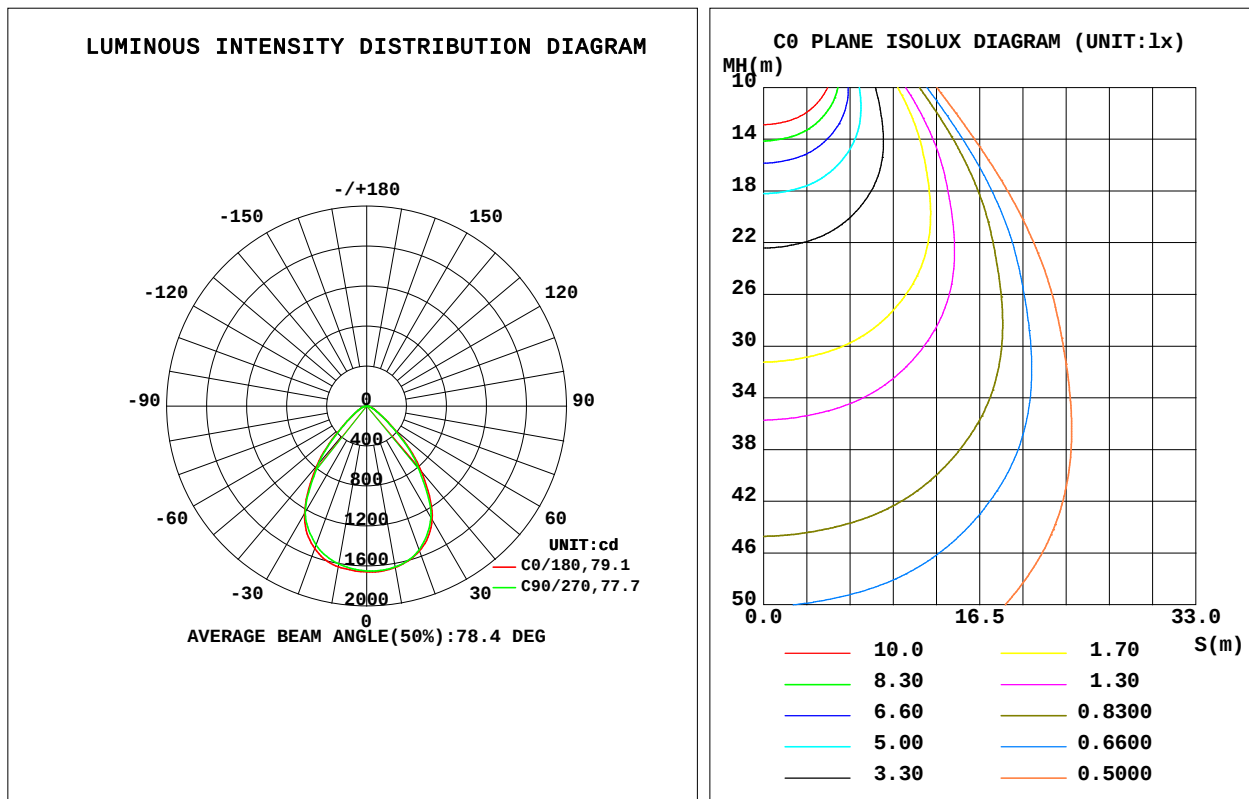


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.7V I:0.2270A P:48.60W PF:0.9670 Lamp Flux:2679.92x1 lm		
NAME: NEC0吊灯 格栅+微晶罩 下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*0.049	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 55.14 lm/W			
MODEL		I _{max} (cd)	1660	S/MH(C0/180)	1.15
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.13
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2679.9	η UP, DN(C0-180)	0.0,48.9
NOMINAL FLUX(lm)	2679.92	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,51.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.15



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	1633	1609	1605	1605	1639	1629	1634	1622	0- 10	156.3	156.3	5.83, 5.83
20	1518	1518	1479	1523	1543	1548	1533	1537	10- 20	446.6	602.9	22.5, 22.5
30	1245	1269	1231	1302	1312	1330	1288	1291	20- 30	654.6	1258	46.9, 46.9
40	773.4	783.2	747.6	824.7	848.2	862.7	803.2	813.4	30- 40	656.3	1914	71.4, 71.4
50	309.9	330.7	304.3	354.9	369.1	370.7	352.2	343.1	40- 50	429.4	2343	87.4, 87.4
60	123.4	133.2	124.7	142.1	137.8	147.0	131.6	137.3	50- 60	195.4	2539	94.7, 94.7
70	59.25	59.28	59.46	63.30	66.23	62.92	58.90	58.59	60- 70	91.37	2630	98.1, 98.1
80	18.91	18.51	19.45	20.34	22.72	20.70	20.05	18.39	70- 80	41.06	2671	99.7, 99.7
90	0.9508	0.9738	0.6339	0.6339	0.9566	0.7837	0.6396	0.6569	80- 90	8.839	2680	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): 2165.2 lm

%lum = 80.8%
 %lamp = 80.8%

Conical surface Flux(120deg): 2538.6 lm

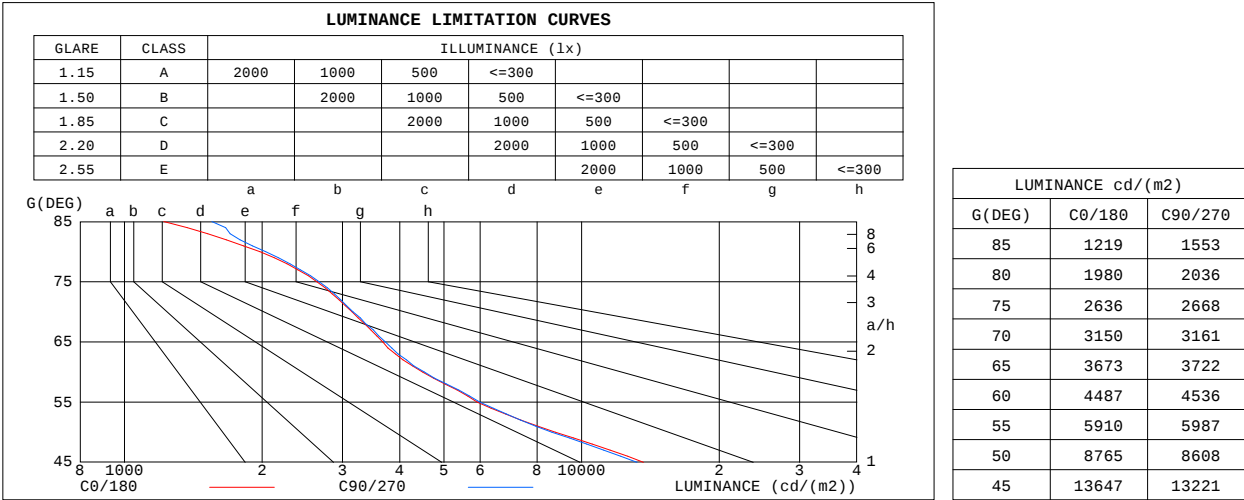
%lum = 94.7%
 %lamp = 94.7%

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 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:0.2270A P:48.60W PF:0.9670 Lamp Flux:2679.92x1 lm		
NAME: NEC0吊灯 格栅+微晶罩 下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*0.049	Shielding Angle:



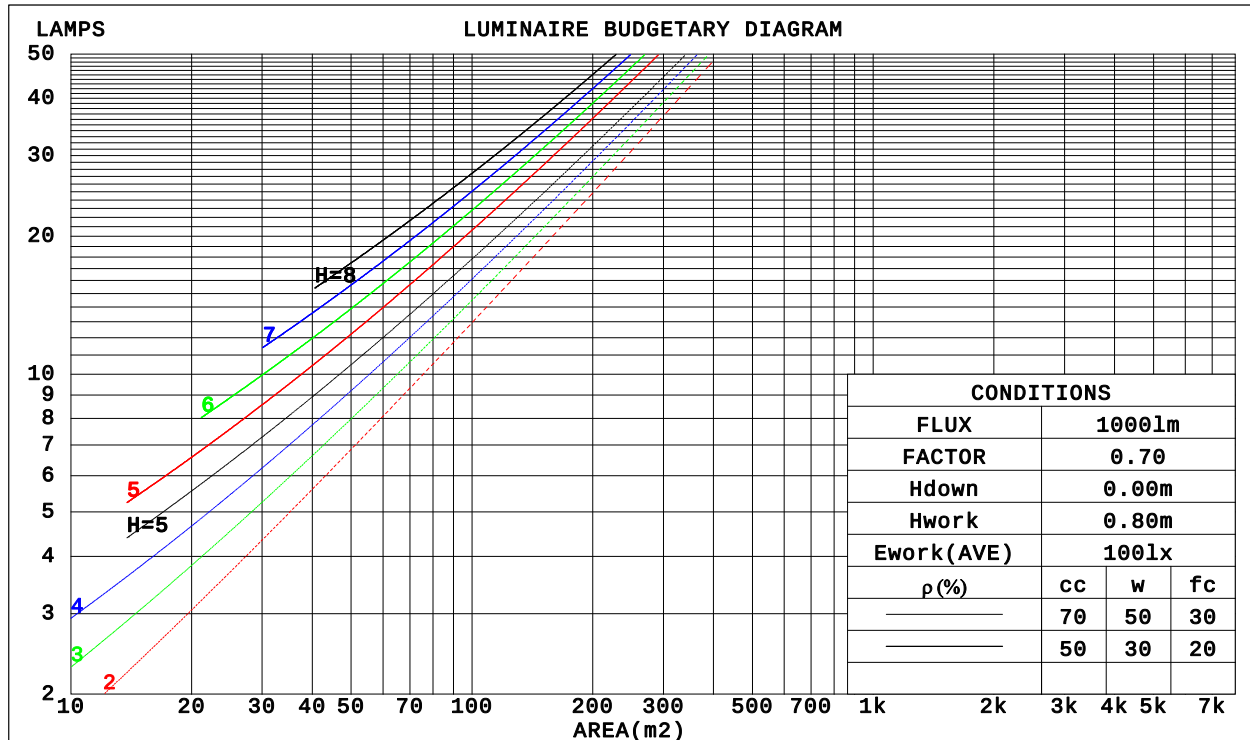
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-02-14

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:0.2270A P:48.60W PF:0.9670 Lamp Flux:2679.92x1 lm		
NAME: NECO吊灯 格栅+微晶罩 下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*0.049	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	1.08	1.05	1.02	1.06	1.03	1.01	1.02	.99	.98	.98	.96	.95	.95	.93	.92	.90
2.0	.98	.93	.89	.97	.92	.88	.93	.89	.86	.90	.87	.84	.87	.85	.82	.80
3.0	.89	.83	.78	.88	.82	.78	.85	.80	.76	.83	.78	.75	.80	.77	.74	.72
4.0	.82	.75	.69	.80	.74	.69	.78	.72	.68	.76	.71	.67	.74	.70	.66	.65
5.0	.75	.67	.62	.74	.67	.62	.72	.66	.61	.70	.65	.61	.68	.64	.60	.58
6.0	.69	.61	.56	.68	.61	.56	.66	.60	.55	.65	.59	.55	.63	.58	.55	.53
7.0	.63	.56	.51	.63	.56	.51	.61	.55	.50	.60	.54	.50	.59	.54	.50	.48
8.0	.59	.51	.46	.58	.51	.46	.57	.51	.46	.56	.50	.46	.55	.49	.46	.44
9.0	.54	.47	.43	.54	.47	.43	.53	.47	.42	.52	.46	.42	.51	.46	.42	.40
10.0	.51	.44	.39	.50	.44	.39	.49	.43	.39	.49	.43	.39	.48	.43	.39	.37



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:

WEC AND CCEC

Test:U:220.7V I:0.2270A P:48.60W PF:0.9670 Lamp Flux:2679.92x1 lm					
NAME: NECO吊灯 格栅+微晶罩 下发光			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.:			SUR.:1.126*0.049		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	.223	.127	.040	.216	.123	.039	.204	.117	.037	.192	.111	.035	.181	.105	.034				
2.0	.216	.118	.036	.210	.116	.036	.199	.111	.034	.189	.106	.033	.180	.102	.032				
3.0	.205	.109	.033	.200	.107	.032	.191	.103	.031	.182	.100	.031	.174	.096	.030				
4.0	.195	.101	.030	.190	.100	.029	.182	.096	.029	.174	.093	.028	.167	.091	.028				
5.0	.184	.094	.027	.180	.093	.027	.173	.090	.026	.166	.088	.026	.160	.085	.026				
6.0	.174	.087	.025	.171	.086	.025	.164	.084	.024	.158	.082	.024	.152	.080	.024				
7.0	.165	.082	.023	.162	.081	.023	.156	.079	.023	.151	.077	.022	.146	.076	.022				
8.0	.157	.077	.022	.154	.076	.021	.149	.074	.021	.144	.073	.021	.139	.071	.021				
9.0	.149	.072	.020	.146	.071	.020	.142	.070	.020	.137	.069	.020	.133	.068	.020				
10.0	.142	.068	.019	.140	.067	.019	.135	.066	.019	.131	.065	.019	.127	.064	.018				

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.174	.157	.141	.149	.135	.122	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.162	.132	.107	.139	.114	.093	.095	.079	.065	.055	.046	.038	.018	.015	.012	
3.0	.152	.114	.083	.130	.098	.072	.089	.068	.051	.052	.040	.030	.017	.013	.010	
4.0	.143	.100	.066	.123	.086	.058	.085	.060	.041	.049	.035	.024	.016	.011	.008	
5.0	.136	.089	.054	.117	.077	.047	.080	.054	.033	.047	.031	.020	.015	.010	.006	
6.0	.129	.080	.045	.111	.069	.039	.076	.048	.028	.044	.029	.016	.014	.009	.005	
7.0	.123	.073	.038	.106	.063	.033	.073	.044	.023	.042	.026	.014	.014	.009	.005	
8.0	.117	.067	.032	.101	.058	.028	.070	.041	.020	.041	.024	.012	.013	.008	.004	
9.0	.112	.062	.028	.096	.054	.025	.067	.038	.017	.039	.022	.010	.013	.007	.003	
10.0	.107	.058	.025	.092	.050	.022	.064	.035	.015	.037	.021	.009	.012	.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:0.2270A P:48.60W PF:0.9670 Lamp Flux:2679.92x1 lm											
NAME: NECO吊灯 格栅+微晶罩 下发光					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.:					SUR.:1.126*0.049			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	19.6	18.6	19.8	19.9	18.3	19.5	18.6	19.7	19.9	
	3H	18.6	19.7	18.9	19.9	20.1	18.5	19.6	18.8	19.9	20.1
	4H	18.6	19.7	18.9	19.9	20.2	18.6	19.7	18.9	19.9	20.1
	6H	18.7	19.6	19.0	19.9	20.2	18.6	19.6	18.9	19.9	20.1
	8H	18.6	19.6	19.0	19.8	20.1	18.6	19.6	18.9	19.8	20.1
	12H	18.6	19.5	18.9	19.8	20.1	18.6	19.5	18.9	19.8	20.1
4H	2H	18.4	19.4	18.7	19.7	19.9	18.3	19.4	18.6	19.6	19.9
	3H	18.7	19.6	19.0	19.9	20.2	18.7	19.6	19.0	19.8	20.1
	4H	18.8	19.6	19.2	20.0	20.3	18.8	19.6	19.2	19.9	20.2
	6H	18.9	19.6	19.3	20.0	20.3	18.9	19.6	19.3	19.9	20.3
	8H	18.9	19.6	19.3	19.9	20.3	18.9	19.6	19.3	19.9	20.3
	12H	18.9	19.5	19.3	19.9	20.3	18.9	19.5	19.3	19.9	20.3
8H	4H	18.8	19.5	19.2	19.8	20.2	18.8	19.5	19.2	19.8	20.2
	6H	18.9	19.5	19.4	19.9	20.3	18.9	19.5	19.3	19.9	20.3
	8H	19.0	19.4	19.4	19.9	20.3	18.9	19.4	19.4	19.8	20.3
	12H	19.0	19.4	19.4	19.8	20.3	19.0	19.4	19.4	19.8	20.3
12H	4H	18.8	19.4	19.2	19.8	20.2	18.8	19.4	19.2	19.7	20.1
	6H	18.9	19.4	19.4	19.8	20.3	18.9	19.4	19.3	19.8	20.2
	8H	18.9	19.4	19.4	19.8	20.3	18.9	19.3	19.4	19.8	20.3
Variations with the observer position at spacings:											
S = 1.0H	+ 1.3 / - 2.1					+ 1.3 / - 2.0					
1.5H	+ 1.7 / - 1.7					+ 1.6 / - 1.6					
2.0H	+ 3.0 / - 2.0					+ 2.8 / - 1.9					

CIE Pub.117 Corrected 2680 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.4)

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:0.2270A P:48.60W PF:0.9670 Lamp Flux:2679.92x1 lm		
NAME: NECO吊灯 格栅+微晶罩 下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*0.049	Shielding Angle:

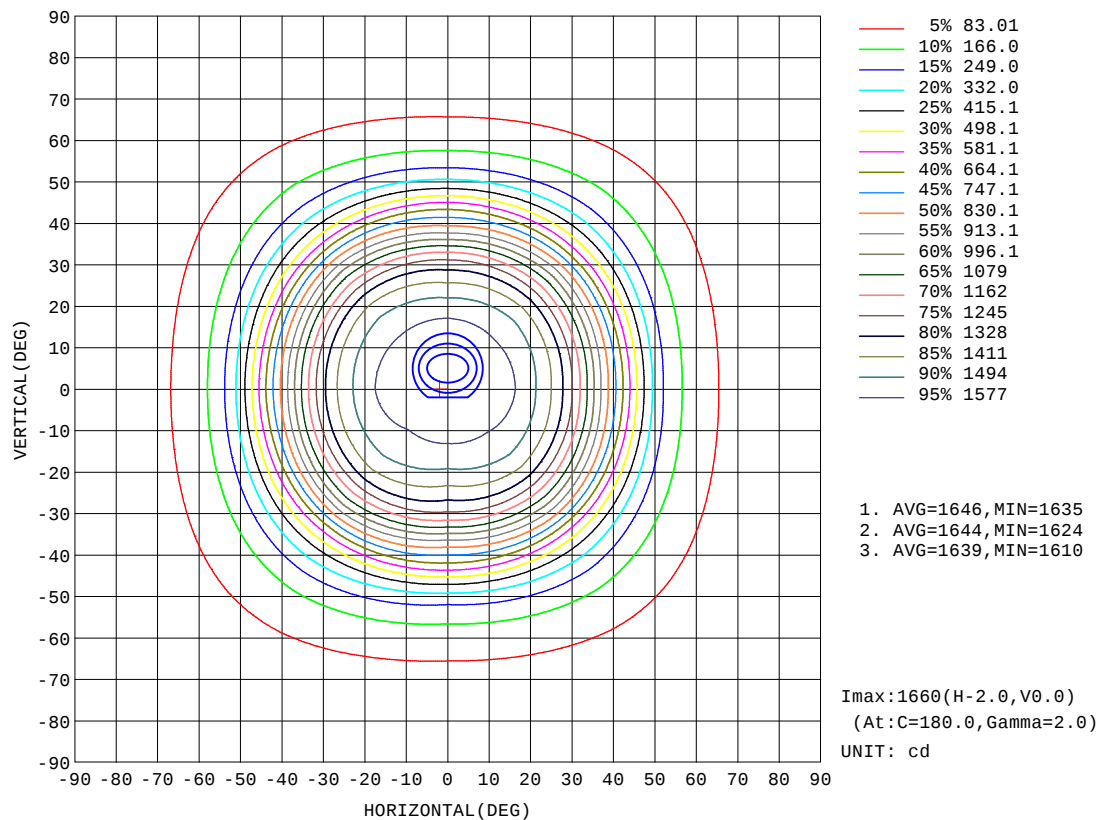
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	74	64	58	73	64	57	71	62	57	51
0.80	83	73	66	81	72	66	79	71	65	59
1.00	89	80	74	88	79	73	85	78	72	66
1.25	95	87	81	93	86	80	90	83	79	71
1.50	99	92	86	97	90	85	93	88	83	76
2.00	105	99	94	102	97	93	98	94	91	83
2.50	107	102	97	105	100	96	101	97	94	85
3.00	109	104	100	107	102	99	102	99	96	88
4.00	111	108	105	109	106	103	104	102	100	91
5.00	113	110	107	110	108	105	106	104	102	92
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:0.2270A P:48.60W PF:0.9670 Lamp Flux:2679.92x1 lm		
NAME: NECO吊灯 格栅+微晶罩 下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*0.049	Shielding Angle:

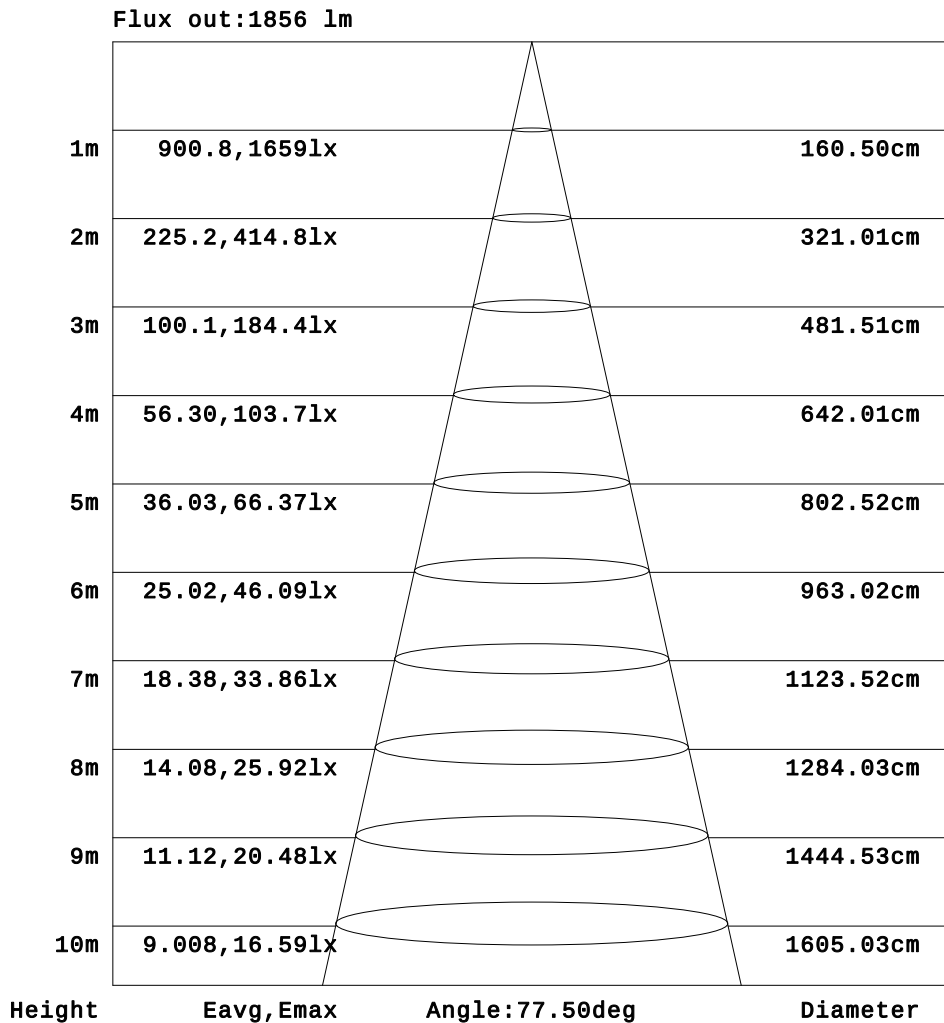


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-02-14

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:0.2270A P:48.60W PF:0.9670 Lamp Flux:2679.92x1 lm		
NAME: NEC0吊灯 格栅+微晶罩 下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*0.049	Shielding Angle:



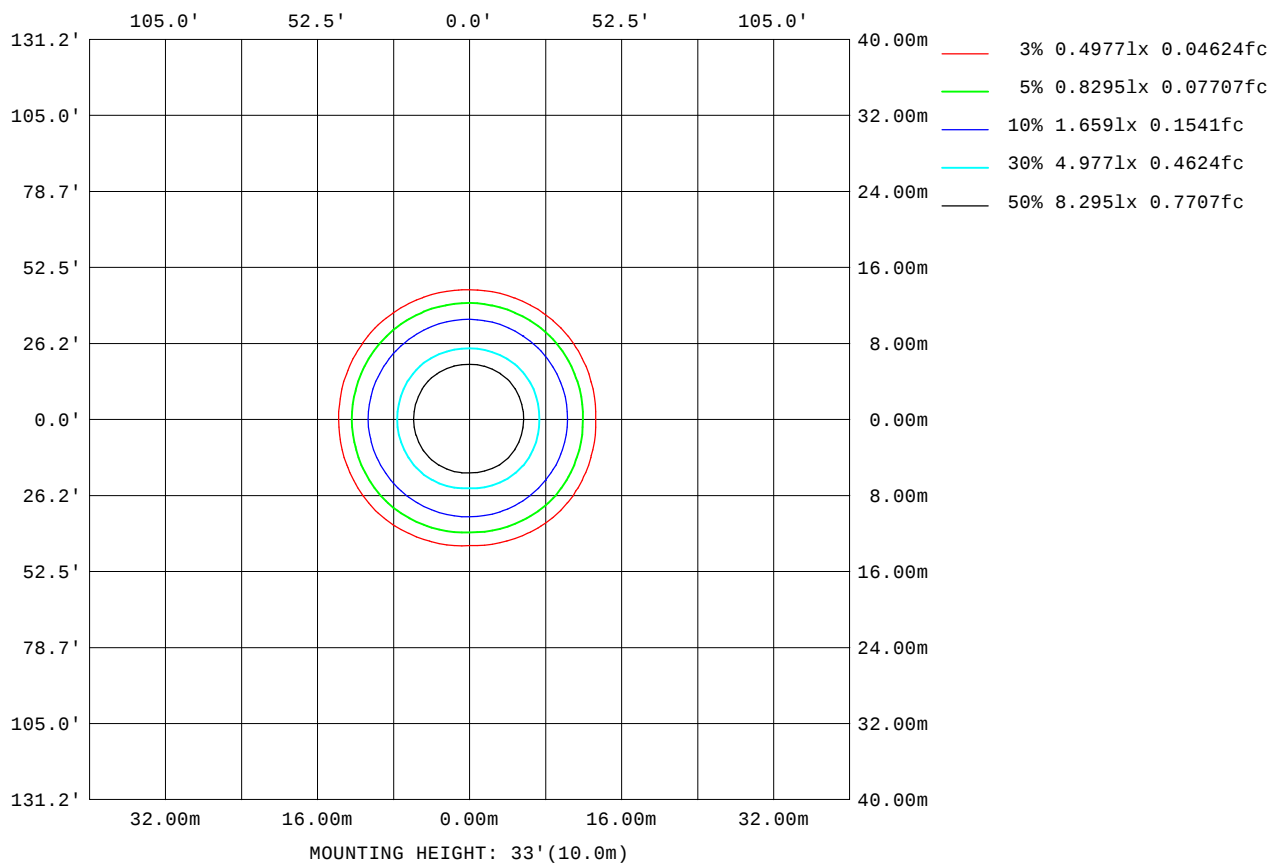
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.2270A P:48.60W PF:0.9670 Lamp Flux:2679.92x1 lm		
NAME: NEC0吊灯 格栅+微晶罩 下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*0.049	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:0.2270A P:48.60W PF:0.9670 Lamp Flux:2679.92x1 lm		
NAME: NECO吊灯 格栅+微晶罩 下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*0.049	Shielding Angle:

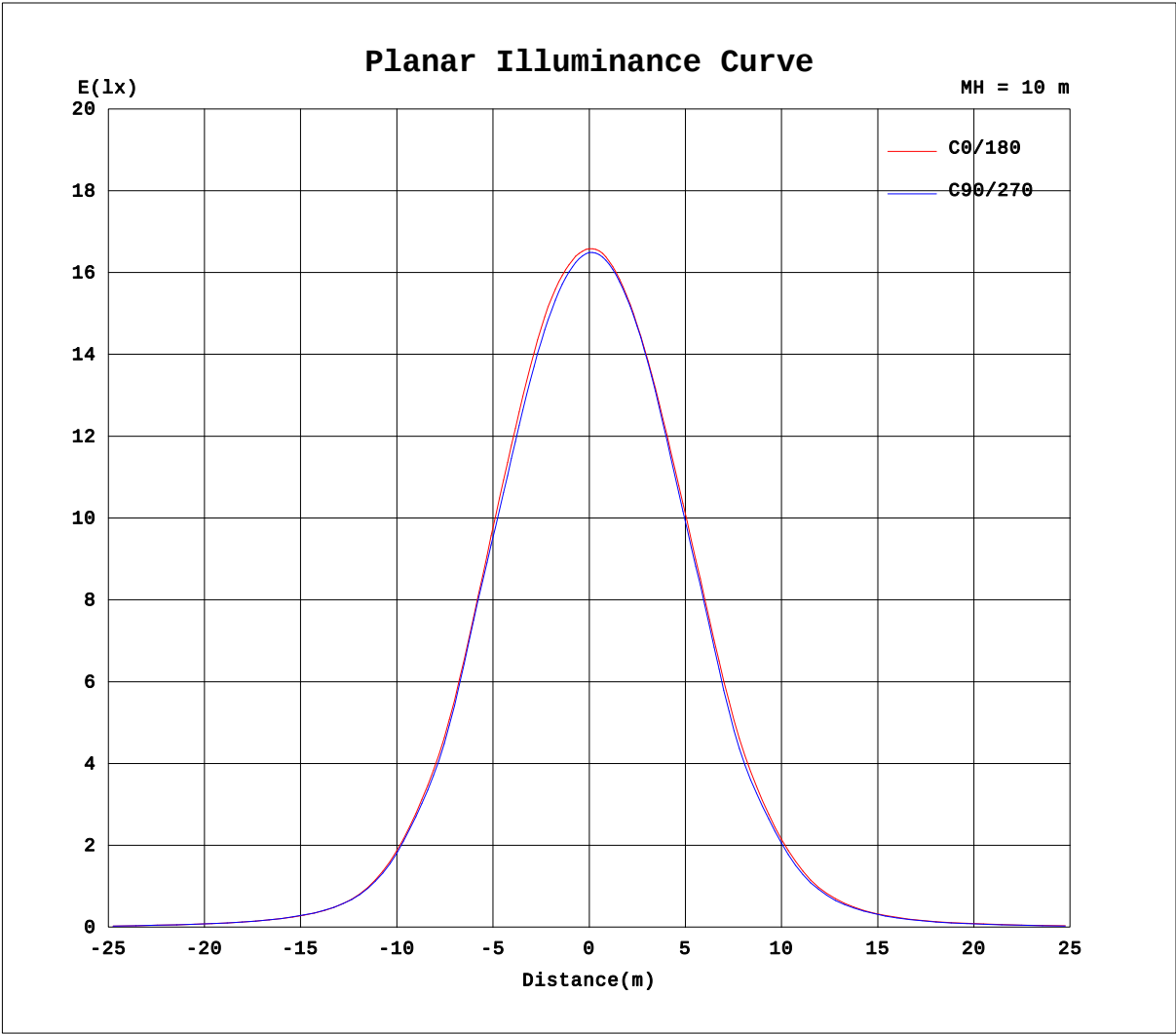
AvgL	cd/m2
L_0~180(65)av	3848
L_0~180(75)av	2833
L_0~180(85)av	1387
L_90~270(65)av	3740
L_90~270(75)av	2657
L_90~270(85)av	1605
L_45(65)av	3946
L_45(75)av	2625
L_45(85)av	1511

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: