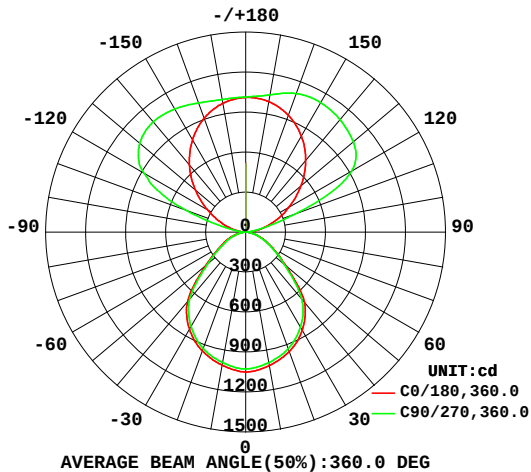


LUMINAIRE PHOTOMETRIC TEST REPORT

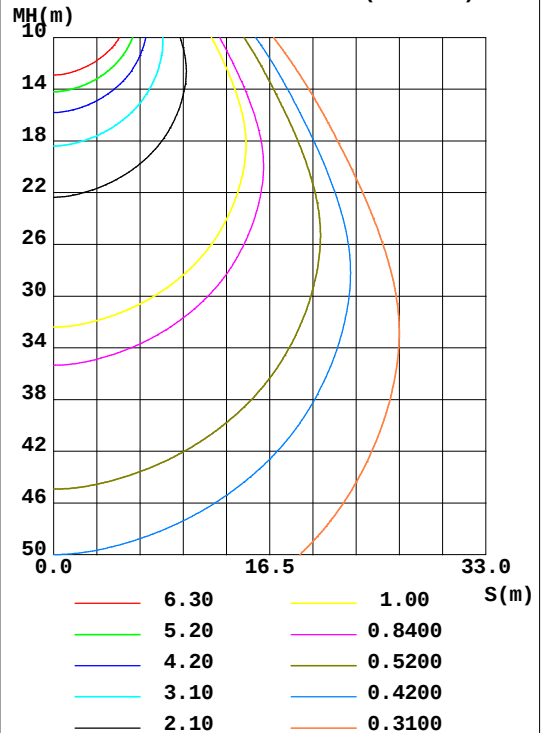
Test:U:220.7V I:0.2280A P:48.70W PF:0.9670 Lamp Flux:5891.83x1 lm		
NAME: NECO吊灯 微晶罩 上下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*49	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 120.98 lm/W			
MODEL		I _{max} (cd)	1124	S/MH(C0/180)	1.21
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.20
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	5891.8	η UP, DN(C0-180)	31.0, 18.5
NOMINAL FLUX(lm)	5891.83	CIE CLASS	SEMI-IND.	η UP, DN(C180-360)	32.0, 18.5
LAMPS INSIDE	1	η up(%)	63.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220.0	η down(%)	36.9	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: 2023-02-14

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-2000_V1 SYSTEM V2.0.295T
Humidity: 65.0%
Test Distance: 9.460m [K=1.0571]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	ϕ zone	ϕ total	%lum,lamp
5	1038	1029	1017	1009	1040	1027	1017	1008	0- 5	24.56	24.56	0.42,0.42
10	1015	1007	995.1	988.2	1018	1005	995.2	986.4	5- 10	72.32	96.88	1.64,1.64
15	985.8	980.0	966.9	961.0	990.1	977.2	967.7	958.5	10- 15	117.0	213.9	3.63,3.63
20	949.9	945.8	931.4	926.0	954.6	942.0	932.5	923.2	15- 20	157.5	371.4	6.3,6.3
25	903.7	897.6	881.6	880.2	909.5	892.4	883.6	876.9	20- 25	191.8	563.2	9.56,9.56
30	843.5	838.1	820.5	820.5	849.8	831.9	823.4	817.6	25- 30	217.7	780.9	13.3,13.3
35	772.1	766.6	747.5	749.1	778.0	759.1	750.7	746.8	30- 35	234.0	1015	17.2,17.2
40	678.5	674.0	654.2	657.9	687.7	663.0	655.0	653.3	35- 40	238.3	1253	21.3,21.3
45	533.8	530.3	510.0	513.8	536.9	512.6	510.7	512.7	40- 45	220.0	1473	25,25
50	392.3	390.7	374.4	376.7	391.6	378.5	378.7	379.7	45- 50	180.6	1654	28.1,28.1
55	294.0	302.2	279.2	291.9	302.8	284.3	292.6	286.1	50- 55	145.7	1800	30.5,30.5
60	221.4	225.0	206.5	216.3	227.4	212.8	218.8	214.2	55- 60	116.7	1916	32.5,32.5
65	173.3	167.6	157.3	159.2	169.9	164.6	163.2	166.1	60- 65	92.10	2008	34.1,34.1
70	125.8	118.5	110.3	111.6	121.7	116.6	115.9	119.1	65- 70	71.21	2080	35.3,35.3
75	82.82	75.06	70.13	69.07	78.68	74.15	75.40	76.97	70- 75	50.00	2130	36.1,36.1
80	43.87	39.03	36.81	34.84	40.02	37.80	39.52	41.09	75- 80	30.20	2160	36.7,36.7
85	13.81	13.41	12.22	11.19	11.46	13.03	15.27	15.14	80- 85	13.56	2173	36.9,36.9
90	1.377	3.008	2.184	2.558	2.489	6.800	2.109	2.074	85- 90	3.341	2177	36.9,36.9
95	20.07	58.81	25.26	95.17	36.90	51.04	7.300	21.06	90- 95	7.612	2184	37.1,37.1
100	62.85	196.0	86.63	254.2	88.24	219.8	63.64	178.9	95-100	49.57	2234	37.9,37.9
105	119.5	373.4	224.6	433.7	150.9	427.8	171.9	369.8	100-105	117.2	2351	39.9,39.9
110	182.0	519.8	466.7	575.2	221.7	607.7	389.7	535.0	105-110	193.8	2545	43.2,43.2
115	250.1	621.5	712.2	672.1	300.2	714.3	702.8	636.9	110-115	263.4	2808	47.7,47.7
120	327.8	693.2	877.6	743.8	373.0	785.6	918.4	710.2	115-120	311.5	3120	53,53
125	409.9	749.1	983.3	801.2	457.8	843.9	1011	773.1	120-125	336.1	3456	58.7,58.7
130	493.6	793.9	1038	847.1	542.4	897.5	1055	831.4	125-130	344.2	3800	64.5,64.5
135	577.6	828.0	1068	883.2	624.5	945.0	1081	882.9	130-135	341.1	4141	70.3,70.3
140	657.2	856.4	1080	912.1	701.8	985.5	1102	926.7	135-140	328.9	4470	75.9,75.9
145	731.5	880.2	1078	935.0	772.3	1017	1117	962.5	140-145	308.5	4779	81.1,81.1
150	799.5	897.9	1066	953.6	835.1	1040	1124	988.0	145-150	280.8	5059	85.9,85.9
155	859.9	914.4	1050	969.1	889.3	1050	1122	1003	150-155	246.8	5306	90.1,90.1
160	910.7	926.8	1032	982.8	934.1	1047	1107	1008	155-160	207.6	5514	93.6,93.6
165	952.0	934.1	1018	994.1	969.9	1036	1079	1009	160-165	164.2	5678	96.4,96.4
170	982.6	931.2	1011	1004	994.8	1029	1046	1011	165-170	118.6	5797	98.4,98.4
175	1002	909.6	1011	1011	1008	1008	1024	1012	170-175	71.48	5868	99.6,99.6
180	1010	1010	1010	1010	1010	1010	1010	1010	175-180	23.72	5892	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1473.3 lm

%lum = 25.0%
 %lamp = 25.0%

Conical surface Flux(120deg): 1916.3 lm

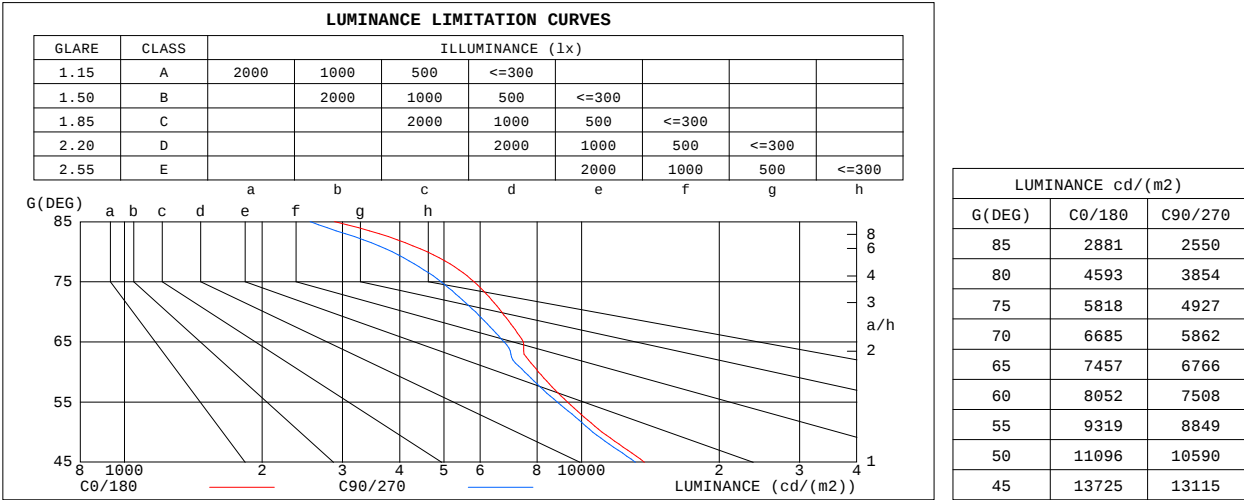
%lum = 32.5%
 %lamp = 32.5%

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2023-02-14

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.295T
 Humidity:65.0%
 Test Distance:9.460m [K=1.0571]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.7V I:0.2280A P:48.70W PF:0.9670 Lamp Flux:5891.83x1 lm		
NAME: NEC0吊灯 微晶罩 上下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*49	Shielding Angle:



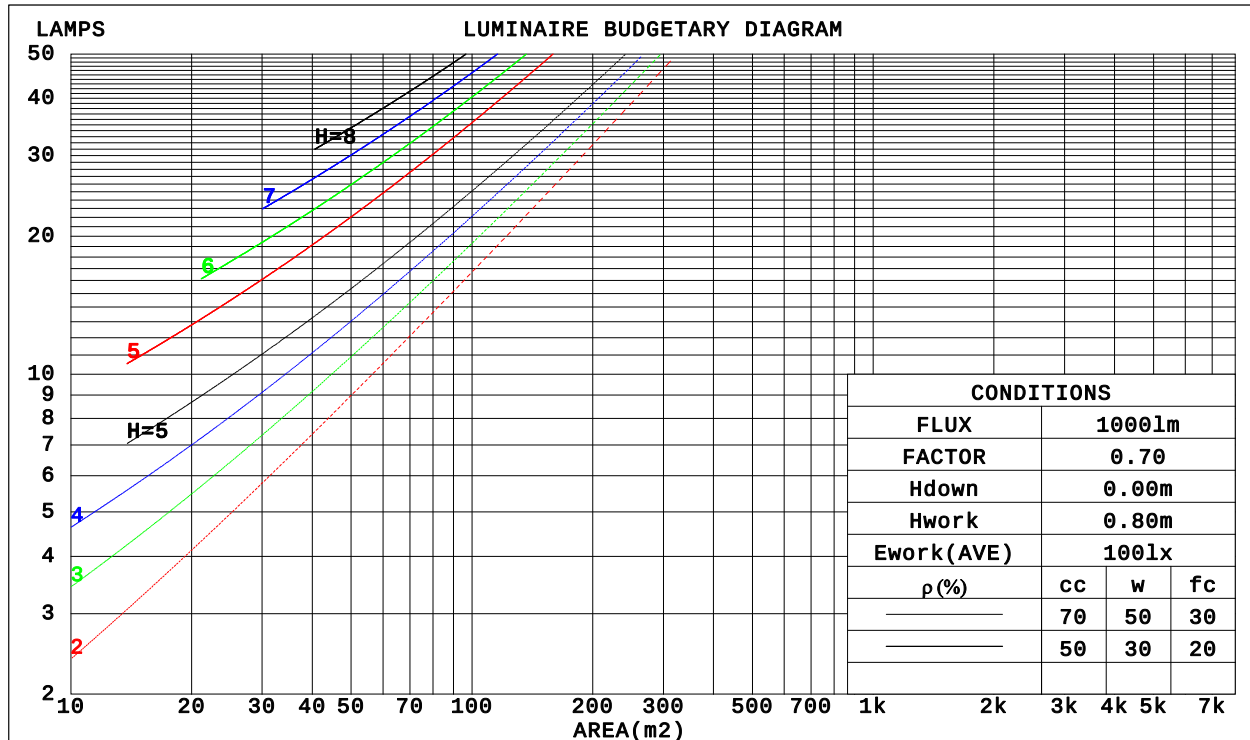
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2023-02-14

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.295T
Humidity:65.0%
Test Distance:9.460m [K=1.0571]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.2280A P:48.70W PF:0.9670 Lamp Flux:5891.83x1 lm		
NAME: NECO吊灯 微晶罩 上下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*49	Shielding Angle:

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.04	1.04	1.04	.94	.94	.94	.76	.76	.76	.59	.59	.59	.44	.44	.44	.37
1.0	.91	.88	.85	.83	.80	.77	.67	.65	.63	.53	.52	.51	.40	.39	.38	.32
2.0	.80	.75	.70	.73	.68	.64	.60	.56	.53	.47	.45	.43	.36	.34	.33	.28
3.0	.71	.64	.59	.65	.59	.54	.53	.49	.45	.42	.39	.37	.32	.30	.29	.24
4.0	.63	.56	.50	.58	.51	.46	.47	.43	.39	.38	.35	.32	.29	.27	.25	.21
5.0	.56	.49	.43	.52	.45	.40	.43	.38	.34	.34	.31	.28	.26	.24	.22	.19
6.0	.51	.43	.38	.47	.40	.35	.39	.34	.30	.31	.27	.25	.24	.22	.20	.17
7.0	.46	.38	.33	.42	.35	.31	.35	.30	.26	.28	.25	.22	.22	.20	.18	.15
8.0	.42	.34	.29	.38	.32	.27	.32	.27	.23	.26	.22	.20	.20	.18	.16	.14
9.0	.38	.31	.26	.35	.29	.24	.29	.24	.21	.24	.20	.18	.19	.16	.14	.12
10.0	.35	.28	.23	.32	.26	.22	.27	.22	.19	.22	.19	.16	.17	.15	.13	.11



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2023-02-14

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.295T
Humidity:65.0%
Test Distance:9.460m [K=1.0571]
Remarks:

WEC AND CCEC

Test:U:220.7V I:0.2280A P:48.70W PF:0.9670 Lamp Flux:5891.83x1 lm					
NAME: NECO吊灯 微晶罩 上下发光			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.:			SUR.:1.126*49		Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.259	.147	.047	.233	.133	.042	.184	.106	.034	.139	.080	.026	.098	.057	.018		
2.0	.242	.132	.041	.218	.120	.037	.174	.097	.030	.133	.074	.023	.095	.054	.017		
3.0	.225	.120	.036	.203	.109	.033	.163	.088	.027	.125	.068	.021	.090	.050	.015		
4.0	.209	.109	.032	.189	.099	.029	.152	.081	.024	.117	.063	.019	.085	.046	.014		
5.0	.195	.099	.029	.177	.091	.026	.142	.074	.022	.110	.058	.017	.080	.043	.013		
6.0	.182	.091	.026	.165	.083	.024	.133	.068	.020	.103	.054	.016	.075	.040	.012		
7.0	.171	.084	.024	.155	.077	.022	.125	.063	.018	.097	.050	.015	.071	.037	.011		
8.0	.160	.078	.022	.146	.072	.020	.118	.059	.017	.092	.047	.013	.067	.035	.010		
9.0	.151	.073	.020	.137	.067	.019	.111	.055	.016	.087	.044	.012	.064	.032	.009		
10.0	.142	.068	.019	.130	.063	.017	.105	.052	.015	.082	.041	.012	.061	.031	.009		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.671	.671	.671	.573	.573	.573	.391	.391	.391	.225	.225	.225	.072	.072	.072	
1.0	.661	.641	.623	.566	.550	.536	.387	.378	.371	.223	.219	.216	.071	.070	.070	
2.0	.653	.620	.592	.559	.534	.511	.383	.369	.357	.221	.215	.209	.071	.069	.068	
3.0	.646	.604	.571	.554	.521	.495	.380	.362	.347	.220	.211	.205	.071	.069	.067	
4.0	.639	.593	.557	.549	.512	.484	.377	.357	.341	.218	.209	.201	.070	.068	.066	
5.0	.633	.583	.547	.544	.505	.476	.375	.353	.336	.217	.207	.199	.070	.068	.066	
6.0	.627	.576	.539	.539	.499	.470	.372	.349	.332	.216	.205	.198	.070	.067	.065	
7.0	.622	.570	.534	.535	.494	.465	.369	.346	.330	.215	.204	.196	.069	.067	.065	
8.0	.616	.565	.530	.531	.490	.462	.367	.344	.328	.214	.203	.195	.069	.067	.065	
9.0	.611	.561	.527	.527	.487	.459	.365	.342	.326	.213	.202	.195	.069	.066	.064	
10.0	.607	.557	.524	.523	.484	.457	.363	.340	.325	.212	.201	.194	.069	.066	.064	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2023-02-14

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.295T
 Humidity:65.0%
 Test Distance:9.460m [K=1.0571]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.7V I:0.2280A P:48.70W PF:0.9670 Lamp Flux:5891.83x1 lm											
NAME: NECO吊灯 微晶罩 上下发光					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.:					SUR.:1.126*49			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	15.7	16.5	16.7	17.5	18.8	15.5	16.3	16.5	17.3	18.5	
	3H	16.5	17.2	17.5	18.2	19.5	16.1	16.8	17.1	17.8	19.1
	4H	16.7	17.4	17.7	18.4	19.7	16.3	17.0	17.3	18.0	19.3
	6H	16.8	17.4	17.9	18.5	19.8	16.4	17.0	17.4	18.0	19.3
	8H	16.8	17.4	17.8	18.4	19.8	16.3	16.9	17.4	17.9	19.3
	12H	16.8	17.3	17.8	18.3	19.7	16.3	16.8	17.3	17.9	19.2
4H	2H	15.8	16.5	16.8	17.5	18.8	15.6	16.3	16.6	17.3	18.6
	3H	16.7	17.3	17.7	18.3	19.7	16.4	16.9	17.4	18.0	19.3
	4H	17.0	17.5	18.1	18.6	20.0	16.7	17.2	17.7	18.2	19.6
	6H	17.2	17.7	18.3	18.7	20.1	16.8	17.2	17.9	18.3	19.7
	8H	17.2	17.6	18.3	18.7	20.1	16.8	17.2	17.9	18.3	19.7
	12H	17.2	17.6	18.3	18.6	20.1	16.7	17.1	17.8	18.2	19.6
8H	4H	17.0	17.4	18.1	18.4	19.9	16.6	17.0	17.7	18.1	19.5
	6H	17.2	17.6	18.3	18.7	20.1	16.8	17.2	17.9	18.3	19.7
	8H	17.3	17.6	18.4	18.7	20.2	16.9	17.2	18.0	18.3	19.7
	12H	17.3	17.5	18.4	18.6	20.1	16.9	17.1	18.0	18.2	19.7
12H	4H	16.9	17.3	18.0	18.3	19.8	16.6	16.9	17.7	18.0	19.5
	6H	17.2	17.5	18.3	18.6	20.1	16.8	17.1	17.9	18.2	19.7
	8H	17.3	17.5	18.4	18.6	20.1	16.8	17.1	18.0	18.2	19.7
Variations with the observer position at spacings:											
S = 1.0H	+ 0.5 / - 0.6					+ 0.5 / - 0.6					
1.5H	+ 0.3 / - 0.4					+ 0.3 / - 0.4					
2.0H	+ 1.0 / - 0.7					+ 1.0 / - 0.8					

CIE Pub.117 Corrected 5892 lm Total Lamp Luminous Flux.(8log(F/F0) = 6.2)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2023-02-14

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.295T
 Humidity:65.0%
 Test Distance:9.460m [K=1.0571]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.2280A P:48.70W PF:0.9670 Lamp Flux:5891.83x1 lm		
NAME: NECO吊灯 微晶罩 上下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*49	Shielding Angle:

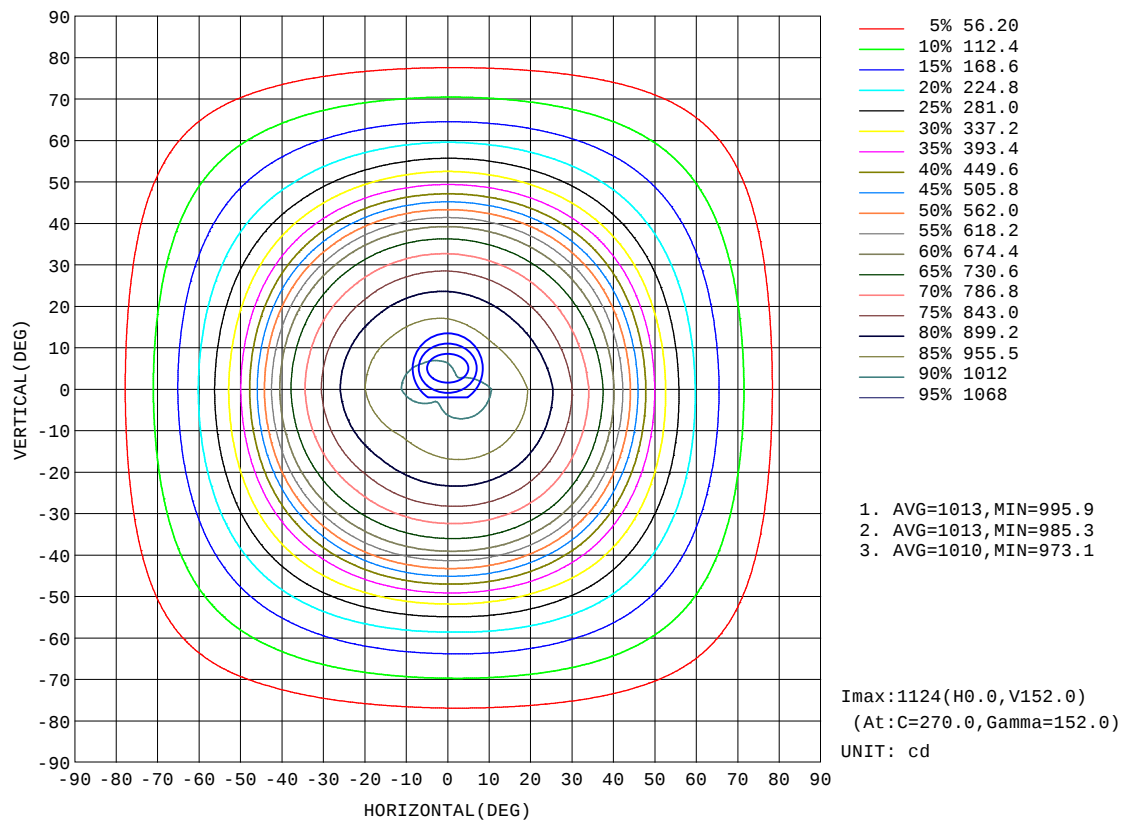
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	53	42	35	49	39	32	40	32	28	15
0.80	62	51	43	56	47	40	46	39	34	18
1.00	69	58	51	62	53	47	51	44	39	21
1.25	74	65	57	68	59	53	55	49	45	23
1.50	79	70	63	71	64	58	58	53	48	25
2.00	85	77	71	77	70	65	62	58	54	28
2.50	88	81	76	80	74	70	65	61	58	29
3.00	91	85	80	82	77	73	66	63	60	30
4.00	94	89	85	85	81	78	69	66	64	32
5.00	96	92	88	87	83	81	70	68	66	33
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Ceiling Mounted					SHRNOM = 1.00		

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2023-02-14

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.295T
 Humidity:65.0%
 Test Distance:9.460m [K=1.0571]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.7V I:0.2280A P:48.70W PF:0.9670 Lamp Flux:5891.83x1 lm		
NAME: NECO吊灯 微晶罩 上下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*49	Shielding Angle:



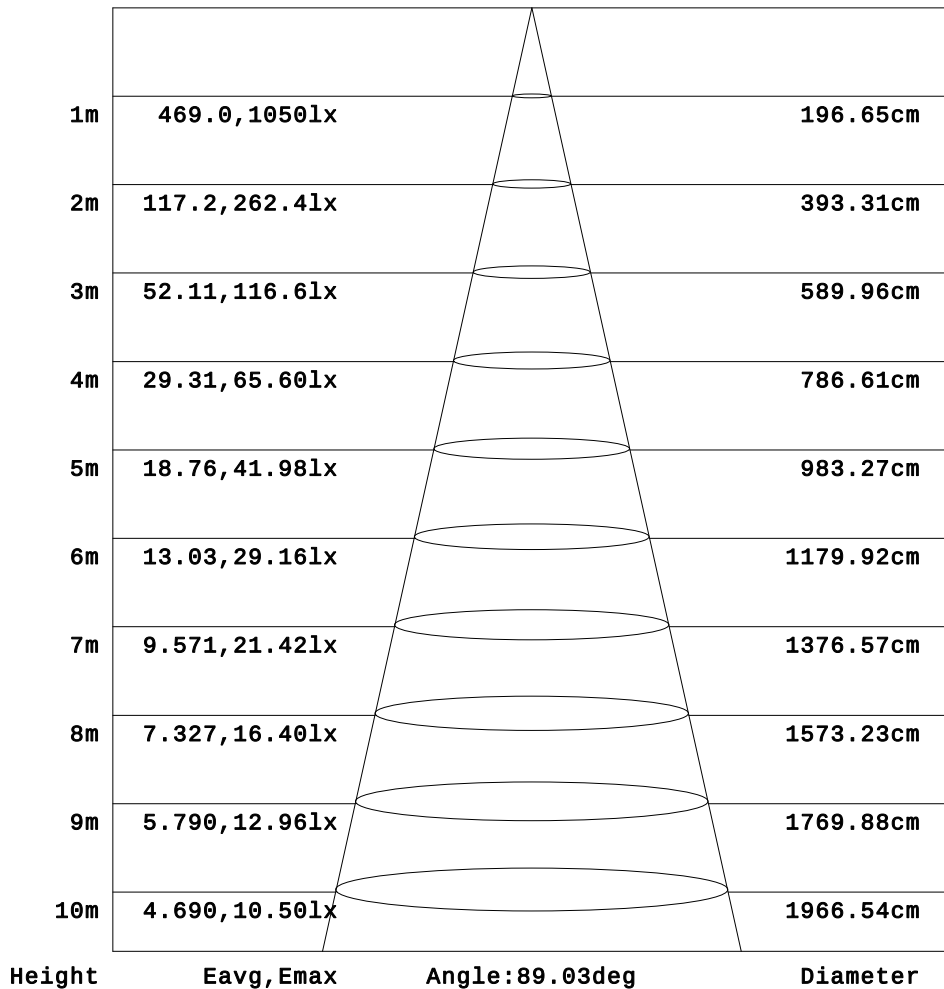
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date: 2023-02-14

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-2000_V1 SYSTEM V2.0.295T
Humidity: 65.0%
Test Distance: 9.460m [K=1.0571]
Remarks:

AAI Figure

Test:U:220.7V I:0.2280A P:48.70W PF:0.9670 Lamp Flux:5891.83x1 lm		
NAME: NEC0吊灯 微晶罩 上下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*49	Shielding Angle:

Flux out:1473 lm



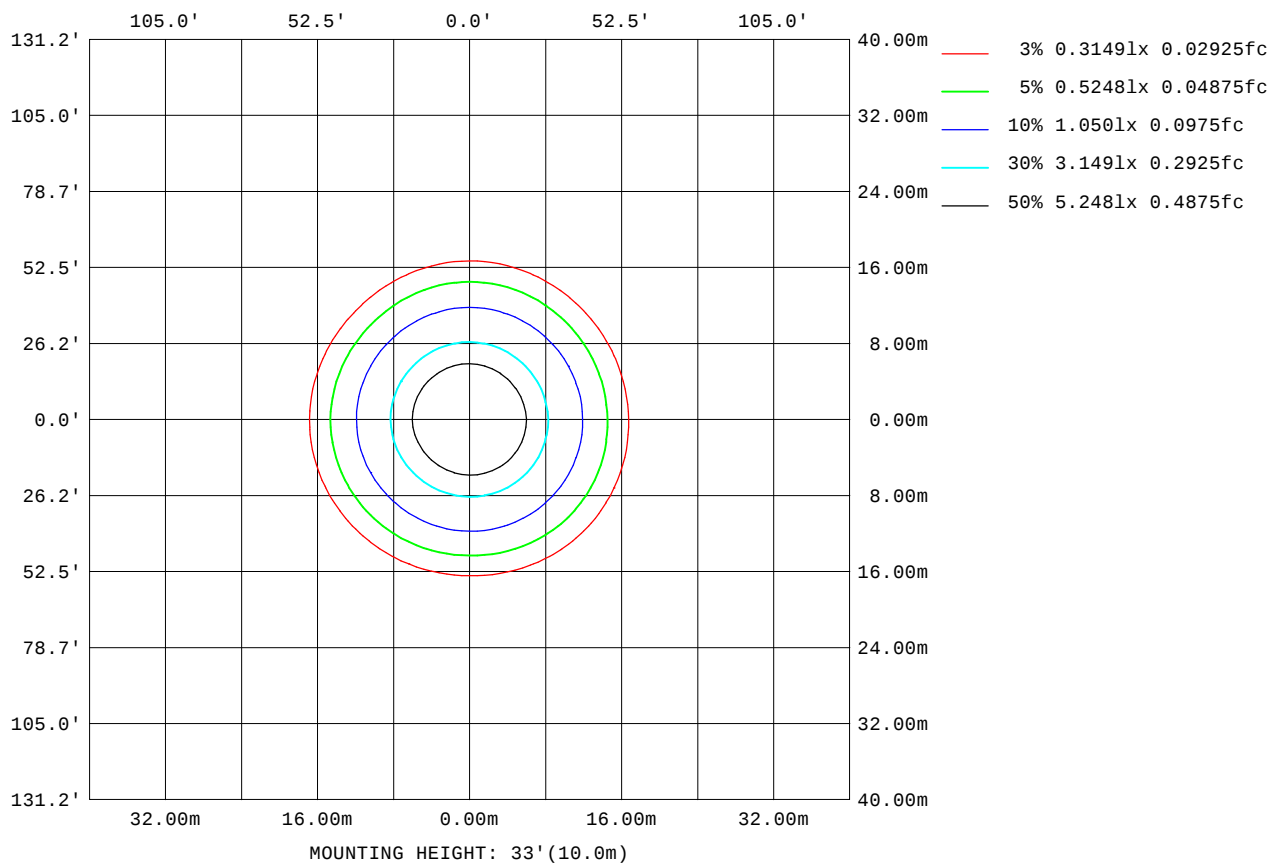
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-02-14

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-2000_V1 SYSTEM V2.0.295T
 Humidity: 65.0%
 Test Distance: 9.460m [K=1.0571]
 Remarks:

ISOLUX DIAGRAM

Test:U:220.7V I:0.2280A P:48.70W PF:0.9670 Lamp Flux:5891.83x1 lm		
NAME: NECO吊灯 微晶罩 上下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*49	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date: 2023-02-14

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-2000_V1 SYSTEM V2.0.295T
Humidity: 65.0%
Test Distance: 9.460m [K=1.0571]
Remarks:

LED Avg.L Report

Test:U:220.7V I:0.2280A P:48.70W PF:0.9670 Lamp Flux:5891.83x1 lm		
NAME: NECO吊灯 微晶罩 上下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*49	Shielding Angle:

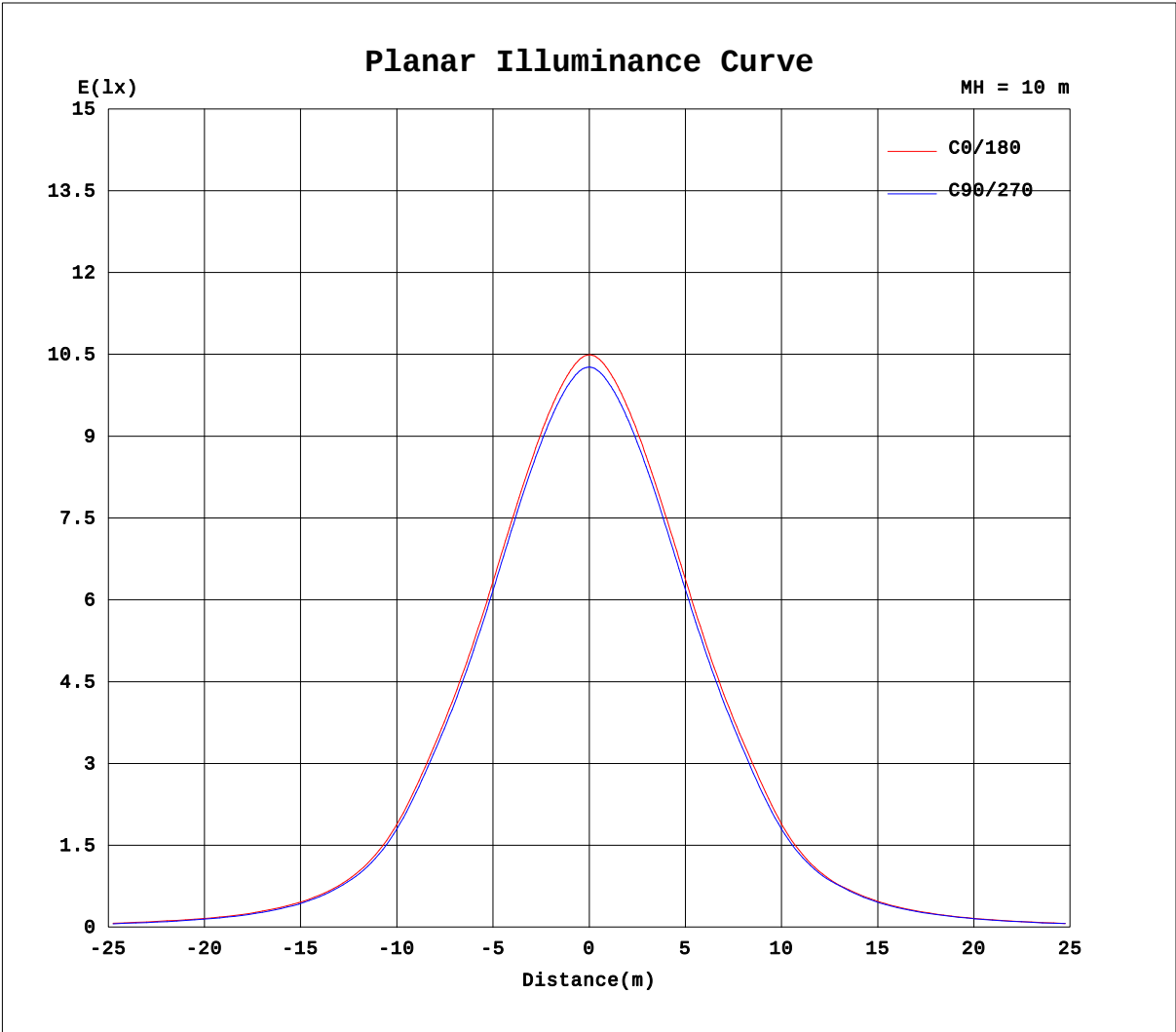
AvgL	cd/m2
L_0~180(65)av	7384
L_0~180(75)av	5672
L_0~180(85)av	2636
L_90~270(65)av	6894
L_90~270(75)av	5112
L_90~270(85)av	2868
L_45(65)av	7072
L_45(75)av	5185
L_45(85)av	2752

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2023-02-14

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.295T
Humidity:65.0%
Test Distance:9.460m [K=1.0571]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2023-02-14

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.295T
Humidity:65.0%
Test Distance:9.460m [K=1.0571]
Remarks: