

LED Tracklight PURE M-28W-840-30



Light Output Ratio:	100.0%	
Luminaire Power:	27.96 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

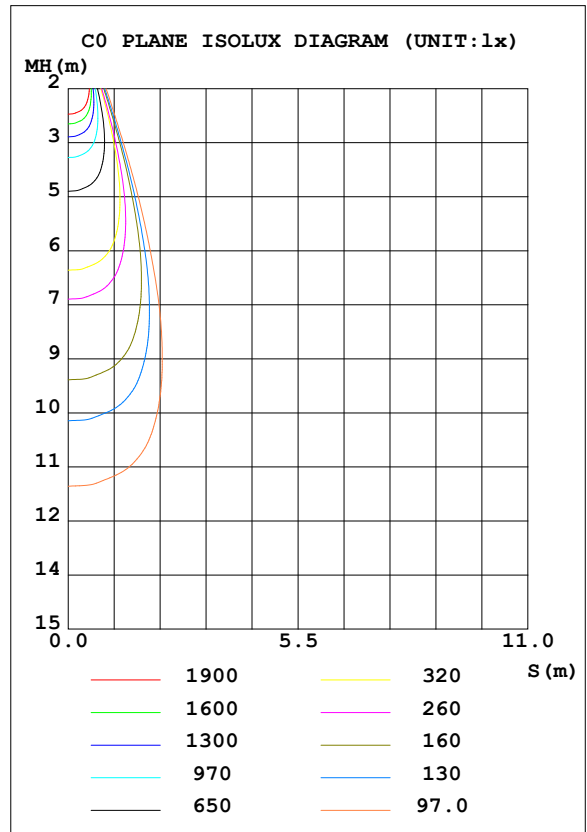
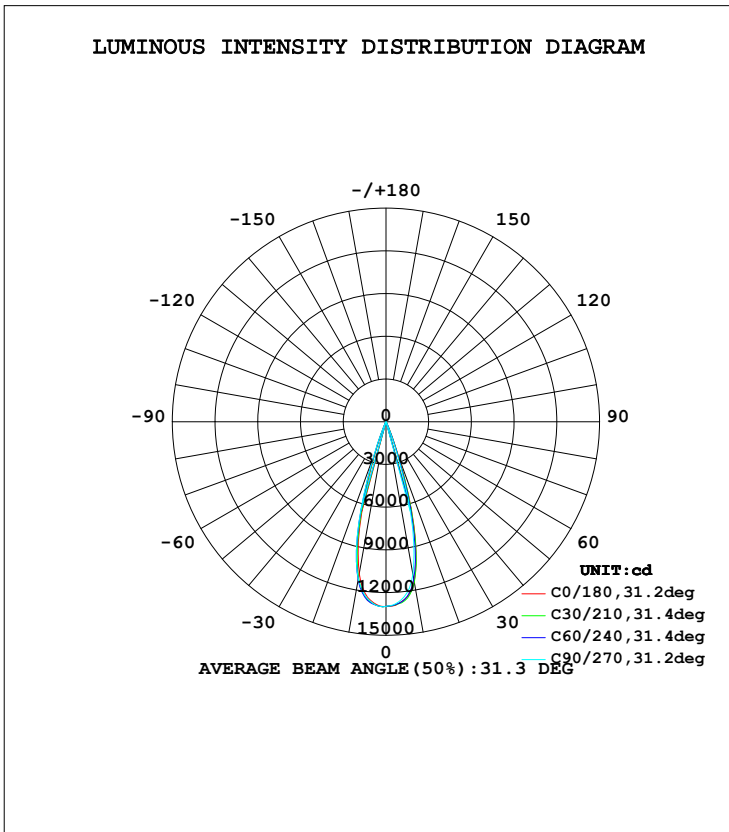
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2017-05-18

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity: 52%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:220.7V I:0.1314A P:27.96W PF:0.9639 Lamp Flux:3333.4x1 lm		
NAME: PURE M-28W-840-30	TYPE:Tracklight	SERIAL No.:
SPEC.:4000K	DIM.: φ90mm*H220mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 119.23 lm/W			
MODEL	CITIZEN-4000K	I <sub>max</sub> (cd)	13000	S/MH (C0/180)	0.45
NOMINAL POWER (W)	28	LOR (%)	100.0	S/MH (C90/270)	0.47
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	3333.4	η UP, DN (C0-180)	0.0, 49.1
NOMINAL FLUX (lm)	3333.4	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.9
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.00



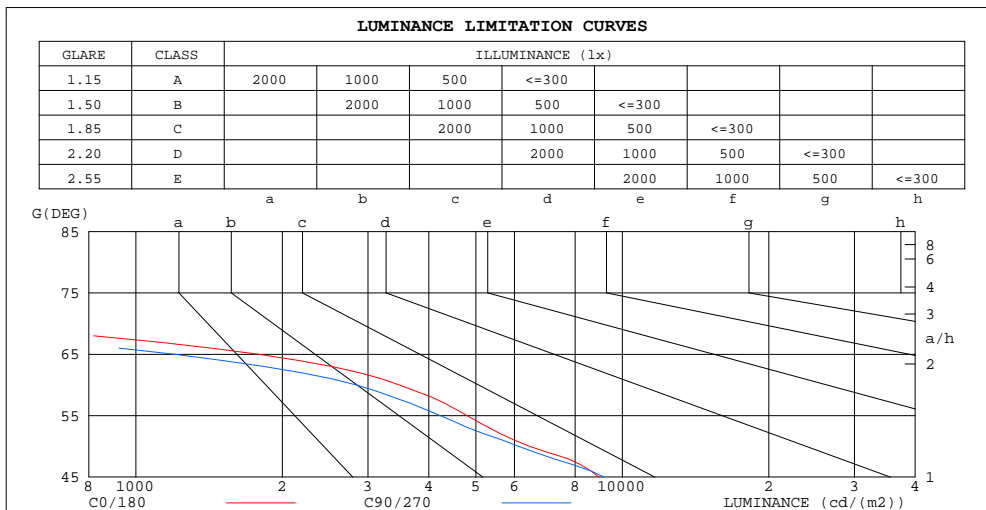
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2017-05-18

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity: 52%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

**ZONAL FLUX DIAGRAM  
AND LUMINANCE LIMITATION CURVES**

**ZONAL FLUX DIAGRAM:**

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\%lum, lamp$
10	1139	1145	1088	1058	1083	1119	1123	1113	0- 10	1158	1158	34.8,34.8
20	251.0	244.4	185.9	175.5	181.7	205.2	235.8	255.8	10- 20	1811	2969	89.1,89.1
30	14.41	14.44	13.13	13.46	13.54	14.96	14.20	15.59	20- 30	250.7	3220	96.6,96.6
40	6.444	6.546	5.878	5.559	5.263	6.454	6.762	7.129	30- 40	61.17	3281	98.4,98.4
50	2.637	2.787	2.503	2.358	2.242	2.595	2.847	2.959	40- 50	32.62	3314	99.4,99.4
60	1.106	1.040	0.9031	0.8339	0.8600	0.9115	1.034	1.122	50- 60	14.99	3329	99.9,99.9
70	0.0766	0.0695	0.0494	0.0430	0.0445	0.0575	0.0722	0.0927	60- 70	4.244	3333	100,100
80	0.0184	0.0151	0.0171	0.0153	0.0162	0.0190	0.0181	0.0195	70- 80	0.3108	3333	100,100
90	0.0120	0.0118	0.0122	0.0120	0.0127	0.0122	0.0120	0.0120	80- 90	0.1502	3333	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: $\times 10cd$									UNIT: lm		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	253	241
80	166	155
75	169	153
70	352	227
65	1784	1199
60	3478	2841
55	4796	4226
50	6452	6124
45	8953	9172

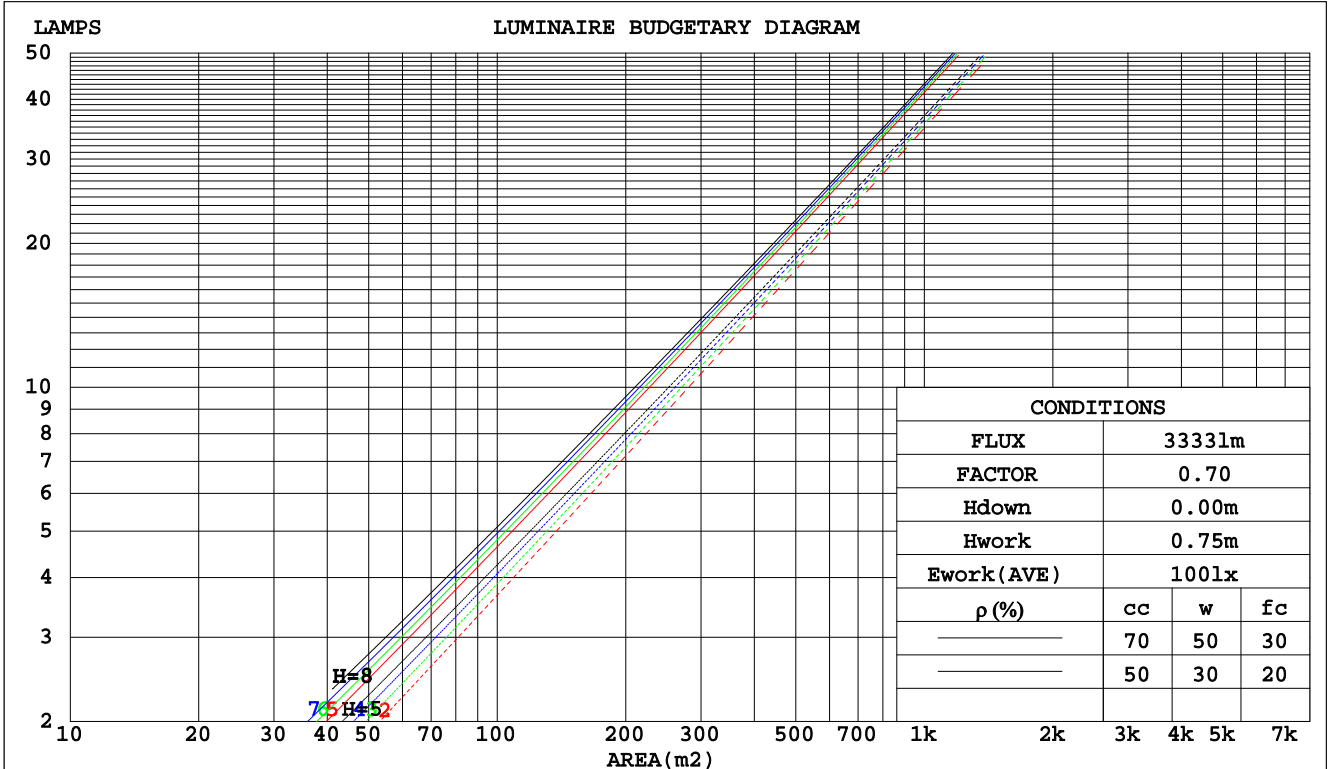
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Meng Yongjian  
 Test Date: 2017-05-18

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity: 52%  
 Test Distance: 5.850m [K=1.0000]  
 Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:220.7V I:0.1314A P:27.96W PF:0.9639 Lamp Flux:3333.4x1 lm		
NAME: PURE M-28W-840-30	TYPE:Tracklight	SERIAL No.:
SPEC.:4000K	DIM.: φ90mm*H220mm	
MFR.: NEKO LIGHTING AG		

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															
	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	1.13	1.11	1.10	1.11	1.09	1.08	1.07	1.06	1.05	1.03	1.02	1.01	.00	.99	.99	.97
2.0	1.08	1.05	1.03	1.06	1.04	1.02	1.03	1.01	.99	1.00	.99	.97	.98	.96	.95	.94
3.0	1.04	1.00	.97	1.02	.99	.97	.00	.97	.95	.98	.96	.94	.96	.94	.92	.91
4.0	.00	.96	.93	.99	.95	.93	.97	.94	.92	.95	.93	.91	.93	.91	.90	.88
5.0	.96	.93	.90	.96	.92	.89	.94	.91	.88	.93	.90	.88	.91	.89	.87	.86
6.0	.93	.89	.87	.93	.89	.86	.91	.88	.86	.90	.87	.85	.89	.87	.85	.84
7.0	.91	.87	.84	.90	.86	.84	.89	.86	.83	.88	.85	.83	.87	.84	.82	.81
8.0	.88	.84	.81	.88	.84	.81	.87	.83	.81	.86	.83	.81	.85	.82	.80	.79
9.0	.86	.82	.79	.85	.81	.79	.84	.81	.79	.84	.81	.79	.83	.80	.78	.77
10.0	.83	.80	.77	.83	.79	.77	.82	.79	.77	.82	.79	.77	.81	.78	.76	.76



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Meng Yongjian  
 Test Date:2017-05-18

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity:52%  
 Test Distance:5.850m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:220.7V I:0.1314A P:27.96W PF:0.9639 Lamp Flux:3333.4x1 lm		
NAME: PURE M-28W-840-30	TYPE:Tracklight	SERIAL No.:
SPEC.:4000K	DIM.: φ90mm*H220mm	
MFR.: NEKO LIGHTING AG		

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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.133	.076	.024	.126	.072	.023	.114	.065	.021	.103	.059	.019	.092	.053	.017	
2.0	.123	.067	.021	.117	.065	.020	.107	.060	.019	.098	.055	.017	.089	.050	.016	
3.0	.114	.061	.018	.110	.059	.018	.101	.055	.017	.093	.051	.016	.086	.048	.015	
4.0	.107	.055	.016	.103	.054	.016	.096	.051	.015	.089	.048	.014	.083	.045	.014	
5.0	.100	.051	.015	.097	.050	.015	.091	.047	.014	.085	.045	.013	.080	.043	.013	
6.0	.095	.048	.014	.092	.047	.013	.087	.045	.013	.082	.043	.013	.077	.041	.012	
7.0	.090	.044	.013	.088	.044	.012	.083	.042	.012	.079	.040	.012	.075	.039	.011	
8.0	.086	.042	.012	.084	.041	.012	.080	.040	.011	.076	.038	.011	.072	.037	.011	
9.0	.082	.040	.011	.080	.039	.011	.077	.038	.011	.073	.037	.011	.070	.036	.010	
10.0	.078	.038	.010	.077	.037	.010	.074	.036	.010	.071	.035	.010	.068	.034	.010	

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	.168	.158	.148	.144	.135	.128	.098	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.150	.133	.118	.128	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.134	.113	.096	.115	.098	.084	.079	.068	.059	.046	.040	.035	.015	.013	.011	
4.0	.122	.098	.080	.104	.085	.069	.072	.059	.049	.042	.034	.029	.013	.011	.009	
5.0	.111	.085	.067	.095	.074	.058	.066	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.102	.075	.056	.088	.065	.049	.060	.046	.035	.035	.027	.021	.011	.009	.007	
7.0	.094	.067	.048	.081	.058	.042	.056	.041	.030	.033	.024	.018	.011	.008	.006	
8.0	.088	.060	.041	.076	.052	.036	.052	.037	.026	.030	.022	.015	.010	.007	.005	
9.0	.082	.055	.036	.071	.047	.031	.049	.033	.022	.029	.020	.013	.009	.006	.004	
10.0	.077	.050	.032	.066	.043	.028	.046	.030	.020	.027	.018	.012	.009	.006	.004	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Meng Yongjian  
 Test Date:2017-05-18

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity:52%  
 Test Distance:5.850m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.7V I:0.1314A P:27.96W PF:0.9639 Lamp Flux:3333.4x1 lm		
NAME: PURE M-28W-840-30	TYPE:Tracklight	SERIAL No.:
SPEC.:4000K	DIM.: φ90mm*H220mm	
MFR.: NEKO LIGHTING AG		

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	8.4	9.0	8.6	9.1	9.3	7.9	8.5	8.1	8.7	8.8
3H	8.3	8.9	8.5	9.0	9.2	7.8	8.4	8.0	8.5	8.7
4H	8.2	8.8	8.5	9.0	9.2	7.7	8.3	8.0	8.5	8.7
6H	8.1	8.6	8.4	8.9	9.1	7.6	8.1	7.9	8.4	8.6
8H	8.1	8.6	8.4	8.8	9.1	7.6	8.1	7.9	8.3	8.6
12H	8.0	8.5	8.3	8.8	9.0	7.5	8.0	7.8	8.3	8.5
4H 2H	8.3	8.9	8.6	9.1	9.3	7.9	8.4	8.1	8.6	8.8
3H	8.2	8.7	8.5	8.9	9.2	7.7	8.2	8.0	8.5	8.7
4H	8.1	8.5	8.4	8.8	9.1	7.6	8.1	8.0	8.4	8.7
6H	8.0	8.4	8.4	8.7	9.1	7.5	7.9	7.9	8.2	8.6
8H	7.9	8.3	8.3	8.7	9.0	7.5	7.8	7.9	8.2	8.5
12H	7.9	8.2	8.3	8.6	9.0	7.4	7.8	7.8	8.1	8.5
8H 4H	7.9	8.3	8.3	8.7	9.0	7.5	7.8	7.9	8.2	8.5
6H	7.8	8.1	8.2	8.5	8.9	7.4	7.7	7.8	8.1	8.5
8H	7.8	8.0	8.2	8.5	8.9	7.3	7.6	7.7	8.0	8.4
12H	7.7	7.9	8.2	8.4	8.8	7.2	7.5	7.7	7.9	8.4
12H 4H	7.9	8.2	8.3	8.6	9.0	7.4	7.8	7.8	8.1	8.5
6H	7.8	8.0	8.2	8.4	8.9	7.3	7.6	7.7	8.0	8.4
8H	7.7	7.9	8.2	8.4	8.8	7.2	7.5	7.7	7.9	8.4
Variations with the observer position at spacings:										
S = 1.0H	+ 1.9 / - 3.5					+ 2.0 / - 3.9				
1.5H	+ 2.4 / - 2.2					+ 2.3 / - 2.3				
2.0H	+ 3.4 / - 4.5					+ 3.6 / - 5.0				

CIE Pub.117 Corrected 3333 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.2)

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Meng Yongjian  
 Test Date:2017-05-18

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity:52%  
 Test Distance:5.850m [K=1.0000]  
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.1314A P:27.96W PF:0.9639 Lamp Flux:3333.4x1 lm		
NAME: PURE M-28W-840-30	TYPE:Tracklight	SERIAL No.:
SPEC.:4000K	DIM.: φ90mm*H220mm	
MFR.: NEKO LIGHTING AG		

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	91	85	81	90	85	81	89	84	81	78
0.80	98	92	89	97	92	89	96	91	88	85
1.00	101	96	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	107	103	100	106	102	100	104	101	99	94
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	109	107	111	108	106	108	105	104	97
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	112	110	110	108	107	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Meng Yongjian  
 Test Date:2017-05-18

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity:52%  
 Test Distance:5.850m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

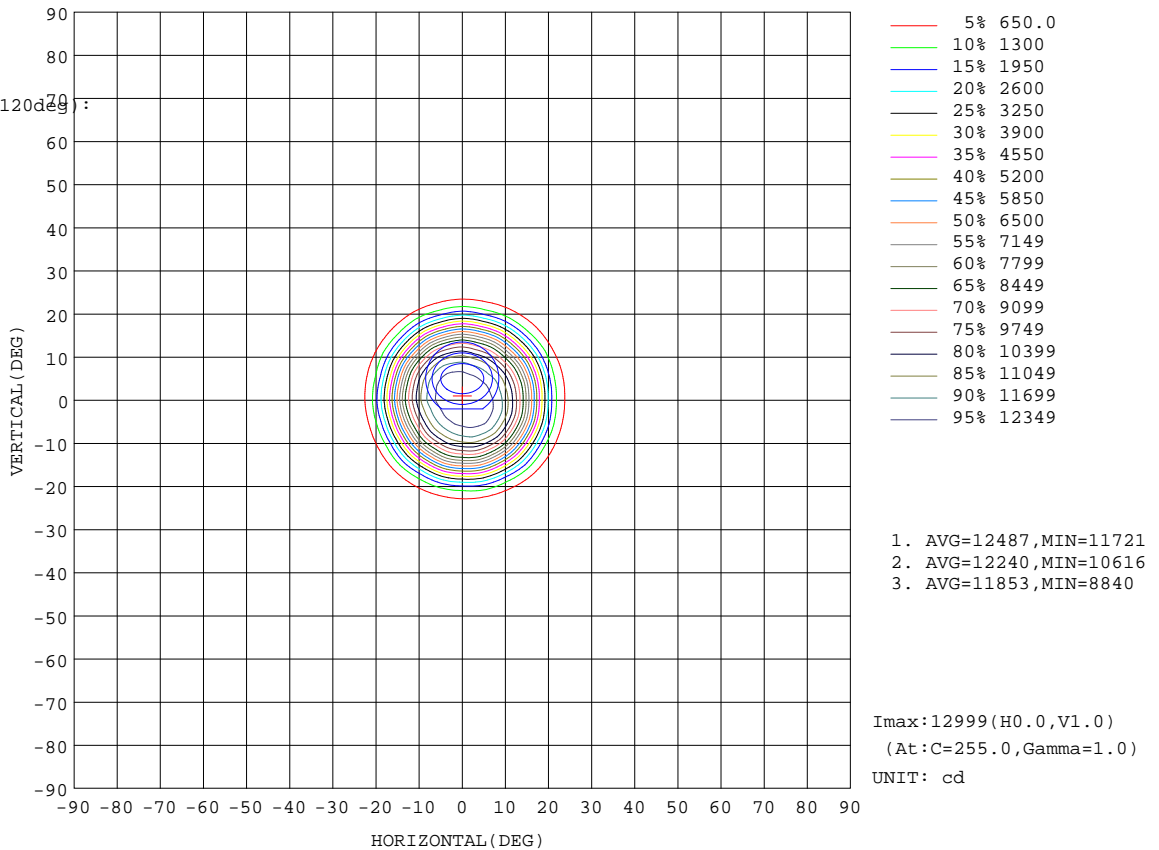
Test:U:220.7V I:0.1314A P:27.96W PF:0.9639 Lamp Flux:3333.4x1 lm		
NAME: PURE M-28W-840-30	TYPE:Tracklight	SERIAL No.:
SPEC.:4000K	DIM.: φ90mm*H220mm	
MFR.: NEKO LIGHTING AG		

Conical surface Flux(90deg):

3299.9 lm  
%lum = 99.0%  
%lamp = 99.0%

Conical surface Flux(120deg):

3328.7 lm  
%lum = 99.9%  
%lamp = 99.9%



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Meng Yongjian  
Test Date:2017-05-18

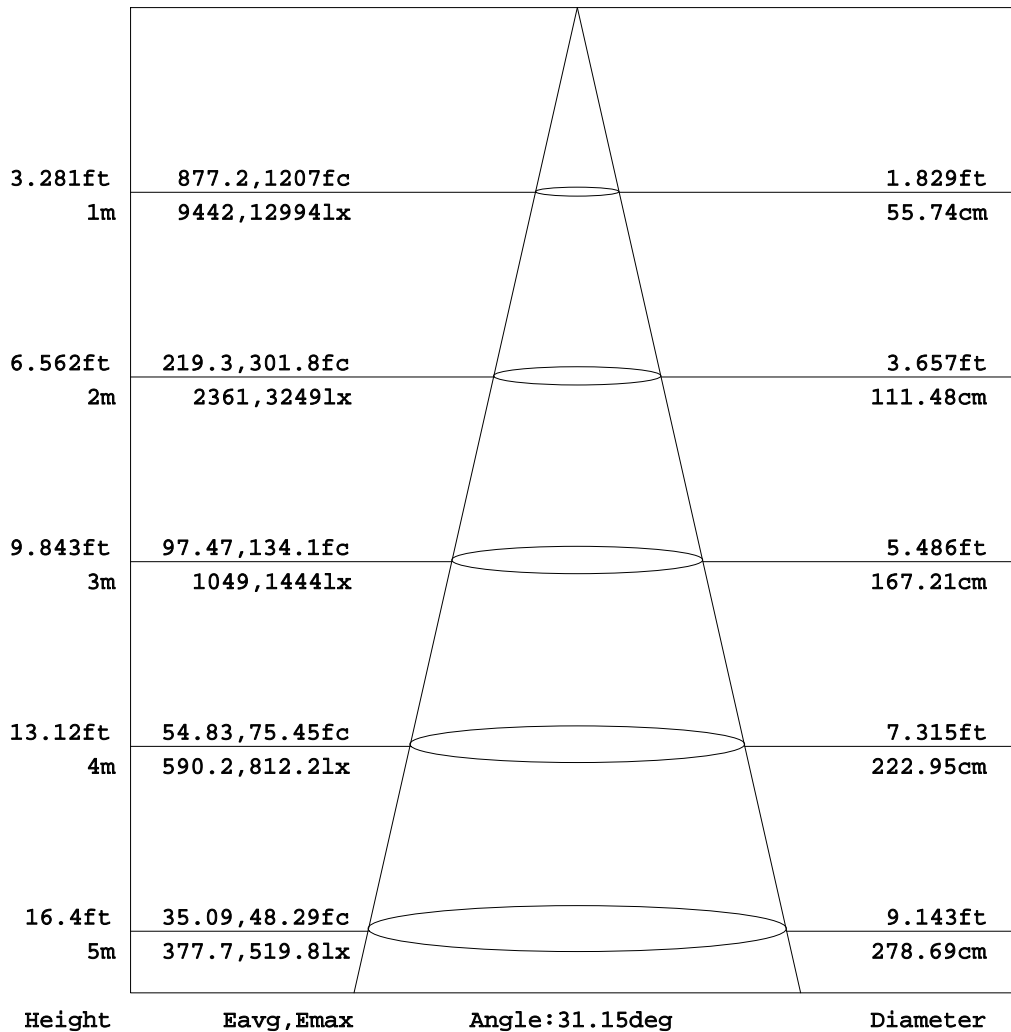
γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity:52%  
Test Distance:5.850m [K=1.0000]  
Remarks:



**AAI Figure**

Test:U:220.7V I:0.1314A P:27.96W PF:0.9639 Lamp Flux:3333.4x1 lm		
NAME: PURE M-28W-840-30	TYPE:Tracklight	SERIAL No.:
SPEC.:4000K	DIM.: φ90mm*H220mm	
MFR.: NEKO LIGHTING AG		

Flux out:2439 lm



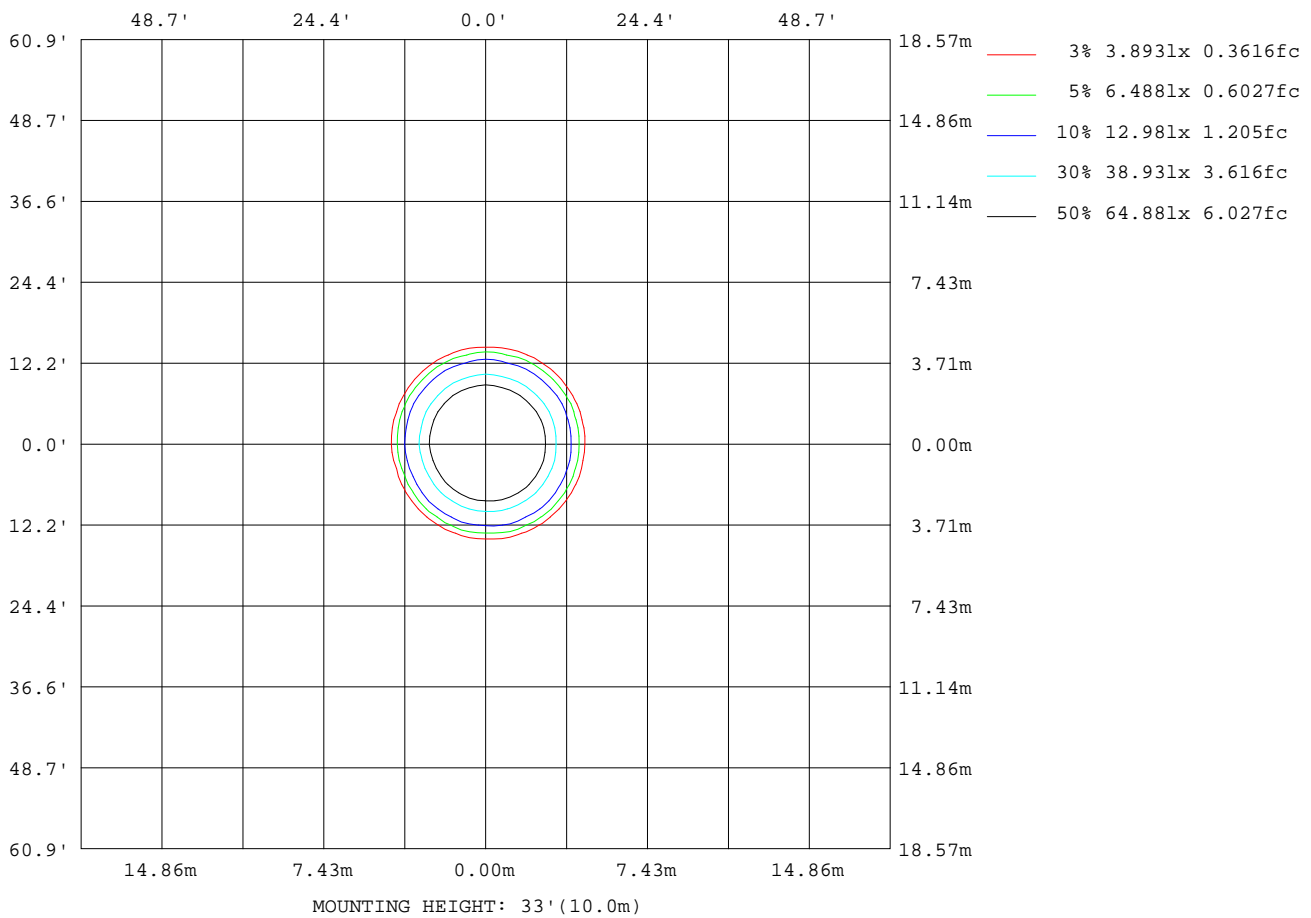
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Meng Yongjian  
Test Date:2017-05-18

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity:52%  
Test Distance:5.850m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

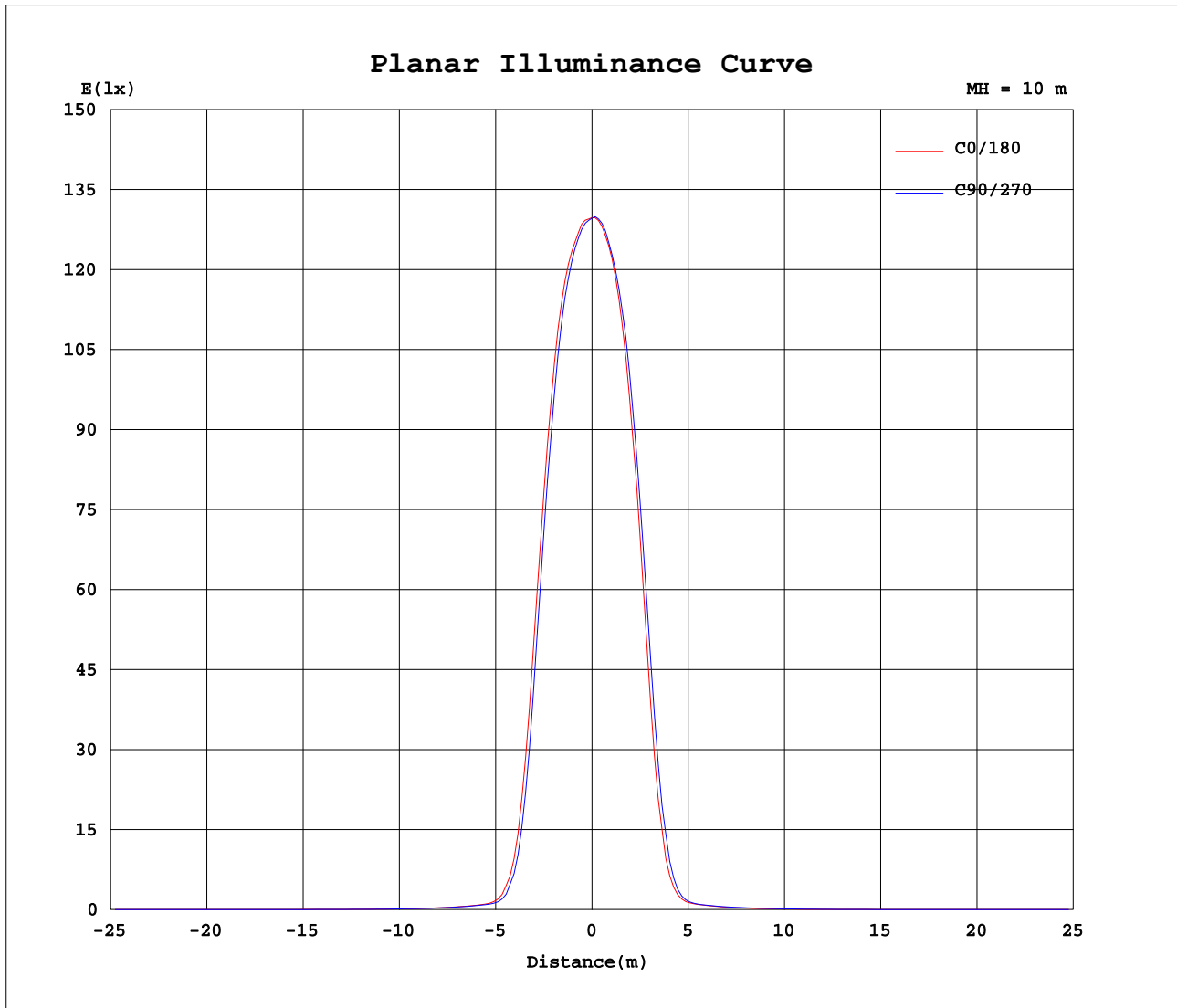
Test:U:220.7V I:0.1314A P:27.96W PF:0.9639 Lamp Flux:3333.4x1 lm		
NAME: PURE M-28W-840-30	TYPE:Tracklight	SERIAL No.:
SPEC.:4000K	DIM.: φ90mm*H220mm	
MFR.: NEKO LIGHTING AG		



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Meng Yongjian  
Test Date:2017-05-18

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity:52%  
Test Distance:5.850m [K=1.0000]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Meng Yongjian  
 Test Date: 2017-05-18

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity: 52%  
 Test Distance: 5.850m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.7V I:0.1314A P:27.96W PF:0.9639 Lamp Flux:3333.4x1 lm		
NAME: PURE M-28W-840-30	TYPE:Tracklight	SERIAL No.:
SPEC.:4000K	DIM.: φ90mm*H220mm	
MFR.: NEKO LIGHTING AG		

Table--1

UNIT: ×10cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1298	1298	1297	1297	1296	1297	1296	1298	1297	1298	1297	1297	1298	1298	1297	1297	1296	1297	1296
5	1267	1272	1276	1275	1270	1263	1254	1251	1247	1247	1243	1247	1259	1261	1271	1275	1275	1269	1265
10	1139	1150	1145	1145	1123	1112	1088	1077	1060	1058	1046	1055	1083	1090	1113	1119	1129	1121	1123
15	760	770	751	750	720	710	674	672	642	639	618	631	664	665	698	708	734	728	746
20	251	258	245	244	219	209	186	182	167	176	153	163	182	176	197	205	223	220	236
25	38.4	39.3	36.9	36.0	32.2	29.9	27.0	27.0	26.1	26.1	24.5	24.9	26.9	27.5	30.0	30.8	32.5	32.2	34.7
30	14.4	14.5	14.5	14.4	13.9	13.5	13.1	13.4	13.4	13.5	13.3	13.2	13.5	13.9	14.7	15.0	14.8	14.3	14.2
35	9.68	9.94	10.0	9.84	9.52	9.29	9.20	9.15	9.03	9.02	8.99	8.90	8.74	9.14	9.92	10.0	9.99	9.74	9.49
40	6.44	6.75	6.74	6.55	6.19	6.02	5.88	5.66	5.59	5.56	5.49	5.49	5.26	5.60	6.20	6.45	6.61	6.63	6.76
45	4.03	4.31	4.48	4.41	4.27	4.18	4.12	3.93	3.89	3.87	3.80	3.84	3.62	3.86	4.25	4.33	4.40	4.39	4.49
50	2.64	2.77	2.85	2.79	2.65	2.60	2.50	2.40	2.37	2.36	2.31	2.32	2.24	2.35	2.56	2.60	2.68	2.74	2.85
55	1.75	1.77	1.75	1.72	1.65	1.60	1.54	1.50	1.46	1.45	1.42	1.43	1.47	1.49	1.55	1.56	1.63	1.66	1.71
60	1.11	1.10	1.07	1.04	0.99	0.96	0.90	0.88	0.84	0.83	0.81	0.83	0.86	0.87	0.90	0.91	0.96	0.98	1.03
65	0.48	0.48	0.44	0.42	0.38	0.36	0.32	0.31	0.29	0.29	0.27	0.28	0.30	0.30	0.33	0.34	0.37	0.39	0.43
70	0.08	0.08	0.07	0.07	0.06	0.05	0.05	0.05	0.04	0.04	0.05	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.07
75	0.03	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.02	0.03	0.02	0.03	0.03	0.03	0.03
80	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
85	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01
90	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Meng Yongjian  
 Test Date:2017-05-18

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity:52%  
 Test Distance:5.850m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.7V I:0.1314A P:27.96W PF:0.9639 Lamp Flux:3333.4x1 lm		
NAME: PURE M-28W-840-30	TYPE:Tracklight	SERIAL No.:
SPEC.:4000K	DIM.: φ90mm*H220mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: ×10cd

C (DEG) \ γ (DEG)	285	300	315	330	345											
0	1298	1297	1298	1297	1297											
5	1258	1259	1259	1263	1262											
10	1105	1111	1113	1130	1130											
15	732	752	750	772	775											
20	228	250	256	271	265											
25	34.6	39.3	40.2	42.0	40.6											
30	14.8	15.6	15.6	15.1	14.6											
35	10.1	10.6	10.6	10.3	10.1											
40	7.02	7.20	7.13	7.09	6.95											
45	4.52	4.58	4.53	4.48	4.42											
50	2.87	2.97	2.96	2.96	2.90											
55	1.75	1.82	1.81	1.81	1.80											
60	1.07	1.12	1.12	1.12	1.12											
65	0.46	0.50	0.50	0.51	0.50											
70	0.07	0.09	0.09	0.10	0.09											
75	0.03	0.03	0.03	0.03	0.03											
80	0.02	0.02	0.02	0.02	0.02											
85	0.02	0.01	0.02	0.01	0.01											
90	0.01	0.01	0.01	0.01	0.01											

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 15.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Temperature:25.3DEG	Humidity:52%
Operators:Meng Yongjian	Test Distance:5.850m [K=1.0000]
Test Date:2017-05-18	Remarks:

Photometric Data Table [cd]

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	12976	12977	12970	12972	12965	12970	12965	12979	12973	12975
3.0	12910	12905	12875	12867	12860	12860	12810	12808	12775	12759
6.0	12540	12604	12641	12644	12557	12469	12349	12317	12243	12232
9.0	11795	11914	11905	11923	11725	11635	11397	11269	11155	11130
12.0	10179	10308	10233	10218	9955	9832	9498	9428	9204	9206
15.0	7598	7695	7508	7501	7196	7097	6738	6719	6424	6390
18.0	4397	4485	4291	4272	3954	3843	3516	3489	3247	3246
21.0	1759	1820	1719	1808	1516	1526	1270	1243	1138	1139
24.0	599.3	576.2	581.3	532.3	503.9	431.4	384.2	381.7	359.8	359.1
27.0	213.3	216.1	204.5	202.5	190.1	180.9	171.9	175.2	173.4	173.6
30.0	144.1	144.9	145.1	144.4	138.5	135.2	131.3	134.2	134.4	134.6
33.0	115.9	117.5	118.6	116.0	111.6	108.3	106.3	106.3	106.4	106.0
36.0	89.21	91.80	92.75	91.00	88.60	86.76	86.00	84.37	83.30	83.04
39.0	70.76	73.97	74.35	72.36	69.55	67.77	65.91	62.71	61.34	61.18
42.0	51.34	54.19	54.84	53.51	51.38	50.62	49.96	47.89	47.71	47.63
45.0	40.25	43.09	44.82	44.09	42.66	41.81	41.24	39.28	38.93	38.74
48.0	32.84	34.59	35.38	34.54	32.58	31.82	30.67	29.06	28.87	28.75
51.0	24.01	25.07	25.79	25.31	24.03	23.59	22.70	21.83	21.39	21.29
54.0	18.86	19.20	19.15	18.78	17.96	17.53	16.90	16.49	16.03	15.94
57.0	14.94	14.96	14.56	14.25	13.71	13.27	12.72	12.40	11.94	11.87
60.0	11.06	11.05	10.67	10.40	9.912	9.550	9.031	8.824	8.430	8.339
63.0	7.305	7.307	6.892	6.647	6.091	5.802	5.302	5.140	4.805	4.756
66.0	3.694	3.690	3.429	3.275	2.916	2.720	2.388	2.334	2.130	2.131
69.0	1.264	1.242	1.118	1.040	0.8605	0.7481	0.6532	0.6283	0.5892	0.6432
72.0	0.4213	0.3907	0.3796	0.3536	0.3529	0.3276	0.3332	0.3102	0.3307	0.3080
75.0	0.2780	0.2469	0.2627	0.2338	0.2561	0.2316	0.2517	0.2251	0.2517	0.2294
78.0	0.2145	0.1835	0.1992	0.1727	0.1991	0.1705	0.1970	0.1727	0.1948	0.1748
81.0	0.1750	0.1442	0.1663	0.1377	0.1597	0.1377	0.1619	0.1355	0.1597	0.1399
84.0	0.1466	0.1224	0.1400	0.1272	0.1400	0.1281	0.1400	0.1268	0.1335	0.1281
87.0	0.1312	0.1181	0.1247	0.1181	0.1225	0.1203	0.1269	0.1203	0.1225	0.1203
90.0	0.1203	0.1181	0.1181	0.1181	0.1203	0.1203	0.1224	0.1224	0.1203	0.1203
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	12972	12971	12976	12977	12970	12972	12965	12979	12965	12979
3.0	12742	12786	12860	12875	12907	12904	12914	12915	12918	12875
6.0	12194	12243	12399	12430	12551	12602	12603	12524	12474	12401
9.0	11044	11103	11355	11428	11622	11693	11757	11653	11633	11499
12.0	9048	9178	9456	9542	9780	9861	10039	9963	10017	9837
15.0	6185	6309	6641	6650	6980	7080	7337	7285	7461	7318
18.0	3017	3067	3359	3384	3698	3812	4073	4032	4251	4132
21.0	1041	1051	1179	1211	1450	1428	1644	1542	1745	1590
24.0	333.5	335.4	370.6	380.7	420.1	474.3	470.0	508.3	505.2	540.9
27.0	168.6	171.2	179.4	181.8	192.4	197.7	200.1	195.9	202.9	205.9
30.0	132.7	132.4	135.4	138.9	147.2	149.6	148.2	143.3	142.0	148.0
33.0	104.9	103.4	103.2	107.4	116.2	117.9	117.0	113.8	111.8	118.3
36.0	82.66	82.32	80.35	84.49	92.14	93.13	92.96	90.94	88.57	94.02
39.0	60.44	60.67	59.02	62.60	69.86	71.52	73.39	73.10	73.26	76.59
42.0	46.74	46.64	44.09	47.08	51.86	52.78	54.16	54.37	55.55	57.03
45.0	38.03	38.38	36.22	38.59	42.45	43.32	44.02	43.93	44.88	45.22
48.0	28.05	28.12	27.00	28.84	31.82	32.40	33.61	34.24	35.57	36.08
51.0	20.81	20.94	20.59	21.41	23.01	23.19	24.05	24.64	25.49	25.70
54.0	15.60	15.81	15.98	16.31	16.96	17.05	17.77	18.17	18.75	19.10
57.0	11.61	11.77	12.11	12.27	12.68	12.85	13.51	13.73	14.21	14.64
60.0	8.128	8.297	8.600	8.667	8.991	9.115	9.634	9.846	10.34	10.72
63.0	4.562	4.686	4.939	5.024	5.347	5.468	5.963	6.166	6.645	7.008
66.0	1.994	2.065	2.192	2.254	2.502	2.585	2.863	2.986	3.306	3.562
69.0	0.5778	0.5804	0.6471	0.6496	0.7409	0.8056	0.8953	0.9162	1.089	1.175
72.0	0.3329	0.3146	0.3101	0.3351	0.3275	0.3615	0.3667	0.4075	0.4167	0.4472
75.0	0.2561	0.2404	0.2381	0.2626	0.2447	0.2757	0.2643	0.2954	0.2818	0.3064
78.0	0.1992	0.1814	0.1835	0.2122	0.1857	0.2166	0.1988	0.2319	0.2141	0.2385
81.0	0.1641	0.1464	0.1464	0.1728	0.1507	0.1772	0.1573	0.1859	0.1682	0.1903
84.0	0.1379	0.1246	0.1355	0.1531	0.1311	0.1531	0.1333	0.1575	0.1377	0.1597
87.0	0.1225	0.1203	0.1246	0.1356	0.1203	0.1356	0.1181	0.1378	0.1203	0.1400
90.0	0.1203	0.1203	0.1268	0.1246	0.1203	0.1224	0.1181	0.1203	0.1203	0.1203
G/C	300.0	315.0	330.0	345.0						
0.0	12973	12975	12972	12971						
3.0	12869	12841	12857	12872						
6.0	12410	12424	12471	12475						
9.0	11528	11558	11707	11707						
12.0	9947	9973	10122	10172						
15.0	7516	7497	7723	7749						
18.0	4405	4447	4650	4586						
21.0	1778	1809	1927	1872						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-05-18

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288

Humidity: 52%

Test Distance: 5.850m [K=1.0000]

Remarks:

Photometric Data Table [cd]

24.0	573.5	630.0	618.3	639.7
27.0	223.4	223.6	226.1	221.2
30.0	156.2	155.9	151.0	146.3
33.0	125.5	125.0	121.9	119.1
36.0	97.73	97.05	95.42	93.14
39.0	78.49	77.60	76.75	75.67
42.0	58.40	57.82	57.91	56.47
45.0	45.80	45.27	44.83	44.19
48.0	37.12	36.91	36.76	36.26
51.0	26.78	26.58	26.63	26.21
54.0	19.95	19.85	19.87	19.69
57.0	15.24	15.20	15.19	15.12
60.0	11.22	11.22	11.22	11.17
63.0	7.516	7.511	7.615	7.516
66.0	3.921	3.914	4.004	3.890
69.0	1.426	1.457	1.550	1.433
72.0	0.4429	0.4546	0.4407	0.4343
75.0	0.2840	0.2998	0.2709	0.2866
78.0	0.2141	0.2298	0.2031	0.2210
81.0	0.1660	0.1816	0.1594	0.1794
84.0	0.1355	0.1575	0.1334	0.1553
87.0	0.1181	0.1378	0.1203	0.1400
90.0	0.1181	0.1203	0.1203	0.1246

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Meng Yongjian  
 Test Date: 2017-05-18

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity: 52%  
 Test Distance: 5.850m [K=1.0000]  
 Remarks: