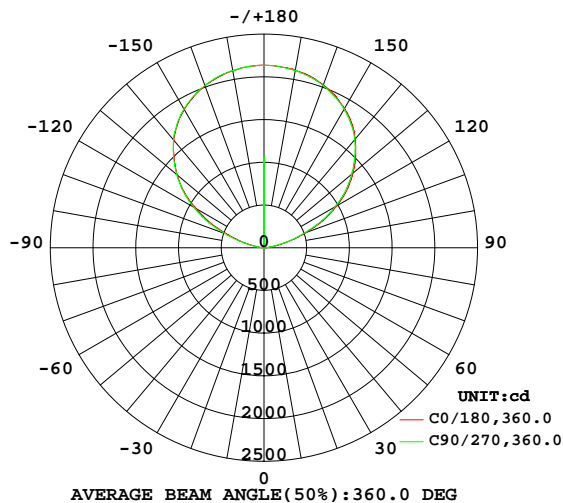


LUMINAIRE PHOTOMETRIC TEST REPORT

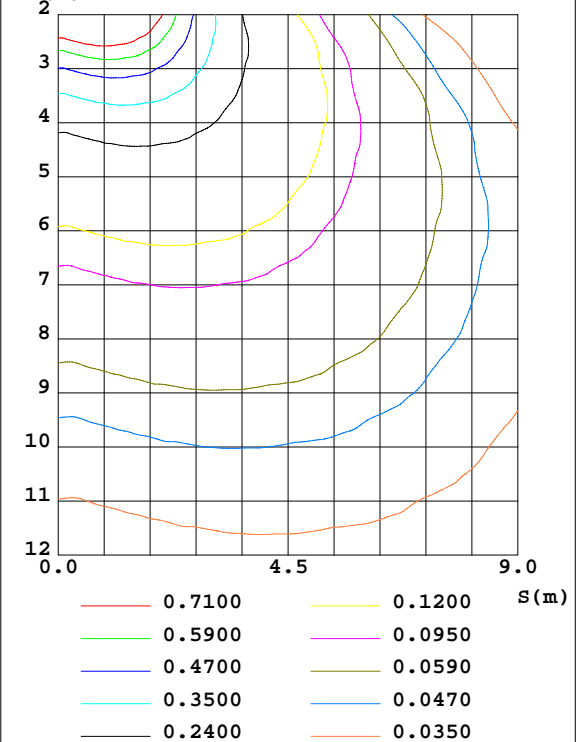
Test:U:229.68V I:0.2070A P:45.663W PF:0.9605 Freq:49.99Hz Lamp Flux:6099.43x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 300*300	SERIAL No.:
MFR.: NLD242026	SUR.:0.3*0.3	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 133.57 lm/W			
MODEL		Imax(cd)	2138	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)	6099.4	η UP,DN(C0-180)	49.8,0.3
NOMINAL FLUX(lm)	6099.43	CIE CLASS	INDIRECT	η UP,DN(C180-360)	49.5,0.4
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:

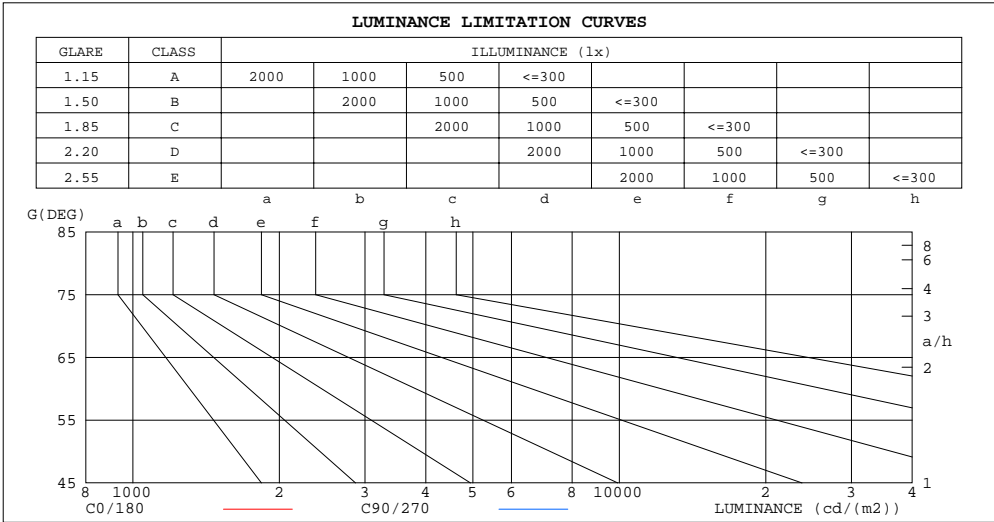
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	4.725	4.537	4.503	4.706	4.899	4.764	4.596	4.607	0- 10	0.4210	0.4210	0.01,0.01
20	5.685	5.454	5.440	5.767	6.058	5.819	5.523	5.517	10- 20	1.471	1.892	0.03,0.03
30	6.846	6.572	6.549	6.927	7.262	6.972	6.620	6.625	20- 30	2.895	4.787	0.08,0.08
40	7.826	7.540	7.502	7.852	8.173	7.919	7.609	7.620	30- 40	4.591	9.378	0.15,0.15
50	8.436	8.082	8.027	8.436	8.814	8.520	8.161	8.183	40- 50	6.279	15.66	0.26,0.26
60	8.419	8.175	8.144	8.444	8.718	8.503	8.239	8.247	50- 60	7.529	23.19	0.38,0.38
70	7.788	7.510	7.396	7.509	7.664	7.644	7.612	7.671	60- 70	7.910	31.10	0.51,0.51
80	6.461	5.945	5.651	5.640	5.725	5.658	5.679	5.967	70- 80	6.970	38.07	0.62,0.62
90	7.088	4.468	2.852	2.417	2.629	2.866	3.571	5.008	80- 90	4.912	42.98	0.70,0.70
100	139.5	132.6	123.6	109.6	99.65	104.7	115.7	126.7	90-100	45.96	88.94	1.46,1.46
110	525.5	515.5	499.4	470.2	449.0	462.3	486.7	506.0	100-110	304.1	393.0	6.44,6.44
120	983.1	972.8	958.5	934.6	917.5	927.3	946.7	964.0	110-120	717.3	1110	18.2,18.2
130	1357	1349	1341	1332	1327	1328	1333	1343	120-130	1032	2143	35.1,35.1
140	1661	1656	1652	1646	1642	1644	1648	1654	130-140	1157	3299	54.1,54.1
150	1883	1878	1874	1870	1868	1871	1877	1880	140-150	1110	4409	72.3,72.3
160	2030	2025	2021	2018	2017	2020	2024	2027	150-160	902.3	5311	87.1,87.1
170	2112	2109	2107	2105	2105	2106	2108	2110	160-170	585.6	5897	96.7,96.7
180	2138	2138	2138	2138	2138	2138	2138	2138	170-180	202.5	6099	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
 γ 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:0.2070A P:45.663W PF:0.9605 Freq:49.99Hz Lamp Flux:6099.43x1 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	606	504
80	413	362
75	295	256
70	253	240
65	218	198
60	187	181
55	168	157
50	146	139
45	130	124

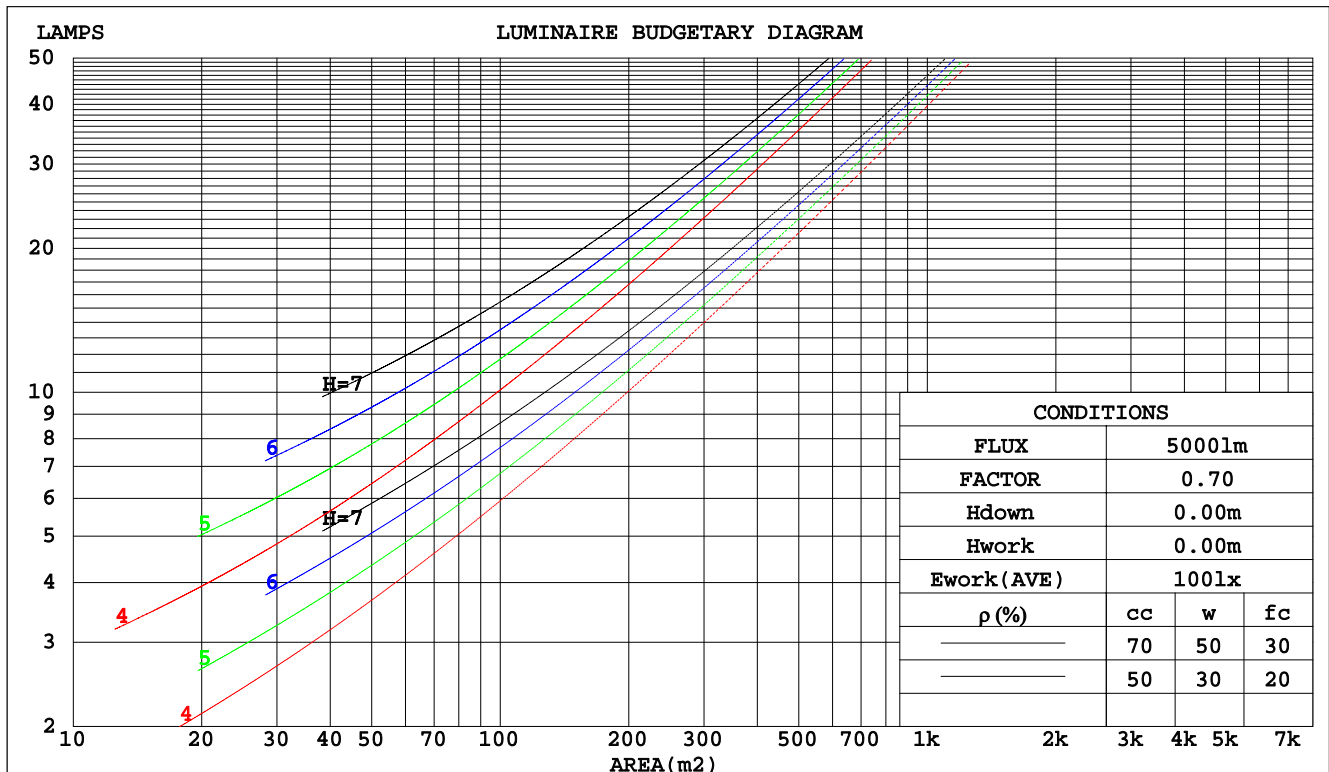
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-07-25

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:0.2070A P:45.663W PF:0.9605 Freq:49.99Hz Lamp Flux:6099.43x1 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:0.2070A P:45.663W PF:0.9605 Freq:49.99Hz Lamp Flux:6099.43x1 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	.919	.901	.804	.789	.776	.550	.543	.536	.317	.314	.312	.101	.101	.101	
2.0	.933	.900	.872	.799	.775	.754	.548	.536	.526	.316	.312	.308	.101	.101	.100	
3.0	.927	.886	.853	.795	.764	.740	.545	.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	.723	.541	.524	.511	.314	.308	.303	.101	.100	.100	
6.0	.910	.861	.825	.782	.745	.718	.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:0.2070A P:45.663W PF:0.9605 Freq:49.99Hz Lamp Flux:6099.43x1 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		-11.5	-10.9	-10.3	-9.7	-7.8	-11.8	-11.2	-10.5	-9.9	-8.1
	3H	-8.7	-8.2	-7.4	-6.9	-5.1	-9.0	-8.5	-7.8	-7.2	-5.4
	4H	-7.3	-6.8	-6.0	-5.6	-3.7	-7.8	-7.3	-6.5	-6.0	-4.2
	6H	-5.8	-5.4	-4.5	-4.1	-2.3	-6.4	-6.0	-5.1	-4.7	-2.9
	8H	-5.0	-4.5	-3.7	-3.3	-1.4	-5.7	-5.3	-4.4	-4.0	-2.2
	12H	-4.3	-3.8	-3.0	-2.6	-0.7	-5.1	-4.7	-3.8	-3.4	-1.6
4H	2H	-10.8	-10.3	-9.5	-9.1	-7.2	-11.0	-10.5	-9.7	-9.2	-7.4
	3H	-7.9	-7.4	-6.6	-6.2	-4.3	-8.1	-7.7	-6.8	-6.4	-4.6
	4H	-6.4	-6.0	-5.1	-4.8	-2.9	-6.8	-6.4	-5.5	-5.2	-3.3
	6H	-4.7	-4.4	-3.4	-3.1	-1.3	-5.3	-4.9	-4.0	-3.7	-1.8
	8H	-3.8	-3.5	-2.5	-2.2	-0.4	-4.5	-4.2	-3.2	-2.9	-1.0
	12H	-3.0	-2.7	-1.7	-1.5	0.4	-3.8	-3.5	-2.5	-2.2	-0.4
8H	4H	-6.0	-5.7	-4.7	-4.4	-2.6	-6.3	-6.0	-5.0	-4.8	-2.9
	6H	-4.1	-3.8	-2.8	-2.5	-0.7	-4.5	-4.3	-3.2	-3.0	-1.1
	8H	-3.0	-2.8	-1.7	-1.5	0.4	-3.6	-3.4	-2.3	-2.1	-0.2
	12H	-2.0	-1.8	-0.7	-0.5	1.3	-2.7	-2.5	-1.4	-1.2	0.7
12H	4H	-5.9	-5.7	-4.6	-4.4	-2.5	-6.2	-5.9	-4.9	-4.7	-2.8
	6H	-3.9	-3.7	-2.6	-2.4	-0.5	-4.3	-4.1	-3.0	-2.8	-0.9
	8H	-2.7	-2.6	-1.4	-1.3	0.6	-3.3	-3.1	-2.0	-1.8	0.1
Variations with the observer position at spacings:											
S = 1.0H		+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H		+ 0.2 / - 0.2					+ 0.2 / - 0.3				
2.0H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 6099 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 6.3$)

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:0.2070A P:45.663W PF:0.9605 Freq:49.99Hz Lamp Flux:6099.43x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 300*300	SERIAL No.:
MFR.: NLD242026	SUR.:0.3*0.3	Shielding Angle:

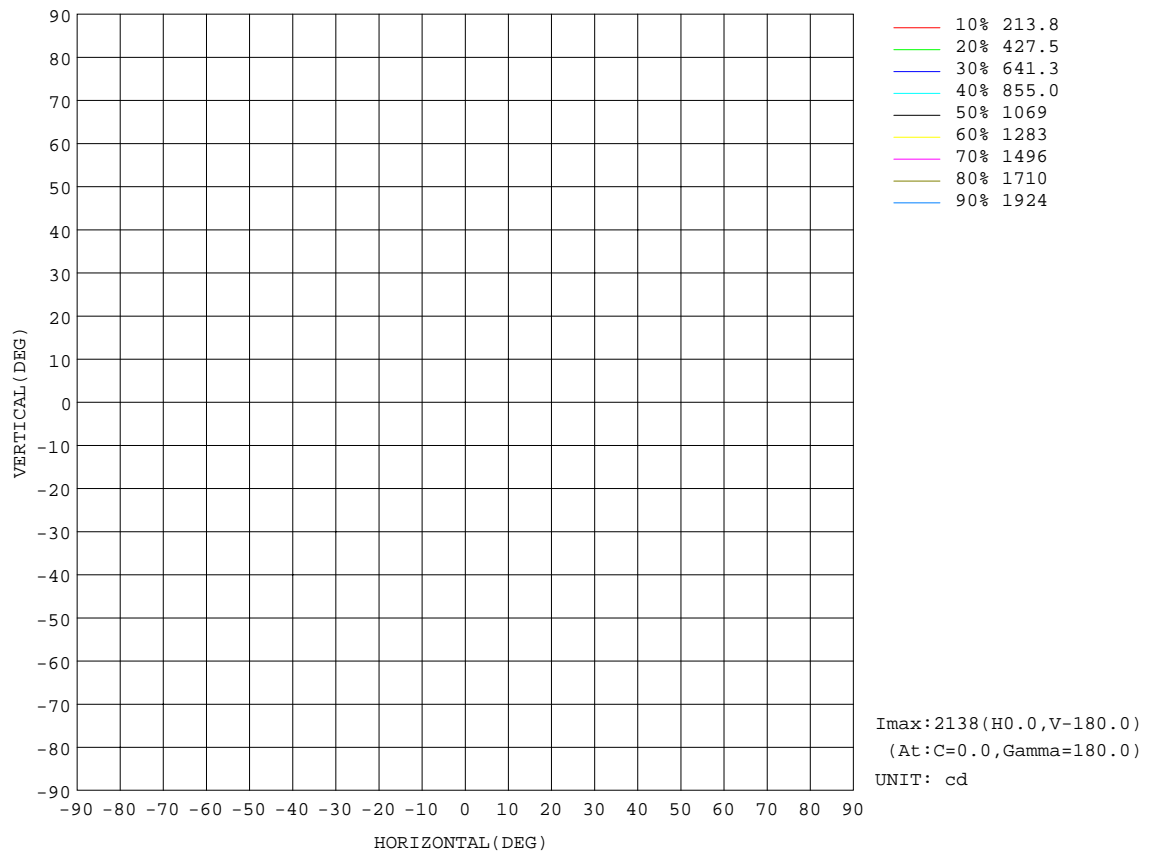
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	30	20	15	26	18	13	18	13	9	0
0.80	39	28	21	34	24	19	24	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	1
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:0.2070A P:45.663W PF:0.9605 Freq:49.99Hz Lamp Flux:6099.43x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 300*300	SERIAL No.:
MFR.: NLD242026	SUR.:0.3*0.3	Shielding Angle:

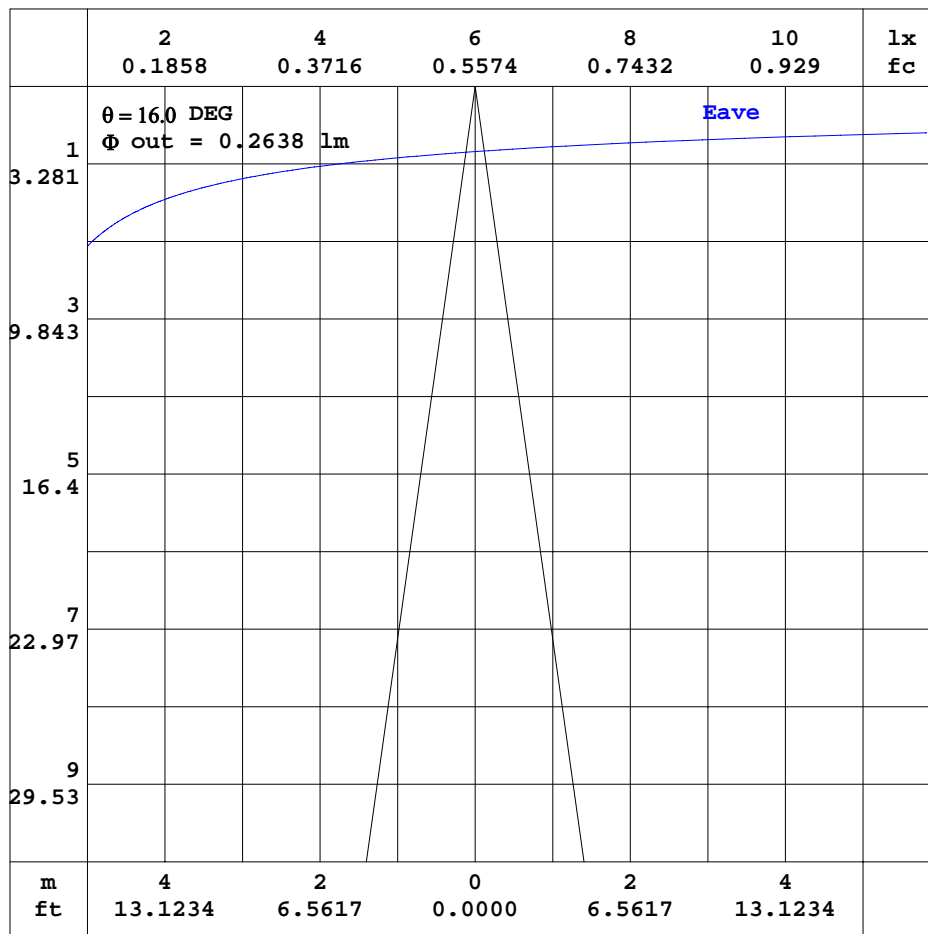


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2024-07-25

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:0.2070A P:45.663W PF:0.9605 Freq:49.99Hz Lamp Flux:6099.43x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 300*300	SERIAL No.:
MFR.: NLD242026	SUR.:0.3*0.3	Shielding Angle:



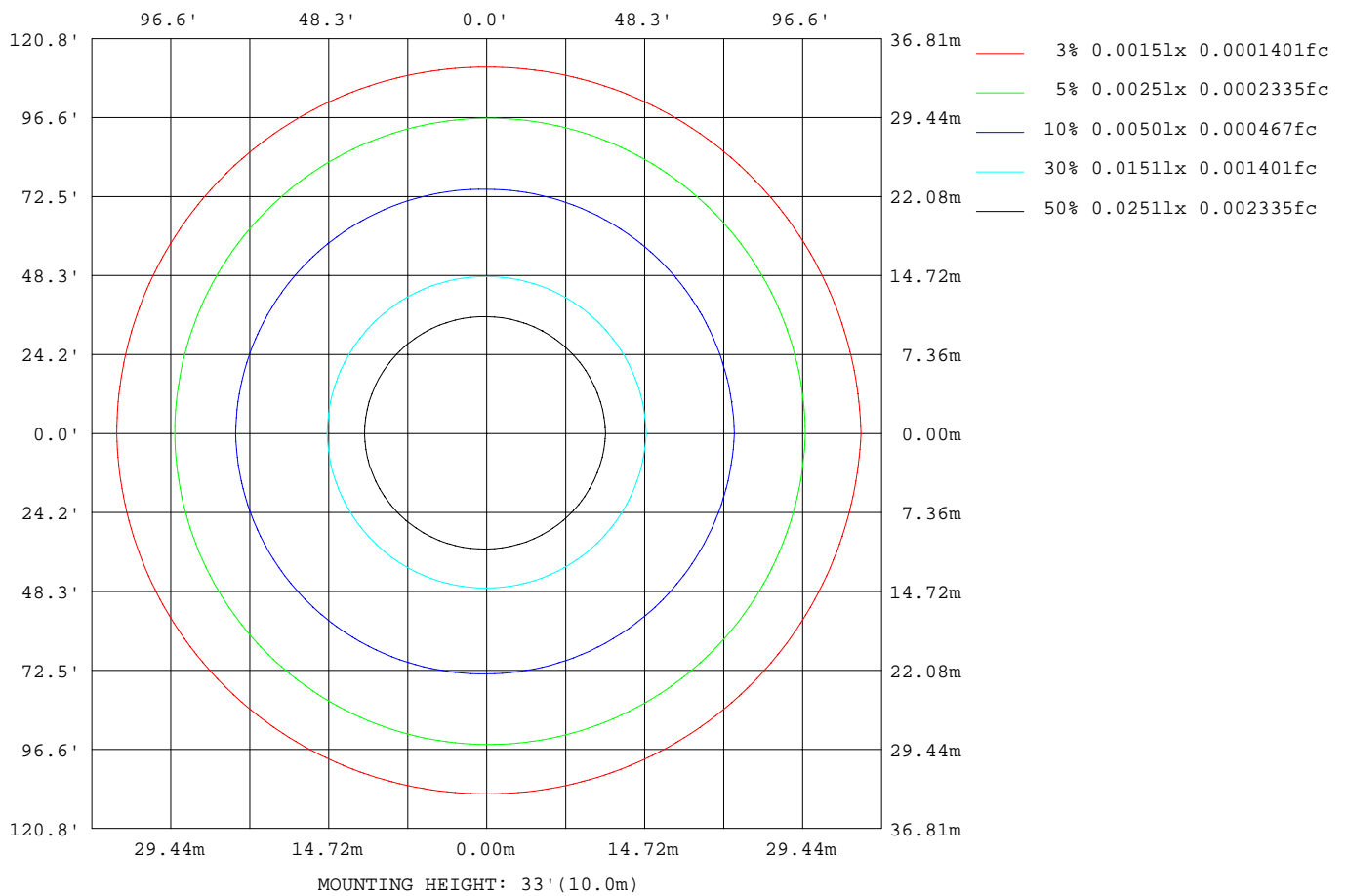
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.2070A P:45.663W PF:0.9605 Freq:49.99Hz Lamp Flux:6099.43x1 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:0.2070A P:45.663W PF:0.9605 Freq:49.99Hz Lamp Flux:6099.43x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 300*300	SERIAL No.:
MFR.: NLD242026	SUR.:0.3*0.3	Shielding Angle:

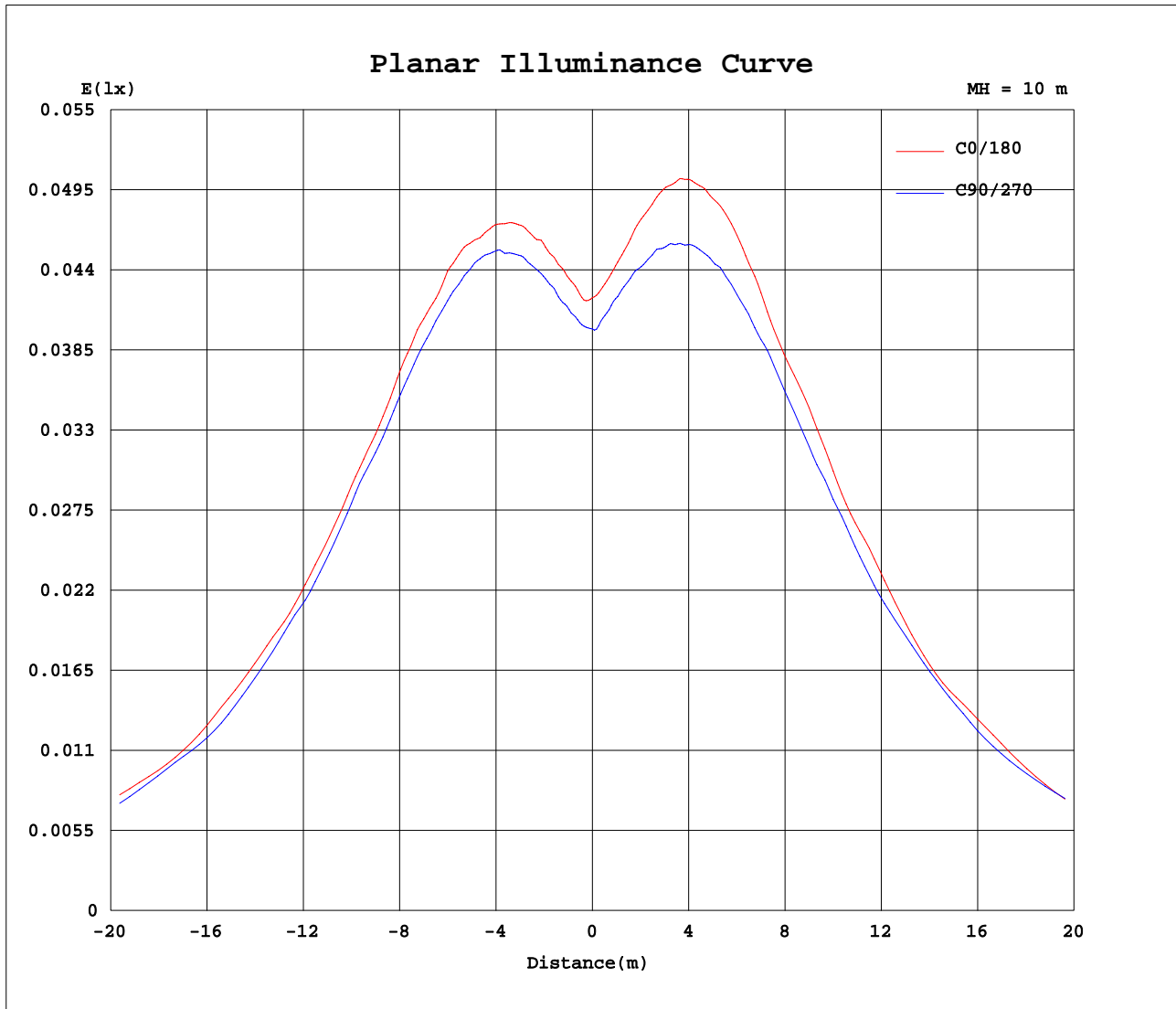
AvgL	cd/m2
L_0~180(65)av	216
L_0~180(75)av	295
L_0~180(85)av	535
L_90~270(65)av	203
L_90~270(75)av	262
L_90~270(85)av	511
L_45(65)av	208
L_45(75)av	274
L_45(85)av	516

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:0.2070A P:45.663W PF:0.9605 Freq:49.99Hz Lamp Flux:6099.43x1 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	4.21	4.19	4.16	4.14	4.12	4.11	4.09	4.08	4.06	4.05	4.04	4.03	4.02	4.01	4.01	4.00	4.00	4.00	4.00
5	4.37	4.35	4.32	4.30	4.28	4.26	4.24	4.22	4.21	4.20	4.19	4.18	4.17	4.16	4.16	4.15	4.15	4.15	4.15
10	4.73	4.70	4.67	4.65	4.62	4.60	4.58	4.57	4.55	4.54	4.53	4.52	4.51	4.50	4.50	4.50	4.50	4.50	4.50
15	5.18	5.15	5.12	5.09	5.06	5.04	5.02	5.00	4.98	4.97	4.96	4.95	4.94	4.93	4.93	4.93	4.93	4.94	4.94
20	5.68	5.65	5.61	5.58	5.56	5.53	5.51	5.49	5.47	5.45	5.44	5.43	5.43	5.42	5.42	5.42	5.42	5.43	5.44
25	6.21	6.18	6.15	6.12	6.09	6.07	6.05	6.03	6.02	6.01	6.00	5.99	5.99	5.98	5.98	5.99	5.99	6.00	6.01
30	6.85	6.80	6.76	6.73	6.69	6.66	6.64	6.61	6.59	6.57	6.56	6.54	6.54	6.53	6.53	6.53	6.53	6.54	6.55
35	7.39	7.35	7.31	7.27	7.24	7.21	7.18	7.16	7.14	7.12	7.10	7.09	7.08	7.07	7.07	7.06	7.07	7.07	7.08
40	7.83	7.78	7.74	7.70	7.67	7.64	7.61	7.58	7.56	7.54	7.52	7.51	7.50	7.49	7.49	7.49	7.49	7.49	7.50
45	8.25	8.21	8.17	8.13	8.09	8.06	8.03	8.01	7.98	7.96	7.94	7.93	7.92	7.91	7.90	7.90	7.90	7.90	7.91
50	8.44	8.38	8.33	8.28	8.24	8.20	8.17	8.13	8.11	8.08	8.06	8.04	8.03	8.02	8.01	8.01	8.01	8.02	8.03
55	8.67	8.61	8.56	8.51	8.46	8.42	8.37	8.34	8.30	8.27	8.24	8.22	8.19	8.17	8.16	8.15	8.14	8.13	8.13
60	8.42	8.38	8.35	8.31	8.28	8.26	8.23	8.21	8.19	8.18	8.16	8.15	8.14	8.14	8.13	8.13	8.13	8.14	8.14
65	8.31	8.23	8.15	8.08	8.02	7.95	7.90	7.84	7.79	7.75	7.71	7.67	7.64	7.61	7.59	7.57	7.55	7.54	7.53
70	7.79	7.75	7.71	7.68	7.64	7.61	7.58	7.56	7.53	7.51	7.49	7.47	7.45	7.44	7.43	7.42	7.41	7.40	7.40
75	6.88	6.78	6.68	6.60	6.51	6.44	6.36	6.30	6.24	6.19	6.14	6.09	6.06	6.03	6.00	5.98	5.96	5.96	5.95
80	6.46	6.39	6.33	6.26	6.20	6.15	6.09	6.04	5.99	5.95	5.90	5.86	5.82	5.79	5.75	5.72	5.70	5.67	5.65
85	4.75	4.70	4.64	4.59	4.53	4.48	4.43	4.39	4.34	4.29	4.25	4.21	4.17	4.13	4.09	4.05	4.02	3.99	3.96
90	7.09	6.75	6.42	6.10	5.80	5.51	5.23	4.96	4.71	4.47	4.24	4.02	3.82	3.63	3.45	3.28	3.12	2.98	2.85
95	39.2	38.8	38.4	38.0	37.7	37.3	36.9	36.6	36.2	35.8	35.5	35.1	34.8	34.4	34.1	33.7	33.4	33.1	32.7
100	140	139	138	137	137	136	135	134	133	133	132	131	130	129	128	127	126	125	124
105	315	314	313	312	311	310	309	307	306	305	303	302	301	299	298	296	294	293	291
110	526	525	524	523	522	521	520	518	517	516	514	512	511	509	507	505	504	502	499
115	770	769	768	767	765	764	763	761	760	758	756	755	753	751	749	747	745	743	741
120	983	982	981	980	979	978	977	975	974	973	971	970	968	967	965	964	962	960	958
125	1187	1186	1184	1183	1182	1180	1179	1178	1176	1175	1174	1172	1171	1170	1168	1167	1166	1165	1163
130	1357	1356	1355	1354	1353	1352	1351	1350	1350	1349	1348	1347	1346	1345	1344	1343	1342	1342	1341
135	1518	1517	1516	1515	1514	1513	1512	1511	1510	1509	1508	1507	1506	1505	1505	1504	1503	1502	1501
140	1661	1660	1660	1659	1659	1658	1658	1657	1657	1656	1656	1655	1655	1654	1654	1653	1653	1652	1652
145	1786	1785	1785	1784	1783	1782	1781	1780	1780	1779	1778	1777	1777	1776	1775	1775	1774	1773	1773
150	1883	1882	1882	1881	1881	1880	1880	1879	1879	1878	1878	1877	1877	1877	1876	1876	1875	1875	1874
155	1969	1968	1966	1965	1964	1963	1962	1961	1960	1960	1959	1958	1957	1957	1956	1955	1955	1954	1954
160	2030	2029	2029	2028	2027	2027	2026	2026	2025	2025	2024	2024	2023	2023	2022	2022	2022	2021	2021
165	2080	2079	2079	2078	2077	2076	2076	2075	2075	2074	2073	2073	2072	2072	2071	2071	2071	2070	2070
170	2112	2111	2111	2111	2110	2110	2110	2109	2109	2109	2109	2108	2108	2108	2108	2108	2107	2107	2107
175	2128	2128	2128	2128	2128	2127	2127	2127	2127	2127	2127	2127	2127	2127	2127	2127	2127	2127	2127
180	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138

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:0.2070A P:45.663W PF:0.9605 Freq:49.99Hz Lamp Flux:6099.43x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 300*300	SERIAL No.:
MFR.: NLD242026	SUR.:0.3*0.3	Shielding Angle:

Table--2

UNIT: cd

C(DEC) γ (DEC)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	4.00	4.01	4.02	4.04	4.05	4.06	4.07	4.09	4.10	4.12	4.13	4.14	4.16	4.17	4.18	4.19	4.20	4.21	4.20
5	4.16	4.18	4.19	4.21	4.23	4.25	4.26	4.28	4.30	4.32	4.34	4.36	4.38	4.39	4.41	4.42	4.44	4.45	4.44
10	4.52	4.54	4.56	4.58	4.61	4.63	4.66	4.68	4.71	4.73	4.76	4.78	4.80	4.82	4.85	4.87	4.88	4.90	4.89
15	4.96	4.99	5.02	5.05	5.08	5.11	5.14	5.17	5.20	5.23	5.26	5.29	5.32	5.35	5.37	5.40	5.42	5.44	5.43
20	5.47	5.50	5.54	5.57	5.61	5.65	5.69	5.73	5.77	5.81	5.84	5.88	5.92	5.95	5.98	6.01	6.04	6.06	6.04
25	6.05	6.08	6.12	6.16	6.20	6.24	6.28	6.32	6.36	6.40	6.44	6.48	6.52	6.55	6.58	6.61	6.64	6.66	6.64
30	6.58	6.62	6.66	6.70	6.75	6.79	6.84	6.88	6.93	6.97	7.02	7.06	7.10	7.14	7.17	7.21	7.24	7.26	7.24
35	7.11	7.14	7.18	7.22	7.26	7.30	7.34	7.38	7.42	7.46	7.50	7.54	7.57	7.61	7.64	7.67	7.70	7.72	7.70
40	7.53	7.57	7.60	7.64	7.68	7.73	7.77	7.81	7.85	7.89	7.94	7.98	8.01	8.05	8.09	8.12	8.15	8.17	8.16
45	7.94	7.97	8.01	8.04	8.08	8.12	8.16	8.20	8.24	8.28	8.32	8.35	8.39	8.43	8.46	8.49	8.52	8.54	8.52
50	8.06	8.10	8.15	8.19	8.24	8.29	8.34	8.39	8.44	8.49	8.53	8.58	8.63	8.67	8.71	8.75	8.78	8.81	8.79
55	8.14	8.16	8.18	8.20	8.23	8.26	8.28	8.31	8.34	8.37	8.40	8.43	8.47	8.49	8.52	8.55	8.58	8.60	8.60
60	8.17	8.20	8.23	8.27	8.30	8.33	8.37	8.41	8.44	8.48	8.52	8.55	8.58	8.61	8.64	8.67	8.70	8.72	8.70
65	7.55	7.57	7.60	7.62	7.65	7.69	7.72	7.76	7.80	7.83	7.87	7.91	7.95	7.99	8.03	8.06	8.10	8.13	8.13
70	7.40	7.41	7.42	7.43	7.45	7.46	7.48	7.49	7.51	7.53	7.54	7.56	7.58	7.60	7.62	7.63	7.65	7.66	7.66
75	5.98	6.02	6.07	6.11	6.16	6.21	6.27	6.32	6.38	6.44	6.50	6.56	6.61	6.67	6.72	6.77	6.81	6.86	6.84
80	5.64	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.64	5.65	5.65	5.66	5.67	5.68	5.69	5.70	5.71	5.72	5.72
85	3.92	3.89	3.86	3.84	3.81	3.79	3.76	3.74	3.73	3.71	3.69	3.68	3.67	3.66	3.65	3.65	3.65	3.65	3.65
90	2.76	2.68	2.61	2.56	2.51	2.47	2.45	2.43	2.42	2.42	2.42	2.43	2.45	2.48	2.51	2.54	2.58	2.63	2.64
95	32.3	31.9	31.5	31.1	30.7	30.3	29.9	29.6	29.2	28.9	28.6	28.3	28.0	27.8	27.5	27.3	27.1	27.0	27.0
100	122	120	119	117	116	114	113	111	110	108	107	106	104	103	102	101	100	99.6	99.8
105	288	286	283	281	278	275	273	270	268	266	264	261	259	258	256	254	253	252	252
110	496	493	490	486	483	480	477	473	470	467	464	462	459	457	454	452	451	449	450
115	738	735	731	728	725	722	719	716	713	710	707	705	702	700	698	696	694	693	694
120	956	953	950	948	945	942	940	937	935	932	930	928	926	924	922	920	919	917	918
125	1162	1160	1158	1157	1155	1154	1153	1151	1150	1148	1147	1146	1145	1144	1143	1142	1142	1141	1141
130	1340	1339	1338	1337	1336	1335	1334	1333	1332	1332	1331	1330	1329	1329	1328	1328	1327	1327	1327
135	1500	1499	1498	1497	1497	1496	1495	1494	1493	1493	1492	1491	1491	1490	1490	1489	1489	1489	1489
140	1651	1650	1650	1649	1649	1648	1647	1647	1646	1646	1645	1645	1644	1644	1643	1643	1643	1642	1642
145	1772	1772	1771	1770	1770	1769	1769	1768	1768	1767	1767	1767	1766	1766	1766	1766	1766	1766	1766
150	1874	1873	1873	1872	1872	1871	1871	1870	1870	1870	1869	1869	1869	1868	1868	1868	1868	1868	1868
155	1953	1953	1952	1952	1952	1951	1951	1951	1951	1950	1950	1950	1950	1950	1950	1950	1950	1950	1951
160	2020	2020	2020	2019	2019	2019	2018	2018	2018	2018	2018	2017	2017	2017	2017	2017	2017	2017	2017
165	2070	2069	2069	2069	2069	2069	2069	2069	2069	2069	2069	2069	2069	2069	2069	2069	2069	2069	2069
170	2107	2107	2106	2106	2106	2106	2106	2106	2105	2105	2105	2105	2105	2105	2105	2105	2105	2105	2105
175	2127	2127	2127	2128	2128	2128	2128	2128	2128	2129	2129	2129	2129	2129	2130	2130	2130	2130	2130
180	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138

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:0.2070A P:45.663W PF:0.9605 Freq:49.99Hz Lamp Flux:6099.43x1 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	4.19	4.18	4.17	4.16	4.14	4.13	4.12	4.10	4.09	4.07	4.06	4.05	4.04	4.02	4.01	4.00	4.00	4.00	4.00
5	4.44	4.43	4.42	4.41	4.39	4.38	4.37	4.35	4.34	4.32	4.31	4.30	4.28	4.27	4.26	4.24	4.23	4.23	4.23
10	4.88	4.87	4.85	4.84	4.82	4.80	4.78	4.76	4.74	4.72	4.70	4.69	4.67	4.65	4.63	4.61	4.60	4.59	4.59
15	5.41	5.40	5.38	5.36	5.33	5.31	5.29	5.26	5.24	5.21	5.18	5.16	5.13	5.11	5.08	5.06	5.04	5.03	5.03
20	6.02	6.00	5.97	5.95	5.92	5.89	5.85	5.82	5.78	5.75	5.72	5.68	5.65	5.61	5.58	5.55	5.52	5.51	5.51
25	6.62	6.59	6.56	6.53	6.50	6.47	6.43	6.39	6.35	6.32	6.28	6.24	6.20	6.16	6.13	6.09	6.06	6.05	6.04
30	7.22	7.19	7.16	7.12	7.09	7.05	7.01	6.97	6.93	6.89	6.85	6.81	6.77	6.73	6.69	6.65	6.62	6.61	6.60
35	7.68	7.65	7.63	7.60	7.56	7.53	7.49	7.45	7.42	7.38	7.34	7.30	7.27	7.23	7.20	7.17	7.14	7.13	7.12
40	8.13	8.11	8.08	8.05	8.02	7.99	7.95	7.92	7.88	7.85	7.81	7.77	7.74	7.70	7.67	7.64	7.61	7.60	7.59
45	8.50	8.48	8.45	8.42	8.39	8.36	8.32	8.29	8.25	8.22	8.18	8.15	8.11	8.08	8.05	8.02	7.99	7.98	7.98
50	8.77	8.74	8.71	8.68	8.64	8.60	8.56	8.52	8.48	8.44	8.39	8.35	8.31	8.27	8.23	8.20	8.16	8.15	8.15
55	8.59	8.58	8.57	8.56	8.55	8.53	8.52	8.50	8.49	8.47	8.46	8.45	8.43	8.42	8.41	8.39	8.38	8.39	8.39
60	8.69	8.67	8.64	8.62	8.59	8.56	8.53	8.50	8.47	8.44	8.41	8.38	8.35	8.32	8.29	8.26	8.24	8.23	8.23
65	8.12	8.11	8.10	8.09	8.08	8.06	8.05	8.03	8.02	8.00	7.99	7.97	7.96	7.95	7.93	7.92	7.92	7.92	7.93
70	7.66	7.66	7.66	7.66	7.65	7.65	7.65	7.64	7.64	7.64	7.63	7.63	7.62	7.62	7.62	7.61	7.61	7.62	7.62
75	6.82	6.79	6.76	6.73	6.69	6.66	6.62	6.58	6.54	6.50	6.47	6.43	6.39	6.36	6.33	6.30	6.27	6.27	6.28
80	5.71	5.70	5.69	5.68	5.68	5.67	5.66	5.66	5.65	5.65	5.65	5.65	5.65	5.65	5.66	5.67	5.68	5.70	5.72
85	3.66	3.68	3.69	3.71	3.72	3.74	3.77	3.79	3.81	3.84	3.87	3.90	3.93	3.96	3.99	4.02	4.06	4.09	4.12
90	2.65	2.67	2.69	2.71	2.74	2.78	2.82	2.87	2.92	2.98	3.04	3.11	3.19	3.27	3.37	3.46	3.57	3.70	3.83
95	27.0	27.0	27.1	27.2	27.4	27.5	27.7	27.9	28.1	28.3	28.6	28.9	29.2	29.5	29.8	30.2	30.6	30.9	31.3
100	100	100	101	101	102	103	104	105	106	107	108	109	110	112	113	114	116	117	118
105	253	254	254	256	257	258	260	261	263	265	267	269	271	273	276	278	280	282	284
110	450	452	453	454	456	458	460	462	465	467	470	472	475	478	481	484	487	489	491
115	694	696	697	698	700	702	704	706	709	711	714	716	719	722	725	727	730	732	735
120	918	919	920	921	923	924	926	927	929	931	933	935	937	940	942	944	947	949	950
125	1141	1142	1142	1142	1143	1144	1144	1145	1146	1147	1148	1149	1150	1152	1153	1154	1156	1157	1158
130	1327	1326	1327	1327	1327	1327	1327	1328	1328	1329	1329	1330	1330	1331	1332	1332	1333	1334	1335
135	1489	1489	1489	1489	1490	1490	1490	1491	1491	1492	1492	1493	1494	1495	1495	1496	1497	1498	1499
140	1642	1643	1643	1643	1643	1643	1644	1644	1644	1645	1645	1646	1646	1647	1647	1648	1648	1649	1649
145	1766	1766	1766	1767	1767	1767	1768	1768	1769	1769	1770	1770	1771	1771	1772	1773	1773	1774	1774
150	1868	1869	1869	1869	1870	1870	1871	1871	1872	1873	1873	1874	1874	1875	1876	1876	1877	1877	1878
155	1951	1951	1951	1952	1952	1952	1953	1953	1954	1954	1955	1955	1956	1956	1957	1957	1958	1958	1959
160	2018	2018	2018	2018	2019	2019	2019	2020	2020	2021	2021	2021	2022	2022	2023	2023	2024	2024	2024
165	2070	2070	2070	2071	2071	2071	2072	2072	2072	2073	2073	2073	2074	2074	2075	2075	2075	2076	2076
170	2105	2105	2105	2105	2106	2106	2106	2106	2106	2107	2107	2107	2107	2107	2108	2108	2108	2108	2108
175	2130	2130	2130	2130	2130	2129	2129	2129	2129	2129	2129	2129	2129	2128	2128	2128	2128	2128	2128
180	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138

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:0.2070A P:45.663W PF:0.9605 Freq:49.99Hz Lamp Flux:6099.43x1 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	4.00	4.01	4.01	4.02	4.03	4.04	4.05	4.06	4.08	4.09	4.11	4.12	4.14	4.16	4.19				
5	4.23	4.23	4.24	4.24	4.24	4.25	4.26	4.27	4.28	4.29	4.30	4.31	4.32	4.34	4.35				
10	4.59	4.59	4.59	4.59	4.60	4.60	4.61	4.61	4.62	4.63	4.65	4.66	4.67	4.69	4.71				
15	5.03	5.02	5.02	5.03	5.03	5.04	5.04	5.05	5.06	5.07	5.09	5.10	5.12	5.14	5.16				
20	5.50	5.50	5.50	5.50	5.50	5.51	5.52	5.53	5.54	5.55	5.57	5.59	5.61	5.63	5.66				
25	6.03	6.03	6.03	6.03	6.03	6.04	6.04	6.05	6.06	6.08	6.09	6.11	6.13	6.16	6.18				
30	6.60	6.60	6.60	6.60	6.61	6.61	6.62	6.64	6.66	6.67	6.70	6.72	6.75	6.78	6.81				
35	7.12	7.12	7.12	7.13	7.14	7.15	7.16	7.17	7.19	7.21	7.24	7.26	7.29	7.32	7.36				
40	7.59	7.59	7.59	7.59	7.60	7.61	7.62	7.63	7.65	7.67	7.69	7.71	7.74	7.76	7.79				
45	7.98	7.98	7.98	7.99	8.00	8.01	8.02	8.04	8.05	8.08	8.10	8.12	8.15	8.18	8.22				
50	8.14	8.14	8.14	8.15	8.16	8.17	8.18	8.20	8.22	8.24	8.27	8.29	8.33	8.36	8.40				
55	8.40	8.40	8.41	8.42	8.44	8.45	8.46	8.48	8.50	8.52	8.54	8.56	8.59	8.61	8.64				
60	8.22	8.22	8.22	8.23	8.23	8.24	8.25	8.26	8.27	8.29	8.30	8.32	8.34	8.37	8.39				
65	7.94	7.95	7.96	7.98	8.00	8.01	8.04	8.06	8.08	8.11	8.14	8.17	8.20	8.23	8.27				
70	7.63	7.63	7.64	7.64	7.65	7.66	7.67	7.68	7.69	7.70	7.72	7.73	7.74	7.76	7.77				
75	6.29	6.30	6.32	6.34	6.37	6.39	6.43	6.46	6.50	6.54	6.59	6.64	6.69	6.75	6.81				
80	5.75	5.78	5.81	5.85	5.88	5.92	5.97	6.01	6.06	6.11	6.16	6.22	6.27	6.33	6.40				
85	4.15	4.19	4.22	4.26	4.29	4.33	4.37	4.41	4.45	4.49	4.53	4.57	4.62	4.66	4.71				
90	3.98	4.13	4.29	4.46	4.63	4.82	5.01	5.21	5.41	5.63	5.85	6.08	6.32	6.57	6.82				
95	31.7	32.0	32.5	32.9	33.3	33.8	34.2	34.7	35.2	35.7	36.3	36.8	37.4	38.0	38.5				
100	119	120	122	123	124	125	127	128	129	131	132	134	135	136	138				
105	286	287	289	291	293	295	297	299	301	303	305	307	309	311	313				
110	493	495	497	500	502	504	506	508	510	512	515	517	519	521	523				
115	737	739	741	743	746	748	750	752	754	757	759	761	764	766	768				
120	952	954	956	958	960	962	964	966	968	970	972	974	976	979	981				
125	1160	1161	1163	1164	1166	1168	1169	1171	1173	1175	1177	1179	1181	1183	1185				
130	1336	1337	1338	1339	1341	1342	1343	1344	1346	1347	1349	1350	1352	1354	1355				
135	1500	1501	1502	1503	1504	1505	1506	1507	1508	1510	1511	1512	1514	1515	1517				
140	1650	1650	1651	1652	1652	1653	1654	1654	1655	1656	1657	1657	1658	1659	1660				
145	1775	1776	1776	1777	1778	1778	1779	1780	1781	1781	1782	1783	1784	1785	1785				
150	1878	1878	1879	1879	1880	1880	1880	1881	1881	1881	1882	1882	1882	1882	1883				
155	1959	1960	1960	1961	1962	1962	1963	1963	1964	1965	1965	1966	1967	1967	1968				
160	2025	2025	2025	2026	2026	2027	2027	2027	2028	2028	2028	2028	2029	2029	2029				
165	2076	2077	2077	2077	2077	2078	2078	2078	2078	2079	2079	2079	2080	2080	2080				
170	2109	2109	2109	2109	2109	2110	2110	2110	2110	2110	2111	2111	2111	2111	2111				
175	2128	2128	2128	2128	2128	2128	2128	2128	2128	2128	2128	2128	2128	2128	2128				
180	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138	2138				

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: