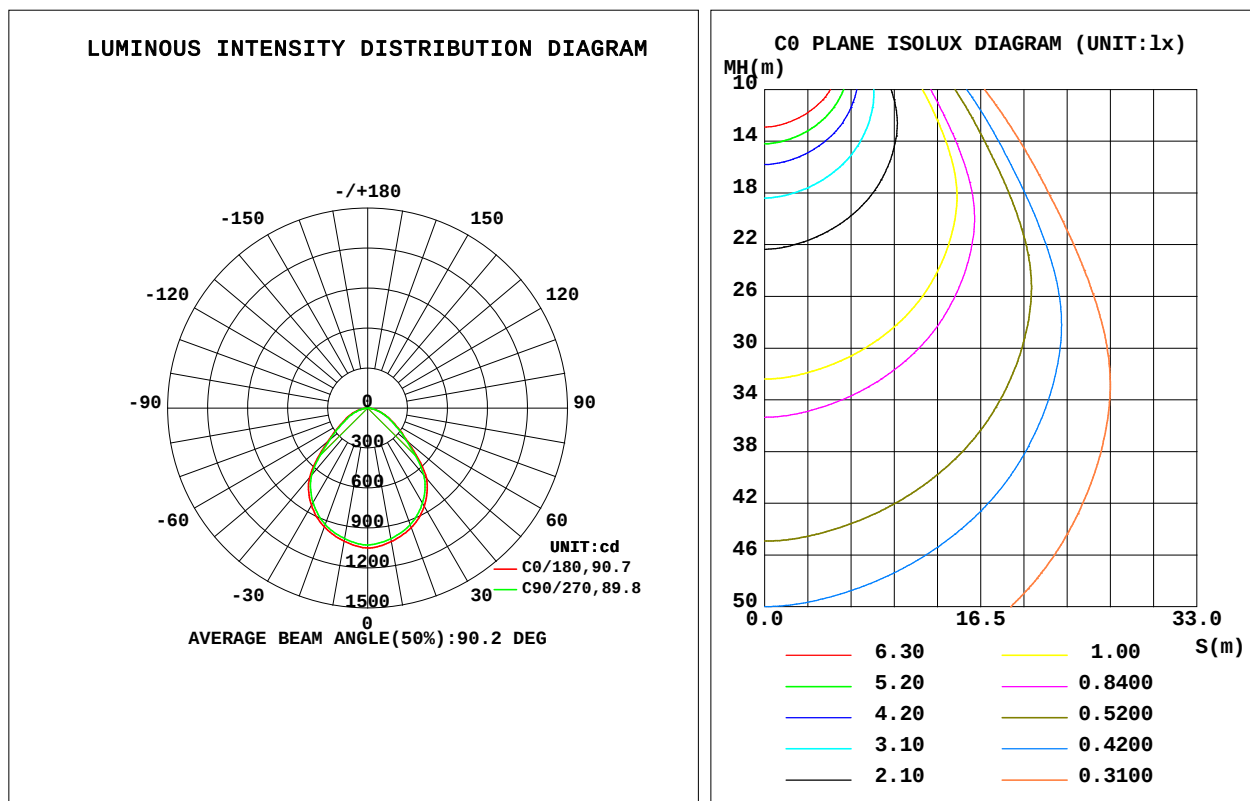


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.7V I:0.2280A P:48.70W PF:0.9670 Lamp Flux:2177.93x1 lm		
NAME: NEC0吊灯 微晶罩 下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*49	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 44.72 lm/W			
MODEL		I _{max} (cd)	1050	S/MH(C0/180)	1.21
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.20
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2177.9	η UP, DN(C0-180)	0.0,50.0
NOMINAL FLUX(lm)	2177.93	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,50.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.30



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-02-14

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295T
Humidity:65.0%
Test Distance:9.460m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	ϕ zone	ϕ total	%lum, lamp
10	1015	1007	995.1	988.2	1018	1005	995.2	986.4	0- 10	96.93	96.93	4.45, 4.45
20	949.9	945.8	931.4	926.0	954.6	942.0	932.5	923.2	10- 20	274.6	371.6	17.1, 17.1
30	843.5	838.1	820.5	820.5	849.8	831.9	823.4	817.6	20- 30	409.7	781.3	35.9, 35.9
40	678.5	674.0	654.2	657.9	687.7	663.0	655.0	653.3	30- 40	472.6	1254	57.6, 57.6
50	392.3	390.7	374.4	376.7	391.6	378.5	378.7	379.7	40- 50	400.9	1655	76, 76
60	221.4	225.0	206.5	216.3	227.4	212.8	218.8	214.2	50- 60	262.5	1917	88, 88
70	125.8	118.5	110.3	111.6	121.7	116.6	115.9	119.1	60- 70	163.4	2081	95.5, 95.5
80	43.87	39.03	36.81	34.84	40.02	37.80	39.52	41.09	70- 80	80.39	2161	99.2, 99.2
90	0.9047	0.8528	0.8010	0.8125	0.9220	0.8413	0.8759	1.210	80- 90	16.89	2178	100, 100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1474 lm

%lum = 67.7%
 %lamp = 67.7%

Conical surface Flux(120deg): 1917.2 lm

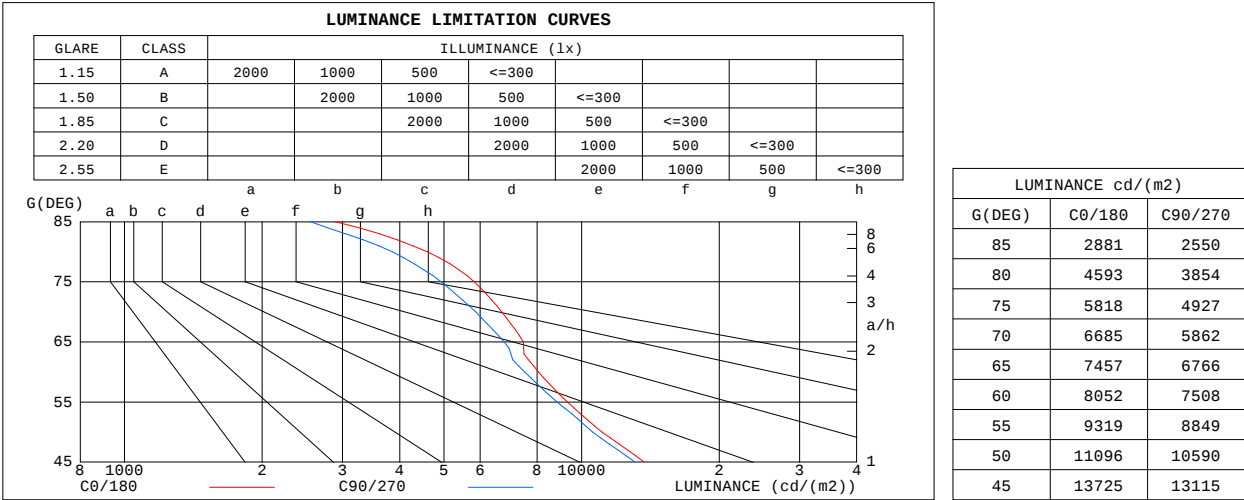
%lum = 88.0%
 %lamp = 88.0%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-02-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.295T
 Humidity: 65.0%
 Test Distance: 9.460m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.7V I:0.2280A P:48.70W PF:0.9670 Lamp Flux:2177.93x1 lm		
NAME: NEC0吊灯 微晶罩 下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*49	Shielding Angle:



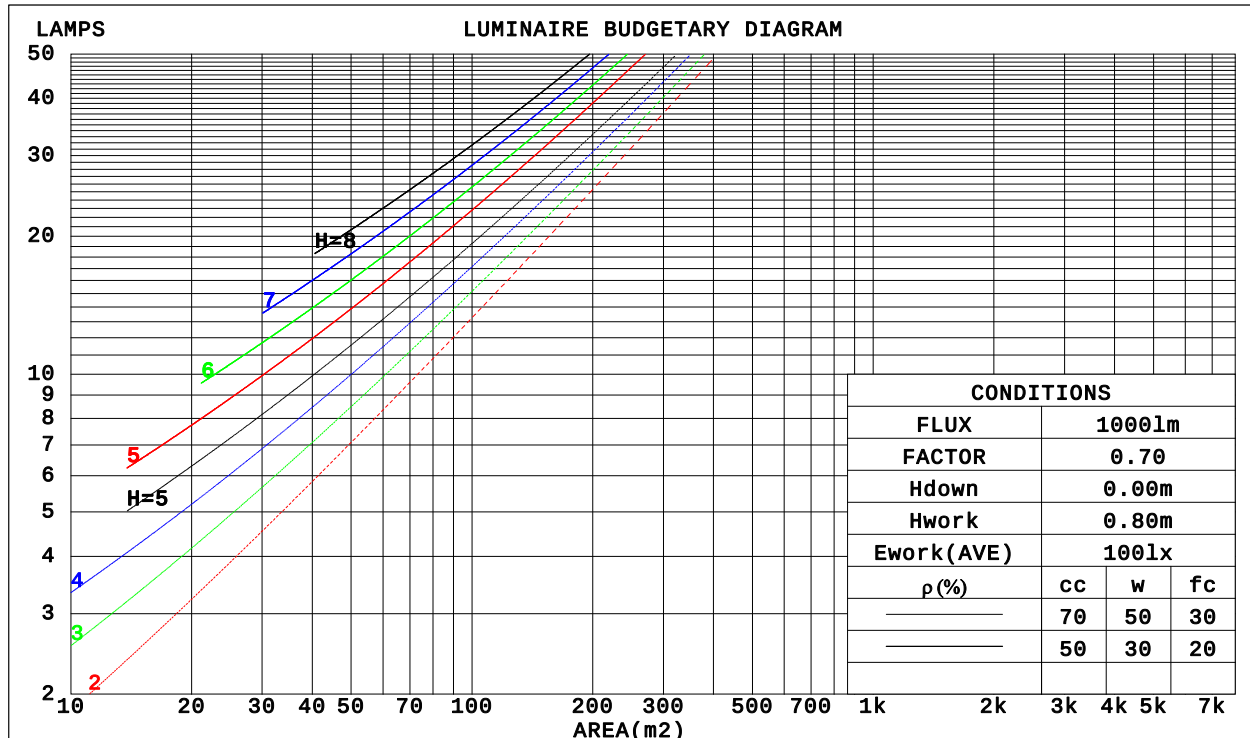
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-02-14

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295T
Humidity:65.0%
Test Distance:9.460m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.2280A P:48.70W PF:0.9670 Lamp Flux:2177.93x1 lm		
NAME: NECO吊灯 微晶罩 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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.06	1.03	.90	1.04	1.01	.98	1.00	.97	.95	.96	.94	.92	.93	.91	.89	.87
2.0	.95	.89	.84	.93	.87	.83	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3.0	.85	.77	.72	.83	.76	.71	.80	.75	.70	.78	.73	.69	.75	.71	.68	.66
4.0	.76	.68	.62	.75	.68	.62	.72	.66	.61	.70	.65	.60	.68	.63	.59	.57
5.0	.69	.61	.55	.68	.60	.54	.66	.59	.54	.64	.58	.53	.62	.57	.53	.51
6.0	.63	.54	.49	.62	.54	.48	.60	.53	.48	.58	.52	.48	.57	.51	.47	.45
7.0	.57	.49	.43	.56	.49	.43	.55	.48	.43	.54	.47	.43	.52	.47	.42	.41
8.0	.52	.45	.39	.52	.44	.39	.51	.44	.39	.49	.43	.39	.48	.43	.38	.37
9.0	.48	.41	.36	.48	.40	.35	.47	.40	.35	.46	.40	.35	.45	.39	.35	.33
10.0	.45	.37	.32	.44	.37	.32	.43	.37	.32	.43	.36	.32	.42	.36	.32	.30



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-02-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295T
Humidity:65.0%
Test Distance:9.460m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:220.7V I:0.2280A P:48.70W PF:0.9670 Lamp Flux:2177.93x1 lm					
NAME: NECO吊灯 微晶罩 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	.261	.148	.047	.254	.145	.046	.241	.138	.044	.229	.132	.042	.218	.126	.041				
2.0	.251	.137	.042	.245	.135	.042	.233	.130	.040	.223	.125	.039	.213	.121	.038				
3.0	.236	.126	.038	.231	.124	.037	.221	.120	.036	.212	.116	.036	.203	.112	.035				
4.0	.221	.115	.034	.216	.113	.033	.208	.110	.033	.199	.107	.032	.192	.104	.032				
5.0	.207	.105	.031	.203	.104	.030	.195	.102	.030	.188	.099	.029	.181	.097	.029				
6.0	.194	.097	.028	.190	.096	.028	.183	.094	.027	.177	.092	.027	.171	.090	.027				
7.0	.182	.090	.026	.179	.089	.025	.173	.087	.025	.167	.086	.025	.162	.084	.025				
8.0	.172	.084	.024	.169	.083	.023	.163	.082	.023	.158	.080	.023	.153	.079	.023				
9.0	.162	.078	.022	.159	.078	.022	.154	.076	.022	.150	.075	.021	.145	.074	.021				
10.0	.153	.073	.020	.151	.073	.020	.146	.072	.020	.142	.071	.020	.138	.069	.020				

ρcc	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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.177	.157	.138	.151	.134	.119	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.167	.132	.103	.143	.114	.089	.098	.079	.062	.056	.046	.036	.018	.015	.012	
3.0	.158	.114	.079	.135	.098	.069	.093	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.150	.100	.063	.129	.087	.054	.088	.060	.038	.051	.035	.023	.016	.012	.007	
5.0	.143	.090	.051	.122	.078	.044	.084	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.136	.081	.042	.117	.070	.037	.080	.049	.026	.047	.029	.015	.015	.009	.005	
7.0	.129	.074	.035	.111	.064	.031	.077	.045	.022	.045	.027	.013	.014	.009	.004	
8.0	.123	.068	.030	.106	.059	.027	.073	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.118	.063	.027	.101	.055	.023	.070	.039	.016	.041	.023	.010	.013	.007	.003	
10.0	.112	.059	.024	.097	.051	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-02-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295T
 Humidity:65.0%
 Test Distance:9.460m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.7V I:0.2280A P:48.70W PF:0.9670 Lamp Flux:2177.93x1 lm											
NAME: NECO吊灯 微晶罩 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	2H	20.2	21.6	20.5	21.8	21.9	20.0	21.4	20.3	21.5	21.7
	3H	21.1	22.3	21.4	22.6	22.8	20.8	22.0	21.1	22.2	22.5
	4H	21.4	22.6	21.7	22.8	23.1	21.0	22.2	21.3	22.5	22.7
	6H	21.6	22.7	21.9	23.0	23.3	21.2	22.3	21.5	22.6	22.8
	8H	21.7	22.7	22.0	23.0	23.3	21.2	22.3	21.5	22.6	22.8
	12H	21.6	22.7	22.0	23.0	23.3	21.2	22.2	21.5	22.5	22.8
4H	2H	20.5	21.7	20.8	21.9	22.2	20.3	21.5	20.6	21.8	22.0
	3H	21.6	22.6	21.9	22.9	23.2	21.3	22.3	21.6	22.6	22.9
	4H	22.0	23.0	22.4	23.3	23.6	21.7	22.6	22.0	22.9	23.3
	6H	22.3	23.1	22.7	23.5	23.8	21.9	22.7	22.3	23.1	23.4
	8H	22.4	23.2	22.8	23.5	23.9	22.0	22.7	22.4	23.1	23.5
	12H	22.4	23.1	22.8	23.5	23.9	22.0	22.7	22.4	23.1	23.5
8H	4H	22.1	22.9	22.5	23.3	23.6	21.8	22.6	22.2	22.9	23.3
	6H	22.5	23.1	22.9	23.5	24.0	22.1	22.8	22.6	23.2	23.6
	8H	22.6	23.2	23.1	23.6	24.1	22.2	22.8	22.7	23.2	23.7
	12H	22.7	23.2	23.2	23.6	24.1	22.3	22.7	22.7	23.2	23.7
12H	4H	22.1	22.8	22.5	23.2	23.6	21.8	22.5	22.2	22.9	23.3
	6H	22.5	23.1	23.0	23.5	23.9	22.1	22.7	22.6	23.1	23.6
	8H	22.6	23.1	23.1	23.6	24.0	22.3	22.7	22.7	23.2	23.7
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 2178 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.7)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-02-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295T
 Humidity:65.0%
 Test Distance:9.460m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.2280A P:48.70W PF:0.9670 Lamp Flux:2177.93x1 lm		
NAME: NECO吊灯 微晶罩 下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*49	Shielding Angle:

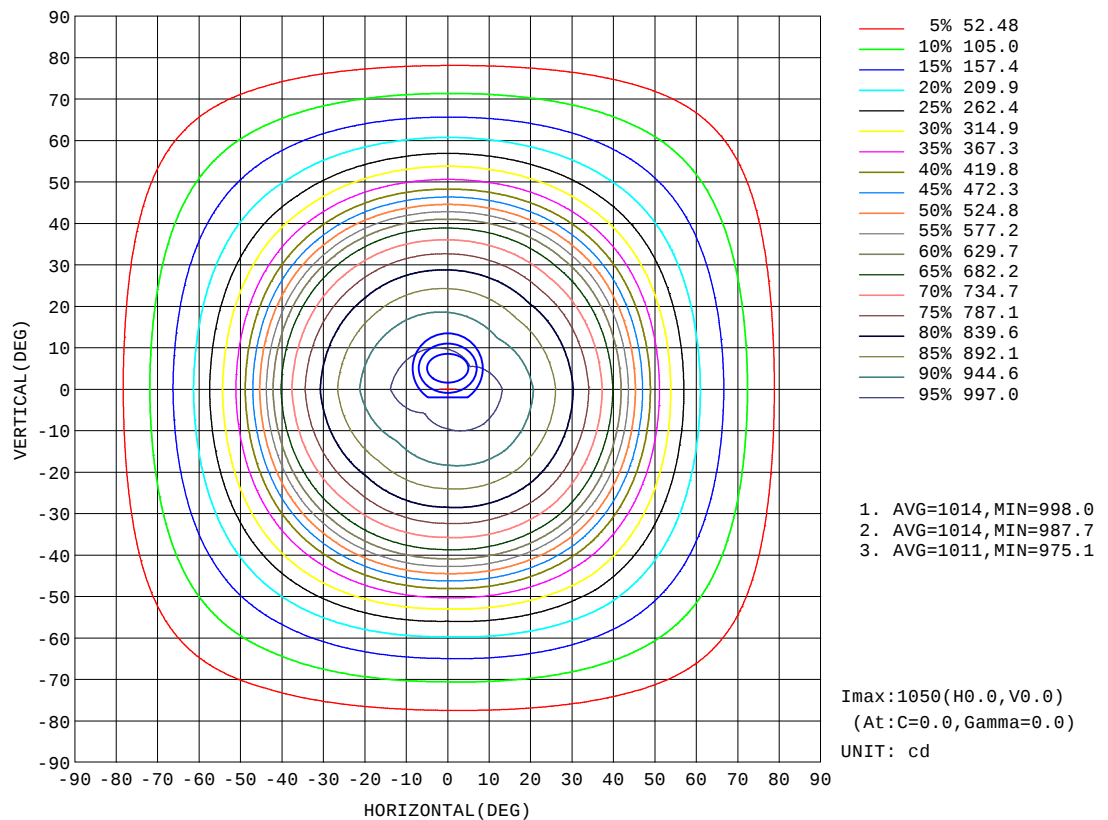
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	67	55	48	66	54	47	63	53	47	40
0.80	76	65	57	75	64	57	72	62	56	49
1.00	84	73	65	82	72	65	78	70	64	56
1.25	90	80	73	88	79	72	84	77	71	63
1.50	94	86	79	92	84	78	88	82	76	68
2.00	101	93	88	98	92	87	94	89	84	76
2.50	104	98	92	102	96	91	97	92	88	79
3.00	106	101	96	104	99	95	99	95	92	82
4.00	109	105	101	107	103	99	102	99	96	86
5.00	111	107	104	109	105	102	104	101	99	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Ceiling Mounted					SHRNOM = 1.00		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-02-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295T
 Humidity:65.0%
 Test Distance:9.460m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.7V I:0.2280A P:48.70W PF:0.9670 Lamp Flux:2177.93x1 lm		
NAME: NECO吊灯 微晶罩 下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*49	Shielding Angle:

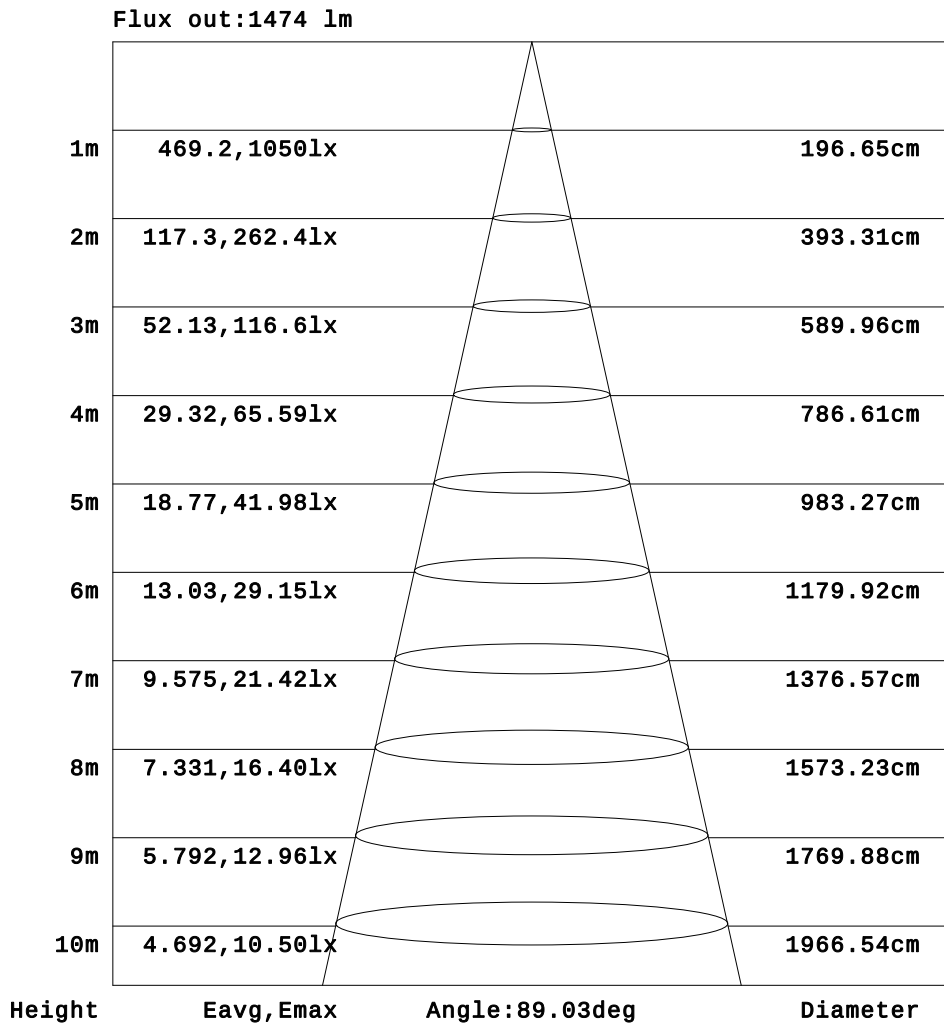


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-02-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295T
Humidity:65.0%
Test Distance:9.460m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.7V I:0.2280A P:48.70W PF:0.9670 Lamp Flux:2177.93x1 lm		
NAME: NEC0吊灯 微晶罩 下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*49	Shielding Angle:



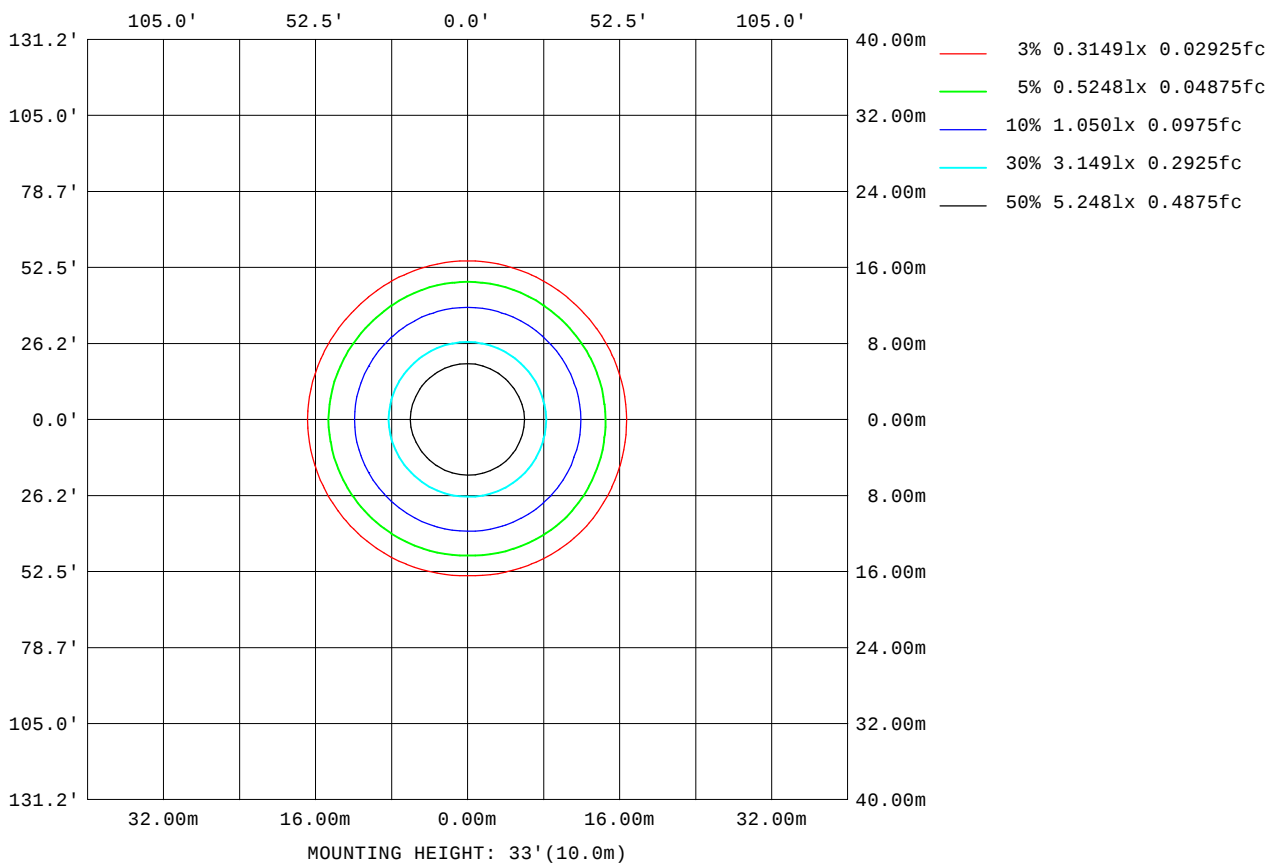
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-02-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.295T
 Humidity: 65.0%
 Test Distance: 9.460m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:220.7V I:0.2280A P:48.70W PF:0.9670 Lamp Flux:2177.93x1 lm		
NAME: NECO吊灯 微晶罩 下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*49	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-02-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.295T
Humidity: 65.0%
Test Distance: 9.460m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.7V I:0.2280A P:48.70W PF:0.9670 Lamp Flux:2177.93x1 lm		
NAME: NECO吊灯 微晶罩 下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*49	Shielding Angle:

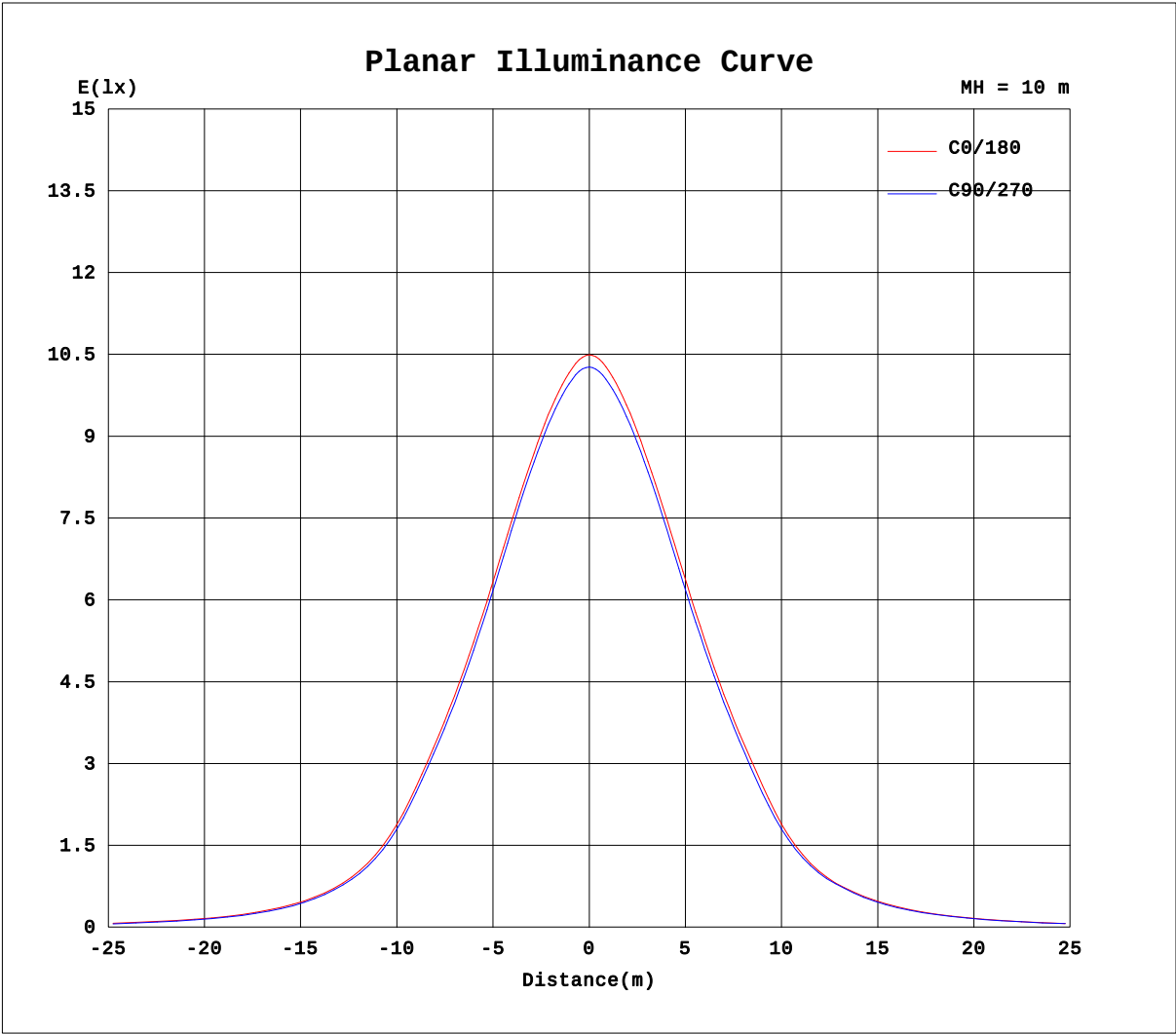
AvgL	cd/m2
L_0~180(65)av	7384
L_0~180(75)av	5672
L_0~180(85)av	2636
L_90~270(65)av	6894
L_90~270(75)av	5112
L_90~270(85)av	2868
L_45(65)av	7072
L_45(75)av	5185
L_45(85)av	2752

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-02-14

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295T
Humidity:65.0%
Test Distance:9.460m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-02-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295T
Humidity:65.0%
Test Distance:9.460m [K=1.0000]
Remarks: