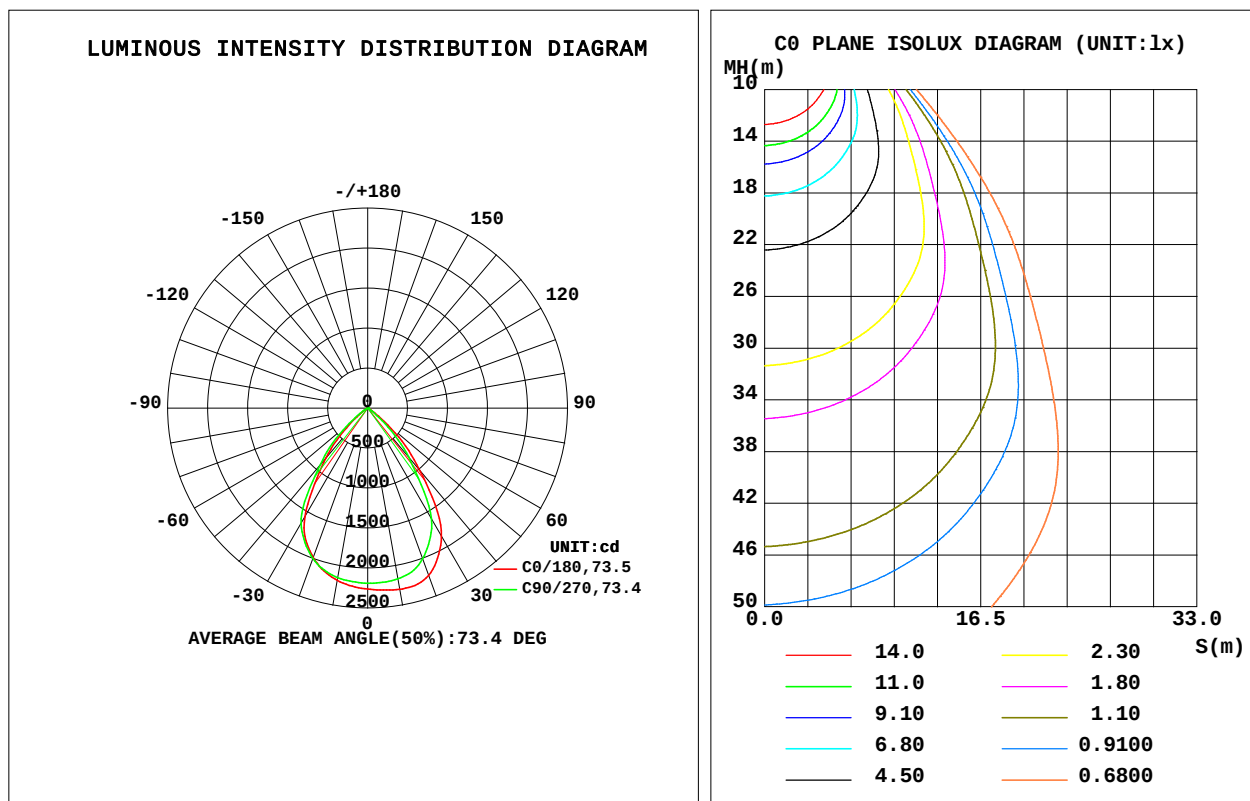


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.7V I:0.2280A P:48.80W PF:0.9670 Lamp Flux:3052.76x1 lm		
NAME: NEC0吊灯 格栅罩 下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*0.049	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 62.56 lm/W			
MODEL		I _{max} (cd)	2302	S/MH(C0/180)	1.12
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.04
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	3052.8	η UP, DN(C0-180)	0.0,50.5
NOMINAL FLUX(lm)	3052.76	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,49.5
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	2189	2149	2153	2162	2301	2225	2168	2090	0- 10	209.6	209.6	6.87, 6.87
20	1989	2046	2004	2090	2227	2127	2007	1970	10- 20	602.2	811.8	26.6, 26.6
30	1575	1716	1667	1798	1847	1730	1593	1564	20- 30	875.0	1687	55.3, 55.3
40	813.2	948.7	918.3	1060	1013	932.7	796.7	766.6	30- 40	811.4	2498	81.8, 81.8
50	209.3	307.6	303.6	350.7	330.8	270.6	195.3	214.8	40- 50	431.0	2929	96, 96
60	20.29	50.98	33.55	58.28	29.12	37.10	15.60	29.78	50- 60	109.4	3039	99.5, 99.5
70	2.554	3.982	2.347	4.183	2.569	3.313	1.052	2.962	60- 70	11.91	3050	99.9, 99.9
80	1.631	1.095	0.5244	0.6453	0.5935	0.7895	0.5992	1.066	70- 80	1.415	3052	100, 100
90	0.6569	0.7549	0.4956	0.5359	0.5244	0.5993	0.4840	0.5532	80- 90	0.8494	3053	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): 2766 lm

%lum = 90.6%

%lamp = 90.6%

Conical surface Flux(120deg): 3038.6 lm

%lum = 99.5%

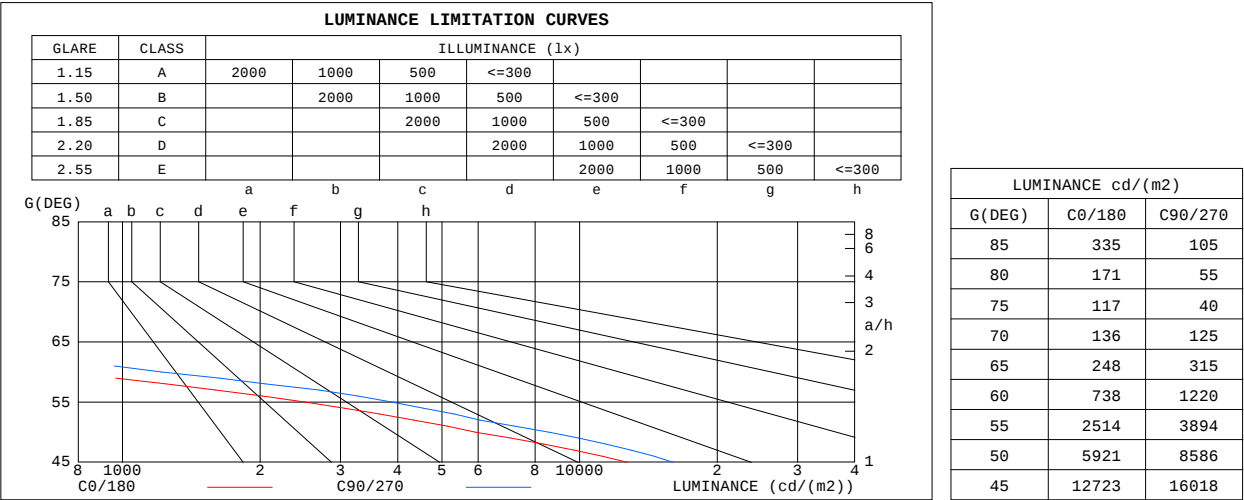
%lamp = 99.5%

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:48.80W PF:0.9670 Lamp Flux:3052.76x1 lm		
NAME: NEC0吊灯 格栅罩 下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*0.049	Shielding Angle:



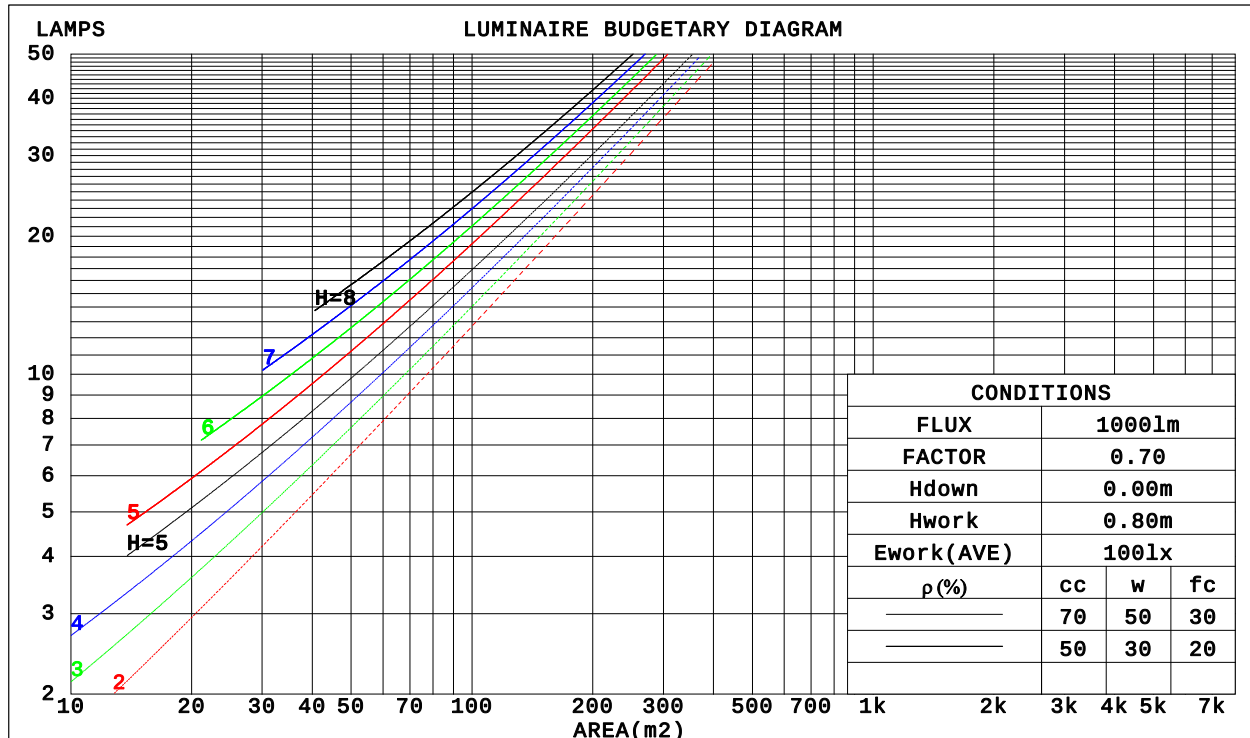
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-02-14

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:0.2280A P:48.80W PF:0.9670 Lamp Flux:3052.76x1 lm		
NAME: NECO吊灯 格栅罩 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	.00
1.0	1.10	1.07	1.05	1.08	1.05	1.03	1.04	1.02	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.01	.97	.93	.99	.95	.92	.96	.93	.90	.93	.90	.88	.90	.88	.86	.84
3.0	.93	.87	.83	.92	.86	.82	.89	.84	.81	.86	.83	.80	.84	.81	.78	.77
4.0	.86	.79	.75	.84	.79	.74	.82	.77	.73	.80	.76	.72	.78	.75	.72	.70
5.0	.79	.73	.68	.78	.72	.67	.76	.71	.67	.75	.70	.66	.73	.69	.66	.64
6.0	.73	.67	.62	.72	.66	.61	.71	.65	.61	.69	.64	.61	.68	.64	.60	.59
7.0	.68	.61	.56	.67	.61	.56	.66	.60	.56	.65	.60	.56	.63	.59	.55	.54
8.0	.63	.57	.52	.63	.56	.52	.61	.56	.52	.60	.55	.51	.59	.55	.51	.50
9.0	.59	.52	.48	.58	.52	.48	.57	.52	.48	.57	.51	.47	.56	.51	.47	.46
10.0	.55	.49	.44	.55	.49	.44	.54	.48	.44	.53	.48	.44	.52	.47	.44	.42



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:48.80W PF:0.9670 Lamp Flux:3052.76x1 lm					
NAME: NECO吊灯 格栅罩 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	.196	.111	.035	.189	.108	.034	.176	.101	.032	.165	.095	.030	.154	.089	.029	
2.0	.190	.104	.032	.185	.102	.031	.174	.097	.030	.164	.092	.029	.155	.088	.028	
3.0	.183	.097	.029	.178	.095	.029	.169	.091	.028	.160	.088	.027	.152	.084	.026	
4.0	.175	.091	.027	.171	.089	.026	.163	.086	.026	.155	.083	.025	.148	.080	.025	
5.0	.167	.085	.025	.163	.084	.024	.156	.081	.024	.150	.079	.023	.143	.077	.023	
6.0	.160	.080	.023	.156	.079	.023	.150	.077	.022	.144	.075	.022	.139	.073	.022	
7.0	.152	.075	.021	.149	.074	.021	.144	.073	.021	.139	.071	.021	.134	.069	.020	
8.0	.146	.071	.020	.143	.070	.020	.138	.069	.020	.133	.067	.019	.129	.066	.019	
9.0	.139	.067	.019	.137	.067	.019	.132	.065	.019	.128	.064	.018	.124	.063	.018	
10.0	.133	.064	.018	.131	.063	.018	.127	.062	.018	.123	.061	.017	.119	.060	.017	

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	.172	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.159	.132	.110	.136	.114	.095	.093	.079	.066	.054	.046	.039	.017	.015	.013	
3.0	.148	.114	.087	.127	.098	.075	.087	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.139	.099	.069	.119	.086	.060	.082	.060	.042	.047	.035	.025	.015	.011	.008	
5.0	.131	.088	.057	.112	.076	.049	.077	.053	.035	.045	.031	.021	.014	.010	.007	
6.0	.124	.079	.047	.107	.069	.041	.074	.048	.029	.043	.028	.017	.014	.009	.006	
7.0	.118	.072	.040	.101	.062	.034	.070	.044	.024	.041	.026	.015	.013	.008	.005	
8.0	.112	.066	.034	.097	.057	.029	.067	.040	.021	.039	.024	.012	.013	.008	.004	
9.0	.107	.061	.029	.093	.053	.026	.064	.037	.018	.037	.022	.011	.012	.007	.004	
10.0	.103	.057	.026	.089	.049	.022	.062	.035	.016	.036	.020	.010	.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:0.2280A P:48.80W PF:0.9670 Lamp Flux:3052.76x1 lm											
NAME: NECO吊灯 格栅罩 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	17.6	18.7	17.8	18.9	19.1	18.2	19.3	18.5	19.5	19.7	
	3H	17.4	18.4	17.7	18.6	18.8	18.1	19.1	18.3	19.3	
	4H	17.3	18.3	17.6	18.5	18.7	18.0	18.9	18.3	19.1	
	6H	17.2	18.1	17.6	18.4	18.6	17.9	18.8	18.2	19.0	
	8H	17.2	18.0	17.5	18.3	18.6	17.8	18.7	18.2	18.9	
	12H	17.2	18.0	17.5	18.2	18.5	17.8	18.6	18.1	18.9	
4H	2H	17.4	18.3	17.7	18.6	18.8	18.0	19.0	18.3	19.2	
	3H	17.2	18.0	17.5	18.3	18.6	17.8	18.6	18.2	18.9	
	4H	17.1	17.8	17.5	18.1	18.5	17.7	18.5	18.1	18.8	
	6H	17.0	17.7	17.4	18.0	18.3	17.6	18.3	18.0	18.6	
	8H	17.0	17.6	17.4	17.9	18.3	17.6	18.2	18.0	18.5	
	12H	16.9	17.5	17.3	17.8	18.2	17.5	18.1	18.0	18.5	
8H	4H	17.0	17.6	17.4	17.9	18.3	17.6	18.2	18.0	18.5	
	6H	16.9	17.4	17.3	17.7	18.2	17.5	18.0	17.9	18.4	
	8H	16.8	17.2	17.3	17.7	18.1	17.4	17.9	17.9	18.3	
	12H	16.8	17.1	17.2	17.6	18.0	17.4	17.8	17.9	18.2	
12H	4H	16.9	17.5	17.3	17.8	18.2	17.5	18.1	18.0	18.5	
	6H	16.8	17.2	17.3	17.7	18.1	17.4	17.9	17.9	18.3	
	8H	16.8	17.1	17.2	17.6	18.0	17.4	17.8	17.9	18.2	
Variations with the observer position at spacings:											
S = 1.0H	+ 2.5 / -11.1					+ 2.4 / - 8.9					
1.5H	+ 3.2 / - 6.0					+ 3.0 / - 6.0					
2.0H	+ 5.7 / -12.9					+ 6.0 / -13.1					

CIE Pub.117 Corrected 3053 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.9)

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:48.80W PF:0.9670 Lamp Flux:3052.76x1 lm		
NAME: NECO吊灯 格栅罩 下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*0.049	Shielding Angle:

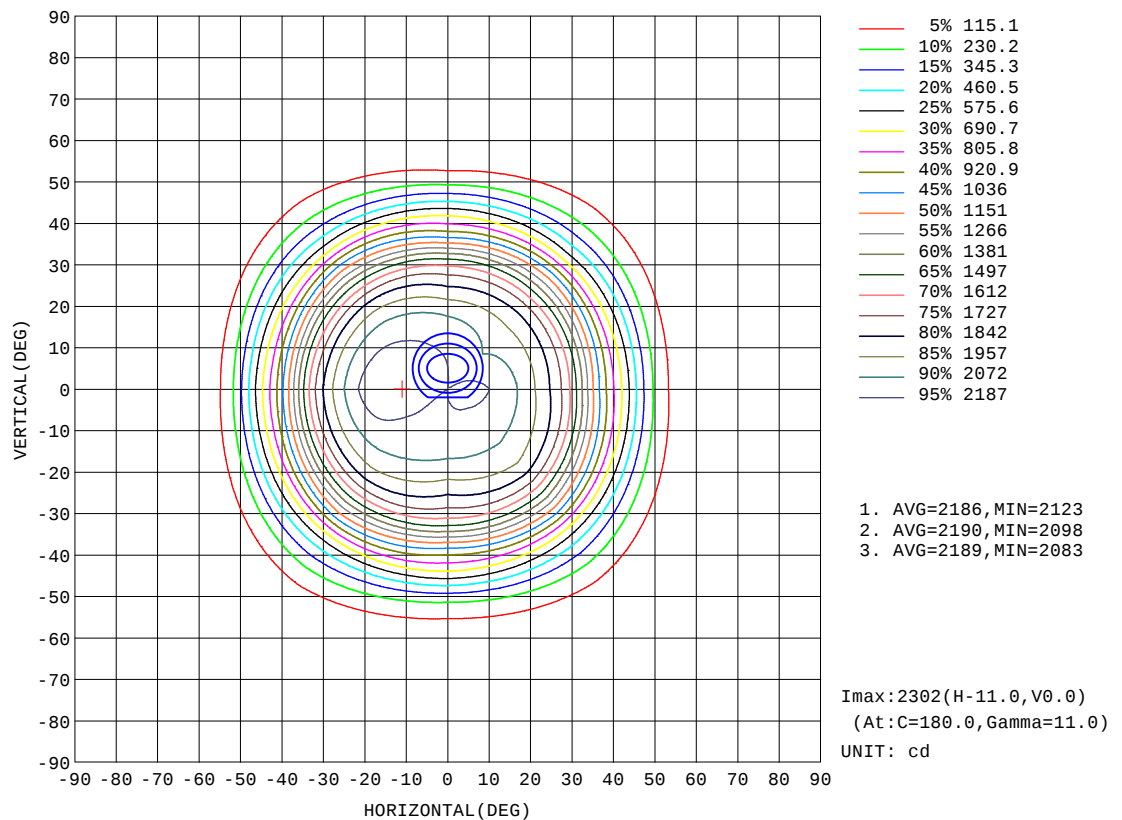
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	80	71	65	79	70	65	77	69	65	59
0.80	88	79	73	86	78	73	84	77	72	66
1.00	94	86	80	92	85	80	89	83	79	73
1.25	99	92	87	97	91	86	94	89	84	78
1.50	102	96	91	100	95	90	97	92	89	82
2.00	107	102	98	105	101	97	102	98	95	88
2.50	109	105	101	107	103	100	103	100	97	90
3.00	111	107	104	109	105	102	104	102	99	91
4.00	113	110	107	111	108	106	106	104	102	94
5.00	114	112	110	112	110	108	107	106	104	95
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:48.80W PF:0.9670 Lamp Flux:3052.76x1 lm		
NAME: NECO吊灯 格栅罩 下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*0.049	Shielding Angle:



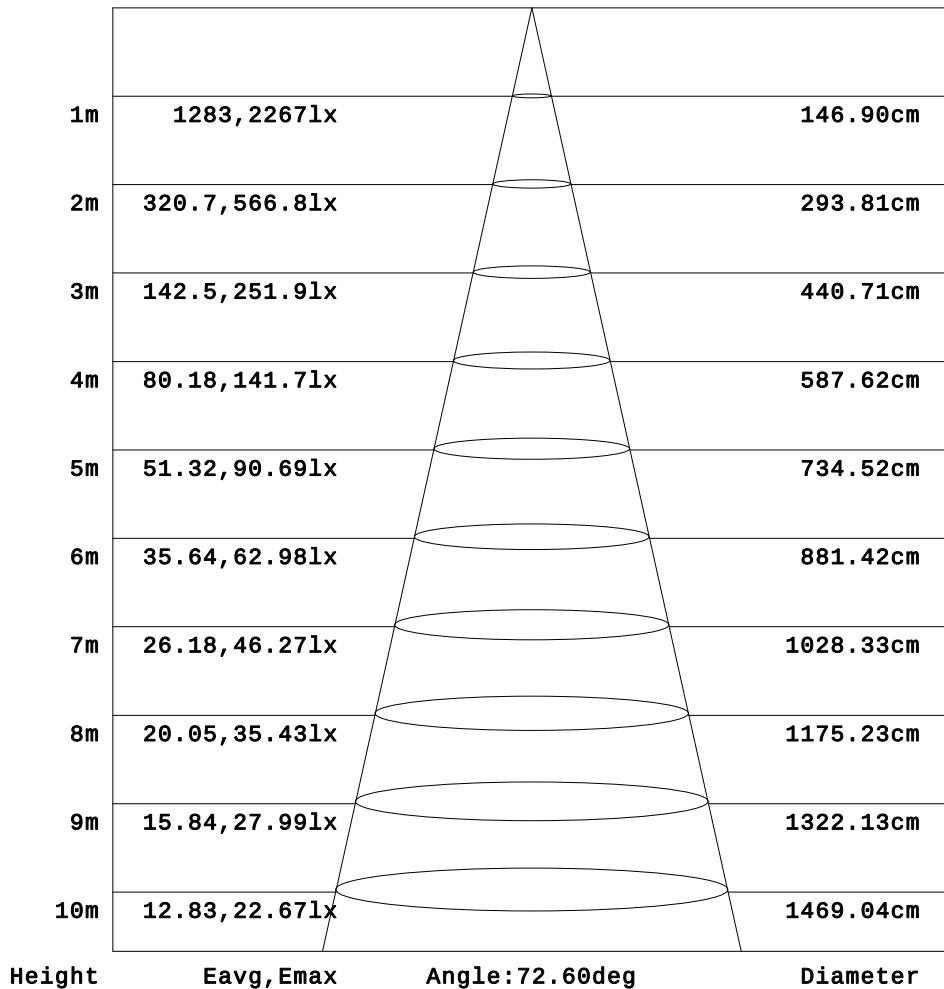
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-02-14

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:0.2280A P:48.80W PF:0.9670 Lamp Flux:3052.76x1 lm		
NAME: NEC0吊灯 格栅罩 下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*0.049	Shielding Angle:

Flux out:2289 lm



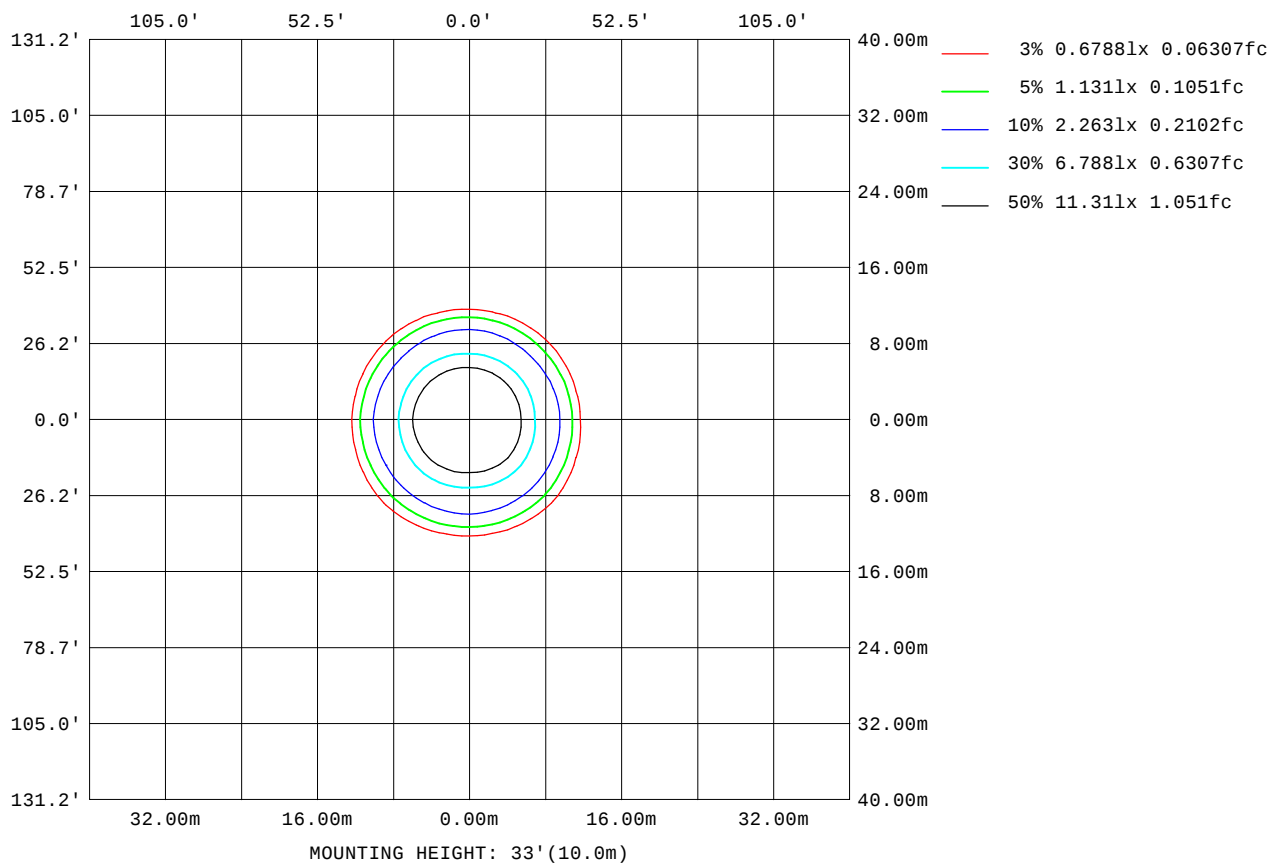
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 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:48.80W PF:0.9670 Lamp Flux:3052.76x1 lm		
NAME: NEC0吊灯 格栅罩 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:0.2280A P:48.80W PF:0.9670 Lamp Flux:3052.76x1 lm		
NAME: NECO吊灯 格栅罩 下发光	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1.126*0.049	Shielding Angle:

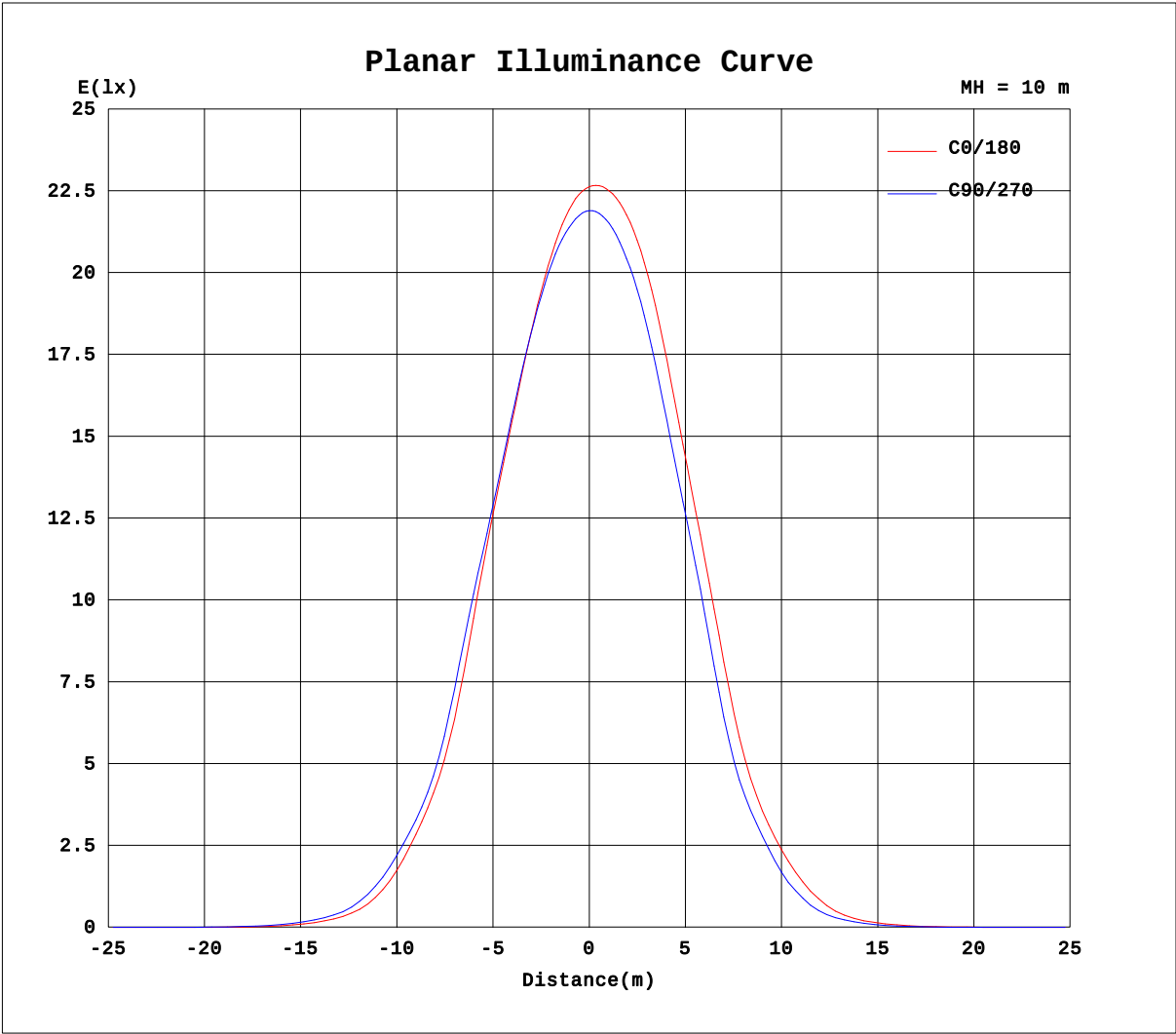
AvgL	cd/m2
L_0~180(65)av	268
L_0~180(75)av	87
L_0~180(85)av	225
L_90~270(65)av	264
L_90~270(75)av	41
L_90~270(85)av	112
L_45(65)av	506
L_45(75)av	82
L_45(85)av	173

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: