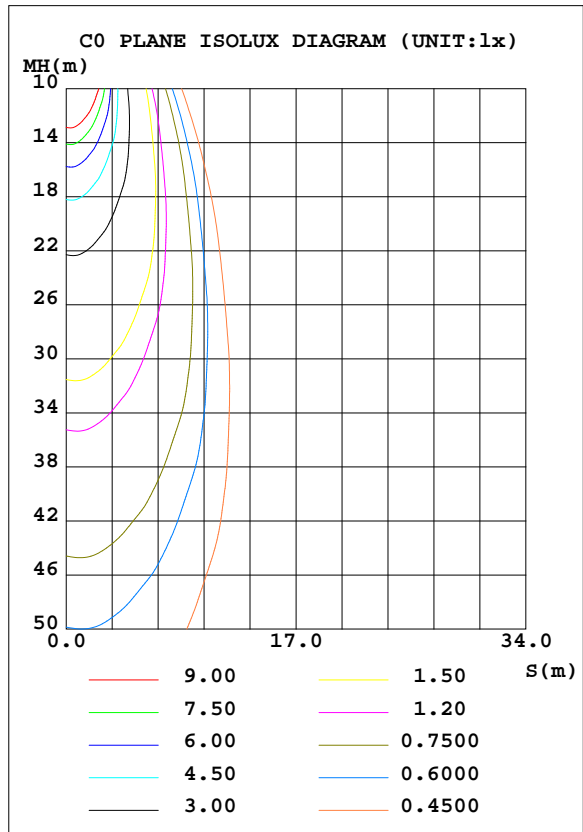
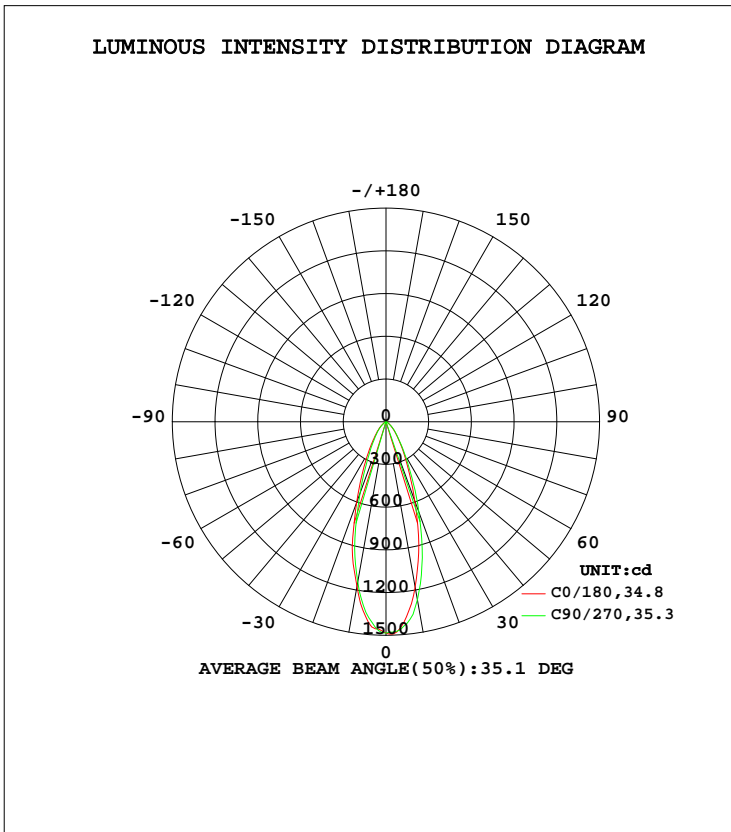


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.06V I:0.1022A P:11.440W PF:0.9325 Freq:60.01Hz Lamp Flux:755.039x1 lm		
NAME: TH453 TH454 TH457	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: NUVO	SUR.:	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	TH457	Imax(cd)	1498	S/MH(C0/180)	0.58
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	0.55
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	755.04	η UP, DN(C0-180)	0.0,52.8
NOMINAL FLUX(lm)	755.039	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,47.1
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	η down(%)	99.9	CIBSE SHR MAX	0.60



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Link Chai
 Test Date:2021-12-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:60%
 Test Distance:26.000m [K=1.4587]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1180	1210	1271	1272	1177	1138	1144	1207	0- 10	128.3	128.3	17,17
20	594.5	643.6	675.8	680.9	601.8	576.2	534.9	597.5	10- 20	248.7	377.0	49.9,49.9
30	245.6	282.0	267.0	284.9	246.7	229.6	209.2	244.8	20- 30	183.4	560.4	74.2,74.2
40	105.9	118.1	110.7	121.0	104.6	97.48	93.12	103.9	30- 40	103.5	664.0	87.9,87.9
50	44.34	48.19	48.04	47.64	44.78	42.38	37.44	43.30	40- 50	55.13	719.1	95.2,95.2
60	14.93	17.11	13.66	16.34	15.15	13.53	8.978	12.44	50- 60	23.69	742.8	98.4,98.4
70	5.621	6.069	4.463	5.456	4.406	3.771	2.348	3.162	60- 70	8.184	751.0	99.5,99.5
80	2.327	2.186	1.946	1.959	1.363	0.6435	0.4828	0.4860	70- 80	2.652	753.6	99.8,99.8
90	0	0	0	0	0	0	0	0	80- 90	0.5111	754.1	99.9,99.9
100	0	0	0	0	0	0	0	0	90-100	0	754.1	99.9,99.9
110	0	0	0	0	0	0	0	0	100-110	0	754.1	99.9,99.9
120	0	0	0	0	0	0	0	0	110-120	0	754.1	99.9,99.9
130	0	0	0	0	0	0	0	0	120-130	0	754.1	99.9,99.9
140	0	0	0	0	0	0	0	0	130-140	0.0000	754.1	99.9,99.9
150	0	0	0	0	0.4036	0.4838	0.5692	0.5699	140-150	0.0571	754.2	99.9,99.9
160	0.8005	0.6423	0.5631	0.5686	1.444	1.532	1.540	1.467	150-160	0.2717	754.5	99.9,99.9
170	1.363	1.449	1.458	1.384	2.245	1.935	1.864	1.872	160-170	0.4048	754.9	100,100
180	1.924	2.248	1.864	1.872	2.325	1.851	1.864	1.787	170-180	0.1743	755.0	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 696.19 lm

%lum = 92.2%

%lamp = 92.2%

Conical surface Flux(120deg): 742.78 lm

%lum = 98.4%

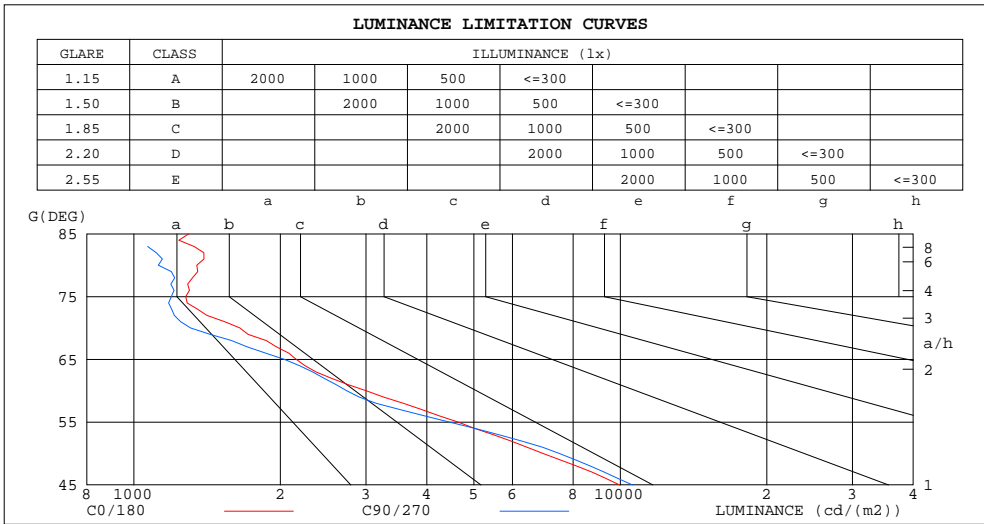
%lamp = 98.4%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Link Chai
 Test Date:2021-12-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:60%
 Test Distance:26.000m [K=1.4587]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.06V I:0.1022A P:11.440W PF:0.9325 Freq:60.01Hz Lamp Flux:755.039x1 lm		
NAME: 轨道灯	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: 东莞市胜智灯饰有限公司	SUR.:	Shielding Angle:N/A



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1296	285
80	1347	1123
75	1278	1194
70	1652	1308
65	2156	2037
60	3000	2738
55	4637	4450
50	6932	7490
45	9966	10594

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Link Chai
 Test Date:2021-12-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:60%
 Test Distance:26.000m [K=1.4587]
 Remarks:

WEC AND CCEC

Test:U:120.06V I:0.1022A P:11.440W PF:0.9325 Freq:60.01Hz Lamp Flux:755.039x1 lm		
NAME: 轨道灯	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: 东莞市胜智灯饰有限公司	SUR.:	Shielding Angle:N/A

ρcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	
ρw																0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.175	.100	.032	.168	.096	.031	.156	.089	.029	.144	.083	.027	.133	.077	.025	
2.0	.167	.092	.028	.162	.089	.027	.151	.084	.026	.141	.079	.025	.132	.075	.024	
3.0	.159	.084	.025	.154	.082	.025	.145	.078	.024	.136	.075	.023	.129	.071	.022	
4.0	.150	.078	.023	.146	.076	.023	.138	.073	.022	.131	.070	.021	.124	.068	.021	
5.0	.142	.073	.021	.139	.071	.021	.132	.069	.020	.126	.066	.020	.120	.064	.019	
6.0	.135	.068	.019	.132	.067	.019	.126	.065	.019	.121	.063	.018	.115	.061	.018	
7.0	.129	.064	.018	.126	.063	.018	.121	.061	.018	.116	.059	.017	.111	.058	.017	
8.0	.123	.060	.017	.120	.059	.017	.116	.058	.016	.111	.056	.016	.107	.055	.016	
9.0	.117	.057	.016	.115	.056	.016	.111	.055	.016	.107	.054	.015	.103	.052	.015	
10.0	.112	.054	.015	.110	.053	.015	.106	.052	.015	.103	.051	.015	.100	.050	.014	

ρcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	
ρw																0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.191	.191	.191	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.172	.158	.146	.147	.136	.126	.101	.093	.087	.058	.054	.051	.019	.017	.016	
2.0	.157	.133	.114	.134	.115	.099	.092	.079	.069	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.091	.123	.099	.079	.085	.069	.055	.049	.040	.033	.016	.013	.011	
4.0	.133	.100	.074	.114	.086	.064	.079	.060	.045	.046	.035	.027	.015	.011	.009	
5.0	.124	.088	.061	.107	.076	.053	.074	.053	.038	.043	.031	.022	.014	.010	.007	
6.0	.117	.079	.051	.100	.068	.045	.069	.048	.032	.040	.028	.019	.013	.009	.006	
7.0	.110	.071	.044	.095	.062	.038	.065	.043	.027	.038	.025	.016	.012	.008	.005	
8.0	.104	.065	.038	.089	.056	.033	.062	.039	.023	.036	.023	.014	.012	.008	.005	
9.0	.099	.059	.033	.085	.052	.029	.059	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.094	.055	.029	.081	.048	.025	.056	.034	.018	.033	.020	.011	.011	.007	.004	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Link Chai
 Test Date:2021-12-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:60%
 Test Distance:26.000m [K=1.4587]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.06V I:0.1022A P:11.440W PF:0.9325 Freq:60.01Hz Lamp Flux:755.039x1 lm		
NAME: 轨道灯	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: 东莞市胜智灯饰有限公司	SUR.:	Shielding Angle:N/A

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	15.4	16.3	15.7	16.5	16.7	15.6	16.5	15.8	16.7	16.9
3H	15.5	16.3	15.7	16.5	16.7	15.6	16.4	15.9	16.6	16.8
4H	15.4	16.2	15.7	16.4	16.7	15.6	16.4	15.8	16.6	16.8
6H	15.4	16.2	15.7	16.4	16.6	15.5	16.3	15.8	16.5	16.8
8H	15.4	16.1	15.7	16.4	16.6	15.5	16.2	15.8	16.5	16.7
12H	15.4	16.1	15.7	16.3	16.6	15.5	16.2	15.8	16.4	16.7
4H 2H	15.4	16.2	15.7	16.4	16.6	15.6	16.3	15.8	16.6	16.8
3H	15.4	16.1	15.8	16.4	16.7	15.6	16.3	15.9	16.5	16.8
4H	15.4	16.1	15.8	16.4	16.7	15.6	16.2	15.9	16.5	16.8
6H	15.5	16.0	15.8	16.3	16.7	15.6	16.1	15.9	16.4	16.8
8H	15.5	16.0	15.9	16.3	16.7	15.5	16.1	15.9	16.4	16.8
12H	15.5	15.9	15.9	16.3	16.7	15.5	16.0	15.9	16.3	16.7
8H 4H	15.4	15.9	15.8	16.2	16.6	15.5	16.0	15.9	16.3	16.7
6H	15.4	15.8	15.8	16.2	16.6	15.5	15.9	15.9	16.3	16.7
8H	15.4	15.8	15.9	16.2	16.7	15.5	15.9	15.9	16.3	16.7
12H	15.4	15.8	15.9	16.2	16.7	15.5	15.8	15.9	16.2	16.7
12H 4H	15.3	15.8	15.7	16.2	16.6	15.4	15.9	15.8	16.3	16.7
6H	15.4	15.7	15.8	16.2	16.6	15.5	15.8	15.9	16.2	16.7
8H	15.4	15.7	15.9	16.2	16.6	15.5	15.8	15.9	16.2	16.7
Variations with the observer position at spacings:										
S = 1.0H	+ 1.6 / - 2.8					+ 1.7 / - 3.3				
1.5H	+ 1.9 / - 2.0					+ 2.1 / - 2.2				
2.0H	+ 3.2 / - 3.0					+ 3.4 / - 3.2				

CIE Pub.117, 755.0 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -1.0)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Link Chai
 Test Date:2021-12-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:60%
 Test Distance:26.000m [K=1.4587]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.06V I:0.1022A P:11.440W PF:0.9325 Freq:60.01Hz Lamp Flux:755.039x1 lm		
NAME: 轨道灯	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: 东莞市胜智灯饰有限公司	SUR.:	Shielding Angle:N/A

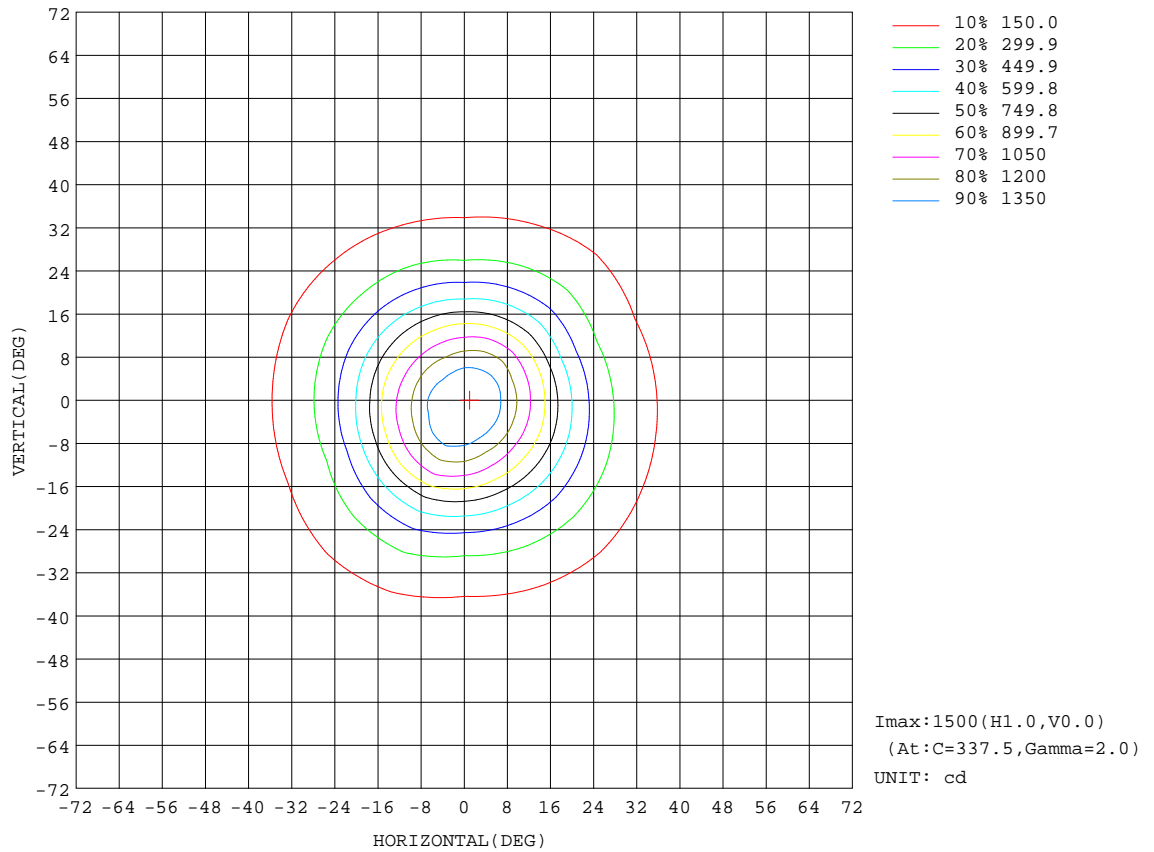
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	84	77	73	83	77	73	82	76	73	69
0.80	92	85	81	91	85	81	90	84	81	77
1.00	97	91	87	96	90	87	94	90	86	82
1.25	101	96	92	100	95	92	98	94	91	86
1.50	104	99	96	103	98	95	101	97	94	89
2.00	107	103	100	106	102	99	103	100	97	92
2.50	109	105	102	108	104	101	104	102	99	93
3.00	111	107	104	109	106	103	106	103	101	95
4.00	113	110	108	111	109	106	107	105	104	96
5.00	114	112	110	112	110	108	108	107	105	97
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Link Chai
 Test Date:2021-12-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:60%
 Test Distance:26.000m [K=1.4587]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.06V I:0.1022A P:11.440W PF:0.9325 Freq:60.01Hz Lamp Flux:755.039x1 lm		
NAME: 轨道灯	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: 东莞市胜智灯饰有限公司	SUR.:	Shielding Angle:N/A

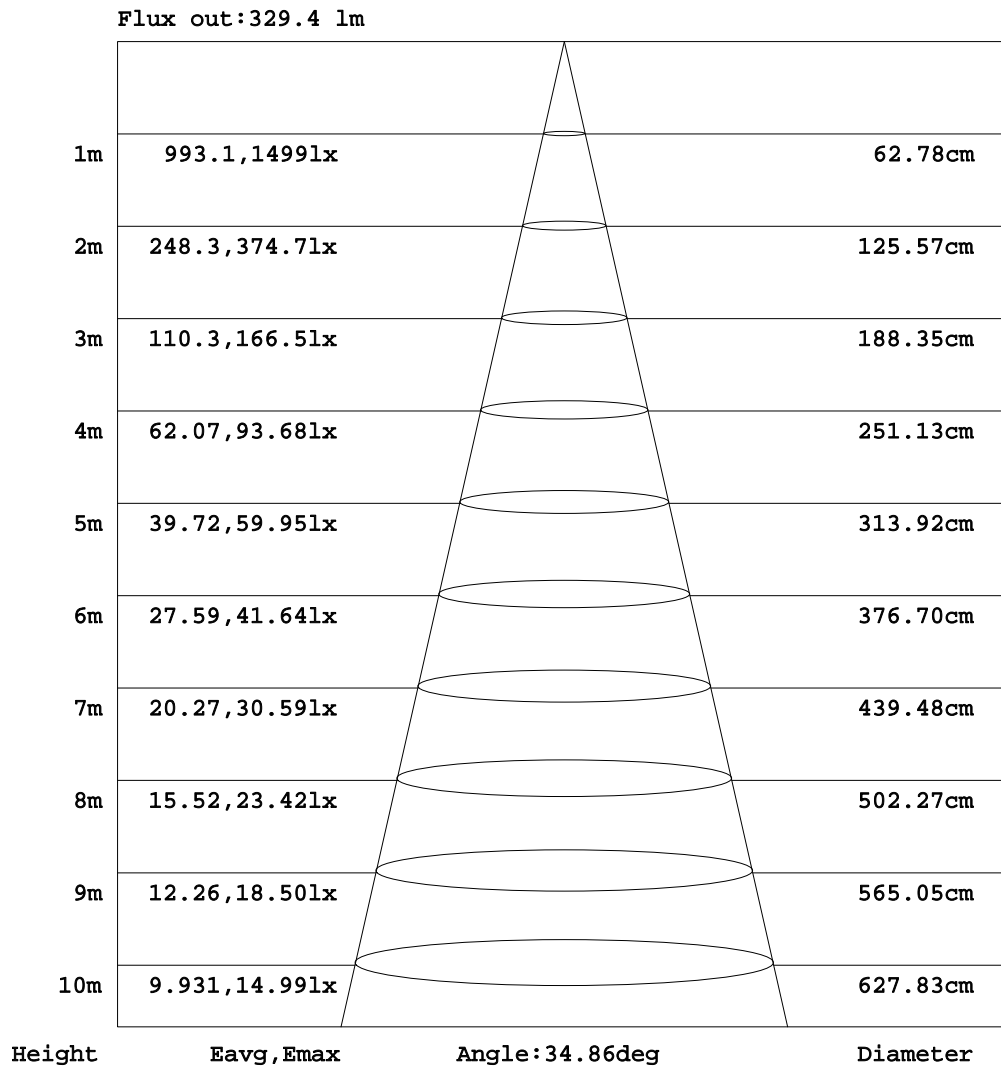


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Link Chai
 Test Date:2021-12-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:60%
 Test Distance:26.000m [K=1.4587]
 Remarks:

AAI Figure

Test:U:120.06V I:0.1022A P:11.440W PF:0.9325 Freq:60.01Hz Lamp Flux:755.039x1 lm		
NAME: 轨道灯	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: 东莞市胜智灯饰有限公司	SUR.:	Shielding Angle:N/A

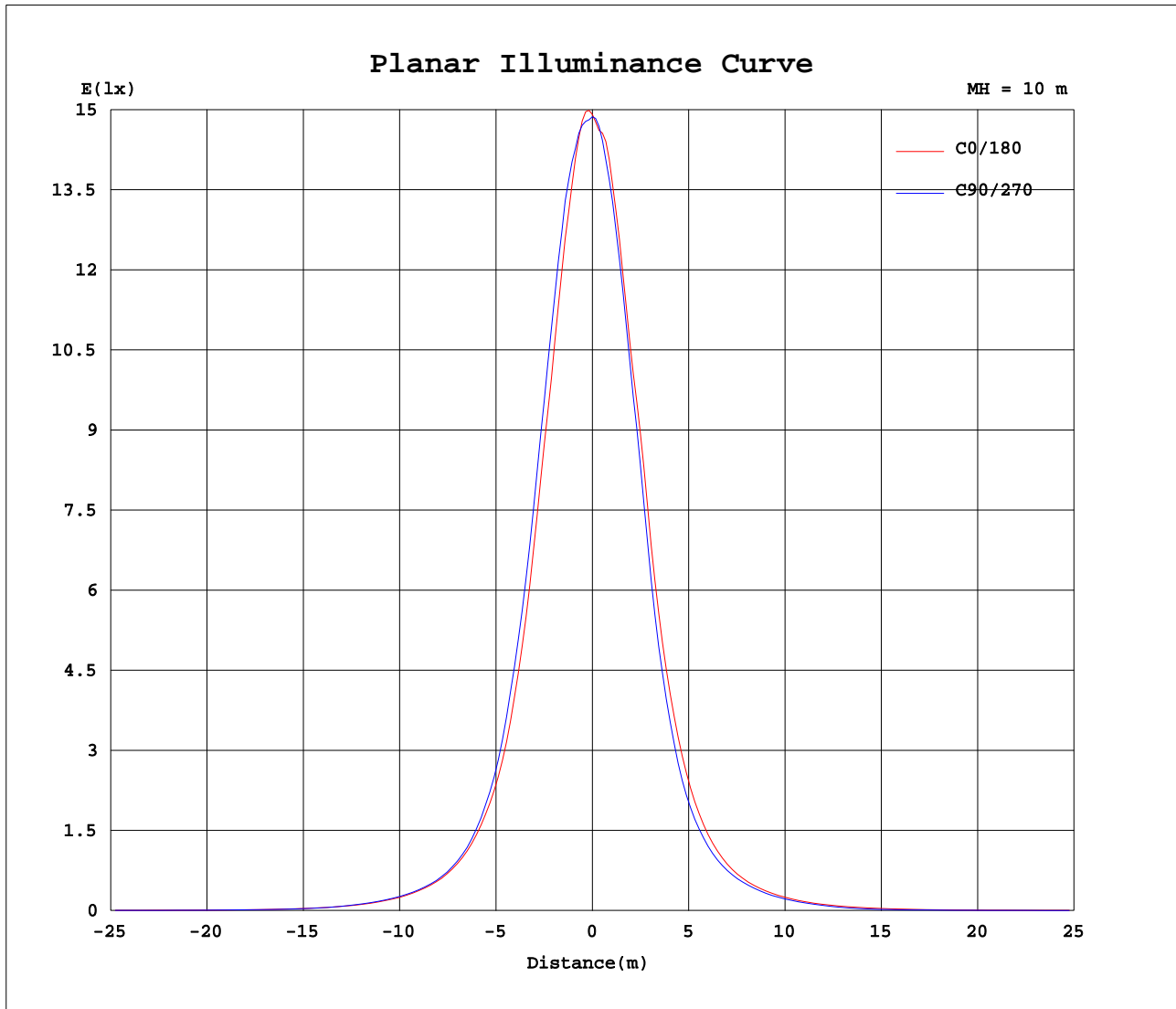


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Link Chai
 Test Date:2021-12-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:60%
 Test Distance:26.000m [K=1.4587]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.9DEG
Operators: Link Chai
Test Date: 2021-12-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity: 60%
Test Distance: 26.000m [K=1.4587]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.06V I:0.1022A P:11.440W PF:0.9325 Freq:60.01Hz Lamp Flux:755.039x1 lm		
NAME: 轨道灯	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: 东莞市胜智灯饰有限公司	SUR.:	Shielding Angle:N/A

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	1484	1484	1484	1484	1484	1484	1484	1484	1484	1484	1484	1484	1484	1484	1484	1484			
5	1418	1414	1418	1435	1441	1464	1459	1435	1416	1390	1371	1374	1382	1405	1418	1436			
10	1180	1188	1210	1227	1271	1312	1272	1222	1177	1155	1138	1132	1144	1186	1207	1183			
15	893	911	922	947	989	1040	1004	955	917	888	865	847	845	866	895	896			
20	595	625	644	654	676	713	681	636	602	595	576	552	535	566	598	575			
25	376	406	435	431	429	473	447	391	387	384	367	349	327	355	380	354			
30	246	268	282	280	267	305	285	248	247	245	230	221	209	228	245	222			
35	160	171	181	179	168	194	183	160	157	157	147	141	137	148	161	147			
40	106	109	118	115	111	122	121	104	105	105	97.5	95.9	93.1	98.2	104	97.9			
45	70.1	73.4	76.6	75.5	74.8	78.3	76.9	68.2	70.2	69.4	66.4	64.9	61.5	65.8	68.8	65.5			
50	44.3	46.9	48.2	47.9	48.0	48.8	47.6	43.9	44.8	43.9	42.4	40.6	37.4	40.2	43.3	42.2			
55	26.5	27.7	29.5	28.7	25.5	28.3	28.8	26.9	27.1	26.3	25.1	21.9	16.6	21.1	24.4	24.1			
60	14.9	15.6	17.1	15.5	13.7	14.8	16.3	15.6	15.2	14.1	13.5	11.0	8.98	9.70	12.4	12.8			
65	9.07	9.27	10.1	9.65	8.59	8.66	9.39	9.12	8.01	7.47	7.49	6.39	5.17	5.38	6.43	6.92			
70	5.62	5.63	6.07	5.12	4.46	4.42	5.46	5.55	4.41	3.86	3.77	2.66	2.35	2.11	3.16	3.81			
75	3.29	3.22	3.47	3.25	3.08	2.94	2.94	2.94	1.84	1.53	1.45	1.38	1.29	1.22	1.30	1.79			
80	2.33	2.34	2.19	2.11	1.95	1.96	1.96	2.12	1.36	0.72	0.64	0.49	0.48	0.48	0.49	1.14			
85	1.12	0.89	0.41	0.33	0.25	0.34	0.41	0.90	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.08	0.08	0.16	0.24	0.17	0.17	0.24			
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.40	0.48	0.48	0.57	0.57	0.65	0.57	0.49			
155	0.32	0.24	0.16	0.16	0.08	0.00	0.24	0.16	0.88	0.97	0.89	0.97	1.05	1.06	0.90	1.06			
160	0.80	0.64	0.64	0.48	0.56	0.57	0.57	0.65	1.44	1.53	1.53	1.54	1.54	1.55	1.47	1.63			
165	1.28	1.13	1.13	1.21	1.22	0.90	1.22	1.14	1.92	1.93	1.94	1.95	1.94	2.04	1.87	1.87			
170	1.36	1.44	1.45	1.38	1.46	1.31	1.38	1.46	2.24	1.93	1.93	2.19	1.86	1.96	1.87	1.87			
175	1.84	1.77	1.77	1.94	1.86	1.79	1.79	1.71	2.33	1.93	1.93	2.19	1.86	1.96	1.87	1.87			
180	1.92	1.93	2.25	1.86	1.86	1.79	1.87	1.79	2.33	1.93	1.85	2.27	1.86	1.88	1.79	1.87			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Link Chai
 Test Date:2021-12-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:60%
 Test Distance:26.000m [K=1.4587]
 Remarks: