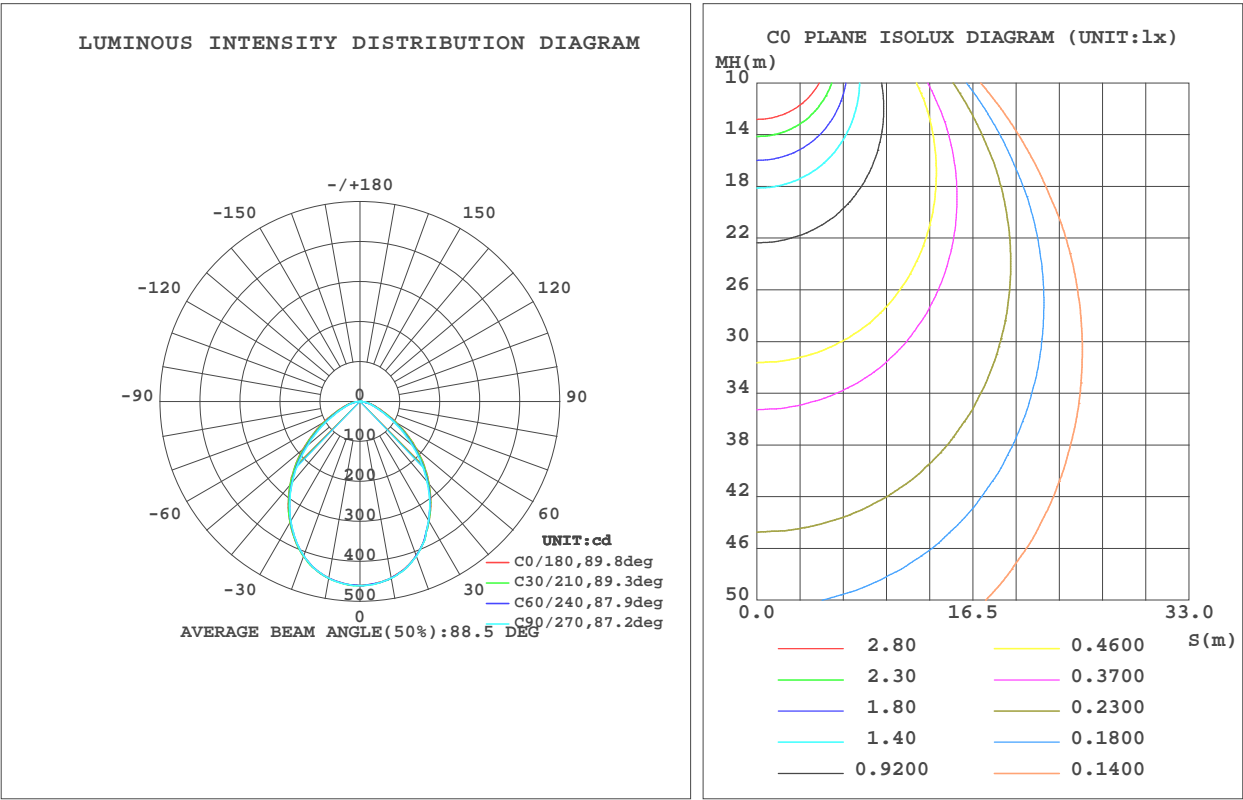


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.4V I:0.0783A P:9.100W PF:0.9682 Lamp Flux:931.098x1 lm		
NAME: F172#Selectfit downlight 4寸手板样 H-5000KTYPE:LED	WEIGHT:	
SPEC.:F172#Selectfit downlight 4寸手板样 H-5000KDIM.:	SERIAL No.:01	
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 102.32 lm/W			
MODEL		Imax(cd)	460.6	S/MH(C0/180)	1.14
NOMINAL POWER(W)	9.1	LOR(%)	100.0	S/MH(C90/270)	1.13
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	931.10	h UP,DN(C0-180)	0.0,50.1
NOMINAL FLUX(lm)	931.098	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,49.9
LAMPS INSIDE	1	h up(%)	0.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	h down(%)	99.9	CIBSE SHR MAX	1.25



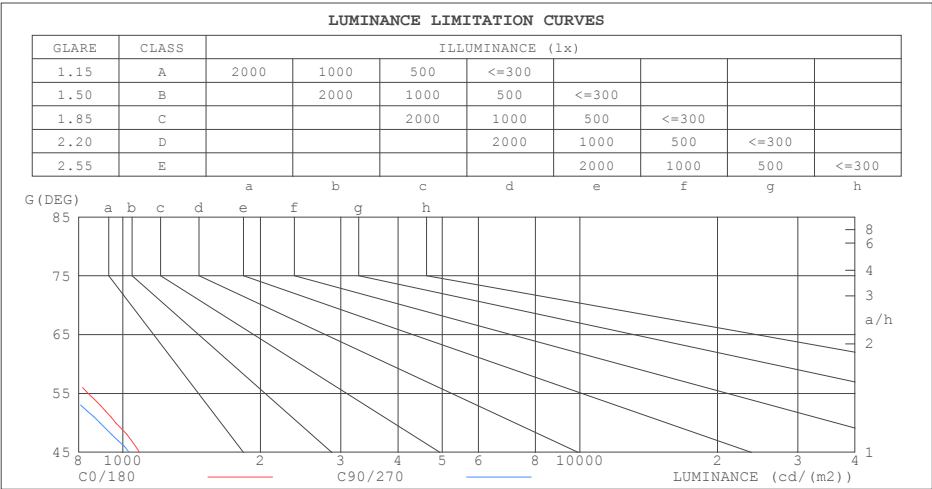
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2024-09-30

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:10.627m [K=1.0000]  
Remarks: TRP-240925SHA-01\_F172  
T409251

# ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

## ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum
10	448.7	448.9	448.8	448.3	448.2	448.7	449.0	448.5	0~ 10	43.38	43.38	4.66
20	412.2	412.7	411.2	411.3	410.6	410.9	412.1	411.4	10~ 20	122.1	165.4	17.8
30	350.2	345.9	346.0	345.3	345.7	347.9	343.8	348.1	20~ 30	175.4	340.9	36.6
40	272.5	267.2	263.7	267.5	268.9	268.2	261.3	268.6	30~ 40	192.4	533.3	57.3
50	185.9	180.5	172.2	181.0	185.3	179.2	172.2	178.8	40~ 50	172.3	705.5	75.8
60	106.2	99.38	90.14	98.51	104.4	97.46	90.77	97.78	50~ 60	122.7	828.2	89
70	48.10	43.46	40.23	43.45	46.84	42.61	40.20	43.20	60~ 70	66.75	895.0	96.1
80	17.88	15.67	12.73	15.79	15.67	15.34	13.11	15.73	70~ 80	30.94	925.9	99.4
90	0	0	0	0	0	0	0	0	80~ 90	4.689	930.6	99.9
100	0	0	0	0	0	0	0	0	90~100	0	930.6	99.9
110	0	0	0	0	0	0	0	0	100~110	0	930.6	99.9
120	0	0	0	0	0	0	0	0	110~120	0	930.6	99.9
130	0	0	0	0	0	0	0	0	120~130	0	930.6	99.9
140	0.0673	0.1173	0.0615	0.0864	0.1295	0.0616	0.1236	0.0738	130~140	0.0160	930.6	100
150	0.2336	0.3024	0.2402	0.2774	0.3083	0.2467	0.3089	0.2526	140~150	0.1089	930.8	100
160	0.3635	0.4505	0.3762	0.4375	0.4499	0.3763	0.4690	0.3943	150~160	0.1585	930.9	100
170	0.4806	0.5553	0.4933	0.5546	0.5507	0.4874	0.5615	0.4929	160~170	0.1344	931.0	100
180	0.5669	0.5738	0.5676	0.5730	0.5669	0.5676	0.5738	0.5669	170~180	0.0522	931.1	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

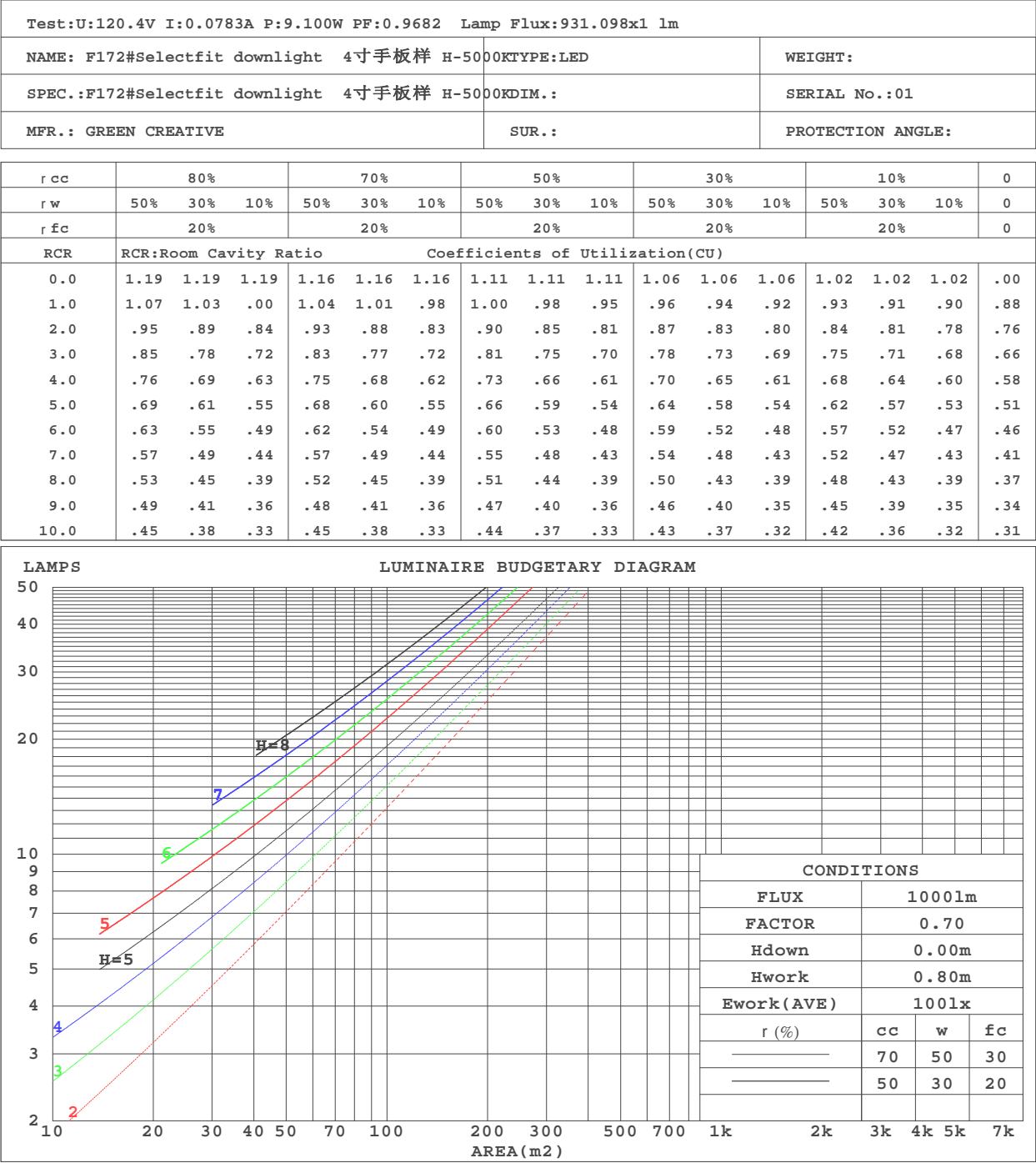


LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	121	25
80	344	244
75	427	341
70	469	392
65	576	471
60	709	601
55	841	750
50	965	892
45	1088	1032

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2024-09-30

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:10.627m [K=1.0000]  
Remarks: TRP-240925SHA-01\_F172  
T409251

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:Aaron

Test Date:2024-09-30

g Range: 0 - 180DEG

g Interval: 1.0DEG

Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.291

Humidity:65.0%

Test Distance:10.627m [K=1.0000]

Remarks: TRP-240925SHA-01\_F172

T409251

## WEC AND CCEC

Test:U:120.4V I:0.0783A P:9.100W PF:0.9682 Lamp Flux:931.098x1 lm		
NAME: F172#Selectfit downlight 4寸手板样 H-5000KTYPE:LED	WEIGHT:	
SPEC.:F172#Selectfit downlight 4寸手板样 H-5000KDIM.:	SERIAL No.:01	
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

r cc	80%			70%			50%			30%			10%			0
r w	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 Wall Exitance Coefficients(WEC)															
0.0																
1.0	.256	.146	.046	.249	.142	.045	.236	.135	.043	.224	.129	.041	.213	.124	.040	
2.0	.248	.136	.042	.242	.133	.041	.230	.128	.040	.220	.123	.039	.210	.119	.037	
3.0	.234	.124	.037	.229	.122	.037	.219	.119	.036	.209	.115	.035	.201	.111	.034	
4.0	.220	.114	.034	.215	.112	.033	.206	.109	.033	.198	.106	.032	.190	.103	.032	
5.0	.206	.105	.030	.202	.104	.030	.194	.101	.030	.187	.099	.029	.180	.096	.029	
6.0	.193	.097	.028	.189	.096	.028	.183	.094	.027	.176	.091	.027	.170	.090	.027	
7.0	.182	.090	.025	.178	.089	.025	.172	.087	.025	.166	.085	.025	.161	.084	.025	
8.0	.171	.084	.023	.168	.083	.023	.163	.081	.023	.157	.080	.023	.152	.078	.023	
9.0	.161	.078	.022	.159	.077	.022	.154	.076	.022	.149	.075	.021	.145	.073	.021	
10.0	.153	.073	.020	.150	.073	.020	.146	.071	.020	.142	.070	.020	.138	.069	.020	

r cc	80%			70%			50%			30%			10%			0
r w	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			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.177	.157	.139	.151	.135	.120	.104	.093	.083	.060	.054	.048	.019	.017	.016	
2.0	.167	.133	.104	.143	.114	.090	.098	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.158	.114	.080	.135	.099	.069	.093	.069	.049	.054	.040	.029	.017	.013	.009	
4.0	.150	.101	.063	.129	.087	.055	.088	.061	.039	.051	.036	.023	.016	.012	.008	
5.0	.143	.090	.051	.122	.078	.045	.084	.054	.031	.049	.032	.019	.016	.010	.006	
6.0	.136	.081	.042	.117	.071	.037	.080	.049	.026	.047	.029	.016	.015	.009	.005	
7.0	.129	.074	.036	.111	.064	.031	.077	.045	.022	.045	.027	.013	.014	.009	.004	
8.0	.123	.069	.031	.106	.059	.027	.073	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.118	.064	.027	.101	.055	.024	.070	.039	.017	.041	.023	.010	.013	.008	.003	
10.0	.112	.059	.024	.097	.052	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2024-09-30

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:10.627m [K=1.0000]  
Remarks: TRP-240925SHA-01\_F172  
T409251

UGR(Unified Glare Rating) Table

Test:U:120.4V I:0.0783A P:9.100W PF:0.9682 Lamp Flux:931.098x1 lm										
NAME: F172#Selectfit downlight 4寸手板样 H-5000KTYPE:LED								WEIGHT:		
SPEC.:F172#Selectfit downlight 4寸手板样 H-5000KDIM.:								SERIAL No.:01		
MFR.: GREEN CREATIVE					SUR.:			PROTECTION 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	11.8	13.1	12.0	13.3	13.5	11.2	12.6	11.5	12.8	13.0
3H	12.4	13.7	12.7	13.9	14.1	11.8	13.0	12.0	13.2	13.4
4H	12.7	13.9	13.0	14.1	14.3	12.0	13.1	12.3	13.4	13.6
6H	12.9	14.0	13.2	14.2	14.5	12.0	13.2	12.4	13.4	13.7
8H	12.9	13.9	13.2	14.2	14.5	12.0	13.1	12.4	13.4	13.7
12H	12.8	13.9	13.2	14.1	14.4	12.0	13.0	12.3	13.3	13.6
4H 2H	12.0	13.2	12.3	13.4	13.7	11.5	12.7	11.8	13.0	13.2
3H	12.8	13.8	13.1	14.1	14.4	12.2	13.2	12.6	13.5	13.8
4H	13.2	14.1	13.5	14.4	14.7	12.5	13.4	12.9	13.7	14.1
6H	13.4	14.3	13.8	14.6	15.0	12.7	13.5	13.1	13.8	14.2
8H	13.5	14.3	13.9	14.6	15.0	12.7	13.4	13.1	13.8	14.2
12H	13.5	14.2	13.9	14.6	15.0	12.7	13.3	13.1	13.7	14.1
8H 4H	13.2	14.0	13.6	14.3	14.7	12.6	13.4	13.0	13.7	14.1
6H	13.6	14.2	14.0	14.6	15.0	12.9	13.5	13.3	13.9	14.3
8H	13.7	14.2	14.1	14.7	15.1	12.9	13.4	13.4	13.9	14.3
12H	13.7	14.2	14.2	14.6	15.1	12.9	13.3	13.3	13.8	14.3
12H 4H	13.2	13.9	13.6	14.3	14.7	12.6	13.3	13.0	13.7	14.1
6H	13.6	14.1	14.0	14.6	15.0	12.9	13.4	13.3	13.8	14.3
8H	13.7	14.2	14.2	14.6	15.1	12.9	13.4	13.4	13.8	14.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.5					+ 0.5 / - 0.6				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.8 / - 0.9					+ 1.0 / - 1.1				

CIE Pub.117 Corrected 931.1 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.2)

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2024-09-30

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:10.627m [K=1.0000]  
Remarks: TRP-240925SHA-01\_F172  
T409251

## UTILIZATION FACTORS TABLE

Test:U:120.4V I:0.0783A P:9.100W PF:0.9682 Lamp Flux:931.098x1 lm		
NAME: F172#Selectfit downlight 4寸手板样 H-5000K	TYPE:LED	WEIGHT:
SPEC.:F172#Selectfit downlight 4寸手板样 H-5000K	DIM.:	SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION 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	65	54	48	64	54	48	63	54	48	42
0.80	75	65	58	74	64	58	72	63	58	52
1.00	83	73	67	82	73	67	80	74	66	60
1.25	89	81	75	88	80	74	86	79	73	67
1.50	94	86	80	92	85	79	90	83	78	72
2.00	100	93	87	98	92	87	95	89	85	78
2.50	103	96	92	101	95	91	97	93	89	81
3.00	106	100	96	104	99	94	100	96	92	85
4.00	109	104	100	107	103	99	103	99	96	88
5.00	111	107	104	108	105	102	104	101	99	90
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:Aaron  
 Test Date:2024-09-30

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:10.627m [K=1.0000]  
 Remarks: TRP-240925SHA-01\_F172  
 T409251

## ISOCANDELA DIAGRAM

Test:U:120.4V I:0.0783A P:9.100W PF:0.9682 Lamp Flux:931.098x1 lm		
NAME: F172#Selectfit downlight 4寸手板样 H-5000KTYPE:LED	WEIGHT:	
SPEC.:F172#Selectfit downlight 4寸手板样 H-5000KDIM.:	SERIAL No.:01	
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

624.13 lm

%lum = 67.0%

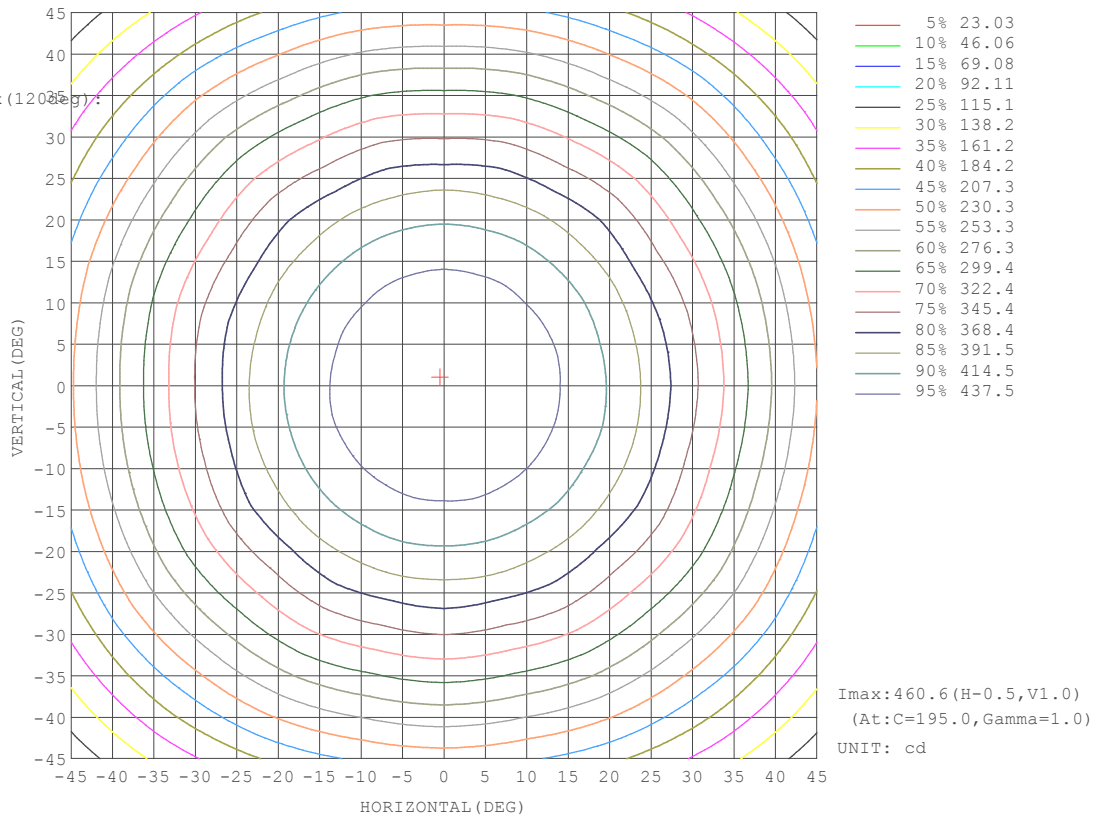
%lamp = 67.0%

Conical surface Flux(120deg):

828.24 lm

%lum = 89.0%

%lamp = 89.0%



C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:Aaron

Test Date:2024-09-30

g Range: 0 - 180DEG

g Interval: 1.0DEG

Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.291

Humidity:65.0%

Test Distance:10.627m [K=1.0000]

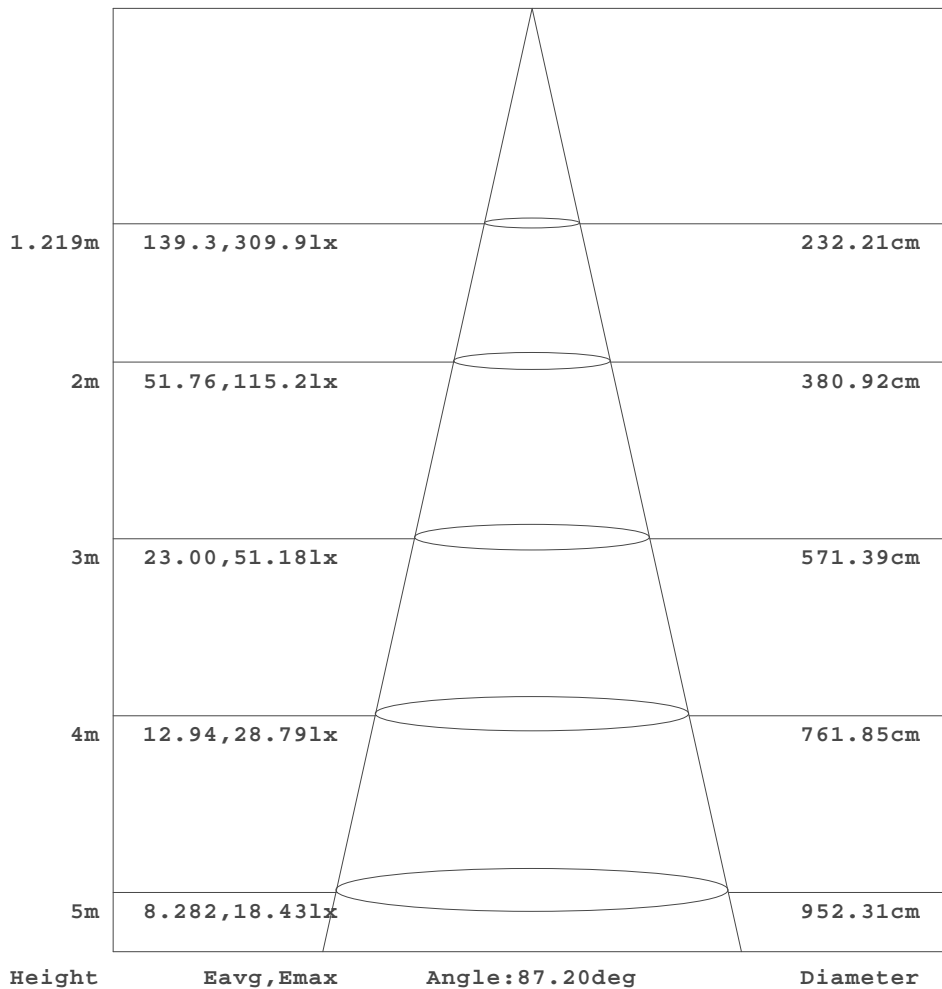
Remarks: TRP-240925SHA-01\_F172

T409251

## AAI Figure

Test:U:120.4V I:0.0783A P:9.100W PF:0.9682 Lamp Flux:931.098x1 lm		
NAME: F172#Selectfit downlight 4寸手板样 H-5000KTYPE:LED	WEIGHT:	
SPEC.:F172#Selectfit downlight 4寸手板样 H-5000KDIM.:	SERIAL No.:01	
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Flux out:606.6 lm



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

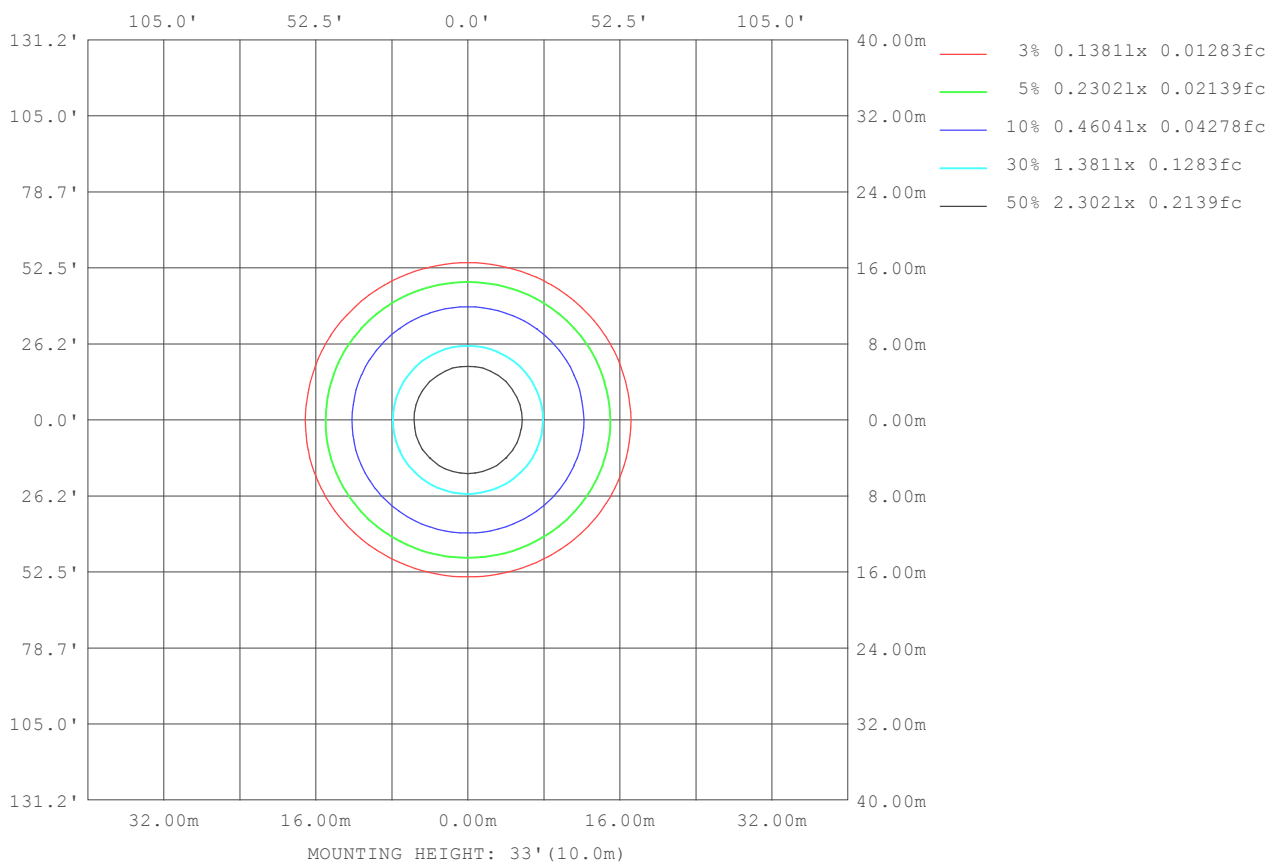
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Aaron  
 Test Date:2024-09-30

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:10.627m [K=1.0000]  
 Remarks: TRP-240925SHA-01\_F172  
 T409251



## ISOLUX DIAGRAM

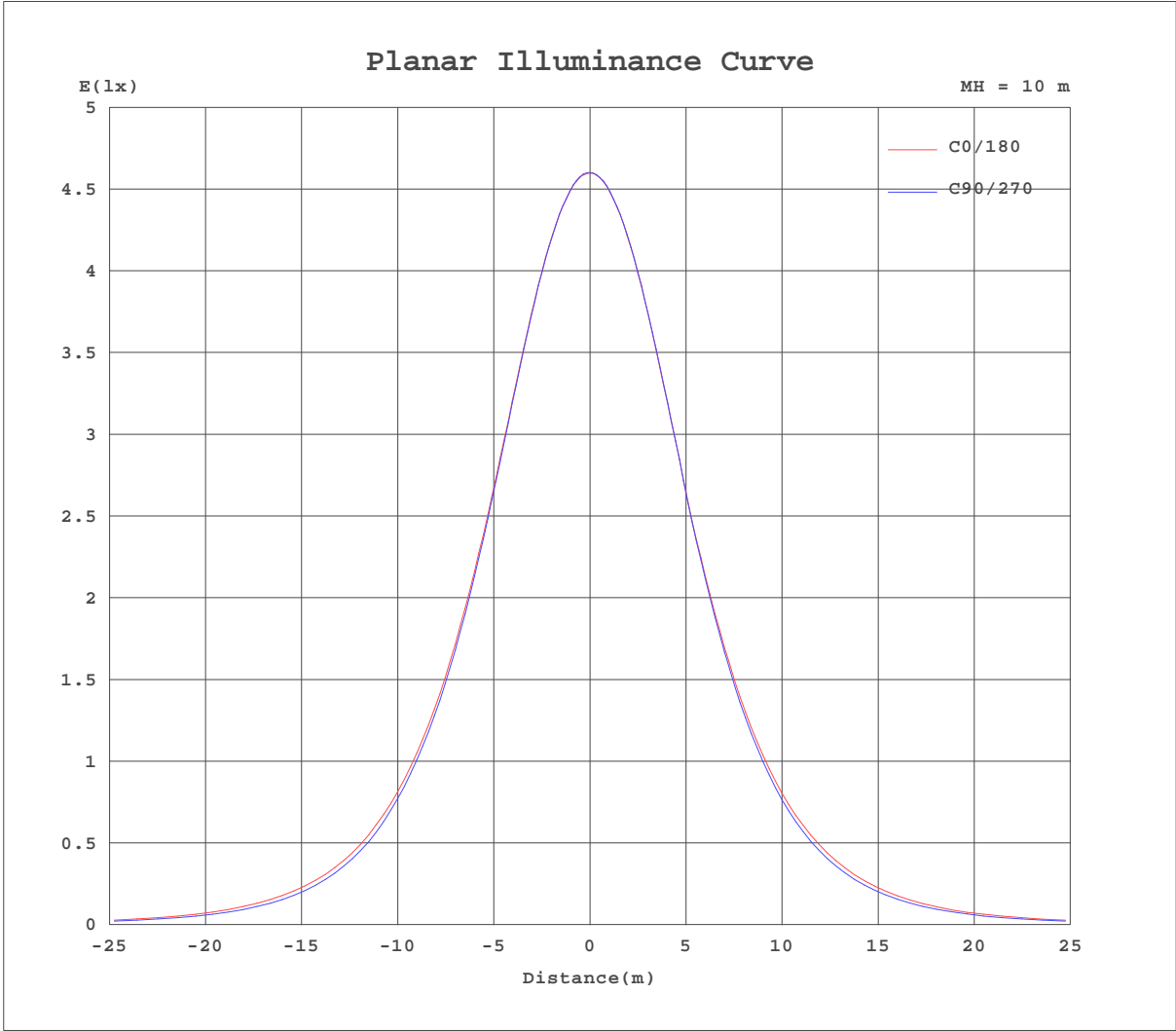
Test:U:120.4V I:0.0783A P:9.100W PF:0.9682 Lamp Flux:931.098x1 lm		
NAME: F172#Selectfit downlight 4寸手板样 H-5000KTYPE:LED	WEIGHT:	
SPEC.:F172#Selectfit downlight 4寸手板样 H-5000KDIM.:	SERIAL No.:01	
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2024-09-30

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:10.627m [K=1.0000]  
Remarks: TRP-240925SHA-01\_F172  
T409251

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Aaron  
Test Date:2024-09-30

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:10.627m [K=1.0000]  
Remarks: TRP-240925SHA-01\_F172  
T409251