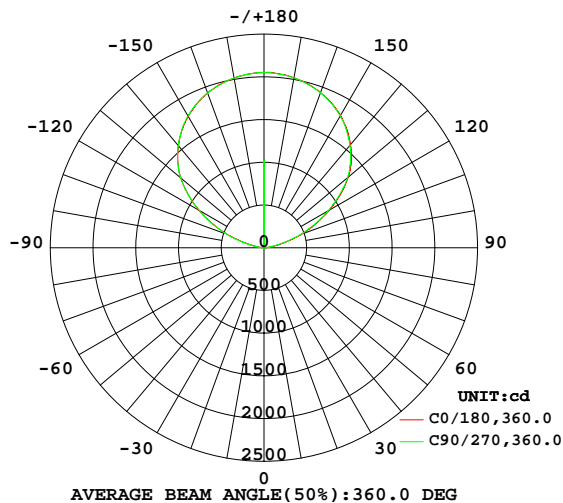


LUMINAIRE PHOTOMETRIC TEST REPORT

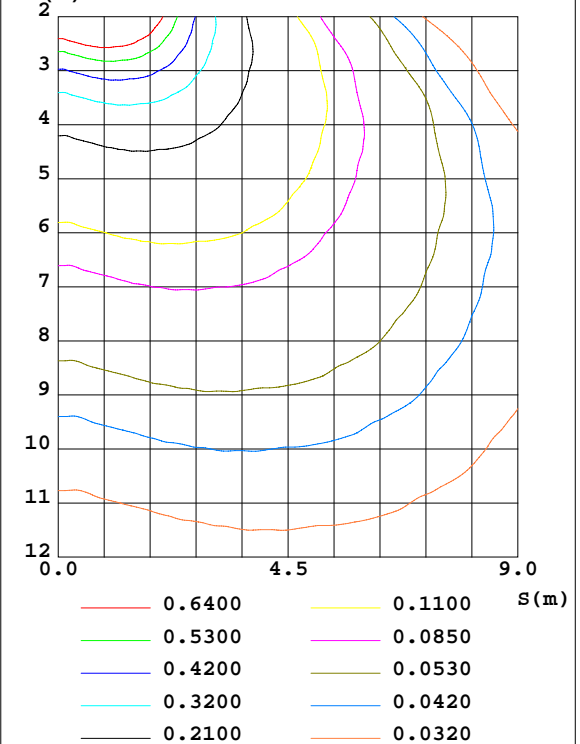
Test:U:229.68V I:0.2057A P:45.348W PF:0.9601 Freq:49.99Hz Lamp Flux:5751.39x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 300*300	SERIAL No.:
MFR.: NLD242026	SUR.:0.3*0.3	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 126.83 lm/W			
MODEL		Imax(cd)	2055	S/MH(C0/180)	2.49
NOMINAL POWER(W)	45	LOR(%)	100.0	S/MH(C90/270)	2.49
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	5751.4	η UP,DN(C0-180)	49.6,0.3
NOMINAL FLUX(lm)	5751.39	CIE CLASS	INDIRECT	η UP,DN(C180-360)	49.7,0.3
LAMPS INSIDE	1	η up(%)	99.3	CIBSE SHR NOM	2.00
TEST VOLTAGE(V)	230.0	η down(%)	0.7	CIBSE SHR MAX	2.00

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:2024-07-25

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:

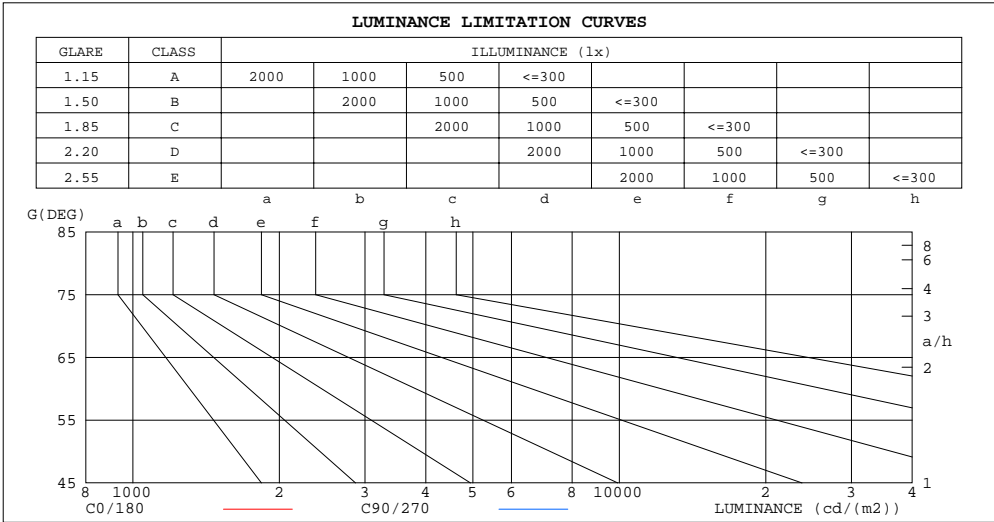
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	4.200	4.123	4.117	4.223	4.322	4.259	4.175	4.166	0- 10	0.3783	0.3783	0.01,0.01
20	5.094	4.981	4.984	5.175	5.337	5.183	4.998	4.992	10- 20	1.325	1.703	0.03,0.03
30	6.175	6.009	5.990	6.204	6.394	6.223	6.019	6.031	20- 30	2.610	4.313	0.07,0.07
40	7.104	6.921	6.873	7.032	7.186	7.058	6.914	6.951	30- 40	4.146	8.459	0.15,0.15
50	7.689	7.439	7.366	7.556	7.748	7.602	7.440	7.495	40- 50	5.684	14.14	0.25,0.25
60	7.741	7.556	7.482	7.569	7.671	7.597	7.526	7.588	50- 60	6.826	20.97	0.36,0.36
70	7.113	6.923	6.793	6.719	6.716	6.833	6.976	7.060	60- 70	7.173	28.14	0.49,0.49
80	6.984	5.900	5.204	4.974	4.980	4.898	5.082	5.808	70- 80	6.352	34.49	0.60,0.60
90	13.14	6.581	2.586	1.658	2.302	2.743	4.321	7.882	80- 90	5.239	39.73	0.69,0.69
100	118.2	110.2	104.0	98.79	96.75	101.3	108.0	113.2	90-100	40.06	79.79	1.39,1.39
110	472.7	460.9	452.6	447.9	447.1	451.4	458.2	465.1	100-110	278.3	358.1	6.23,6.23
120	885.8	873.9	868.6	872.4	877.8	875.3	873.2	877.3	110-120	657.9	1016	17.7,17.7
130	1288	1282	1277	1273	1272	1271	1274	1279	120-130	966.2	1982	34.5,34.5
140	1575	1570	1565	1561	1559	1559	1562	1567	130-140	1104	3086	53.7,53.7
150	1790	1787	1784	1779	1776	1777	1780	1784	140-150	1052	4138	71.9,71.9
160	1934	1932	1930	1930	1931	1930	1930	1932	150-160	859.6	4997	86.9,86.9
170	2021	2021	2020	2019	2019	2018	2018	2019	160-170	559.7	5557	96.6,96.6
180	2052	2052	2052	2052	2052	2052	2052	2052	170-180	194.2	5751	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:2024-07-25

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:229.68V I:0.2057A P:45.348W PF:0.9601 Freq:49.99Hz Lamp Flux:5751.39x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 300*300	SERIAL No.:
MFR.: NLD242026	SUR.:0.3*0.3	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	831	464
80	447	333
75	273	234
70	231	221
65	200	181
60	172	166
55	154	144
50	133	127
45	118	115

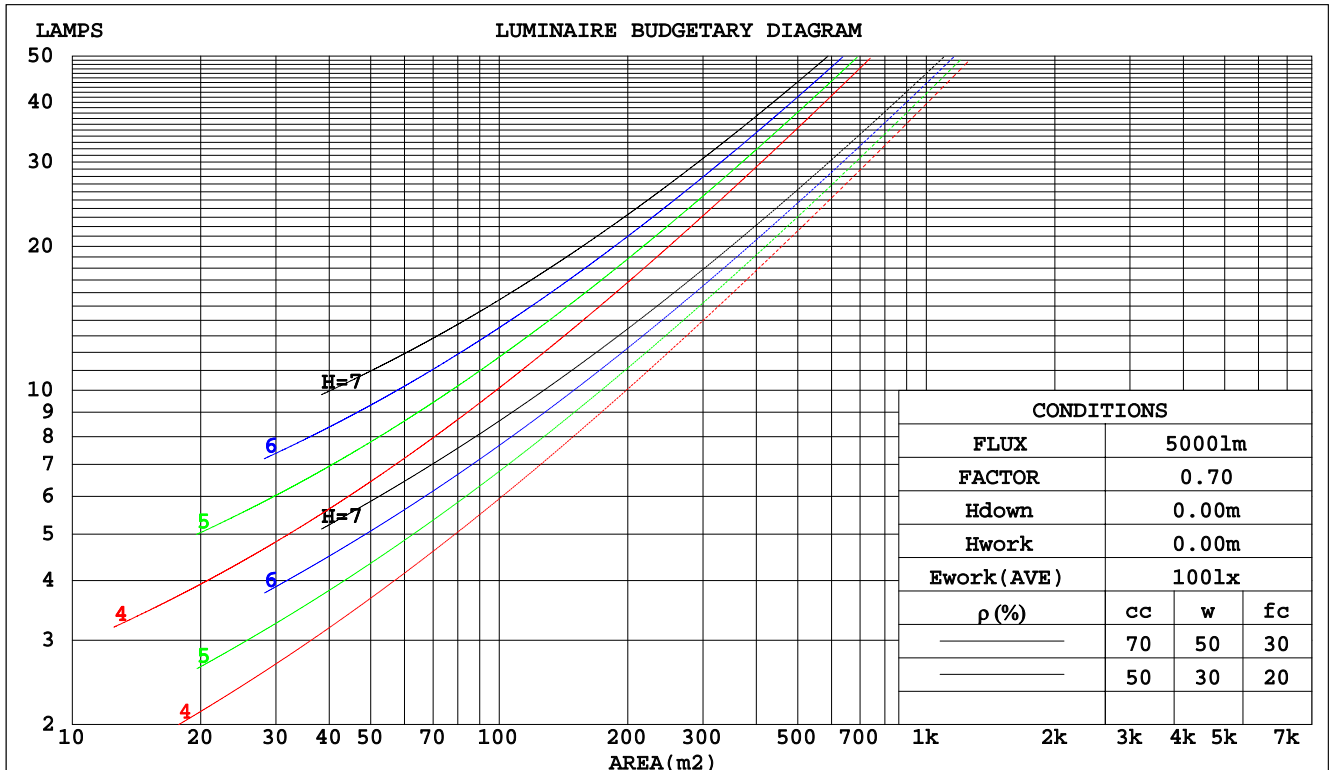
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-07-25

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:229.68V I:0.2057A P:45.348W PF:0.9601 Freq:49.99Hz Lamp Flux:5751.39x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 300*300	SERIAL No.:
MFR.: NLD242026	SUR.:0.3*0.3	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	.95	.95	.95	.82	.82	.82	.56	.56	.56	.32	.32	.32	.11	.11	.11	.01
1.0	.83	.79	.76	.71	.68	.65	.49	.47	.45	.28	.27	.27	.09	.09	.09	.00
2.0	.72	.66	.62	.62	.57	.53	.42	.40	.37	.25	.23	.22	.08	.08	.07	.00
3.0	.63	.56	.51	.54	.49	.44	.37	.34	.31	.22	.20	.19	.07	.07	.06	.00
4.0	.56	.48	.43	.48	.42	.37	.33	.29	.26	.19	.17	.16	.06	.06	.05	.00
5.0	.49	.42	.36	.42	.36	.32	.29	.25	.22	.17	.15	.13	.06	.05	.05	.00
6.0	.44	.36	.31	.38	.32	.27	.26	.22	.19	.15	.13	.12	.05	.04	.04	.00
7.0	.39	.32	.27	.34	.28	.23	.23	.19	.17	.14	.12	.10	.05	.04	.03	.00
8.0	.35	.28	.23	.30	.24	.20	.21	.17	.14	.12	.10	.09	.04	.03	.03	.00
9.0	.32	.25	.20	.28	.22	.18	.19	.15	.13	.11	.09	.08	.04	.03	.03	.00
10.0	.29	.22	.18	.25	.19	.16	.17	.14	.11	.10	.08	.07	.03	.03	.02	.00



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-07-25

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:229.68V I:0.2057A P:45.348W PF:0.9601 Freq:49.99Hz Lamp Flux:5751.39x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.: 300*300			SERIAL No.:		
MFR.: NLD242026			SUR.:0.3*0.3			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	.259	.147	.047	.222	.127	.040	.153	.088	.028	.089	.051	.017	.031	.018	.006	
2.0	.238	.130	.040	.204	.112	.035	.141	.078	.024	.082	.046	.014	.028	.016	.005	
3.0	.219	.117	.035	.188	.101	.030	.130	.070	.021	.076	.042	.013	.026	.014	.004	
4.0	.203	.106	.031	.174	.091	.027	.121	.064	.019	.071	.038	.011	.024	.013	.004	
5.0	.189	.096	.028	.162	.083	.024	.112	.058	.017	.066	.035	.010	.022	.012	.004	
6.0	.176	.088	.025	.151	.076	.022	.105	.054	.016	.061	.032	.009	.021	.011	.003	
7.0	.164	.081	.023	.141	.070	.020	.098	.050	.014	.058	.030	.009	.020	.010	.003	
8.0	.154	.075	.021	.133	.065	.018	.092	.046	.013	.054	.027	.008	.018	.009	.003	
9.0	.145	.070	.020	.125	.061	.017	.087	.043	.012	.051	.026	.007	.017	.009	.003	
10.0	.136	.065	.018	.118	.057	.016	.082	.040	.011	.048	.024	.007	.016	.008	.002	

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	.947	.947	.947	.809	.809	.809	.552	.552	.552	.317	.317	.317	.101	.101	.101	
1.0	.940	.920	.901	.804	.789	.776	.550	.543	.536	.317	.314	.312	.101	.101	.101	
2.0	.933	.900	.873	.799	.775	.754	.548	.536	.526	.316	.312	.308	.101	.101	.100	
3.0	.927	.886	.854	.795	.764	.740	.546	.531	.519	.315	.310	.306	.101	.101	.100	
4.0	.921	.875	.841	.790	.756	.730	.543	.527	.514	.314	.309	.304	.101	.101	.100	
5.0	.915	.867	.832	.786	.750	.724	.542	.524	.511	.314	.308	.303	.101	.100	.100	
6.0	.910	.861	.825	.782	.745	.719	.540	.522	.508	.313	.307	.302	.101	.100	.100	
7.0	.905	.855	.820	.778	.741	.715	.538	.520	.507	.312	.306	.302	.101	.100	.100	
8.0	.900	.851	.817	.775	.738	.712	.536	.518	.505	.312	.306	.301	.101	.100	.100	
9.0	.895	.847	.814	.771	.735	.710	.534	.517	.504	.311	.305	.301	.101	.100	.100	
10.0	.891	.843	.812	.768	.732	.708	.533	.515	.503	.311	.305	.300	.101	.100	.100	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2024-07-25

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:229.68V I:0.2057A P:45.348W PF:0.9601 Freq:49.99Hz Lamp Flux:5751.39x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 300*300			SERIAL No.:			
MFR.: NLD242026					SUR.:0.3*0.3			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	-11.9	-11.3	-10.6	-10.1	-8.2	-12.2	-11.5	-10.9	-10.3	-8.5
	3H	-9.1	-8.6	-7.8	-7.3	-5.5	-9.4	-8.9	-8.1	-7.6	-5.8
	4H	-7.7	-7.2	-6.4	-6.0	-4.1	-8.2	-7.7	-6.9	-6.4	-4.6
	6H	-5.9	-5.4	-4.6	-4.2	-2.3	-6.8	-6.3	-5.5	-5.1	-3.2
	8H	-4.7	-4.3	-3.4	-3.0	-1.2	-6.1	-5.6	-4.8	-4.4	-2.5
	12H	-3.6	-3.2	-2.3	-1.9	-0.0	-5.4	-5.0	-4.1	-3.8	-1.9
4H	2H	-11.2	-10.7	-9.9	-9.4	-7.6	-11.4	-10.8	-10.1	-9.6	-7.8
	3H	-8.3	-7.8	-7.0	-6.6	-4.7	-8.5	-8.1	-7.2	-6.8	-4.9
	4H	-6.8	-6.4	-5.5	-5.1	-3.3	-7.2	-6.8	-5.9	-5.5	-3.7
	6H	-4.8	-4.4	-3.5	-3.2	-1.3	-5.6	-5.3	-4.3	-4.0	-2.2
	8H	-3.5	-3.2	-2.2	-1.9	-0.1	-4.8	-4.5	-3.5	-3.2	-1.4
	12H	-2.3	-2.0	-1.0	-0.7	1.1	-4.1	-3.8	-2.8	-2.5	-0.7
8H	4H	-6.3	-6.0	-5.0	-4.8	-2.9	-6.7	-6.4	-5.4	-5.1	-3.2
	6H	-4.0	-3.8	-2.7	-2.5	-0.6	-4.8	-4.6	-3.5	-3.3	-1.4
	8H	-2.6	-2.4	-1.3	-1.1	0.7	-3.8	-3.6	-2.5	-2.3	-0.4
	12H	-1.2	-1.0	0.1	0.3	2.1	-2.9	-2.7	-1.6	-1.4	0.4
12H	4H	-6.2	-6.0	-4.9	-4.7	-2.8	-6.5	-6.2	-5.2	-5.0	-3.1
	6H	-3.9	-3.6	-2.5	-2.4	-0.5	-4.5	-4.3	-3.2	-3.0	-1.1
	8H	-2.4	-2.2	-1.1	-0.9	1.0	-3.4	-3.3	-2.1	-2.0	-0.1
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117, 5751 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 6.1$)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2024-07-25

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:229.68V I:0.2057A P:45.348W PF:0.9601 Freq:49.99Hz Lamp Flux:5751.39x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 300*300	SERIAL No.:
MFR.: NLD242026	SUR.:0.3*0.3	Shielding Angle:

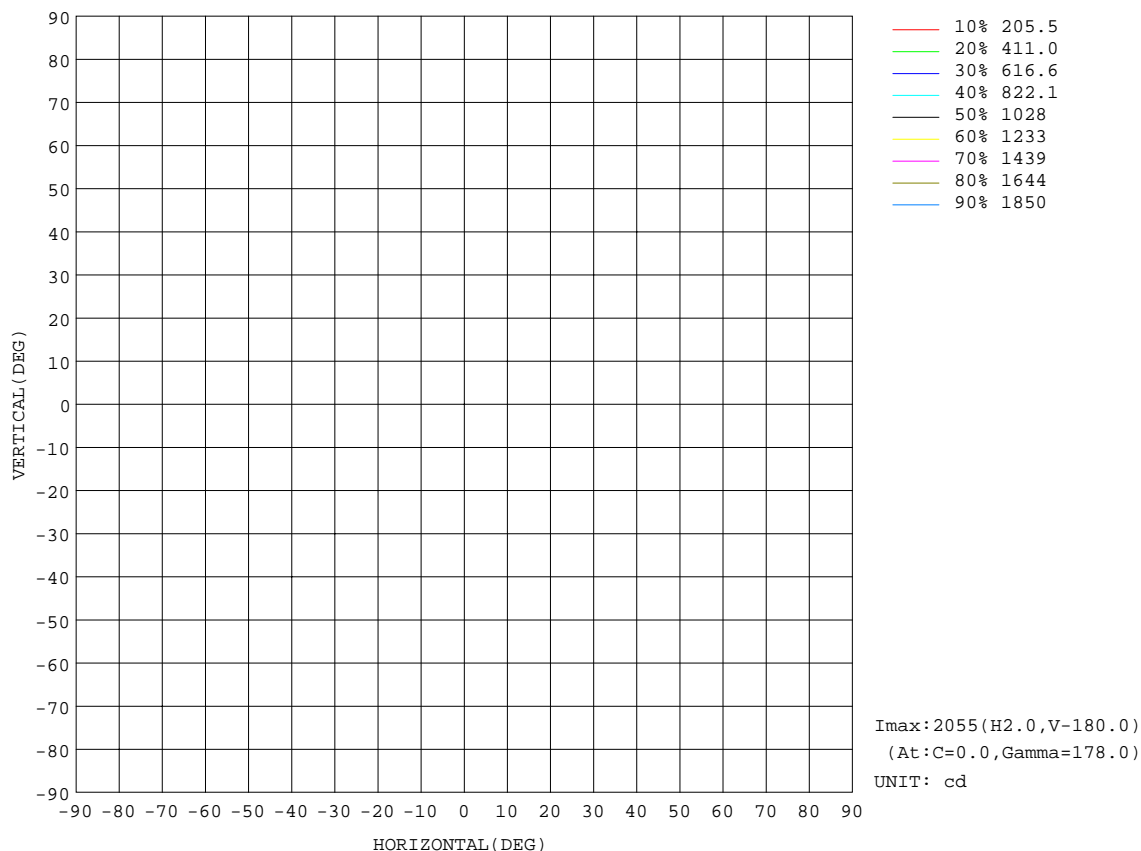
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	30	20	15	26	18	13	18	13	9	0
0.80	40	28	21	34	24	19	24	17	13	0
1.00	47	35	28	40	30	24	28	21	17	0
1.25	53	42	34	46	36	30	31	25	21	0
1.50	59	48	40	50	41	35	34	29	25	0
2.00	66	56	49	56	48	42	39	34	30	0
2.50	71	62	55	61	53	48	42	37	33	0
3.00	75	66	60	64	57	52	44	40	36	0
4.00	79	72	67	68	62	58	46	43	40	0
5.00	82	76	71	70	66	62	48	45	43	0
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:2024-07-25

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:229.68V I:0.2057A P:45.348W PF:0.9601 Freq:49.99Hz Lamp Flux:5751.39x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 300*300	SERIAL No.:
MFR.: NLD242026	SUR.:0.3*0.3	Shielding Angle:

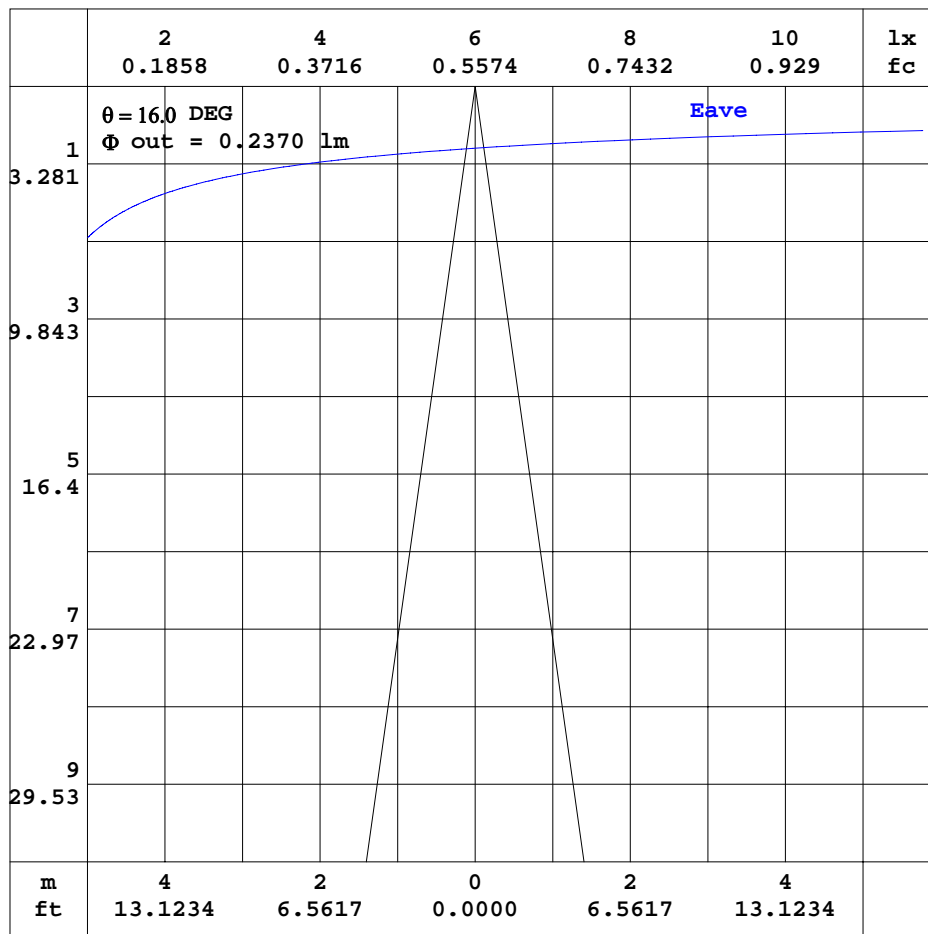


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-07-25

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:229.68V I:0.2057A P:45.348W PF:0.9601 Freq:49.99Hz Lamp Flux:5751.39x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 300*300	SERIAL No.:
MFR.: NLD242026	SUR.:0.3*0.3	Shielding Angle:



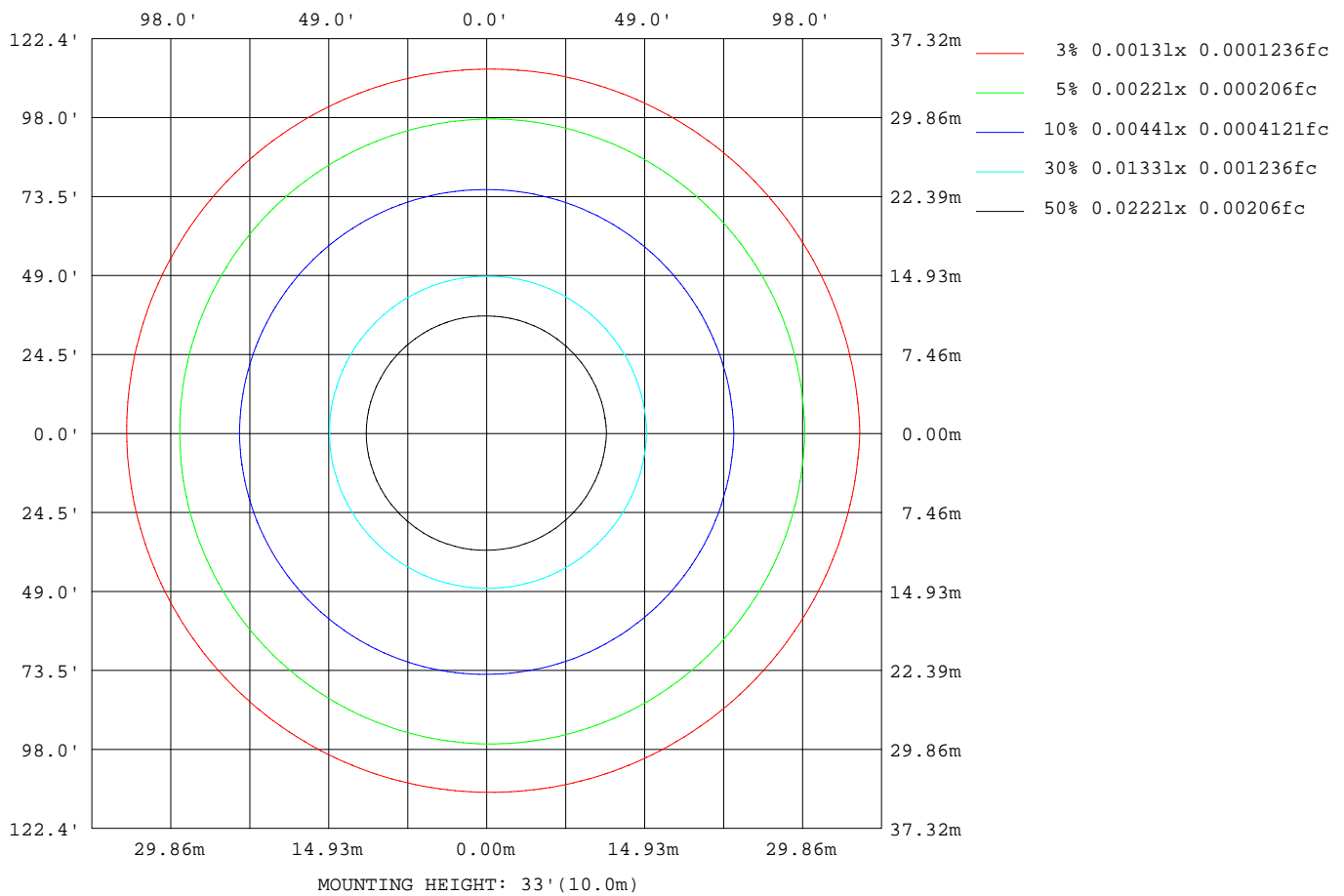
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date: 2024-07-25

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:229.68V I:0.2057A P:45.348W PF:0.9601 Freq:49.99Hz Lamp Flux:5751.39x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 300*300	SERIAL No.:
MFR.: NLD242026	SUR.:0.3*0.3	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date: 2024-07-25

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:229.68V I:0.2057A P:45.348W PF:0.9601 Freq:49.99Hz Lamp Flux:5751.39x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 300*300	SERIAL No.:
MFR.: NLD242026	SUR.:0.3*0.3	Shielding Angle:

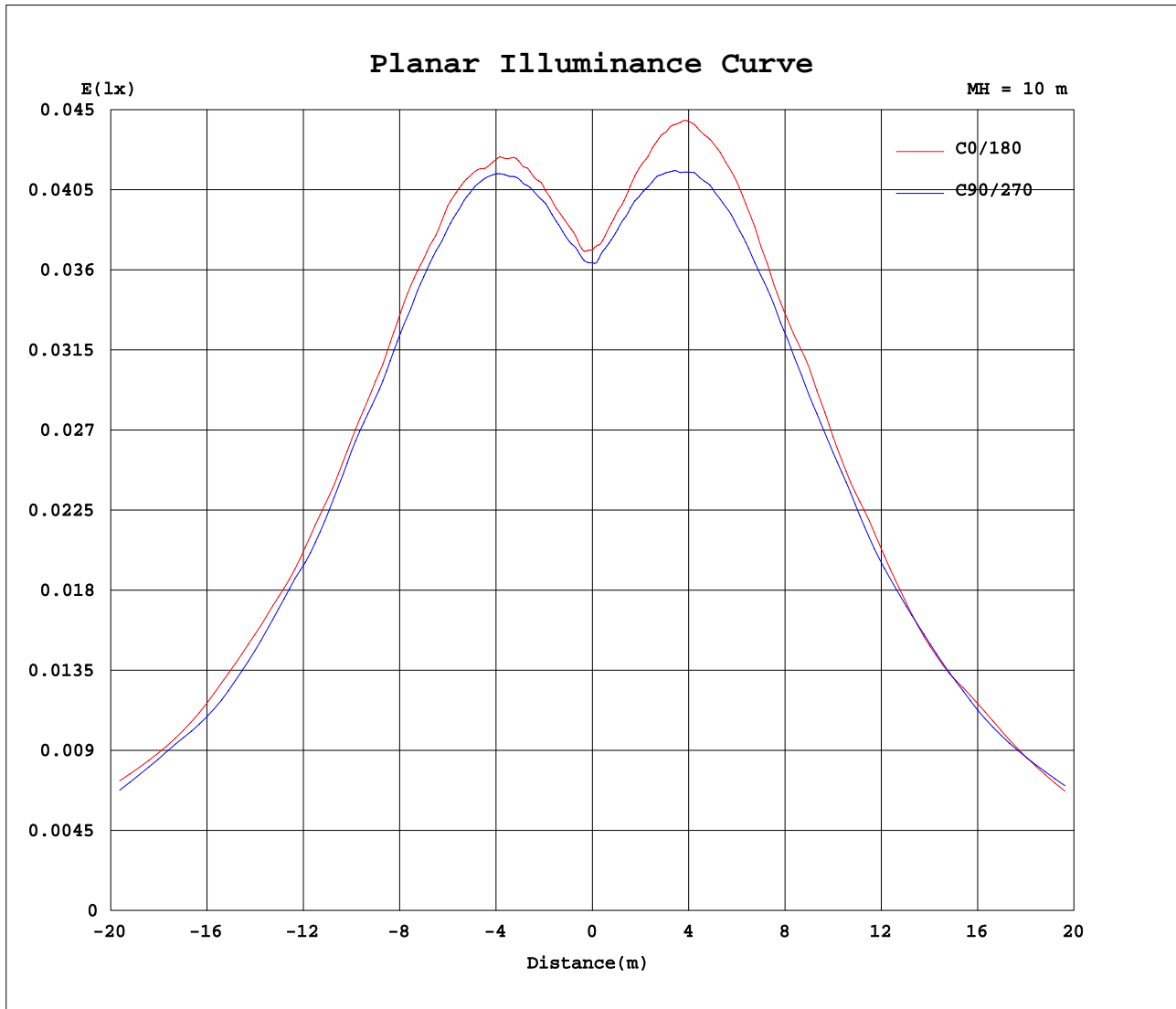
AvgL	cd/m2
L_0~180(65)av	194
L_0~180(75)av	264
L_0~180(85)av	620
L_90~270(65)av	186
L_90~270(75)av	240
L_90~270(85)av	505
L_45(65)av	188
L_45(75)av	249
L_45(85)av	535

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-07-25

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: 2024-07-25

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:229.68V I:0.2057A P:45.348W PF:0.9601 Freq:49.99Hz Lamp Flux:5751.39x1 lm																	
NAME:									TYPE:						WEIGHT:		
SPEC.:									DIM.: 300*300						SERIAL No.:		
MFR.: NLD242026									SUR.:0.3*0.3						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	3.71	3.70	3.70	3.69	3.68	3.68	3.67	3.67	3.66	3.66	3.66	3.65	3.65	3.65	3.65	3.64	3.64	3.64	3.64
5	3.87	3.86	3.85	3.84	3.84	3.83	3.82	3.81	3.81	3.80	3.80	3.80	3.79	3.79	3.79	3.79	3.79	3.79	3.79
10	4.20	4.19	4.18	4.17	4.16	4.15	4.14	4.13	4.13	4.12	4.12	4.12	4.11	4.11	4.11	4.11	4.11	4.11	4.12
15	4.63	4.61	4.60	4.58	4.57	4.56	4.55	4.54	4.53	4.53	4.52	4.52	4.51	4.51	4.51	4.51	4.51	4.52	4.52
20	5.09	5.08	5.06	5.04	5.03	5.02	5.01	5.00	4.99	4.98	4.98	4.97	4.97	4.97	4.97	4.97	4.97	4.98	4.98
25	5.60	5.58	5.57	5.55	5.54	5.53	5.52	5.51	5.50	5.49	5.49	5.48	5.48	5.48	5.48	5.48	5.49	5.49	5.50
30	6.18	6.15	6.13	6.10	6.08	6.06	6.05	6.03	6.02	6.01	6.00	5.99	5.99	5.98	5.98	5.98	5.98	5.98	5.99
35	6.66	6.64	6.62	6.60	6.58	6.56	6.55	6.53	6.52	6.51	6.50	6.49	6.49	6.48	6.48	6.48	6.48	6.48	6.48
40	7.10	7.08	7.05	7.03	7.01	6.99	6.97	6.95	6.93	6.92	6.91	6.90	6.89	6.88	6.88	6.87	6.87	6.87	6.87
45	7.48	7.46	7.44	7.42	7.41	7.39	7.38	7.36	7.35	7.34	7.33	7.32	7.32	7.31	7.31	7.30	7.30	7.30	7.30
50	7.69	7.65	7.62	7.59	7.56	7.53	7.50	7.48	7.46	7.44	7.42	7.41	7.40	7.39	7.38	7.37	7.37	7.37	7.37
55	7.94	7.89	7.85	7.81	7.77	7.73	7.69	7.66	7.63	7.60	7.57	7.55	7.52	7.50	7.49	7.47	7.45	7.44	7.43
60	7.74	7.71	7.69	7.67	7.64	7.62	7.61	7.59	7.57	7.56	7.54	7.53	7.52	7.51	7.50	7.49	7.49	7.49	7.48
65	7.61	7.55	7.49	7.43	7.37	7.32	7.27	7.22	7.17	7.13	7.10	7.06	7.03	7.00	6.97	6.95	6.93	6.91	6.90
70	7.11	7.09	7.07	7.04	7.02	7.00	6.98	6.96	6.94	6.92	6.91	6.89	6.87	6.86	6.84	6.83	6.82	6.80	6.79
75	6.37	6.28	6.20	6.12	6.04	5.97	5.91	5.84	5.79	5.73	5.69	5.64	5.60	5.57	5.53	5.51	5.48	5.47	5.45
80	6.98	6.84	6.71	6.58	6.45	6.33	6.22	6.11	6.00	5.90	5.80	5.71	5.62	5.54	5.47	5.39	5.33	5.26	5.20
85	6.52	6.30	6.08	5.87	5.67	5.47	5.29	5.11	4.94	4.77	4.62	4.47	4.33	4.19	4.07	3.95	3.84	3.73	3.64
90	13.1	12.3	11.5	10.7	9.91	9.18	8.48	7.82	7.18	6.58	6.01	5.47	4.96	4.49	4.04	3.63	3.25	2.90	2.59
95	31.8	31.4	31.0	30.7	30.3	30.0	29.6	29.3	29.0	28.7	28.4	28.1	27.8	27.6	27.3	27.0	26.8	26.6	26.3
100	118	117	116	115	114	114	113	112	111	110	109	109	108	107	107	106	105	105	104
105	270	269	268	267	266	265	264	263	262	261	260	259	258	257	257	256	255	254	253
110	473	471	470	468	467	466	464	463	462	461	460	459	458	457	456	455	454	453	453
115	675	673	671	670	668	667	665	664	663	662	661	660	659	658	658	657	656	656	656
120	886	884	883	881	880	878	877	876	875	874	873	872	871	871	870	870	869	869	869
125	1096	1095	1093	1092	1091	1090	1088	1087	1086	1085	1084	1083	1083	1082	1081	1080	1080	1079	1079
130	1288	1288	1287	1286	1285	1285	1284	1283	1282	1282	1281	1281	1280	1279	1279	1278	1278	1277	1277
135	1446	1445	1444	1443	1442	1441	1441	1440	1439	1438	1438	1437	1436	1436	1435	1434	1434	1433	1433
140	1575	1574	1574	1573	1572	1572	1571	1571	1570	1570	1569	1568	1568	1567	1567	1566	1566	1566	1565
145	1692	1691	1691	1690	1689	1689	1688	1687	1687	1686	1686	1685	1685	1684	1684	1683	1683	1682	1682
150	1790	1790	1789	1789	1789	1788	1788	1788	1787	1787	1787	1786	1786	1786	1785	1785	1785	1784	1784
155	1873	1872	1872	1871	1871	1870	1870	1869	1869	1868	1868	1868	1867	1867	1866	1866	1866	1865	1865
160	1934	1934	1934	1933	1933	1933	1932	1932	1932	1932	1931	1931	1931	1931	1931	1931	1930	1930	1930
165	1985	1985	1985	1985	1984	1984	1984	1984	1984	1983	1983	1983	1983	1983	1983	1983	1982	1982	1982
170	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2020	2020	2020	2020	2020	2020	2020
175	2043	2043	2043	2043	2043	2042	2042	2042	2042	2042	2042	2042	2041	2041	2041	2041	2041	2041	2041
180	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-07-25

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:229.68V I:0.2057A P:45.348W PF:0.9601 Freq:49.99Hz Lamp Flux:5751.39x1 lm																		
NAME:									TYPE:					WEIGHT:				
SPEC.:									DIM.: 300*300					SERIAL No.:				
MFR.: NLD242026									SUR.:0.3*0.3					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	3.65	3.65	3.65	3.66	3.66	3.66	3.67	3.67	3.68	3.68	3.69	3.69	3.69	3.70	3.70	3.71	3.71	3.71	3.71
5	3.80	3.80	3.81	3.82	3.83	3.83	3.84	3.85	3.86	3.87	3.88	3.89	3.89	3.90	3.91	3.92	3.92	3.93	3.92
10	4.13	4.14	4.15	4.16	4.17	4.19	4.20	4.21	4.22	4.24	4.25	4.26	4.27	4.28	4.29	4.30	4.31	4.32	4.32
15	4.53	4.55	4.56	4.58	4.59	4.61	4.63	4.65	4.66	4.68	4.70	4.71	4.73	4.75	4.76	4.77	4.79	4.80	4.79
20	5.00	5.02	5.04	5.06	5.08	5.11	5.13	5.15	5.17	5.20	5.22	5.24	5.26	5.28	5.29	5.31	5.32	5.34	5.33
25	5.52	5.54	5.56	5.58	5.60	5.62	5.65	5.67	5.69	5.71	5.74	5.76	5.78	5.80	5.81	5.83	5.84	5.85	5.84
30	6.01	6.03	6.05	6.08	6.10	6.13	6.15	6.18	6.20	6.23	6.25	6.28	6.30	6.32	6.34	6.36	6.38	6.39	6.38
35	6.49	6.51	6.53	6.54	6.56	6.58	6.60	6.62	6.64	6.66	6.68	6.70	6.72	6.73	6.75	6.76	6.78	6.79	6.78
40	6.89	6.90	6.92	6.94	6.95	6.97	6.99	7.01	7.03	7.05	7.07	7.09	7.11	7.13	7.14	7.16	7.17	7.19	7.18
45	7.31	7.32	7.34	7.35	7.36	7.38	7.39	7.40	7.42	7.43	7.45	7.46	7.47	7.49	7.50	7.51	7.52	7.53	7.52
50	7.38	7.40	7.42	7.44	7.46	7.48	7.51	7.53	7.56	7.58	7.61	7.63	7.65	7.67	7.69	7.71	7.73	7.75	7.74
55	7.43	7.43	7.43	7.44	7.44	7.45	7.46	7.47	7.48	7.49	7.50	7.51	7.53	7.54	7.55	7.57	7.58	7.59	7.60
60	7.49	7.50	7.50	7.51	7.52	7.53	7.55	7.56	7.57	7.58	7.59	7.61	7.62	7.63	7.64	7.65	7.66	7.67	7.66
65	6.90	6.90	6.90	6.91	6.92	6.93	6.94	6.96	6.97	6.99	7.01	7.03	7.05	7.07	7.09	7.11	7.13	7.15	7.15
70	6.78	6.77	6.76	6.75	6.74	6.74	6.73	6.72	6.72	6.71	6.71	6.71	6.71	6.71	6.71	6.71	6.71	6.72	6.73
75	5.46	5.48	5.49	5.51	5.54	5.56	5.59	5.62	5.65	5.69	5.72	5.75	5.79	5.82	5.85	5.89	5.92	5.94	5.94
80	5.16	5.12	5.09	5.06	5.04	5.02	5.00	4.99	4.97	4.97	4.96	4.96	4.96	4.96	4.96	4.97	4.97	4.98	4.96
85	3.56	3.49	3.42	3.36	3.31	3.27	3.23	3.20	3.18	3.16	3.14	3.14	3.14	3.14	3.15	3.16	3.18	3.21	3.23
90	2.37	2.19	2.04	1.92	1.82	1.74	1.69	1.67	1.66	1.67	1.70	1.75	1.81	1.89	1.97	2.07	2.18	2.30	2.31
95	26.1	25.9	25.6	25.4	25.2	25.0	24.9	24.7	24.6	24.4	24.3	24.2	24.1	24.0	23.9	23.9	23.8	23.8	23.9
100	103	103	102	101	101	100	99.7	99.2	98.8	98.4	98.0	97.7	97.4	97.2	97.0	96.9	96.8	96.8	97.1
105	253	252	251	250	249	248	248	247	246	246	245	245	244	244	244	243	243	243	244
110	452	451	451	450	450	449	449	448	448	448	447	447	447	447	447	447	447	447	447
115	656	656	656	656	656	657	657	657	658	658	659	659	660	660	661	662	662	663	663
120	869	869	869	870	870	871	871	872	872	873	874	874	875	876	876	877	877	878	878
125	1079	1078	1078	1078	1078	1078	1078	1078	1079	1079	1079	1079	1079	1080	1080	1080	1081	1081	1081
130	1276	1276	1276	1275	1275	1274	1274	1274	1273	1273	1273	1273	1273	1272	1272	1272	1272	1272	1272
135	1432	1432	1431	1431	1430	1430	1429	1429	1429	1428	1428	1428	1428	1427	1427	1427	1427	1427	1427
140	1565	1564	1564	1563	1563	1562	1562	1562	1561	1561	1561	1560	1560	1560	1560	1560	1559	1559	1559
145	1682	1681	1681	1680	1680	1680	1679	1679	1679	1679	1678	1678	1678	1678	1677	1677	1677	1677	1677
150	1783	1783	1782	1782	1781	1781	1780	1780	1779	1779	1779	1778	1778	1777	1777	1777	1776	1776	1776
155	1865	1864	1864	1864	1863	1863	1863	1862	1862	1862	1862	1861	1861	1861	1861	1861	1860	1860	1860
160	1930	1930	1930	1930	1930	1930	1930	1930	1930	1930	1931	1931	1931	1931	1931	1931	1931	1931	1931
165	1982	1982	1982	1982	1982	1982	1982	1982	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981
170	2020	2020	2020	2020	2020	2020	2020	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2018
175	2041	2041	2041	2041	2041	2041	2042	2042	2042	2042	2042	2042	2042	2042	2042	2042	2042	2042	2042
180	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-07-25

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:229.68V I:0.2057A P:45.348W PF:0.9601 Freq:49.99Hz Lamp Flux:5751.39x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 300*300	SERIAL No.:
MFR.: NLD242026	SUR.:0.3*0.3	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	3.71	3.70	3.70	3.69	3.69	3.69	3.68	3.68	3.67	3.67	3.66	3.66	3.66	3.65	3.65	3.65	3.64	3.64	3.64
5	3.92	3.92	3.91	3.91	3.90	3.90	3.89	3.89	3.88	3.87	3.87	3.86	3.85	3.85	3.84	3.84	3.83	3.83	3.83
10	4.31	4.31	4.30	4.29	4.29	4.28	4.27	4.26	4.25	4.24	4.23	4.22	4.21	4.20	4.19	4.18	4.17	4.17	4.17
15	4.78	4.77	4.76	4.75	4.74	4.73	4.71	4.70	4.69	4.67	4.66	4.64	4.63	4.62	4.60	4.59	4.58	4.57	4.57
20	5.31	5.30	5.28	5.26	5.25	5.23	5.20	5.18	5.16	5.14	5.12	5.10	5.08	5.05	5.03	5.02	5.00	4.99	4.99
25	5.83	5.81	5.80	5.78	5.76	5.74	5.72	5.70	5.67	5.65	5.63	5.61	5.58	5.56	5.54	5.52	5.50	5.50	5.49
30	6.37	6.35	6.33	6.31	6.29	6.27	6.25	6.22	6.20	6.17	6.15	6.13	6.10	6.08	6.06	6.04	6.02	6.01	6.01
35	6.77	6.75	6.74	6.72	6.70	6.69	6.67	6.65	6.63	6.61	6.59	6.57	6.56	6.54	6.52	6.51	6.49	6.49	6.49
40	7.17	7.15	7.14	7.12	7.11	7.09	7.08	7.06	7.04	7.02	7.00	6.99	6.97	6.96	6.94	6.93	6.91	6.91	6.91
45	7.50	7.49	7.48	7.46	7.45	7.43	7.42	7.40	7.39	7.37	7.35	7.34	7.33	7.31	7.30	7.29	7.28	7.28	7.28
50	7.73	7.71	7.70	7.68	7.66	7.64	7.62	7.60	7.58	7.56	7.54	7.52	7.50	7.49	7.47	7.45	7.44	7.44	7.44
55	7.60	7.60	7.61	7.61	7.61	7.61	7.61	7.62	7.62	7.62	7.63	7.63	7.63	7.64	7.64	7.65	7.65	7.66	7.68
60	7.66	7.65	7.64	7.63	7.63	7.62	7.61	7.60	7.59	7.58	7.57	7.56	7.55	7.54	7.54	7.53	7.53	7.53	7.53
65	7.16	7.16	7.16	7.17	7.17	7.17	7.18	7.18	7.18	7.19	7.19	7.19	7.20	7.20	7.21	7.22	7.23	7.24	7.25
70	6.74	6.75	6.76	6.77	6.79	6.80	6.82	6.83	6.85	6.86	6.88	6.90	6.91	6.93	6.94	6.96	6.98	6.99	7.00
75	5.93	5.92	5.90	5.89	5.88	5.86	5.85	5.83	5.82	5.80	5.79	5.77	5.76	5.75	5.74	5.74	5.73	5.75	5.76
80	4.95	4.93	4.92	4.91	4.90	4.90	4.90	4.90	4.90	4.91	4.92	4.94	4.96	4.98	5.01	5.04	5.08	5.14	5.20
85	3.26	3.29	3.33	3.37	3.42	3.47	3.52	3.58	3.64	3.71	3.78	3.86	3.94	4.02	4.10	4.19	4.29	4.38	4.48
90	2.33	2.36	2.39	2.44	2.50	2.57	2.65	2.74	2.85	2.98	3.11	3.27	3.44	3.63	3.84	4.07	4.32	4.63	4.97
95	23.9	24.0	24.1	24.2	24.4	24.5	24.7	24.8	25.0	25.2	25.4	25.6	25.8	26.1	26.3	26.6	26.8	27.0	27.3
100	97.4	97.9	98.3	98.9	99.4	100	101	101	102	103	103	104	105	106	106	107	108	109	109
105	244	245	246	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261
110	448	448	449	449	450	450	451	451	452	453	453	454	455	456	457	457	458	459	460
115	663	663	664	664	664	664	665	665	665	665	665	666	666	666	666	666	667	667	667
120	877	877	877	877	876	876	876	875	875	875	874	874	874	874	873	873	873	873	874
125	1081	1081	1081	1082	1082	1082	1082	1082	1082	1083	1083	1083	1083	1084	1084	1084	1085	1085	1086
130	1272	1271	1271	1271	1271	1271	1271	1271	1272	1272	1272	1272	1272	1273	1273	1273	1274	1274	1275
135	1426	1426	1426	1426	1427	1427	1427	1427	1427	1427	1428	1428	1428	1429	1429	1429	1430	1430	1431
140	1559	1559	1559	1559	1559	1559	1559	1559	1559	1560	1560	1560	1560	1561	1561	1561	1562	1562	1563
145	1677	1677	1677	1677	1677	1677	1677	1677	1677	1678	1678	1678	1678	1679	1679	1679	1680	1680	1680
150	1776	1776	1776	1776	1777	1777	1777	1777	1777	1778	1778	1778	1779	1779	1779	1780	1780	1781	1781
155	1860	1860	1860	1860	1860	1860	1860	1860	1860	1861	1861	1861	1861	1861	1862	1862	1862	1863	1863
160	1931	1931	1931	1931	1931	1930	1930	1930	1930	1930	1930	1930	1930	1930	1930	1930	1930	1930	1930
165	1981	1980	1980	1980	1980	1980	1980	1980	1979	1979	1979	1979	1979	1979	1979	1979	1979	1979	1979
170	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018
175	2042	2042	2042	2042	2042	2042	2042	2042	2042	2042	2042	2042	2042	2042	2041	2041	2041	2041	2041
180	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-07-25

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:229.68V I:0.2057A P:45.348W PF:0.9601 Freq:49.99Hz Lamp Flux:5751.39x1 lm																	
NAME:									TYPE:						WEIGHT:		
SPEC.:									DIM.: 300*300						SERIAL No.:		
MFR.: NLD242026									SUR.:0.3*0.3						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	3.64	3.65	3.65	3.65	3.65	3.66	3.66	3.66	3.67	3.67	3.68	3.68	3.69	3.70	3.70				
5	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.84	3.84	3.84	3.85	3.85	3.86	3.86	3.87				
10	4.17	4.17	4.16	4.16	4.16	4.16	4.17	4.17	4.17	4.17	4.18	4.18	4.18	4.19	4.19				
15	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.58	4.58	4.59	4.59	4.60	4.61	4.62				
20	4.98	4.98	4.98	4.98	4.98	4.99	4.99	5.00	5.00	5.01	5.02	5.03	5.05	5.06	5.08				
25	5.49	5.49	5.49	5.49	5.49	5.49	5.50	5.50	5.51	5.52	5.53	5.54	5.55	5.57	5.58				
30	6.01	6.01	6.01	6.01	6.02	6.02	6.03	6.04	6.05	6.06	6.08	6.09	6.11	6.13	6.15				
35	6.49	6.49	6.49	6.50	6.50	6.51	6.52	6.53	6.54	6.55	6.57	6.59	6.60	6.62	6.64				
40	6.91	6.92	6.92	6.93	6.93	6.94	6.95	6.96	6.98	6.99	7.00	7.02	7.04	7.06	7.08				
45	7.28	7.28	7.29	7.29	7.30	7.31	7.32	7.33	7.35	7.36	7.38	7.40	7.42	7.44	7.46				
50	7.44	7.45	7.45	7.46	7.47	7.48	7.49	7.51	7.53	7.54	7.56	7.59	7.61	7.63	7.66				
55	7.69	7.70	7.71	7.72	7.74	7.75	7.77	7.78	7.80	7.82	7.84	7.86	7.88	7.90	7.92				
60	7.54	7.54	7.55	7.56	7.57	7.58	7.59	7.60	7.61	7.63	7.64	7.66	7.68	7.70	7.72				
65	7.27	7.29	7.30	7.32	7.34	7.36	7.38	7.40	7.43	7.45	7.47	7.50	7.53	7.55	7.58				
70	7.01	7.02	7.03	7.04	7.04	7.05	7.06	7.07	7.07	7.08	7.09	7.09	7.10	7.10	7.11				
75	5.78	5.80	5.83	5.85	5.88	5.91	5.95	5.98	6.02	6.06	6.11	6.15	6.20	6.26	6.31				
80	5.27	5.35	5.43	5.52	5.61	5.70	5.81	5.92	6.03	6.15	6.28	6.41	6.54	6.68	6.83				
85	4.58	4.68	4.79	4.90	5.02	5.14	5.26	5.39	5.52	5.65	5.78	5.92	6.07	6.22	6.37				
90	5.32	5.69	6.09	6.51	6.94	7.40	7.88	8.38	8.90	9.45	10.0	10.6	11.2	11.8	12.5				
95	27.5	27.7	28.0	28.2	28.5	28.8	29.0	29.3	29.6	29.9	30.2	30.5	30.8	31.1	31.5				
100	110	110	111	112	112	113	113	114	114	115	115	116	117	117	118				
105	261	262	263	263	264	265	265	266	266	267	267	268	268	269	269				
110	460	461	462	463	463	464	465	466	467	468	468	469	470	471	472				
115	668	668	668	669	669	670	670	671	671	672	672	672	673	674	674				
120	874	874	875	875	876	877	877	878	879	880	881	882	883	884	885				
125	1086	1087	1087	1088	1088	1089	1090	1090	1091	1092	1092	1093	1094	1095	1096				
130	1275	1276	1276	1277	1278	1279	1279	1280	1281	1282	1283	1284	1285	1286	1287				
135	1432	1432	1433	1434	1435	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444				
140	1563	1564	1564	1565	1566	1566	1567	1568	1569	1569	1570	1571	1572	1573	1574				
145	1681	1681	1682	1683	1683	1684	1684	1685	1686	1687	1687	1688	1689	1690	1691				
150	1781	1782	1782	1783	1783	1784	1784	1785	1785	1786	1787	1787	1788	1789	1789				
155	1863	1864	1864	1865	1865	1866	1866	1867	1868	1868	1869	1870	1870	1871	1872				
160	1930	1931	1931	1931	1931	1931	1932	1932	1932	1932	1933	1933	1933	1934	1934				
165	1980	1980	1980	1980	1981	1981	1981	1982	1982	1982	1983	1983	1984	1984	1985				
170	2018	2018	2018	2018	2019	2019	2019	2019	2019	2019	2020	2020	2020	2020	2020				
175	2042	2042	2042	2042	2042	2042	2042	2042	2042	2042	2043	2043	2043	2043	2043				
180	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052	2052				

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-07-25

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: