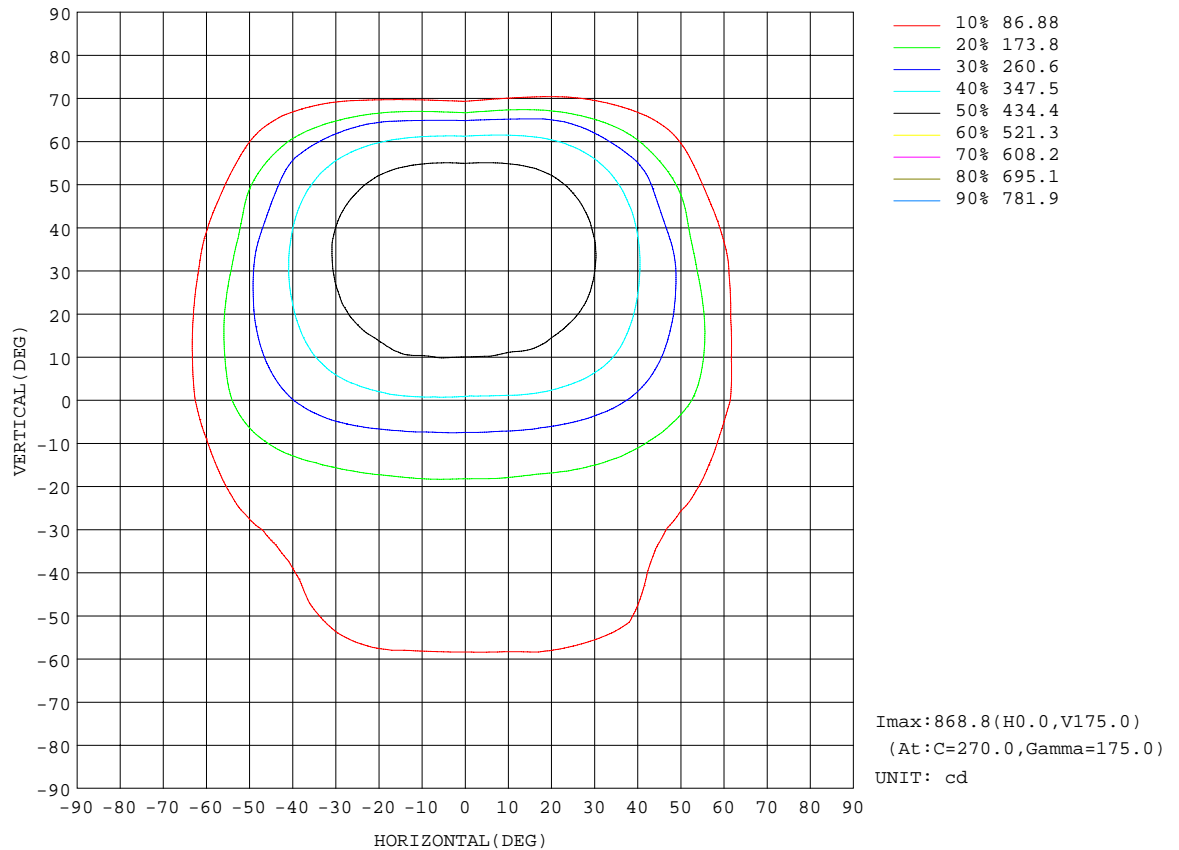
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	43	33	26	41	31	25	36	28	23	15
0.80	53	42	35	50	40	33	43	35	30	20
1.00	61	50	43	57	47	41	49	43	37	25
1.25	69	58	51	64	54	48	55	48	43	28
1.50	74	64	57	68	60	54	58	52	47	31
2.00	81	72	66	75	67	62	64	58	54	35
2.50	85	77	71	79	72	67	67	62	58	37
3.00	89	82	76	82	76	71	69	65	61	39
4.00	93	87	82	86	81	77	72	69	66	41
5.00	95	90	86	88	84	80	74	71	69	42
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:2024-10-07

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:0.1114A P:24.809W PF:0.9697 Freq:49.99Hz Lamp Flux:2113.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 120*120*120	SERIAL No.:
MFR.: NLD24-0014-01	SUR.:0.08*0.08	Shielding Angle:

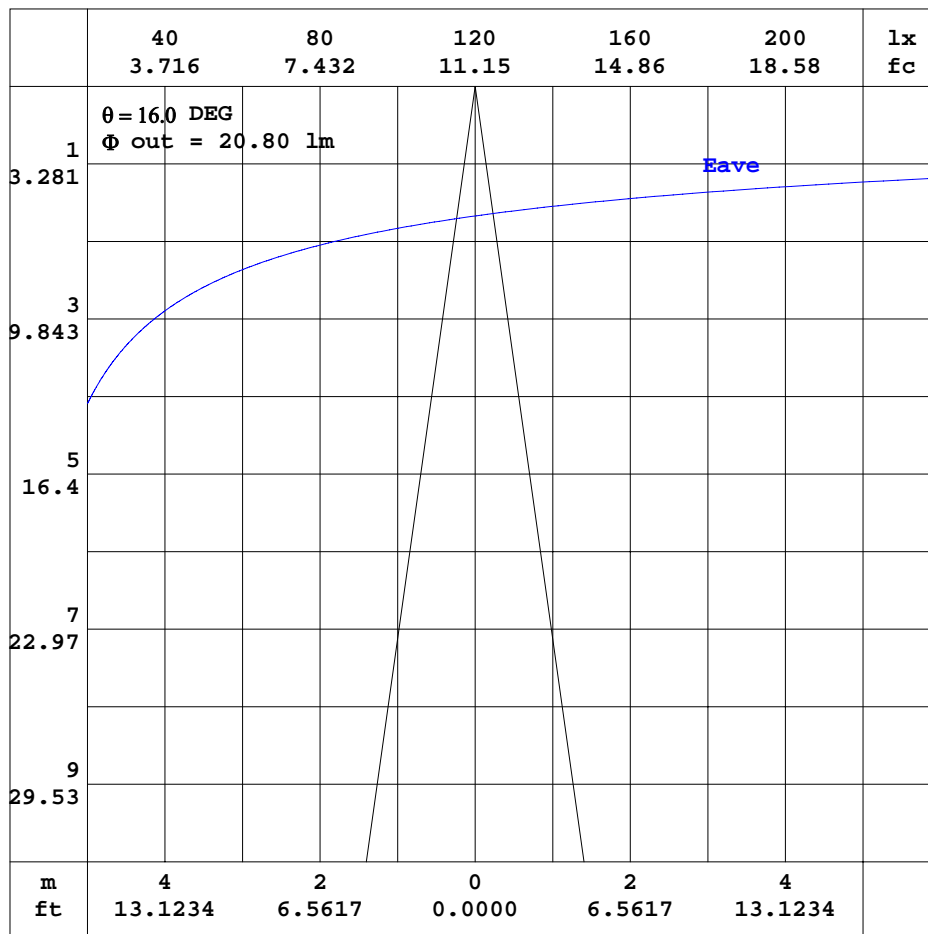


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date: 2024-10-07

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:0.1114A P:24.809W PF:0.9697 Freq:49.99Hz Lamp Flux:2113.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 120*120*120	SERIAL No.:
MFR.: NLD24-0014-01	SUR.:0.08*0.08	Shielding Angle:



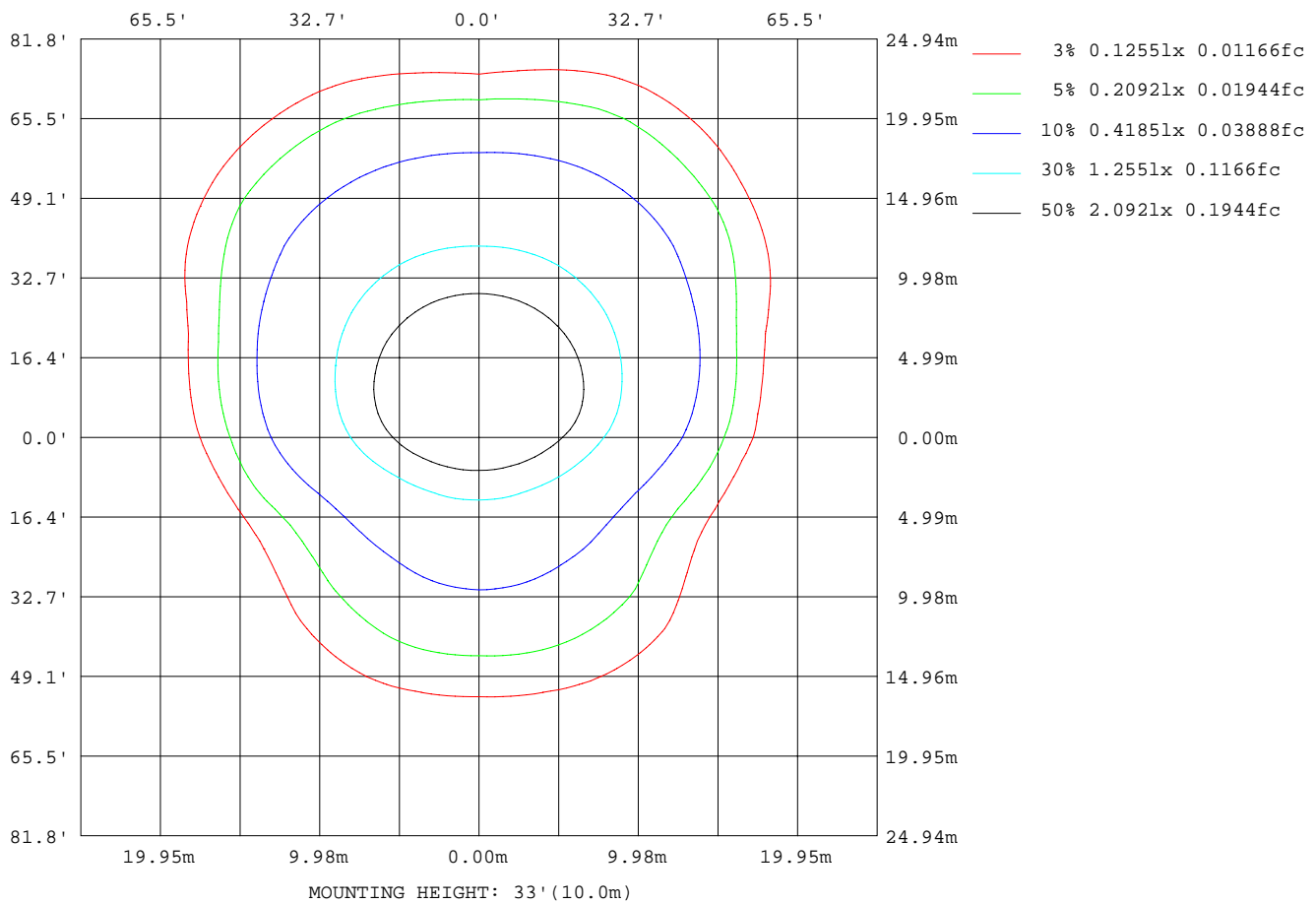
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date: 2024-10-07

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:0.1114A P:24.809W PF:0.9697 Freq:49.99Hz Lamp Flux:2113.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 120*120*120	SERIAL No.:
MFR.: NLD24-0014-01	SUR.:0.08*0.08	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-10-07

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:0.1114A P:24.809W PF:0.9697 Freq:49.99Hz Lamp Flux:2113.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 120*120*120	SERIAL No.:
MFR.: NLD24-0014-01	SUR.:0.08*0.08	Shielding Angle:

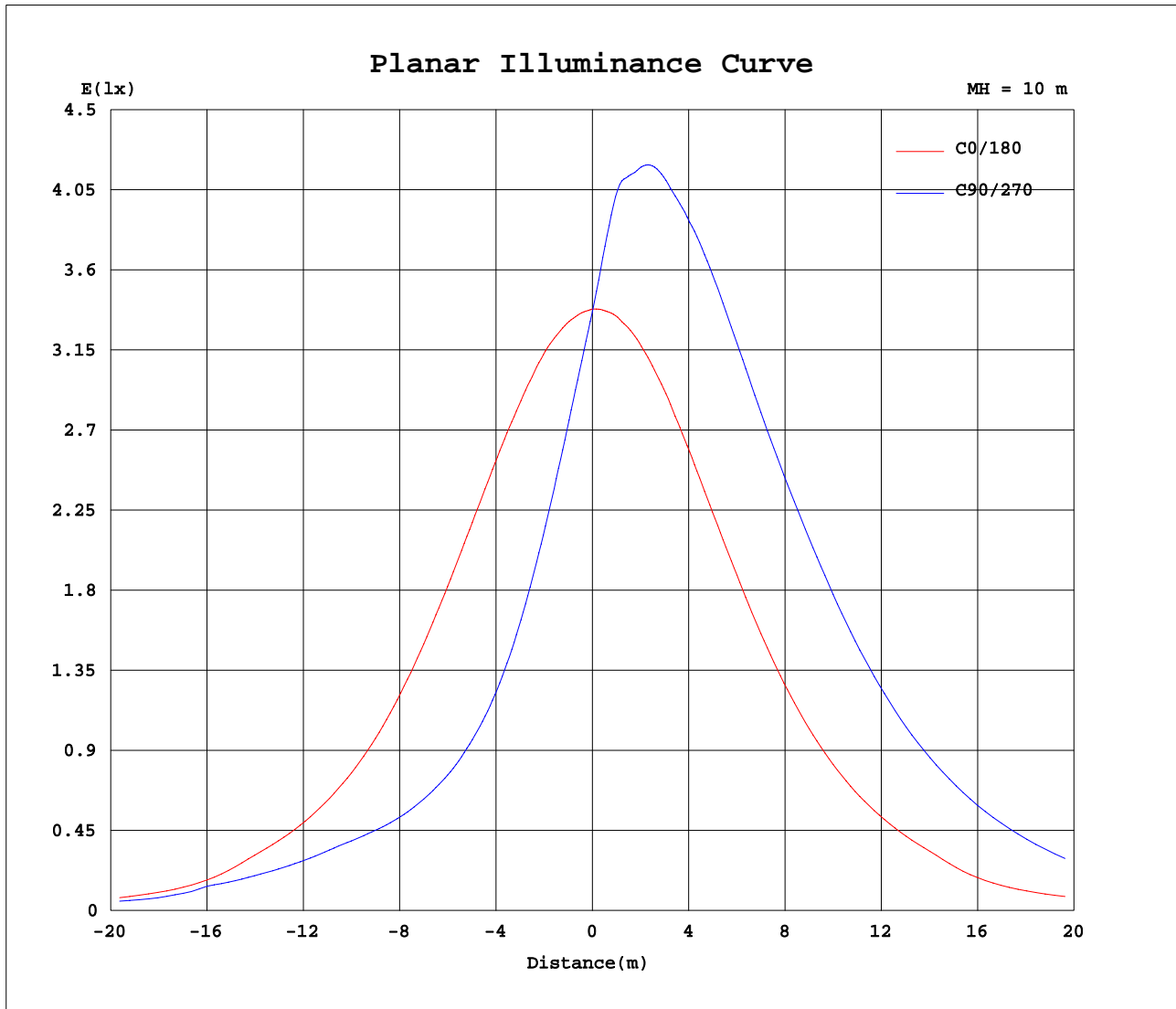
AvgL	cd/m2
L_0~180(65)av	24642
L_0~180(75)av	1211
L_0~180(85)av	530
L_90~270(65)av	56202
L_90~270(75)av	2118
L_90~270(85)av	743
L_45(65)av	56336
L_45(75)av	10451
L_45(85)av	755

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-10-07

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: 2024-10-07

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:0.1114A P:24.809W PF:0.9697 Freq:49.99Hz Lamp Flux:2113.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 120*120*120	SERIAL No.:
MFR.: NLD24-0014-01	SUR.:0.08*0.08	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	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338	337	337	337
5	336	331	327	322	318	314	310	306	302	299	296	294	292	290	288	287	286	285	285
10	333	324	315	306	298	290	282	275	268	262	257	253	249	245	243	240	239	238	237
15	328	314	300	288	276	265	254	244	235	227	221	215	210	206	203	200	198	197	196
20	320	301	284	268	253	239	226	214	204	195	188	182	177	173	169	166	165	163	163
25	308	286	266	247	229	213	199	187	176	166	159	154	149	146	144	141	140	139	139
30	293	267	244	223	204	187	173	161	151	143	137	133	130	129	127	125	124	123	123
35	273	245	220	198	179	163	150	139	131	125	121	119	118	117	116	115	115	114	114
40	247	218	193	172	153	140	130	123	118	115	113	112	111	111	111	111	110	110	110
45	219	190	166	146	129	119	113	110	109	110	110	109	110	110	110	111	111	111	111
50	189	162	139	121	107	99.9	98.0	99.0	102	106	107	108	109	110	110	109	109	108	107
55	154	130	110	95.3	84.8	80.8	82.8	87.5	93.8	101	103	104	104	105	104	103	102	100	99.0
60	96.6	81.3	69.7	61.7	57.2	58.3	64.4	72.3	81.0	89.1	91.3	92.0	91.5	89.9	86.8	82.5	78.2	74.4	71.6
65	62.5	50.9	42.3	36.6	33.9	36.0	42.5	50.2	58.0	64.9	64.5	62.4	59.4	55.9	53.3	52.0	50.9	50.2	49.7
70	23.5	20.2	17.7	16.2	15.5	16.2	18.3	20.7	23.1	25.2	25.7	25.6	24.8	23.2	19.7	14.7	9.78	5.73	3.13
75	1.78	2.22	2.60	2.92	3.20	3.47	3.72	3.88	3.92	3.82	3.24	2.56	1.85	1.18	0.80	0.72	0.73	0.81	0.92
80	0.49	0.46	0.44	0.43	0.43	0.45	0.47	0.51	0.54	0.57	0.57	0.58	0.58	0.58	0.60	0.62	0.65	0.67	0.69
85	0.21	0.23	0.25	0.27	0.29	0.32	0.35	0.39	0.43	0.46	0.50	0.53	0.56	0.58	0.58	0.58	0.57	0.56	0.55
90	0.18	0.19	0.20	0.22	0.25	0.29	0.33	0.38	0.43	0.47	0.51	0.54	0.57	0.59	0.61	0.63	0.65	0.66	0.67
95	0.77	0.85	0.92	0.99	1.05	1.09	1.13	1.16	1.19	1.23	1.29	1.35	1.42	1.48	1.54	1.60	1.64	1.67	1.68
100	4.77	6.16	7.24	8.03	8.51	8.45	7.92	7.31	6.75	6.38	7.17	8.18	9.30	10.4	11.2	11.6	11.8	11.9	11.8
105	17.9	20.2	22.2	23.8	25.0	25.8	26.1	26.1	26.1	26.0	26.5	27.1	27.6	27.8	27.4	26.3	25.1	24.0	23.1
110	54.3	55.2	55.5	55.4	54.8	53.5	51.4	49.2	47.0	45.0	44.5	44.2	44.2	44.0	43.4	42.7	42.2	41.7	
115	121	112	103	95.7	88.5	82.1	76.3	71.4	67.3	64.0	62.4	61.5	61.2	61.3	61.6	62.1	62.5	63.0	63.3
120	181	165	150	137	125	115	105	97.2	90.5	85.2	82.0	79.9	78.7	78.2	78.1	78.1	78.4	78.8	79.2
125	254	229	206	186	168	151	137	125	115	108	102	99.0	96.9	95.9	95.4	95.1	95.2	95.6	96.1
130	337	302	270	240	214	192	172	156	142	131	124	119	116	114	113	113	112	113	113
135	424	378	336	299	265	235	210	189	171	157	147	140	136	134	132	131	130	130	131
140	511	457	408	363	322	286	254	227	204	185	173	164	158	155	152	150	149	149	150
145	593	535	480	430	384	342	304	271	242	219	203	192	184	179	176	173	171	170	171
150	665	606	551	499	450	404	362	323	289	260	241	227	217	210	205	200	198	197	197
155	720	667	616	567	520	474	428	386	348	315	292	274	261	251	244	238	235	233	233
160	760	717	675	633	591	548	504	462	423	388	363	342	325	312	302	294	289	287	286
165	786	755	724	692	660	625	589	553	519	488	462	439	420	404	391	382	376	373	372
170	804	785	765	744	724	702	679	656	634	612	592	573	555	540	529	521	516	513	512
175	815	805	796	787	777	768	759	749	740	731	721	712	704	697	691	688	686	685	685
180	819	819	819	819	819	819	819	819	819	819	819	819	819	819	819	819	819	819	819

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-10-07

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:0.1114A P:24.809W PF:0.9697 Freq:49.99Hz Lamp Flux:2113.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 120*120*120	SERIAL No.:
MFR.: NLD24-0014-01	SUR.:0.08*0.08	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	337	337	337	338	338	338	337	337	337	337	337	337	337	337	337	338	338	338	338
5	285	286	287	289	291	292	294	297	300	303	306	310	314	319	324	329	334	339	344
10	238	239	241	244	247	250	254	259	264	270	277	284	292	300	309	318	328	338	349
15	197	199	201	204	208	212	217	223	230	238	247	257	268	280	292	306	319	334	351
20	164	165	167	170	174	178	184	190	198	207	218	230	243	258	274	291	309	327	346
25	140	140	142	144	147	151	155	161	169	178	190	203	217	234	254	274	295	316	338
30	123	124	125	127	129	131	134	138	144	153	163	176	191	210	231	254	278	302	326
35	114	115	115	116	117	117	119	121	125	132	141	152	166	185	207	231	257	283	308
40	110	110	110	110	110	110	110	111	113	117	123	131	143	159	182	206	233	260	284
45	110	110	109	108	107	106	105	104	105	106	108	113	121	136	157	180	206	232	256
50	107	108	108	107	106	104	101	99.4	97.9	95.6	94.9	96.7	102	113	132	154	177	202	224
55	99.5	100	100	101	99.7	97.5	95.0	92.3	89.8	85.3	81.9	80.6	82.2	90.3	105	123	143	165	184
60	73.9	77.2	80.9	84.5	86.1	85.7	84.4	82.2	79.2	72.8	66.7	61.6	58.5	60.5	67.7	77.6	89.9	104	117
65	49.5	49.5	49.8	50.3	51.9	54.3	56.4	57.8	58.2	52.6	46.5	40.8	36.6	37.3	43.1	50.9	60.4	70.8	77.4
70	7.16	12.5	18.5	24.2	27.2	27.4	26.5	25.0	23.0	20.8	18.7	16.9	15.6	15.5	16.6	18.6	21.5	25.0	27.9
75	0.76	0.65	0.64	0.76	1.36	2.38	3.45	4.44	5.24	5.09	4.72	4.19	3.58	3.00	2.52	2.19	2.07	2.23	2.57
80	0.67	0.65	0.63	0.62	0.62	0.64	0.66	0.68	0.70	0.68	0.66	0.64	0.61	0.59	0.57	0.55	0.54	0.54	0.56
85	0.57	0.59	0.60	0.62	0.63	0.62	0.62	0.61	0.59	0.58	0.57	0.55	0.53	0.51	0.47	0.44	0.41	0.38	0.35
90	0.68	0.69	0.69	0.70	0.69	0.68	0.67	0.65	0.64	0.62	0.59	0.57	0.54	0.51	0.47	0.43	0.39	0.61	0.34
95	1.63	1.57	1.49	1.40	1.32	1.24	1.17	1.11	1.07	1.10	1.14	1.18	1.21	1.19	1.13	1.06	1.00	0.94	0.96
100	11.6	11.3	10.8	10.2	9.42	8.46	7.55	6.80	6.29	6.90	7.70	8.52	9.22	9.02	7.95	6.85	5.93	5.40	7.07
105	23.5	24.2	25.1	25.9	26.2	26.0	25.8	25.5	25.3	25.8	26.3	26.7	26.8	25.6	23.3	21.0	19.3	18.5	22.2
110	41.7	41.8	42.1	42.4	42.6	42.6	42.9	43.4	44.4	46.9	49.7	52.4	54.9	55.8	55.1	54.4	54.0	54.3	59.4
115	62.7	61.9	61.2	60.7	60.5	60.8	61.5	62.9	64.9	68.3	72.3	77.0	82.2	88.3	95.1	102	108	113	117
120	78.7	78.3	78.0	78.0	78.3	79.0	80.5	82.9	86.5	92.4	99.6	108	117	129	142	156	168	178	183
125	95.7	95.3	95.3	95.7	96.4	97.7	100	104	110	119	131	144	160	180	204	228	250	268	275
130	113	113	113	114	116	118	121	127	135	148	163	181	203	232	268	303	335	361	372
135	131	131	132	133	136	139	144	151	162	177	196	218	245	282	328	373	414	449	463
140	150	150	152	154	157	161	168	177	190	209	232	260	292	336	390	443	492	533	553
145	171	172	174	177	182	187	195	207	222	245	272	305	342	392	450	509	563	610	634
150	197	199	201	206	212	219	229	243	262	289	321	357	399	451	511	571	626	674	700
155	233	235	239	244	252	261	274	292	314	344	380	420	464	515	572	627	679	724	751
160	287	289	294	302	312	324	340	360	384	417	454	495	537	583	632	678	722	759	784
165	372	376	381	390	402	417	435	457	482	512	545	580	616	653	689	724	756	785	806
170	512	515	519	527	537	552	568	586	606	627	649	672	695	718	741	763	784	803	818
175	685	686	687	690	695	702	710	719	728	737	746	755	765	775	785	795	805	814	822
180	819	819	819	819	819	819	819	819	819	819	819	819	819	819	819	819	819	819	819

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-10-07

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:0.1114A P:24.809W PF:0.9697 Freq:49.99Hz Lamp Flux:2113.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 120*120*120	SERIAL No.:
MFR.: NLD24-0014-01	SUR.:0.08*0.08	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	338	338	338	338	338	338	338	338	338	338	338	338	338	338	337	337	337	337	337
5	350	355	360	365	370	375	379	384	388	391	394	397	399	400	401	401	401	401	400
10	360	372	382	392	400	407	414	419	423	426	428	430	432	433	434	434	434	434	433
15	367	384	399	410	419	426	431	436	442	448	453	457	460	462	463	463	462	462	461
20	365	383	400	415	426	436	445	452	459	464	469	472	475	477	478	479	478	478	476
25	359	379	398	414	427	439	449	458	467	475	482	487	491	494	495	496	495	494	492
30	349	371	392	410	426	441	454	465	475	484	491	497	501	504	505	505	505	504	502
35	332	355	378	399	418	435	451	466	477	487	494	501	505	508	509	510	509	509	507
40	309	332	356	378	400	421	440	457	471	482	492	499	505	508	511	511	511	510	508
45	279	303	326	350	375	398	421	441	457	471	482	491	497	501	503	503	502	502	500
50	246	268	291	315	341	367	391	414	432	448	461	471	477	479	480	479	477	478	478
55	205	226	248	273	299	326	352	375	394	409	422	432	437	439	438	436	433	436	438
60	132	149	169	195	228	262	295	324	342	356	366	372	375	375	373	371	368	373	378
65	85.2	95.3	108	130	160	191	222	250	266	278	286	289	287	278	269	260	254	265	278
70	31.9	37.6	45.3	59.2	78.5	98.0	116	131	132	129	123	114	105	93.9	84.2	76.6	72.2	80.9	92.5
75	3.37	4.76	6.84	11.0	16.9	22.7	27.9	31.8	30.3	27.3	23.4	19.0	15.0	11.8	9.08	7.12	6.10	7.80	10.4
80	0.60	0.64	0.69	0.75	0.83	0.90	0.96	1.00	0.96	0.90	0.83	0.76	0.70	0.66	0.63	0.61	0.60	0.63	0.67
85	0.33	0.32	0.31	0.30	0.29	0.29	0.29	0.29	0.30	0.31	0.32	0.33	0.33	0.31	0.30	0.28	0.27	0.29	0.31
90	0.32	0.30	0.29	0.28	0.27	0.27	0.27	0.36	0.27	0.27	0.28	0.28	0.28	0.28	0.27	0.27	0.33	0.27	0.28
95	0.99	1.04	1.10	1.15	1.19	1.24	1.30	1.38	1.51	1.65	1.80	1.95	2.11	2.27	2.41	2.52	2.59	2.55	2.46
100	9.07	11.1	13.0	13.6	12.9	11.9	10.8	9.67	9.72	9.95	10.3	10.7	10.8	10.6	10.5	10.3	10.2	10.5	10.9
105	26.6	31.1	35.3	36.9	35.9	34.1	31.9	29.5	28.5	27.6	26.9	26.2	25.4	24.4	23.5	22.9	22.5	23.2	24.2
110	64.8	69.8	73.6	73.1	68.2	62.1	55.5	49.1	46.3	44.4	43.1	42.4	42.0	41.8	41.9	42.2	42.6	42.7	42.9
115	119	119	117	111	102	91.0	80.2	70.1	65.5	62.3	60.3	59.4	58.9	58.8	59.1	59.6	60.3	60.4	60.6
120	186	185	181	169	152	133	113	95.7	87.5	82.0	78.6	76.9	75.8	75.2	75.2	75.7	76.5	76.7	77.1
125	278	274	265	247	219	188	158	130	117	108	102	98.1	95.8	94.0	93.4	93.7	94.6	94.7	95.3
130	374	369	356	330	293	252	211	173	154	141	132	126	121	118	116	116	117	117	117
135	468	462	447	416	371	322	273	227	202	183	170	160	153	148	145	144	144	144	145
140	561	557	543	509	460	405	348	295	263	237	217	202	191	183	179	177	177	176	177
145	646	645	633	601	552	496	437	380	341	308	281	258	241	230	223	219	219	218	220
150	715	719	711	685	642	592	539	485	442	403	368	338	315	299	289	283	281	281	284
155	768	775	773	756	725	688	646	602	562	523	486	452	426	407	393	384	381	381	387
160	802	812	815	808	792	771	746	717	688	659	630	603	580	561	546	536	531	533	540
165	822	833	840	841	837	830	819	807	793	778	763	748	734	722	713	705	701	703	708
170	831	841	849	855	858	859	858	856	854	850	847	843	839	835	832	829	827	828	830
175	830	836	842	847	852	856	859	862	864	865	866	867	868	868	869	869	869	869	868
180	819	819	819	819	819	819	819	819	819	819	819	819	819	819	819	819	819	819	819

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-10-07

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:0.1114A P:24.809W PF:0.9697 Freq:49.99Hz Lamp Flux:2113.03x1 lm																	
NAME:									TYPE:						WEIGHT:		
SPEC.:									DIM.: 120*120*120						SERIAL No.:		
MFR.: NLD24-0014-01									SUR.:0.08*0.08						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	337	338	338	338	337	337	337	337	337	337	337	337	337	338	338				
5	399	398	395	392	389	385	380	376	371	366	361	356	351	346	341				
10	432	431	429	427	424	421	416	410	402	394	385	375	366	355	345				
15	460	457	454	449	444	438	432	426	419	412	403	391	378	363	346				
20	474	471	468	464	460	454	448	441	433	423	411	397	381	362	342				
25	490	486	482	476	470	463	454	446	436	424	411	395	376	356	333				
30	500	496	491	485	478	469	459	448	436	422	407	388	368	345	320				
35	504	500	495	488	480	471	460	447	432	415	397	376	353	328	301				
40	504	499	493	486	477	466	453	436	418	398	376	353	328	303	276				
45	497	492	485	476	465	452	436	416	394	371	346	321	297	271	245				
50	477	473	467	456	444	428	410	388	363	337	311	285	261	237	213				
55	439	438	432	422	408	392	373	349	324	297	270	244	221	198	176				
60	381	382	379	371	360	344	323	291	257	222	187	159	138	120	107				
65	291	301	302	292	277	259	237	209	180	152	125	103	87.4	75.4	67.1				
70	106	119	128	134	136	135	130	114	95.5	75.6	56.2	41.7	32.7	26.7	23.7				
75	13.5	16.9	20.4	23.7	26.3	28.0	28.4	24.3	19.1	13.4	7.89	3.98	1.99	0.96	0.89				
80	0.71	0.75	0.76	0.75	0.73	0.70	0.69	0.70	0.72	0.73	0.74	0.73	0.69	0.64	0.57				
85	0.34	0.36	0.37	0.36	0.36	0.35	0.34	0.35	0.36	0.37	0.37	0.36	0.34	0.31	0.27				
90	0.30	0.31	0.31	0.31	0.30	0.30	0.42	0.32	0.33	0.35	0.35	0.34	0.32	0.28	0.24				
95	2.34	2.19	2.03	1.85	1.67	1.50	1.35	1.27	1.21	1.17	1.13	1.07	1.00	0.93	0.85				
100	11.2	11.4	11.1	10.3	9.46	8.71	8.16	8.96	9.91	10.8	11.5	11.4	10.5	9.13	7.21				
105	25.4	26.5	27.2	27.5	27.7	27.9	28.2	29.7	31.1	32.2	32.7	32.0	29.9	26.8	22.8				
110	43.2	43.6	43.9	44.2	44.9	46.2	48.2	53.9	59.9	65.5	70.1	71.9	70.5	67.2	61.8				
115	60.9	61.4	61.7	62.1	63.3	65.7	69.5	78.8	89.1	99.6	109	117	120	123	123				
120	77.8	78.9	79.8	80.9	83.2	87.4	93.9	109	126	143	159	171	178	182	183				
125	96.6	98.5	100	102	107	113	123	145	170	194	218	235	246	252	255				
130	119	122	125	129	135	145	159	189	221	254	285	309	323	333	338				
135	147	151	156	162	172	186	205	242	283	325	364	393	410	421	426				
140	180	186	194	205	220	240	265	310	359	407	452	485	504	514	517				
145	225	233	246	263	284	311	344	395	449	502	550	584	601	609	606				
150	291	304	322	345	374	407	445	496	549	599	643	673	686	690	683				
155	397	412	434	462	494	529	566	610	653	692	726	747	755	753	741				
160	551	566	587	611	637	664	692	721	748	772	790	800	801	794	781				
165	716	726	738	751	765	779	793	806	818	827	833	834	828	819	804				
170	832	835	838	842	846	849	852	854	855	854	852	847	840	830	818				
175	868	867	867	866	864	863	861	858	854	850	846	841	835	829	822				
180	819	819	819	819	819	819	819	819	819	819	819	819	819	819	819				

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-10-07

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: