

Luminaire Photograph



Light Output Ratio:	57.2%	
Luminaire Power:	46.79 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: Lirongtong
Test Date: 2017-06-12

deg Range: 0 - 180DEG
Interval: 1.0DEG
Test System: EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203
Humidity: 65.0%
Test Distance: 2.500m [K=1.0438]
Remarks: LAMP: CLU038-1205C4-303H5M3-F1 Ra: 90
DRIVER: LCI42W 1050mA TEC SR
REFLECTOR: GR92-15 15R
30minutes warm-up

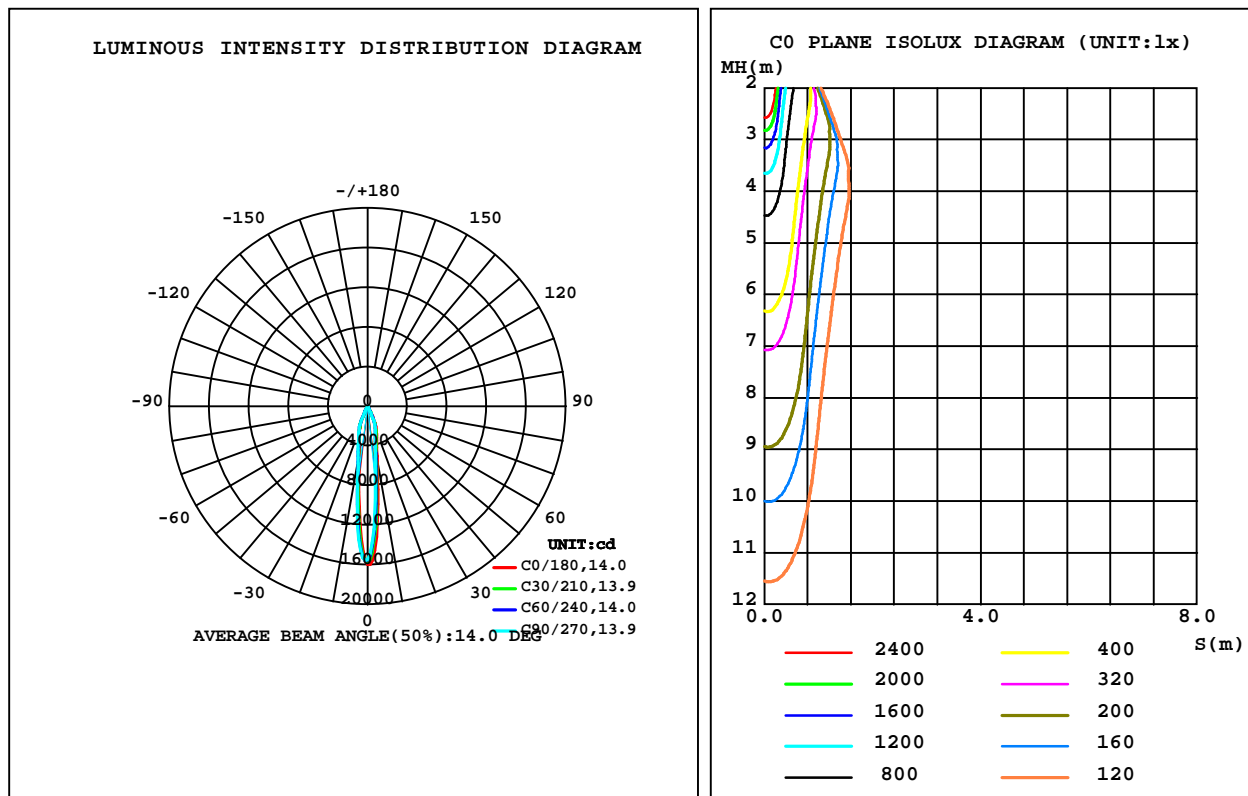


RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.00V I:0.2034A P:46.790W PF:0.9547 Freq:50.00Hz Lamp Flux:4371.9x1 lm		
NAME: 1618.163-WH15-BHCTF05	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1706129304
MFR.: RISE	SUR.:0.025434m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 53.41 lm/W			
MODEL	CITIZEN	Imax(cd)	15994	S/MH(C0/180)	0.23
NOMINAL POWER(W)	45	LOR(%)	57.2	S/MH(C90/270)	0.27
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	2499.2	h UP,DN(C0-180)	0.0,26.0
NOMINAL FLUX(lm)	4371.9	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,31.1
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	230.6	h down(%)	57.1	CIBSE SHR MAX	1.00



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Lirongtong
Test Date:2017-06-12

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203
Humidity:65.0%
Test Distance:2.500m [K=1.0438]
Remarks: LAMP:CLU038-1205C4-303H5M3-F1 Ra:90
DRIVER:LCI42W 1050mA TEC SR
REFLECTOR:GR92-15 15R
30minutes warm-up



RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	572.7	476.6	460.8	453.2	519.1	592.6	588.4	600.7	0- 10	828.4	828.4	33.1,18.9
20	261.0	228.8	227.0	223.7	240.1	262.4	263.8	263.6	10- 20	964.4	1793	71.7,41
30	36.78	11.68	13.29	11.85	23.90	40.78	40.32	40.50	20- 30	586.7	2379	95.2,54.4
40	5.472	4.762	4.743	4.708	5.074	6.000	5.132	5.686	30- 40	58.04	2438	97.5,55.8
50	6.440	5.060	5.640	4.494	5.349	6.132	6.190	6.162	40- 50	37.13	2475	99,56.6
60	0.8619	0.6697	0.7701	0.5775	0.6492	0.7726	0.7418	0.8305	50- 60	18.82	2493	99.8,57
70	0.1910	0.1347	0.1587	0.1105	0.1255	0.1673	0.1727	0.1901	60- 70	3.727	2497	99.9,57.1
80	0.0478	0.0354	0.0389	0.0352	0.0374	0.0479	0.0489	0.0525	70- 80	0.8981	2498	100,57.1
90	0.0118	0.0059	0.0078	0.0083	0.0076	0.0112	0.0094	0.0121	80- 90	0.2469	2498	100,57.1
100	0.0063	0.0059	0.0086	0.0084	0.0076	0.0051	0.0108	0.0077	90-100	0.0892	2498	100,57.1
110	0.0083	0.0076	0.0087	0.0084	0.0108	0.0065	0.0073	0.0123	100-110	0.0890	2499	100,57.1
120	0.0089	0.0067	0.0083	0.0113	0.0096	0.0098	0.0132	0.0104	110-120	0.0886	2499	100,57.2
130	0.0115	0.0122	0.0133	0.0074	0.0120	0.0137	0.0125	0.0109	120-130	0.0894	2499	100,57.2
140	0.0107	0.0106	0.0116	0.0086	0.0094	0.0064	0.0149	0.0119	130-140	0.0865	2499	100,57.2
150	0.0118	0.0157	0.0131	0.0100	0.0164	0.0161	0.0173	0.0147	140-150	0.0780	2499	100,57.2
160	0.0142	0.0167	0.0160	0.0160	0.0431	0.0349	0.0418	0.0336	150-160	0.0907	2499	100,57.2
170	0.0259	0.0296	0.0261	0.0299	0.1303	0.1242	0.1293	0.1311	160-170	0.1410	2499	100,57.2
180	0.0535	0.0500	0.0556	0.0588	0.0555	0.0526	0.0558	0.0607	170-180	0.0679	2499	100,57.2
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

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C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Lirongtong
Test Date:2017-06-12

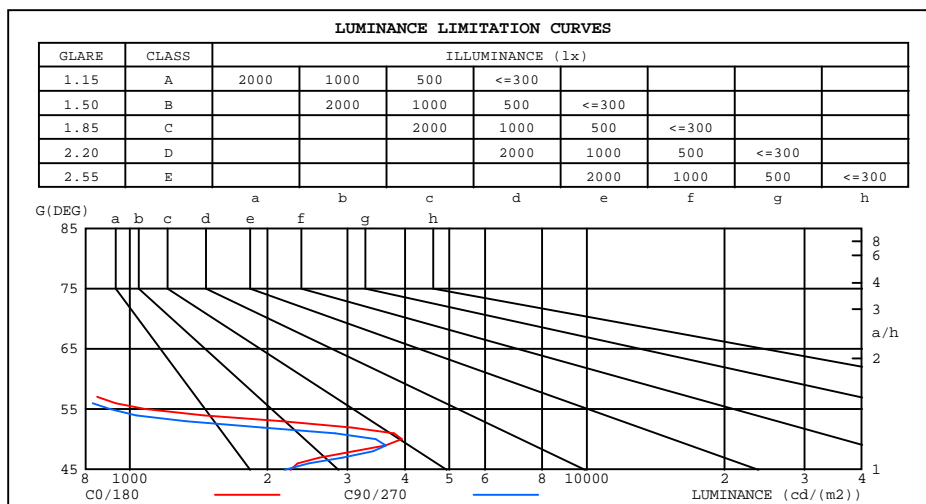
g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203
Humidity:65.0%
Test Distance:2.500m [K=1.0438]
Remarks: LAMP:CLU038-1205C4-303H5M3-F1 Ra:90
DRIVER:LCI42W 1050mA TEC SR
REFLECTOR:GR92-15 15R
30minutes warm-up



RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES

Test:U:230.00V I:0.2034A P:46.790W PF:0.9547 Freq:50.00Hz Lamp Flux:4371.9x1 lm		
NAME: 1618.163-WH15-BHCTF05	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1706129304
MFR.: RISE	SUR.:0.025434m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	102	79
80	108	88
75	142	119
70	220	182
65	413	330
60	678	606
55	1081	906
50	3939	3450
45	2246	2187

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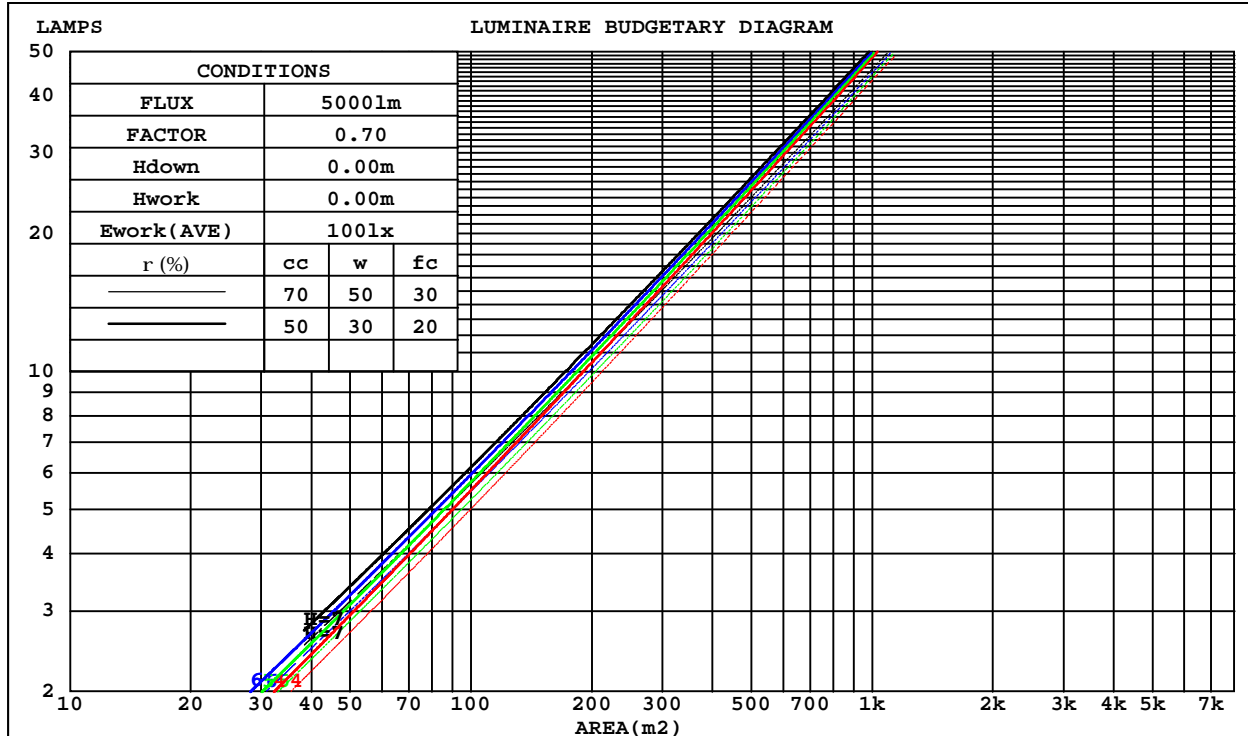


RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.00V I:0.2034A P:46.790W PF:0.9547 Freq:50.00Hz Lamp Flux:4371.9x1 lm		
NAME: 1618.163-WH15-BHCTF05	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1706129304
MFR.: RISE	SUR.:0.025434m2	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	.68	.68	.68	.66	.66	.66	.64	.64	.64	.61	.61	.61	.58	.58	.58	.57
1.0	.64	.63	.62	.63	.62	.61	.61	.60	.59	.59	.58	.58	.57	.56	.56	.55
2.0	.61	.59	.58	.60	.59	.57	.58	.57	.56	.57	.56	.55	.55	.54	.54	.53
3.0	.58	.56	.55	.58	.56	.54	.56	.55	.53	.55	.54	.52	.54	.53	.52	.51
4.0	.56	.54	.52	.55	.53	.52	.54	.52	.51	.53	.52	.50	.52	.51	.50	.49
5.0	.54	.51	.50	.53	.51	.49	.52	.50	.49	.51	.50	.48	.51	.49	.48	.47
6.0	.52	.49	.47	.51	.49	.47	.51	.49	.47	.50	.48	.47	.49	.48	.46	.46
7.0	.50	.47	.46	.50	.47	.46	.49	.47	.45	.48	.47	.45	.48	.46	.45	.44
8.0	.48	.46	.44	.48	.46	.44	.47	.45	.44	.47	.45	.44	.46	.45	.44	.43
9.0	.47	.44	.43	.47	.44	.43	.46	.44	.42	.46	.44	.42	.45	.43	.42	.42
10.0	.45	.43	.41	.45	.43	.41	.45	.43	.41	.44	.42	.41	.44	.42	.41	.40



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Interval: 1.0DEG
Test System:EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203
Humidity:65.0%
Test Distance:2.500m [K=1.0438]
Remarks: LAMP:CLU038-1205C4-303H5M3-F1 Ra:90
DRIVER:LCI42W 1050mA TEC SR
REFLECTOR:GR92-15 15R
30minutes warm-up



RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Test:U:230.00V I:0.2034A P:46.790W PF:0.9547 Freq:50.00Hz Lamp Flux:4371.9x1 lm		
NAME: 1618.163-WH15-BHCTF05	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1706129304
MFR.: RISE	SUR.:0.025434m2	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0														
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
rfc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Wall Exitance Coefficients(WEC)														
0.0																														
1.0	.081	.046	.015	.077	.044	.014	.070	.040	.013	.063	.037	.012	.057	.033	.011															
2.0	.075	.041	.013	.072	.040	.012	.066	.037	.011	.061	.034	.011	.056	.032	.010															
3.0	.071	.038	.011	.068	.036	.011	.063	.034	.010	.058	.032	.010	.054	.030	.009															
4.0	.066	.034	.010	.064	.034	.010	.060	.032	.009	.056	.030	.009	.052	.029	.009															
5.0	.063	.032	.009	.061	.031	.009	.057	.030	.009	.054	.028	.008	.051	.027	.008															
6.0	.059	.030	.009	.058	.029	.008	.055	.028	.008	.052	.027	.008	.049	.026	.008															
7.0	.056	.028	.008	.055	.027	.008	.052	.026	.008	.050	.026	.007	.047	.025	.007															
8.0	.054	.026	.007	.053	.026	.007	.050	.025	.007	.048	.024	.007	.046	.024	.007															
9.0	.051	.025	.007	.050	.025	.007	.048	.024	.007	.046	.023	.007	.044	.023	.007															
10.0	.049	.024	.007	.048	.023	.007	.047	.023	.006	.045	.022	.006	.043	.022	.006															

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.109	.109	.109	.093	.093	.093	.064	.064	.064	.037	.037	.037	.012	.012	.012	
1.0	.097	.090	.085	.083	.077	.073	.057	.053	.050	.033	.031	.029	.010	.010	.009	
2.0	.086	.076	.067	.074	.065	.058	.051	.045	.041	.029	.026	.024	.009	.009	.008	
3.0	.078	.065	.054	.067	.056	.047	.046	.039	.033	.027	.023	.020	.009	.007	.006	
4.0	.071	.056	.045	.061	.049	.039	.042	.034	.027	.024	.020	.016	.008	.006	.005	
5.0	.065	.049	.037	.056	.043	.033	.039	.030	.023	.022	.017	.014	.007	.006	.004	
6.0	.060	.044	.032	.052	.038	.027	.036	.026	.019	.021	.016	.012	.007	.005	.004	
7.0	.056	.039	.027	.048	.034	.023	.033	.024	.017	.019	.014	.010	.006	.005	.003	
8.0	.052	.035	.023	.045	.030	.020	.031	.021	.014	.018	.013	.009	.006	.004	.003	
9.0	.049	.032	.020	.042	.028	.018	.029	.019	.013	.017	.011	.007	.006	.004	.002	
10.0	.046	.029	.018	.040	.025	.015	.028	.018	.011	.016	.011	.007	.005	.003	.002	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Lirongtong
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g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203
Humidity:65.0%
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Remarks: LAMP:CLU038-1205C4-303H5M3-F1 Ra:90
DRIVER:LCI42W 1050mA TEC SR
REFLECTOR:GR92-15 15R
30minutes warm-up



RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

Test:U:230.00V I:0.2034A P:46.790W PF:0.9547 Freq:50.00Hz Lamp Flux:4371.9x1 lm										
NAME: 1618.163-WH15-BHCTF05					TYPE:			WEIGHT:		
SPEC.:3000K					DIM.:			SERIAL No.:1706129304		
MFR.: RISE					SUR.:0.025434m2			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	-0.0	0.7	0.2	0.8	1.0	-0.6	0.1	-0.4	0.3	0.4
3H	-0.1	0.5	0.1	0.7	0.9	-0.7	-0.0	-0.4	0.2	0.3
4H	-0.2	0.4	0.1	0.6	0.8	-0.7	-0.1	-0.5	0.1	0.3
6H	-0.3	0.3	0.0	0.5	0.8	-0.8	-0.2	-0.5	-0.0	0.2
8H	-0.3	0.2	-0.0	0.5	0.7	-0.9	-0.3	-0.6	-0.1	0.2
12H	-0.4	0.2	-0.1	0.4	0.7	-0.9	-0.4	-0.6	-0.1	0.2
4H 2H	-0.2	0.4	0.1	0.6	0.9	-0.7	-0.1	-0.4	0.1	0.4
3H	-0.3	0.2	0.0	0.5	0.8	-0.8	-0.3	-0.5	0.0	0.3
4H	-0.4	0.1	-0.0	0.4	0.7	-0.9	-0.4	-0.5	-0.1	0.2
6H	-0.5	-0.0	-0.1	0.3	0.6	-1.0	-0.5	-0.6	-0.2	0.1
8H	-0.5	-0.1	-0.1	0.2	0.6	-1.0	-0.6	-0.6	-0.3	0.1
12H	-0.6	-0.2	-0.1	0.2	0.6	-1.1	-0.7	-0.7	-0.3	0.1
8H 4H	-0.5	-0.1	-0.1	0.2	0.6	-1.0	-0.6	-0.6	-0.3	0.1
6H	-0.6	-0.3	-0.2	0.1	0.5	-1.1	-0.8	-0.7	-0.4	0.0
8H	-0.7	-0.4	-0.2	0.0	0.5	-1.2	-0.9	-0.7	-0.5	-0.0
12H	-0.7	-0.5	-0.3	-0.0	0.4	-1.2	-1.0	-0.8	-0.5	-0.1
12H 4H	-0.6	-0.2	-0.2	0.2	0.6	-1.1	-0.7	-0.7	-0.3	0.1
6H	-0.7	-0.4	-0.2	0.0	0.5	-1.2	-0.9	-0.7	-0.5	-0.0
8H	-0.7	-0.5	-0.3	-0.0	0.4	-1.2	-1.0	-0.8	-0.5	-0.1
Variations with the observer position at spacings:										
S = 1.0H	+ 2.2 / - 4.0					+ 2.2 / - 4.0				
1.5H	+ 3.0 / - 5.0					+ 2.9 / - 4.6				
2.0H	+ 5.7 / - 7.5					+ 5.7 / - 7.1				

CIE Pub.117, 4372 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 5.1$)

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UTILIZATION FACTORS TABLE

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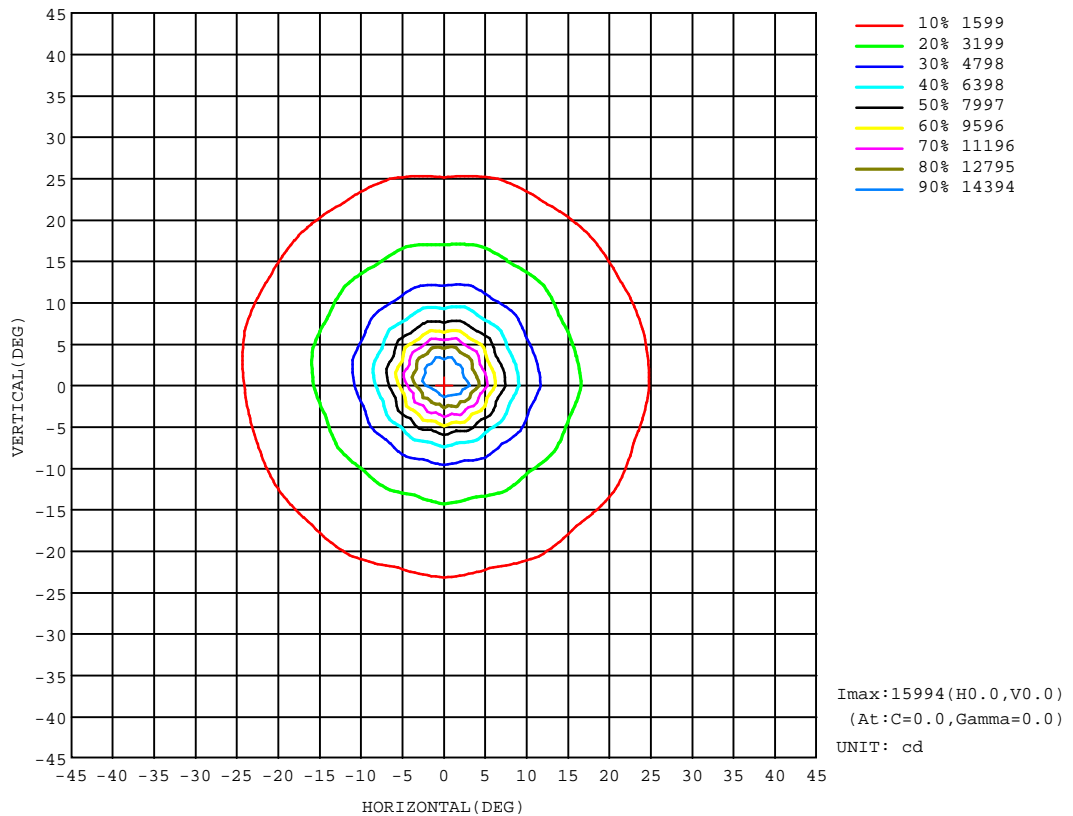
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	51	48	46	51	48	46	51	48	46	44
0.80	55	52	50	55	52	50	54	52	50	48
1.00	58	55	53	57	55	53	56	54	52	50
1.25	60	57	55	59	57	55	58	56	55	52
1.50	61	59	57	61	58	57	59	58	56	54
2.00	63	60	59	62	60	58	60	59	57	55
2.50	63	61	60	63	61	59	61	59	58	55
3.00	64	62	61	63	62	60	61	60	59	56
4.00	65	64	63	64	63	62	62	61	60	56
5.00	66	65	64	65	64	63	63	62	61	57
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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ISOCANDELA DIAGRAM

Test:U:230.00V I:0.2034A P:46.790W PF:0.9547 Freq:50.00Hz Lamp Flux:4371.9x1 lm		
NAME: 1618.163-WH15-BHCTF05	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1706129304
MFR.: RISE	SUR.:0.025434m2	Shielding Angle:

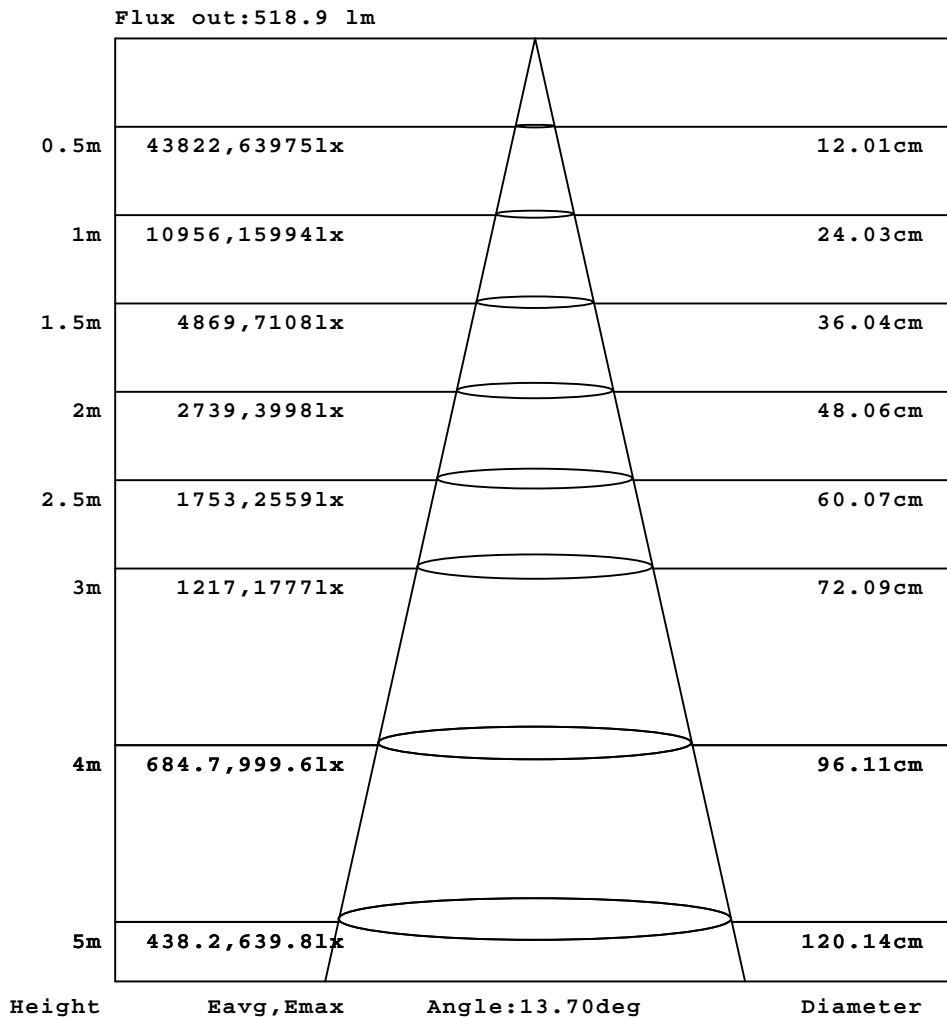


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Lirongtong
Test Date:2017-06-12

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203
Humidity:65.0%
Test Distance:2.500m [K=1.0438]
Remarks: LAMP:CLU038-1205C4-303H5M3-F1 Ra:90
DRIVER:LCI42W 1050mA TEC SR
REFLECTOR:GR92-15 15R
30minutes warm-up

AAI Figure

Test:U:230.00V I:0.2034A P:46.790W PF:0.9547 Freq:50.00Hz Lamp Flux:4371.9x1 lm		
NAME: 1618.163-WH15-BHCTF05	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1706129304
MFR.: RISE	SUR.:0.025434m2	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: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Lirongtong
Test Date:2017-06-12

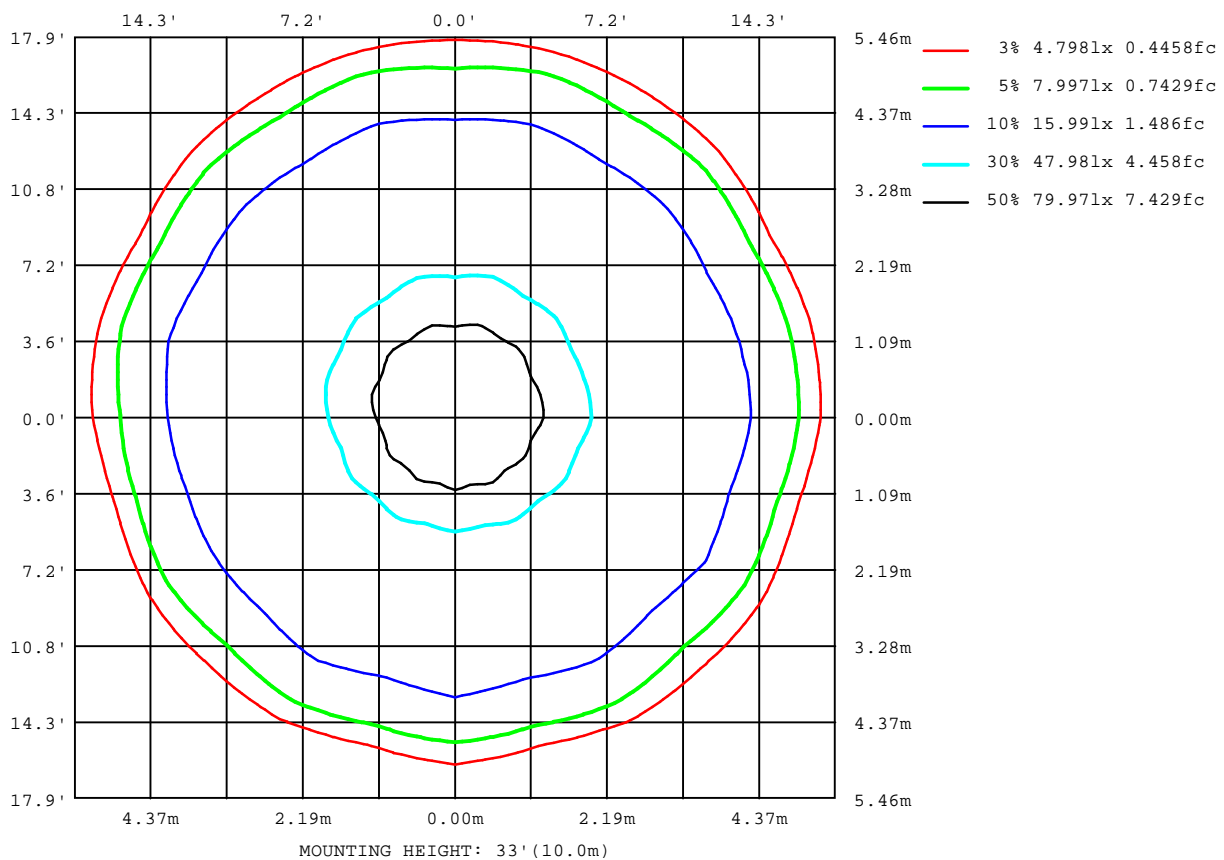
g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203
Humidity:65.0%
Test Distance:2.500m [K=1.0438]
Remarks: LAMP:CLU038-1205C4-303H5M3-F1 Ra:90
DRIVER:LCI42W 1050mA TEC SR
REFLECTOR:GR92-15 15R
30minutes warm-up



RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test:U:230.00V I:0.2034A P:46.790W PF:0.9547 Freq:50.00Hz Lamp Flux:4371.9x1 lm		
NAME: 1618.163-WH15-BHCTF05	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1706129304
MFR.: RISE	SUR.:0.025434m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Lirongtong
Test Date:2017-06-12

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203
Humidity:65.0%
Test Distance:2.500m [K=1.0438]
Remarks: LAMP:CLU038-1205C4-303H5M3-F1 Ra:90
DRIVER:LCI42W 1050mA TEC SR
REFLECTOR:GR92-15 15R
30minutes warm-up

LED Avg.L Report

Test:U:230.00V I:0.2034A P:46.790W PF:0.9547 Freq:50.00Hz Lamp Flux:4371.9x1 lm		
NAME: 1618.163-WH15-BHCTF05	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1706129304
MFR.: RISE	SUR.:0.025434m2	Shielding Angle:

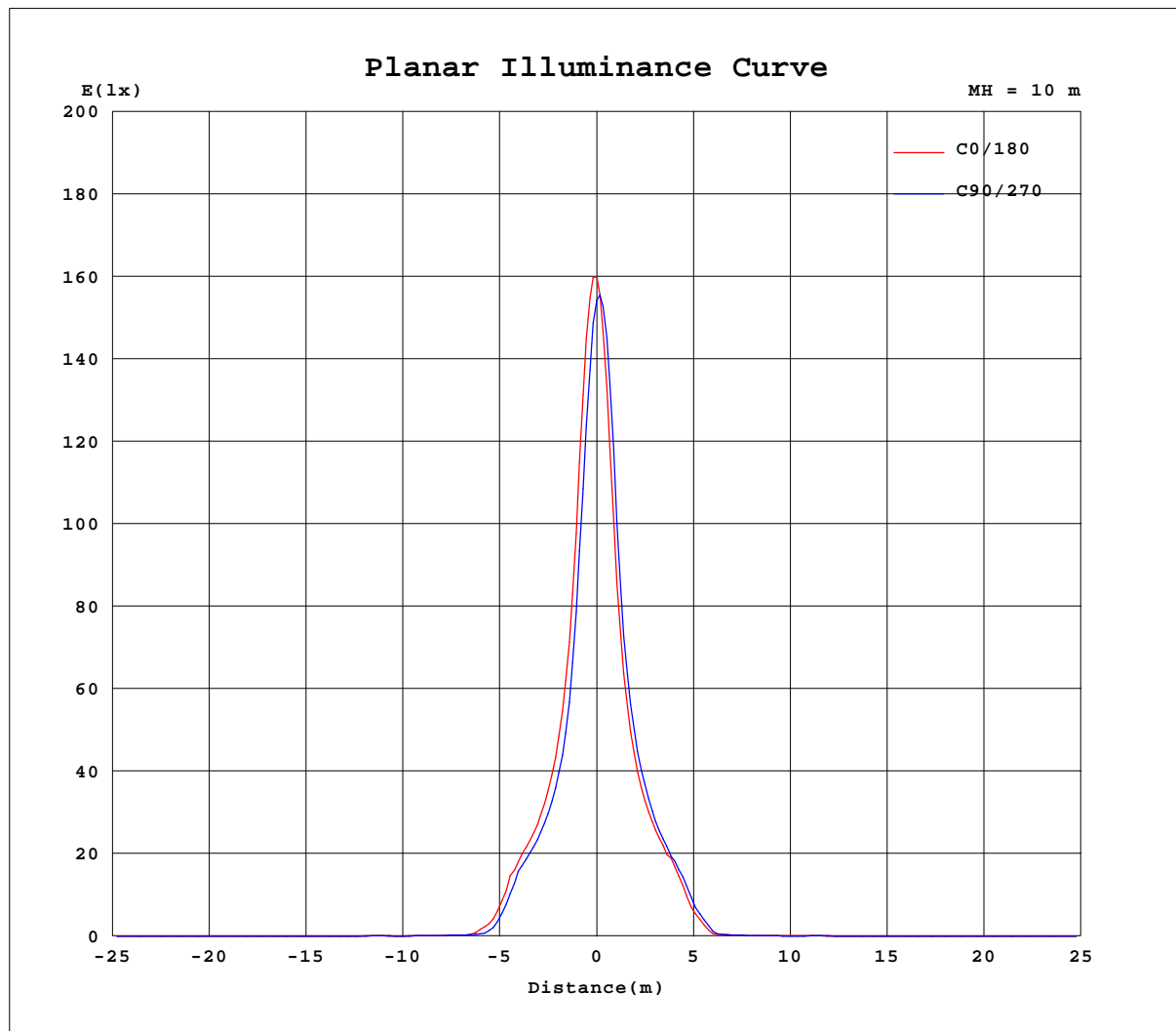
AvgL	cd/m2
L_0~180(65)av	340
L_0~180(75)av	121
L_0~180(85)av	89
L_90~270(65)av	341
L_90~270(75)av	128
L_90~270(85)av	94
L_45(65)av	312
L_45(75)av	119
L_45(85)av	99

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Lirongtong
Test Date:2017-06-12

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203
Humidity:65.0%
Test Distance:2.500m [K=1.0438]
Remarks: LAMP:CLU038-1205C4-303H5M3-F1 Ra:90
DRIVER:LCI42W 1050mA TEC SR
REFLECTOR:GR92-15 15R
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Lirongtong
 Test Date: 2017-06-12

deg Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203
 Humidity: 65.0%
 Test Distance: 2.500m [K=1.0438]
 Remarks: LAMP: CLU038-1205C4-303H5M3-F1 Ra:90
 DRIVER: LCI42W 1050mA TEC SR
 REFLECTOR: GR92-15 15R
 30minutes warm-up



RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.00V I:0.2034A P:46.790W PF:0.9547 Freq:50.00Hz Lamp Flux:4371.9x1 lm		
NAME: 1618.163-WH15-BHCTF05	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1706129304
MFR.: RISE	SUR.:0.025434m2	Shielding Angle:

Table--1

UNIT: ×10cd

C(°) g (°)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1599	1581	1571	1548	1554	1529	1544	1517	1535	1515	1528	1513	1599	1581	1571	1548	1554	1529	1544
5	1163	1029	1054	935	985	887	943	870	948	893	985	932	1021	1132	1085	1204	1167	1254	1194
10	573	517	519	477	483	451	461	443	467	453	487	477	519	554	544	593	572	613	588
15	357	333	332	311	314	298	305	293	304	300	315	312	335	352	348	366	360	379	371
20	261	239	244	229	233	223	227	220	227	224	234	231	240	257	251	262	260	269	264
25	152	127	130	104	113	92.3	106	90.9	110	100	124	116	130	156	148	160	160	189	163
30	36.8	13.5	20.4	11.7	25.9	10.2	13.3	10.7	25.2	11.8	20.5	13.2	23.9	23.4	18.1	40.8	39.2	45.0	40.3
35	7.35	7.26	7.67	7.16	7.06	6.49	7.04	6.76	7.43	7.30	7.85	7.40	7.74	8.18	7.80	8.19	7.39	7.52	7.04
40	5.47	4.97	5.50	4.76	4.87	4.29	4.74	4.38	4.96	4.71	5.30	4.83	5.07	5.73	5.23	6.00	5.24	5.71	5.13
45	4.04	4.29	4.11	4.33	3.94	4.40	3.93	4.49	3.96	4.40	4.01	4.27	4.46	4.09	4.18	4.08	3.99	3.93	3.91
50	6.44	5.54	6.31	5.06	5.81	4.51	5.64	4.30	5.68	4.49	5.77	4.95	5.35	6.26	5.88	6.13	6.09	6.07	6.19
55	1.58	1.25	1.43	1.19	1.33	1.17	1.32	1.13	1.24	1.07	1.24	1.08	1.19	1.45	1.20	1.68	1.27	1.92	1.37
60	0.86	0.72	0.81	0.67	0.77	0.66	0.77	0.64	0.71	0.58	0.68	0.59	0.65	0.75	0.66	0.77	0.70	0.83	0.74
65	0.44	0.34	0.38	0.30	0.36	0.29	0.35	0.27	0.32	0.24	0.29	0.25	0.29	0.37	0.31	0.38	0.34	0.43	0.38
70	0.19	0.15	0.16	0.13	0.16	0.14	0.16	0.12	0.14	0.11	0.13	0.11	0.13	0.15	0.13	0.17	0.15	0.20	0.17
75	0.09	0.07	0.08	0.07	0.08	0.07	0.08	0.07	0.07	0.06	0.07	0.06	0.07	0.08	0.07	0.09	0.08	0.10	0.09
80	0.05	0.04	0.05	0.04	0.04	0.04	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.05
85	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.03	0.02
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
95	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	0.00	0.01	0.01	0.01
100	0.01	0.01	0.01	0.01	0.00	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
105	0.01	0.01	0.00	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	0.00	0.01
110	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
115	0.01	0.00	0.01	0.01	0.00	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
120	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
125	0.01	0.01	0.01	0.00	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
130	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
135	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	0.02
140	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
145	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
150	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
155	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.02	0.02
160	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.04	0.04	0.04	0.03	0.04	0.03	0.04
165	0.02	0.03	0.03	0.02	0.03	0.02	0.03	0.03	0.02	0.02	0.02	0.02	0.09	0.08	0.09	0.07	0.08	0.07	0.08
170	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.13	0.12	0.13	0.12	0.13	0.13	0.13
175	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.08	0.09	0.09	0.10	0.09	0.10	0.10
180	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.06	0.06	0.05	0.05	0.05	0.06	0.06

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Lirongtong
Test Date:2017-06-12

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203
Humidity:65.0%
Test Distance:2.500m [K=1.0438]
Remarks: LAMP:CLU038-1205C4-303H5M3-F1 Ra:90
DRIVER:LCI42W 1050mA TEC SR
REFLECTOR:GR92-15 15R
30minutes warm-up



RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.00V I:0.2034A P:46.790W PF:0.9547 Freq:50.00Hz Lamp Flux:4371.9x1 lm		
NAME: 1618.163-WH15-BHCTF05	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1706129304
MFR.: RISE	SUR.:0.025434m2	Shielding Angle:

Table--2

UNIT: ×10cd

C(°) g (°)	285	300	315	330	345														
0	1517	1535	1515	1528	1513														
5	1262	1184	1231	1125	1153														
10	623	584	601	559	566														
15	382	365	375	350	353														
20	267	260	264	249	253														
25	189	162	161	149	156														
30	45.4	39.8	40.5	17.2	23.0														
35	7.50	7.06	7.53	6.99	7.06														
40	5.70	5.13	5.69	4.98	5.33														
45	3.89	3.91	3.96	4.01	3.80														
50	5.97	6.41	6.16	6.20	6.18														
55	1.97	1.32	1.86	1.29	1.59														
60	0.83	0.73	0.83	0.73	0.82														
65	0.43	0.36	0.42	0.35	0.42														
70	0.20	0.16	0.19	0.16	0.19														
75	0.10	0.08	0.10	0.08	0.09														
80	0.06	0.05	0.05	0.04	0.05														
85	0.03	0.02	0.03	0.02	0.02														
90	0.01	0.01	0.01	0.01	0.01														
95	0.01	0.01	0.01	0.01	0.01														
100	0.01	0.01	0.01	0.01	0.01														
105	0.01	0.01	0.01	0.01	0.01														
110	0.01	0.01	0.01	0.01	0.01														
115	0.01	0.01	0.01	0.01	0.01														
120	0.01	0.01	0.01	0.01	0.01														
125	0.01	0.01	0.00	0.01	0.01														
130	0.02	0.01	0.01	0.01	0.01														
135	0.01	0.02	0.01	0.01	0.01														
140	0.01	0.01	0.01	0.01	0.01														
145	0.01	0.01	0.01	0.01	0.02														
150	0.02	0.02	0.01	0.02	0.02														
155	0.02	0.02	0.02	0.03	0.02														
160	0.03	0.04	0.03	0.04	0.04														
165	0.07	0.08	0.07	0.08	0.07														
170	0.13	0.13	0.13	0.13	0.13														
175	0.11	0.10	0.11	0.10	0.10														
180	0.06	0.06	0.06	0.06	0.06														

C Range: 0 - 360°
C Interval: 15.0°
Test Speed: HIGH
Temperature: 25.3°
Operators: Lirongtong
Test Date: 2017-06-12

g Range: 0 - 180°
Interval: 1.0°
Test System: EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203
Humidity: 65.0%
Test Distance: 2.500m [K=1.0438]
Remarks: LAMP: CLU038-1205C4-303H5M3-F1 Ra: 90
DRIVER: LCI42W 1050mA TEC SR
REFLECTOR: GR92-15 15R
30minutes warm-up