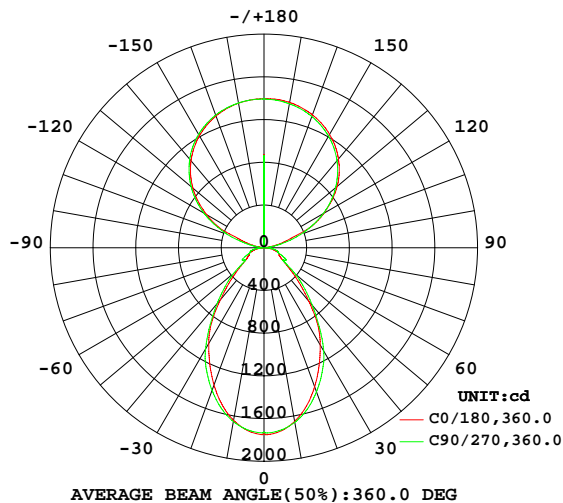


## LUMINAIRE PHOTOMETRIC TEST REPORT

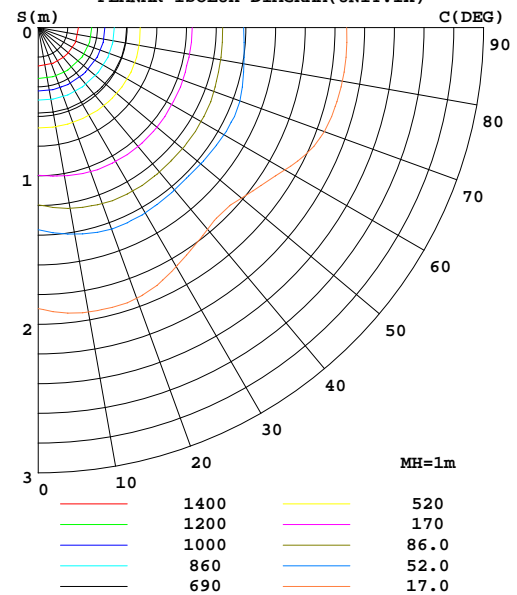
Test:U:229.65V I:0.2538A P:56.925W PF:0.9765 Freq:49.99Hz Lamp Flux:6619.4x1 lm		
NAME: LED Free Standing Luminaire	TYPE: TWINS 60W	WEIGHT:
SPEC.:	DIM.: 610*280*42	SERIAL No.:
MFR.: Cyanlite	SUR.:0.6*0.184	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 116.28 lm/W			
MODEL		Imax(cd)	1751	S/MH(C0/180)	0.97
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	1.03
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	6619.4	$\eta$ UP,DN(C0-180)	29.8,20.3
NOMINAL FLUX(lm)	6619.4	CIE CLASS	DIFFUSE	$\eta$ UP,DN(C180-360)	30.0,20.0
LAMPS INSIDE	1	$\eta$ up(%)	59.7	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	230	$\eta$ down(%)	40.3	CIBSE SHR MAX	1.10

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



PLANAR ISOLUX DIAGRAM(UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:LYK  
 Test Date:2020-2-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:9.370m [K=1.0672]  
 Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

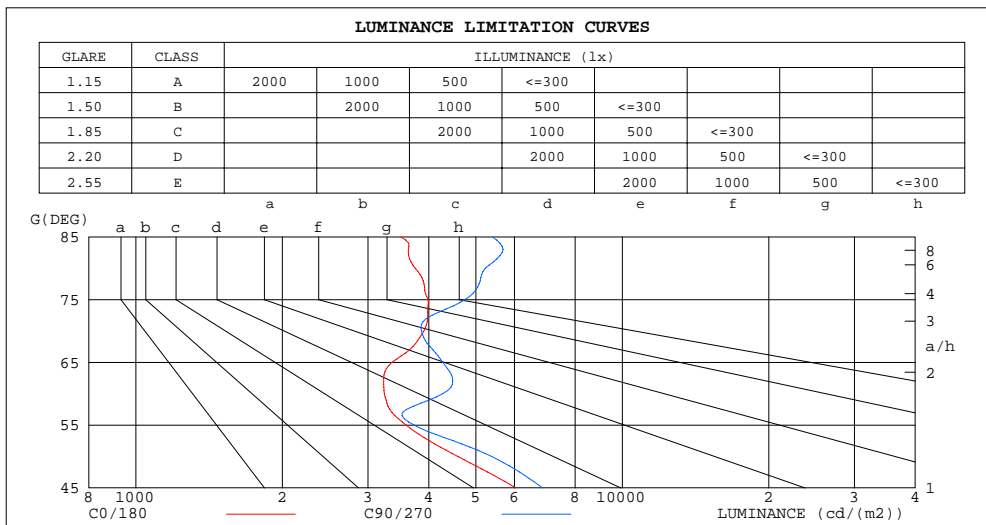
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\%lum, lamp$
10	1652	1657	1660	1634	1641	1643	1653	1639	0- 10	161.4	161.4	2.44,2.44
20	1386	1413	1437	1385	1368	1389	1422	1391	10- 20	430.5	591.8	8.94,8.94
30	1054	1087	1120	1061	1036	1060	1095	1066	20- 30	569.0	1161	17.5,17.5
40	654.8	708.1	703.9	693.2	634.8	679.9	682.5	694.8	30- 40	550.8	1712	25.9,25.9
50	325.7	411.4	382.2	419.2	313.5	390.5	364.5	420.4	40- 50	403.6	2115	32,32
60	178.9	144.8	235.9	150.7	177.5	134.8	234.6	152.9	50- 60	246.8	2362	35.7,35.7
70	147.6	98.15	145.9	90.23	143.3	97.77	141.0	90.67	60- 70	151.0	2513	38,38
80	71.94	75.20	100.2	80.32	67.96	73.73	97.60	84.45	70- 80	108.4	2621	39.6,39.6
90	1.693	1.659	1.831	1.651	1.605	1.671	1.803	1.653	80- 90	42.99	2664	40.3,40.3
100	54.26	74.41	100.5	66.47	46.28	60.96	93.31	72.08	90-100	21.88	2686	40.6,40.6
110	285.7	355.6	362.4	342.5	261.4	335.1	362.3	363.5	100-110	196.2	2882	43.5,43.5
120	648.2	638.4	641.2	623.7	620.4	623.9	648.9	650.3	110-120	482.4	3365	50.8,50.8
130	893.9	883.5	875.9	867.5	869.6	874.6	890.9	896.9	120-130	678.8	4044	61.1,61.1
140	1086	1072	1064	1059	1064	1070	1082	1088	130-140	756.2	4800	72.5,72.5
150	1228	1214	1208	1205	1211	1215	1226	1230	140-150	719.4	5519	83.4,83.4
160	1325	1314	1309	1309	1314	1314	1323	1327	150-160	586.5	6106	92.2,92.2
170	1382	1373	1369	1371	1375	1373	1377	1381	160-170	381.5	6487	98,98
180	1396	1396	1396	1396	1396	1396	1396	1396	170-180	132.1	6619	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:LYK  
Test Date:2020-2-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:9.370m [K=1.0672]  
Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:229.65V I:0.2538A P:56.925W PF:0.9765 Freq:49.99Hz Lamp Flux:6619.4x1 lm		
NAME: LED Free Standing Luminaire	TYPE:TWINS 60W	WEIGHT:
SPEC.:	DIM.: 610*280*42	SERIAL No.:
MFR.: Cyanlite	SUR.:0.6*0.184	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3503	5404
80	3753	5228
75	3989	4749
70	3908	3865
65	3361	4274
60	3241	4274
55	3594	3733
50	4589	5387
45	6038	6850

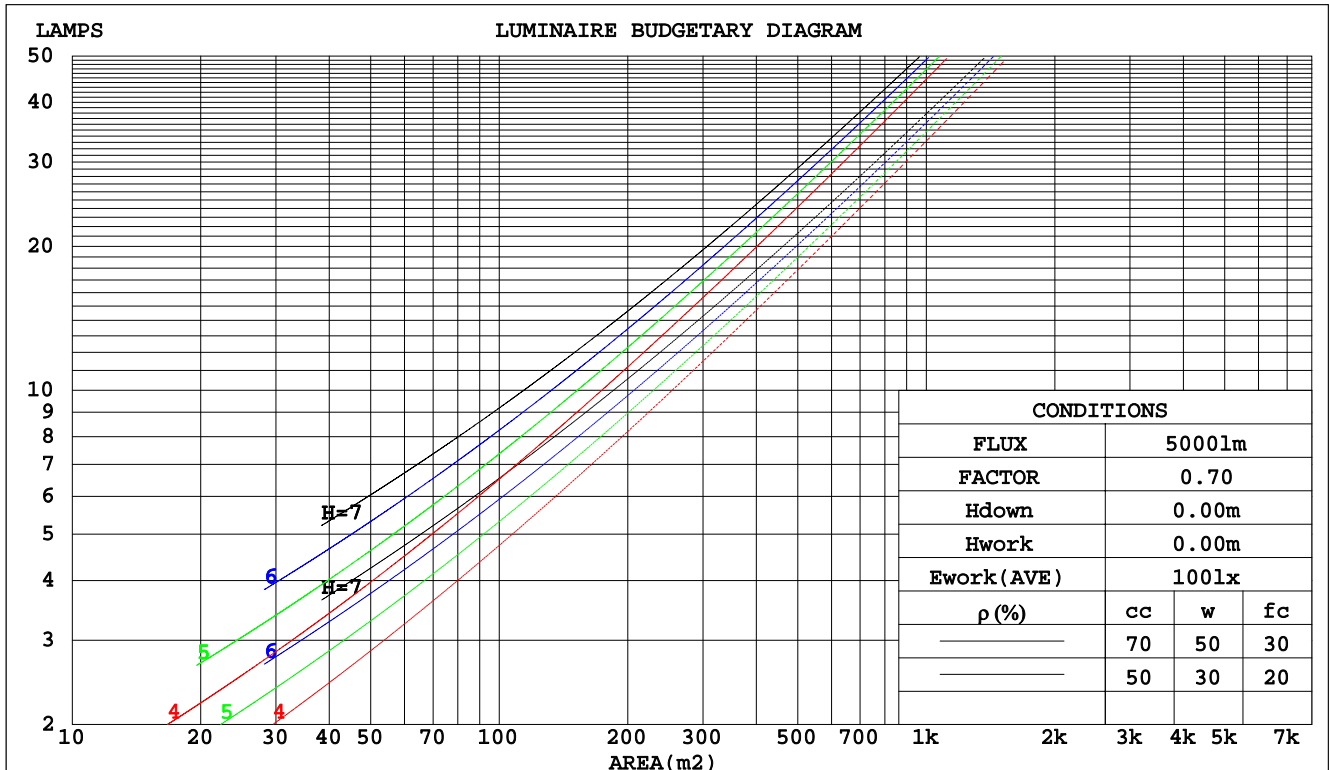
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:LYK  
Test Date:2020-2-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:9.370m [K=1.0672]  
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.65V I:0.2538A P:56.925W PF:0.9765 Freq:49.99Hz Lamp Flux:6619.4x1 lm		
NAME: LED Free Standing Luminaire	TYPE: TWINS 60W	WEIGHT:
SPEC.:	DIM.: 610*280*42	SERIAL No.:
MFR.: Cyanlite	SUR.:0.6*0.184	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.05	1.05	1.05	.95	.95	.95	.78	.78	.78	.62	.62	.62	.47	.47	.47	.40
1.0	.92	.89	.85	.84	.81	.79	.69	.67	.65	.55	.54	.53	.43	.42	.41	.35
2.0	.82	.76	.71	.75	.70	.66	.62	.58	.55	.50	.47	.45	.39	.37	.36	.31
3.0	.72	.66	.60	.66	.61	.56	.55	.51	.48	.45	.42	.40	.35	.33	.32	.27
4.0	.65	.57	.52	.60	.53	.48	.50	.45	.41	.41	.37	.35	.32	.30	.28	.24
5.0	.58	.51	.45	.54	.47	.42	.45	.40	.36	.37	.33	.31	.29	.27	.25	.22
6.0	.53	.45	.40	.49	.42	.37	.41	.36	.32	.34	.30	.27	.27	.25	.23	.20
7.0	.48	.40	.35	.44	.38	.33	.37	.32	.29	.31	.27	.25	.25	.23	.21	.18
8.0	.44	.36	.31	.40	.34	.30	.34	.29	.26	.29	.25	.22	.23	.21	.19	.16
9.0	.40	.33	.28	.37	.31	.27	.32	.27	.23	.27	.23	.20	.22	.19	.17	.15
10.0	.37	.30	.26	.34	.28	.24	.29	.25	.21	.25	.21	.19	.20	.18	.16	.14



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:LYK  
 Test Date:2020-2-21

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:9.370m [K=1.0672]  
 Remarks:

## WEC AND CCEC

Test:U:229.65V I:0.2538A P:56.925W PF:0.9765 Freq:49.99Hz Lamp Flux:6619.4x1 lm		
NAME: LED Free Standing Luminaire	TYPE: TWINS 60W	WEIGHT:
SPEC.:	DIM.: 610*280*42	SERIAL No.:
MFR.: Cyanlite	SUR.:0.6*0.184	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.257	.146	.046	.232	.133	.042	.186	.106	.034	.143	.082	.026	.103	.060	.019		
2.0	.239	.131	.040	.216	.119	.037	.173	.096	.030	.134	.075	.024	.098	.055	.017		
3.0	.221	.118	.035	.200	.107	.032	.161	.087	.027	.125	.069	.021	.092	.051	.016		
4.0	.205	.107	.031	.186	.098	.029	.151	.080	.024	.117	.063	.019	.086	.047	.014		
5.0	.191	.097	.028	.174	.089	.026	.141	.073	.022	.110	.058	.017	.081	.043	.013		
6.0	.179	.090	.026	.163	.082	.024	.132	.068	.020	.103	.054	.016	.077	.040	.012		
7.0	.168	.083	.023	.153	.076	.022	.124	.063	.018	.097	.050	.015	.072	.038	.011		
8.0	.157	.077	.022	.143	.071	.020	.117	.058	.017	.092	.047	.013	.069	.035	.010		
9.0	.148	.072	.020	.135	.066	.019	.111	.055	.015	.087	.044	.013	.065	.033	.010		
10.0	.140	.067	.019	.128	.062	.017	.105	.051	.014	.083	.041	.012	.062	.031	.009		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.646	.646	.646	.552	.552	.552	.377	.377	.377	.216	.216	.216	.069	.069	.069	
1.0	.636	.616	.598	.544	.528	.514	.372	.363	.356	.214	.210	.207	.069	.068	.067	
2.0	.627	.594	.567	.537	.512	.490	.368	.354	.342	.212	.206	.200	.068	.067	.065	
3.0	.620	.579	.546	.531	.499	.473	.365	.347	.332	.211	.202	.196	.068	.066	.064	
4.0	.613	.567	.531	.526	.490	.462	.362	.341	.325	.209	.200	.192	.067	.065	.063	
5.0	.606	.557	.521	.521	.482	.453	.359	.337	.320	.208	.198	.190	.067	.065	.063	
6.0	.600	.550	.514	.516	.476	.447	.356	.333	.317	.206	.196	.188	.067	.064	.062	
7.0	.594	.544	.508	.511	.471	.443	.353	.330	.314	.205	.195	.187	.066	.064	.062	
8.0	.589	.539	.504	.507	.467	.439	.351	.328	.312	.204	.194	.186	.066	.063	.062	
9.0	.584	.534	.501	.503	.464	.437	.349	.326	.310	.203	.193	.185	.066	.063	.061	
10.0	.579	.531	.498	.499	.461	.435	.346	.324	.309	.202	.192	.184	.066	.063	.061	

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:LYK  
Test Date:2020-2-21

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:9.370m [K=1.0672]  
Remarks:

## UGR(Unified Glare Rating) Table

Test:U:229.65V I:0.2538A P:56.925W PF:0.9765 Freq:49.99Hz Lamp Flux:6619.4x1 lm										
NAME: LED Free Standing Luminaire					TYPE: TWINS 60W			WEIGHT:		
SPEC.:					DIM.: 610*280*42			SERIAL No.:		
MFR.: Cyanlite					SUR.:0.6*0.184			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	12.7	13.5	13.6	14.4	15.6	13.1	13.9	14.1	14.9	16.1
3H	13.5	14.2	14.5	15.2	16.4	14.1	14.8	15.0	15.7	17.0
4H	14.0	14.6	15.0	15.6	16.9	14.7	15.3	15.6	16.3	17.6
6H	14.4	15.0	15.4	16.0	17.3	15.4	16.0	16.4	17.0	18.3
8H	14.6	15.2	15.6	16.2	17.5	15.7	16.3	16.7	17.3	18.6
12H	14.7	15.3	15.7	16.3	17.6	15.9	16.5	16.9	17.5	18.8
4H 2H	12.5	13.2	13.5	14.2	15.5	12.9	13.6	13.9	14.6	15.9
3H	13.5	14.1	14.6	15.1	16.4	14.1	14.7	15.1	15.7	17.0
4H	14.2	14.7	15.2	15.7	17.1	14.9	15.4	15.9	16.4	17.8
6H	14.8	15.3	15.9	16.3	17.7	15.8	16.3	16.9	17.3	18.7
8H	15.1	15.5	16.2	16.6	18.0	16.3	16.7	17.3	17.7	19.1
12H	15.3	15.7	16.4	16.7	18.1	16.6	17.0	17.7	18.0	19.4
8H 4H	14.3	14.7	15.4	15.8	17.2	15.0	15.4	16.0	16.4	17.8
6H	15.2	15.5	16.3	16.6	18.0	16.1	16.4	17.2	17.5	18.9
8H	15.6	15.9	16.7	16.9	18.4	16.6	16.9	17.7	18.0	19.4
12H	15.9	16.1	17.0	17.2	18.7	17.1	17.3	18.2	18.4	19.9
12H 4H	14.3	14.7	15.4	15.7	17.1	14.9	15.3	16.0	16.3	17.8
6H	15.2	15.5	16.3	16.6	18.0	16.1	16.4	17.2	17.5	18.9
8H	15.7	15.9	16.8	17.0	18.5	16.7	16.9	17.8	18.0	19.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.6					+ 0.4 / - 0.5				
1.5H	+ 0.3 / - 0.5					+ 0.3 / - 0.4				
2.0H	+ 0.9 / - 0.7					+ 0.6 / - 0.4				

CIE Pub.117, 6619 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 6.6$ )

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:LYK  
Test Date:2020-2-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:9.370m [K=1.0672]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:229.65V I:0.2538A P:56.925W PF:0.9765 Freq:49.99Hz Lamp Flux:6619.4x1 lm		
NAME: LED Free Standing Luminaire	TYPE: TWINS 60W	WEIGHT:
SPEC.:	DIM.: 610*280*42	SERIAL No.:
MFR.: Cyanlite	SUR.:0.6*0.184	Shielding Angle:

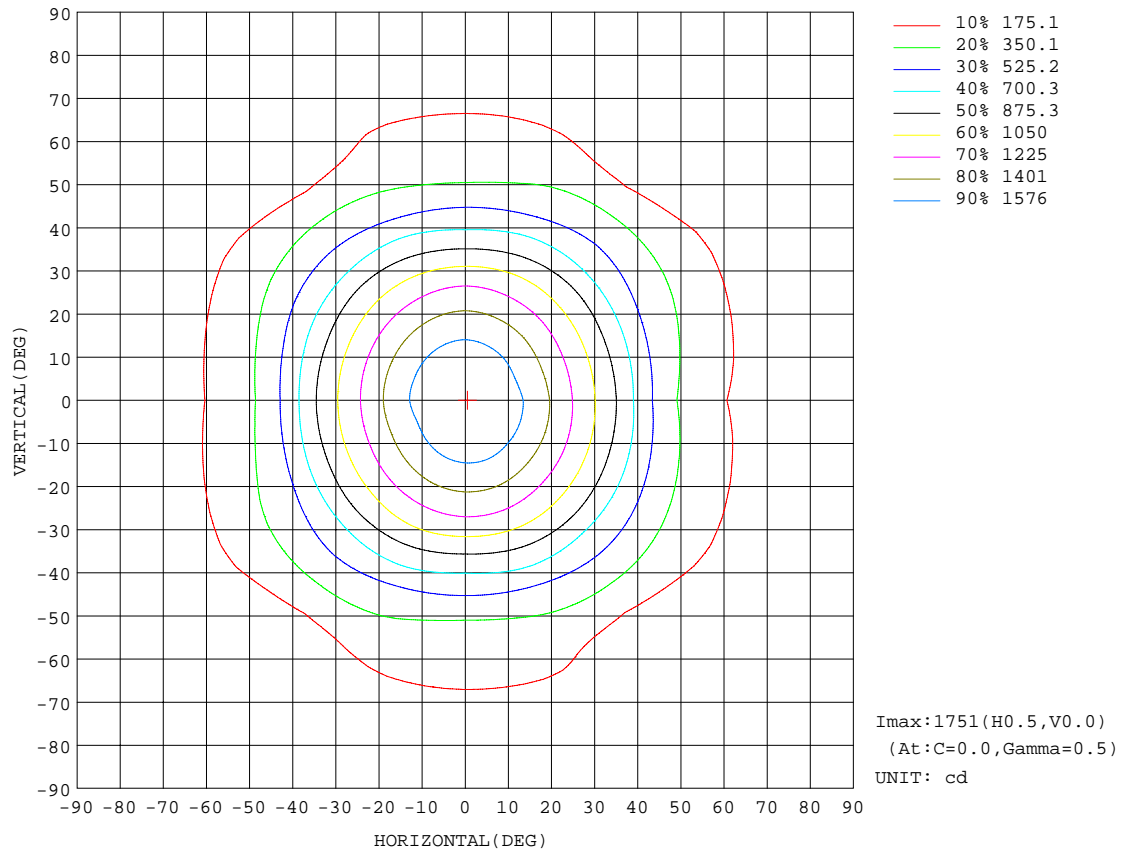
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT)    k(RI) x RCR = 5									
k = 0.60	46	36	30	43	34	29	38	31	27	20
0.80	55	45	38	51	42	37	45	38	33	23
1.00	62	52	45	58	49	43	50	44	38	26
1.25	69	59	52	64	55	49	54	48	43	28
1.50	74	64	57	68	60	54	57	51	47	30
2.00	80	71	65	74	66	61	62	56	52	32
2.50	84	76	70	77	71	65	64	60	56	33
3.00	87	80	75	80	74	69	66	62	59	34
4.00	91	85	81	83	79	74	69	66	63	36
5.00	94	89	84	86	82	78	71	68	65	37
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNM = 1.25										

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:LYK  
Test Date:2020-2-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:9.370m [K=1.0672]  
Remarks:

# ISOCANDELA DIAGRAM

Test:U:229.65V I:0.2538A P:56.925W PF:0.9765 Freq:49.99Hz Lamp Flux:6619.4x1 lm		
NAME: LED Free Standing Luminaire	TYPE: TWINS 60W	WEIGHT:
SPEC.:	DIM.: 610*280*42	SERIAL No.:
MFR.: Cyanlite	SUR.:0.6*0.184	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:LYK  
Test Date:2020-2-21

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:9.370m [K=1.0672]  
Remarks:



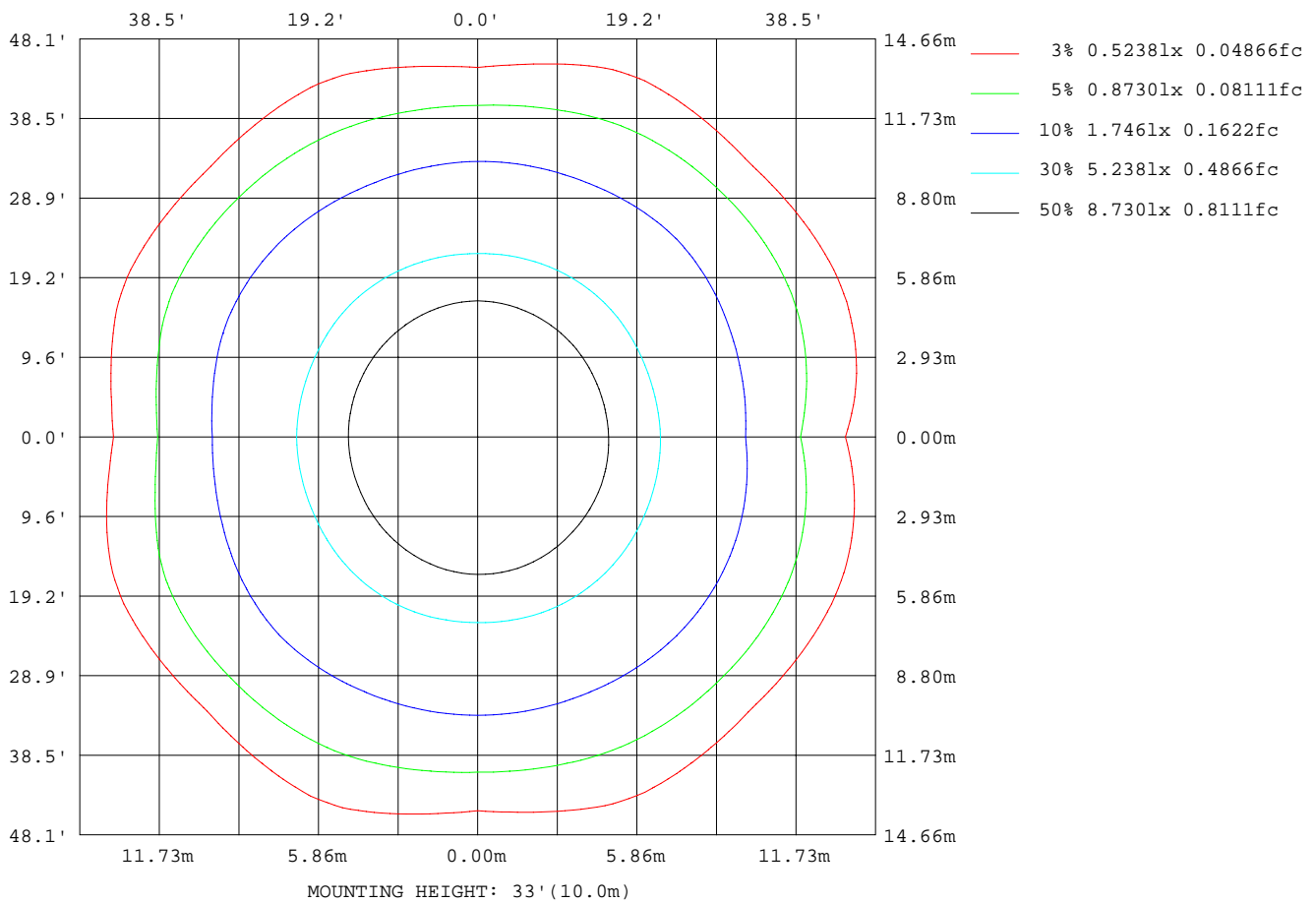
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γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:9.370m [K=1.0672]
Remarks:

```

ISOLUX DIAGRAM

Test:U:229.65V I:0.2538A P:56.925W PF:0.9765 Freq:49.99Hz Lamp Flux:6619.4x1 lm		
NAME: LED Free Standing Luminaire	TYPE: TWINS 60W	WEIGHT:
SPEC.:	DIM.: 610*280*42	SERIAL No.:
MFR.: Cyanlite	SUR.:0.6*0.184	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:LYK  
 Test Date:2020-2-21

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:9.370m [K=1.0672]  
 Remarks:

### LED Avg.L Report

Test:U:229.65V I:0.2538A P:56.925W PF:0.9765 Freq:49.99Hz Lamp Flux:6619.4x1 lm		
NAME: LED Free Standing Luminaire	TYPE: TWINS 60W	WEIGHT:
SPEC.:	DIM.: 610*280*42	SERIAL No.:
MFR.: Cyanlite	SUR.:0.6*0.184	Shielding Angle:

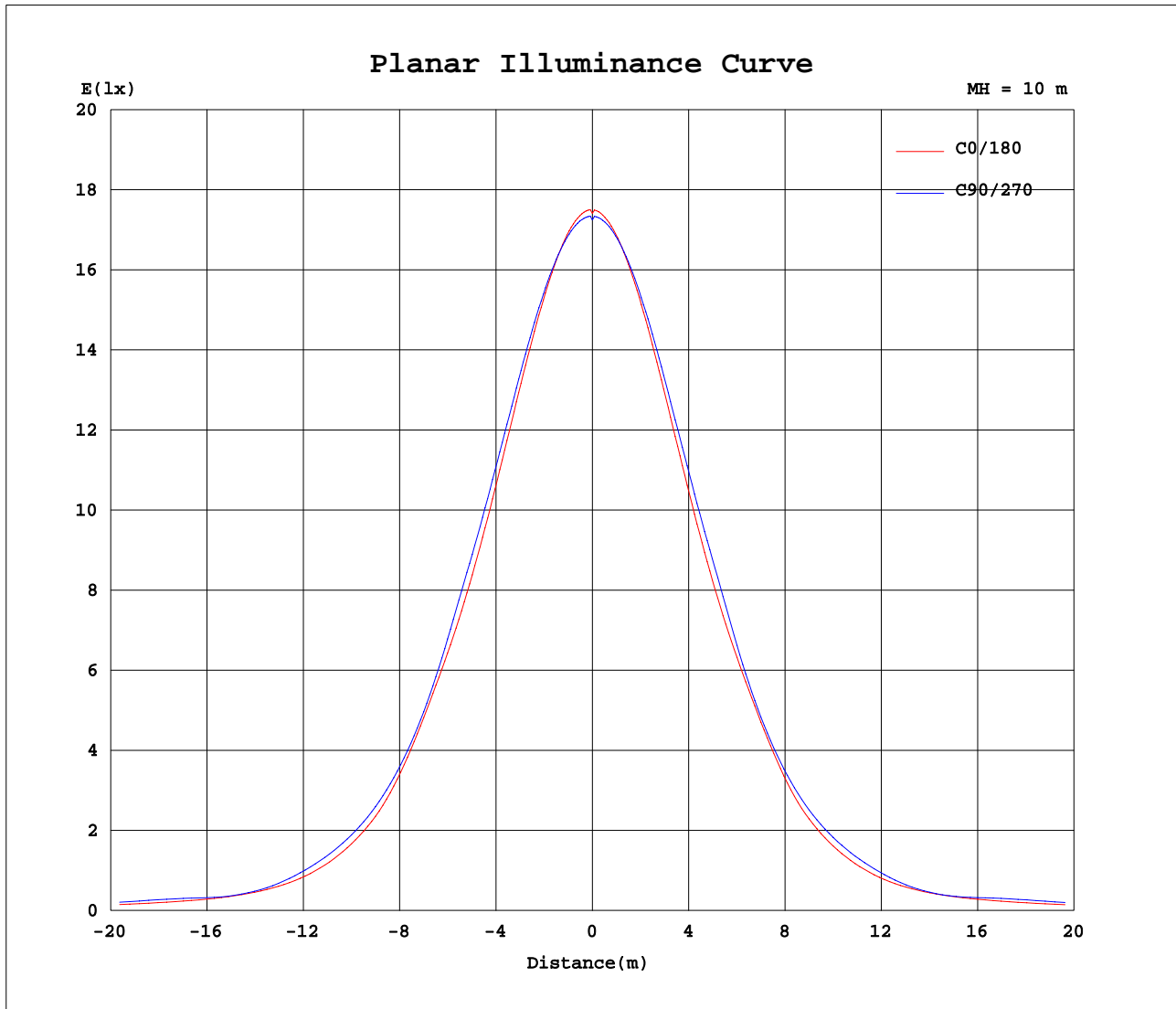
AvgL	cd/m2
L_0~180(65)av	3327
L_0~180(75)av	3882
L_0~180(85)av	3270
L_90~270(65)av	4194
L_90~270(75)av	4706
L_90~270(85)av	5288
L_45(65)av	1977
L_45(75)av	3405
L_45(85)av	3751

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:LYK  
Test Date:2020-2-21

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:9.370m [K=1.0672]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators: LYK  
Test Date: 2020-2-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity: 65.0%  
Test Distance: 9.370m [K=1.0672]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.65V I:0.2538A P:56.925W PF:0.9765 Freq:49.99Hz Lamp Flux:6619.4x1 lm		
NAME: LED Free Standing Luminaire	TYPE: TWINS 60W	WEIGHT:
SPEC.:	DIM.: 610*280*42	SERIAL No.:
MFR.: Cyanlite	SUR.:0.6*0.184	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	1741	1740	1739	1738	1737	1736	1734	1733	1732	1732	1731	1730	1729	1728	1728	1727	1726	1726	1725
5	1726	1726	1725	1725	1724	1724	1723	1723	1722	1722	1722	1721	1721	1721	1721	1720	1719	1718	1717
10	1652	1652	1652	1653	1653	1654	1655	1655	1656	1657	1659	1660	1662	1663	1663	1663	1663	1662	1660
15	1535	1537	1538	1540	1542	1543	1545	1547	1549	1551	1555	1558	1562	1565	1567	1567	1567	1567	1565
20	1386	1389	1392	1394	1397	1400	1403	1406	1410	1413	1418	1424	1428	1433	1436	1437	1438	1438	1437
25	1220	1224	1228	1232	1236	1240	1244	1248	1252	1257	1263	1269	1275	1281	1285	1287	1289	1289	1288
30	1054	1057	1061	1064	1068	1071	1075	1078	1082	1087	1094	1101	1108	1114	1118	1120	1121	1121	1120
35	877	879	882	885	889	894	899	905	911	916	919	922	923	923	921	917	912	907	904
40	655	666	677	685	693	698	701	703	706	708	715	723	729	734	733	726	718	710	704
45	471	488	503	515	526	534	541	545	548	549	548	546	543	540	538	537	536	535	535
50	326	349	369	386	399	407	412	414	414	411	409	405	400	396	391	388	385	383	382
55	228	248	264	277	286	288	286	281	276	271	276	282	288	292	286	272	258	245	236
60	179	193	203	208	209	201	185	169	155	145	159	177	198	219	232	236	238	237	236
65	157	161	162	160	155	144	128	112	99.2	91.7	107	128	151	174	189	196	200	201	199
70	148	138	129	122	115	109	104	100	98.2	98.1	104	111	119	127	134	138	142	145	146
75	114	106	100	95.5	92.0	90.3	90.3	91.2	93.0	95.4	97.3	99.6	103	106	112	119	126	132	136
80	71.9	72.2	72.5	72.8	73.2	73.4	73.6	73.9	74.4	75.2	76.6	78.4	80.5	83.0	86.5	90.9	94.9	98.2	100
85	33.7	35.3	36.5	37.5	38.1	38.0	37.3	36.7	36.3	36.5	39.0	41.9	45.1	48.1	50.3	51.5	52.2	52.4	52.0
90	1.69	1.68	1.67	1.66	1.65	1.65	1.64	1.64	1.65	1.66	1.71	1.76	1.81	1.86	1.88	1.88	1.87	1.85	1.83
95	6.13	6.67	7.25	7.86	8.51	9.19	9.90	10.6	11.4	12.3	13.2	14.1	15.1	16.1	17.4	18.8	20.0	20.9	21.4
100	54.3	56.3	58.4	60.6	62.8	64.9	67.0	69.2	71.7	74.4	78.2	82.2	86.2	90.0	93.6	96.8	99.2	100	100
105	170	169	169	169	170	170	169	170	171	174	180	187	194	201	207	211	214	216	216
110	286	288	292	297	303	312	324	336	347	356	356	355	352	350	350	354	358	361	362
115	511	510	509	508	506	506	505	504	503	502	498	495	492	489	490	495	499	502	504
120	648	648	647	646	645	644	643	642	640	638	635	632	629	627	628	632	636	640	641
125	776	774	773	772	771	770	770	769	768	767	764	761	758	756	756	759	762	764	766
130	894	891	889	888	886	885	885	885	884	883	881	877	874	872	871	873	874	875	876
135	996	994	991	989	988	987	986	985	985	984	982	980	978	976	975	974	974	974	974
140	1086	1083	1080	1078	1076	1075	1074	1074	1073	1072	1071	1069	1068	1066	1065	1065	1065	1064	1064
145	1162	1160	1157	1155	1153	1152	1151	1150	1150	1149	1148	1146	1145	1144	1143	1143	1143	1142	1142
150	1228	1225	1223	1221	1219	1217	1216	1216	1215	1214	1213	1213	1212	1211	1210	1210	1209	1208	1208
155	1282	1279	1277	1275	1273	1272	1271	1270	1270	1269	1269	1268	1267	1267	1266	1265	1265	1264	1264
160	1325	1323	1320	1318	1317	1316	1315	1315	1314	1314	1313	1313	1312	1312	1311	1311	1310	1309	1309
165	1358	1356	1354	1352	1351	1350	1350	1349	1349	1349	1348	1348	1347	1347	1346	1346	1345	1345	1344
170	1382	1380	1378	1377	1375	1374	1374	1373	1373	1373	1372	1372	1371	1371	1371	1370	1370	1370	1369
175	1394	1392	1391	1389	1388	1387	1387	1387	1387	1387	1387	1387	1387	1387	1387	1387	1386	1386	1386
180	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:LYK  
Test Date:2020-2-21

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:9.370m [K=1.0672]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.65V I:0.2538A P:56.925W PF:0.9765 Freq:49.99Hz Lamp Flux:6619.4x1 lm		
NAME: LED Free Standing Luminaire	TYPE: TWINS 60W	WEIGHT:
SPEC.:	DIM.: 610*280*42	SERIAL No.:
MFR.: Cyanlite	SUR.:0.6*0.184	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	1724	1723	1722	1721	1721	1720	1720	1719	1719	1717	1716	1716	1716	1719	1725	1731	1736	1741	1741
5	1716	1714	1713	1711	1710	1708	1707	1705	1703	1701	1699	1698	1697	1699	1704	1710	1715	1720	1720
10	1659	1657	1654	1651	1648	1645	1641	1638	1634	1630	1626	1623	1622	1623	1627	1632	1636	1641	1641
15	1563	1560	1556	1552	1547	1541	1536	1530	1524	1519	1514	1510	1507	1507	1510	1513	1517	1520	1521
20	1434	1430	1426	1420	1414	1407	1400	1392	1385	1378	1372	1367	1362	1361	1362	1363	1366	1368	1369
25	1285	1281	1275	1269	1262	1254	1246	1238	1230	1222	1215	1209	1204	1201	1200	1200	1200	1202	1203
30	1118	1116	1113	1109	1102	1092	1081	1071	1061	1054	1048	1043	1040	1037	1036	1035	1036	1036	1036
35	905	907	909	911	910	907	902	897	891	883	876	868	862	858	856	855	856	856	856
40	708	713	719	724	724	718	711	702	693	685	678	670	663	655	648	642	637	635	638
45	535	535	536	537	539	543	546	547	546	537	526	513	500	488	476	466	459	456	466
50	386	390	395	401	406	411	415	418	419	418	414	408	399	384	363	343	326	314	323
55	248	264	281	296	301	295	286	276	268	273	279	285	288	282	266	248	232	220	228
60	239	240	239	236	224	204	183	165	151	159	172	186	200	205	200	192	184	177	183
65	198	195	189	180	165	144	123	105	91.2	98.5	111	125	141	151	154	155	155	154	154
70	145	142	138	133	125	115	105	96.5	90.2	92.2	96.7	103	110	119	127	134	140	143	138
75	131	125	118	111	106	103	101	100	99.3	97.3	95.6	94.3	93.8	95.4	99.0	103	106	108	104
80	97.4	93.5	88.9	84.4	81.7	81.0	80.7	80.6	80.3	78.4	76.3	74.2	72.1	70.5	69.4	68.7	68.2	68.0	68.2
85	50.6	48.9	46.8	44.5	42.3	40.2	38.2	36.4	34.8	34.1	33.6	33.2	32.9	32.2	31.3	30.4	29.7	29.2	29.9
90	1.80	1.77	1.74	1.71	1.68	1.67	1.66	1.66	1.65	1.64	1.63	1.62	1.61	1.60	1.60	1.60	1.60	1.61	1.63
95	20.1	18.5	16.7	14.7	13.3	12.5	11.9	11.3	10.8	10.0	9.22	8.45	7.71	7.01	6.37	5.82	5.38	5.07	5.05
100	96.5	91.4	85.8	80.0	75.6	72.8	70.4	68.4	66.5	64.2	62.0	59.7	57.5	55.1	52.5	50.1	47.9	46.3	45.5
105	211	204	197	190	186	185	185	184	183	176	169	162	156	152	151	151	152	153	152
110	354	344	335	326	324	329	334	339	343	335	325	314	302	291	281	273	266	261	260
115	496	486	476	467	465	469	475	481	487	486	484	482	479	478	479	480	481	482	481
120	634	625	616	609	606	609	614	619	624	624	623	622	620	620	620	620	620	620	620
125	760	754	747	742	740	742	746	749	753	752	751	750	748	748	748	749	750	751	750
130	872	868	864	861	860	861	863	865	868	867	866	865	864	864	865	867	868	870	869
135	972	969	967	965	965	965	967	968	969	969	968	968	967	968	969	970	972	973	972
140	1062	1061	1059	1058	1057	1057	1058	1059	1059	1059	1059	1058	1058	1059	1060	1061	1063	1064	1064
145	1141	1139	1138	1137	1137	1137	1137	1137	1138	1138	1138	1138	1138	1138	1140	1141	1142	1143	1143
150	1207	1207	1206	1205	1205	1205	1205	1205	1205	1205	1205	1206	1206	1207	1208	1209	1210	1211	1211
155	1263	1263	1262	1262	1262	1262	1262	1262	1262	1262	1262	1262	1263	1263	1264	1265	1266	1267	1267
160	1308	1308	1308	1308	1308	1308	1308	1308	1309	1309	1309	1309	1310	1310	1311	1312	1313	1314	1313
165	1344	1344	1344	1343	1344	1344	1344	1345	1345	1345	1346	1346	1346	1347	1348	1349	1349	1350	1349
170	1369	1369	1369	1369	1369	1369	1370	1370	1371	1371	1371	1372	1372	1373	1374	1375	1375	1375	1374
175	1386	1386	1386	1386	1386	1386	1386	1386	1387	1387	1387	1388	1388	1389	1389	1390	1390	1390	1389
180	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:LYK  
Test Date:2020-2-21

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:9.370m [K=1.0672]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.65V I:0.2538A P:56.925W PF:0.9765 Freq:49.99Hz Lamp Flux:6619.4x1 lm																	
NAME: LED Free Standing Luminaire									TYPE: TWINS 60W						WEIGHT:		
SPEC.:									DIM.: 610*280*42						SERIAL No.:		
MFR.: Cyanlite									SUR.:0.6*0.184						Shielding Angle:		

Table--3

UNIT: cd

C(DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	1741	1739	1737	1736	1734	1733	1732	1732	1731	1730	1729	1728	1728	1727	1726	1726	1725	1724	1723
5	1719	1718	1716	1715	1715	1715	1714	1714	1714	1714	1714	1714	1714	1714	1714	1713	1713	1712	1711
10	1640	1639	1638	1638	1639	1640	1641	1643	1644	1646	1647	1648	1650	1651	1652	1653	1653	1652	1650
15	1520	1520	1520	1521	1523	1525	1528	1531	1534	1537	1541	1543	1546	1549	1551	1553	1553	1552	1550
20	1369	1370	1371	1373	1376	1380	1384	1389	1393	1398	1402	1406	1411	1415	1418	1420	1422	1420	1418
25	1204	1206	1208	1211	1215	1220	1225	1230	1235	1241	1246	1252	1257	1262	1267	1270	1272	1270	1267
30	1036	1037	1038	1041	1045	1050	1055	1060	1066	1072	1077	1082	1086	1089	1092	1094	1095	1096	1097
35	856	856	858	861	867	873	879	885	887	888	889	888	887	885	882	880	879	882	886
40	644	650	658	663	668	672	676	680	686	692	698	701	701	696	691	686	682	688	694
45	479	493	508	518	523	526	527	527	524	520	516	512	510	511	513	515	517	518	519
50	339	356	375	386	391	392	392	391	388	384	380	375	371	368	365	364	365	369	376
55	239	253	266	271	267	261	255	250	257	264	271	277	272	259	245	233	224	237	253
60	189	194	198	191	175	158	144	135	150	170	192	214	229	234	236	236	235	237	237
65	153	151	148	138	124	110	99.2	93.0	107	125	146	166	180	187	191	193	192	191	189
70	130	122	113	106	101	98.4	97.2	97.8	103	109	117	124	130	134	138	140	141	140	139
75	99.1	93.8	88.9	86.8	87.5	89.2	91.7	94.7	96.6	98.9	102	105	110	117	124	130	133	129	124
80	68.6	69.2	69.9	70.6	71.1	71.8	72.6	73.7	75.4	77.3	79.5	81.9	85.2	89.2	92.8	95.7	97.6	95.2	91.8
85	30.8	31.8	32.8	33.1	32.6	32.3	32.5	33.5	37.8	42.7	47.6	52.0	54.2	54.1	53.2	51.6	49.8	48.6	47.3
90	1.65	1.67	1.70	1.70	1.69	1.68	1.67	1.67	1.71	1.75	1.80	1.84	1.86	1.85	1.84	1.82	1.80	1.81	1.81
95	5.15	5.37	5.68	6.00	6.33	6.74	7.24	7.86	8.69	9.64	10.7	11.8	13.3	15.0	16.5	17.8	18.7	18.1	17.1
100	45.3	45.7	46.7	48.5	51.0	53.9	57.3	61.0	64.9	69.0	73.1	77.1	81.3	85.4	88.9	91.6	93.3	91.9	89.6
105	151	150	150	150	151	153	155	159	165	172	179	186	193	200	205	209	211	208	203
110	261	264	269	279	293	308	323	335	338	338	338	337	340	347	353	359	362	356	348
115	480	479	478	478	479	481	482	483	482	482	481	482	485	490	496	501	504	499	493
120	620	620	620	620	621	622	623	624	623	622	622	622	626	632	639	645	649	645	639
125	750	749	749	749	750	752	753	755	755	755	756	756	759	764	769	773	776	774	771
130	867	866	865	865	867	870	872	875	875	875	876	877	879	882	885	888	891	890	889
135	972	971	971	971	973	975	976	978	979	980	981	982	984	986	988	990	992	992	992
140	1063	1063	1063	1064	1065	1066	1068	1070	1071	1072	1073	1074	1076	1077	1079	1081	1082	1083	1084
145	1142	1142	1142	1143	1144	1145	1146	1148	1149	1151	1152	1154	1155	1156	1158	1159	1160	1161	1162
150	1210	1210	1210	1210	1211	1212	1213	1215	1216	1218	1219	1221	1222	1223	1224	1225	1226	1226	1227
155	1267	1266	1266	1266	1267	1268	1269	1270	1272	1273	1275	1276	1277	1278	1278	1279	1279	1280	1281
160	1313	1312	1311	1311	1311	1312	1313	1314	1316	1317	1319	1320	1321	1322	1322	1322	1323	1323	1324
165	1348	1347	1346	1346	1347	1347	1348	1349	1350	1351	1352	1353	1354	1354	1354	1355	1355	1355	1356
170	1373	1372	1371	1371	1371	1371	1372	1373	1373	1374	1375	1375	1376	1376	1376	1377	1377	1377	1378
175	1388	1387	1386	1385	1385	1385	1386	1386	1387	1387	1388	1389	1389	1389	1390	1390	1390	1390	1391
180	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:LYK  
Test Date:2020-2-21

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:9.370m [K=1.0672]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.65V I:0.2538A P:56.925W PF:0.9765 Freq:49.99Hz Lamp Flux:6619.4x1 lm																	
NAME: LED Free Standing Luminaire									TYPE: TWINS 60W						WEIGHT:		
SPEC.:									DIM.: 610*280*42						SERIAL No.:		
MFR.: Cyanlite									SUR.:0.6*0.184						Shielding Angle:		

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	1722	1721	1721	1720	1720	1719	1719	1717	1716	1716	1716	1718	1722	1727	1733				
5	1710	1709	1708	1708	1707	1707	1706	1704	1702	1701	1701	1703	1707	1712	1718				
10	1649	1647	1645	1644	1642	1640	1639	1636	1633	1631	1630	1630	1633	1638	1644				
15	1548	1545	1542	1539	1536	1533	1530	1526	1522	1519	1517	1517	1519	1523	1528				
20	1415	1411	1407	1403	1399	1395	1391	1386	1381	1377	1374	1373	1374	1376	1380				
25	1263	1258	1254	1249	1245	1240	1235	1229	1224	1219	1215	1213	1213	1214	1216				
30	1096	1094	1091	1085	1079	1073	1066	1061	1057	1053	1050	1048	1048	1049	1051				
35	889	893	896	897	897	896	895	889	883	877	871	868	868	869	872				
40	701	707	710	708	705	700	695	690	684	679	673	669	665	661	658				
45	521	522	527	533	538	543	545	539	531	522	511	502	494	486	479				
50	383	391	399	406	412	417	420	421	419	414	407	397	383	367	348				
55	270	287	293	290	283	277	271	277	284	291	295	293	283	269	251				
60	236	232	220	201	182	165	153	162	176	191	206	213	211	205	194				
65	184	176	162	142	122	105	93.0	101	114	129	145	156	160	162	161				
70	136	131	124	114	105	96.7	90.7	93.1	98.1	105	113	120	127	134	141				
75	117	110	105	103	101	100	99.8	97.9	96.4	95.4	95.2	96.5	99.2	103	108				
80	88.0	84.2	82.4	82.7	83.3	84.0	84.4	82.8	80.8	78.6	76.5	74.8	73.7	72.8	72.2				
85	46.0	44.8	43.6	42.5	41.4	40.5	39.6	39.0	38.5	38.0	37.5	36.9	36.2	35.4	34.6				
90	1.82	1.82	1.80	1.76	1.72	1.68	1.65	1.66	1.67	1.69	1.71	1.72	1.72	1.72	1.71				
95	15.8	14.5	13.4	12.7	12.0	11.4	10.9	10.3	9.72	9.17	8.64	8.11	7.60	7.10	6.60				
100	86.5	83.2	80.3	78.0	75.8	73.9	72.1	71.1	70.1	69.1	67.9	66.2	63.8	61.0	57.8				
105	198	193	191	191	192	193	192	187	182	176	171	167	166	166	167				
110	341	334	334	342	350	358	363	358	350	340	329	319	311	302	294				
115	487	482	483	489	497	505	512	513	512	511	509	508	508	509	510				
120	634	629	628	633	639	645	650	651	651	650	649	648	648	648	648				
125	767	764	764	768	772	776	780	780	779	778	776	775	775	775	775				
130	888	886	887	889	892	895	897	896	895	894	892	891	892	892	893				
135	993	993	994	995	997	998	999	999	999	998	998	997	997	997	997				
140	1084	1085	1085	1086	1087	1087	1088	1088	1089	1089	1089	1088	1088	1087	1086				
145	1162	1163	1164	1164	1164	1165	1165	1165	1165	1165	1165	1165	1165	1164	1163				
150	1228	1229	1229	1230	1230	1230	1230	1230	1230	1230	1230	1230	1230	1229	1228				
155	1282	1283	1284	1284	1284	1284	1284	1284	1284	1284	1284	1284	1284	1283	1283				
160	1325	1326	1326	1327	1327	1327	1327	1327	1327	1327	1327	1327	1327	1326	1326				
165	1356	1357	1358	1358	1359	1359	1359	1360	1360	1360	1360	1359	1359	1359	1359				
170	1378	1379	1379	1380	1380	1381	1381	1382	1382	1382	1382	1383	1383	1383	1382				
175	1391	1391	1391	1392	1392	1392	1393	1393	1393	1394	1394	1394	1394	1394	1394				
180	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396	1396				

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:LYK  
Test Date:2020-2-21

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:9.370m [K=1.0672]  
Remarks: