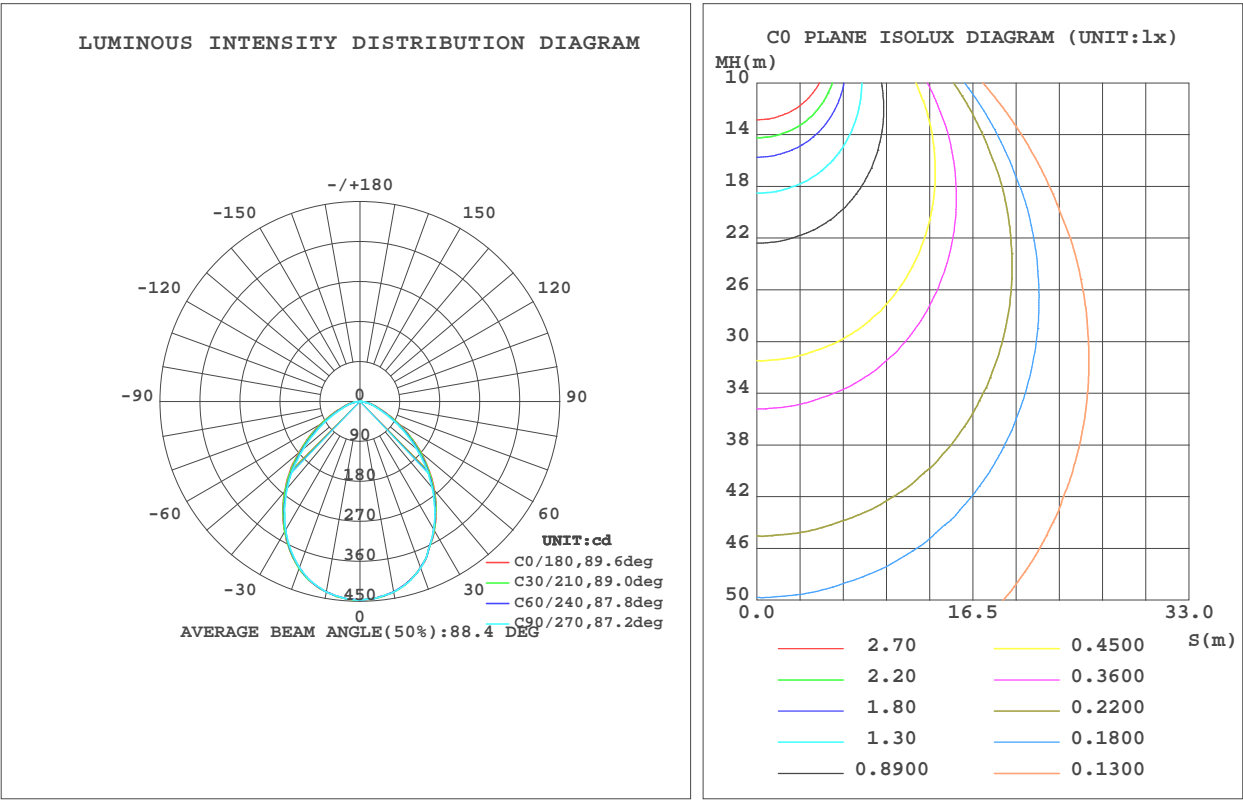


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.4V I:0.0772A P:9.000W PF:0.9667 Lamp Flux:901.91lx1 lm		
NAME: F172#Selectfit downlight 4寸手板样 H-4000KTYPE:LED	WEIGHT:	
SPEC.:F172#Selectfit downlight 4寸手板样 H-4000KDIM.:	SERIAL No.:01	
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 100.21 lm/W			
MODEL		Imax(cd)	447.4	S/MH(C0/180)	1.13
NOMINAL POWER(W)	9	LOR(%)	100.0	S/MH(C90/270)	1.13
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	901.91	h UP,DN(C0-180)	0.0,50.1
NOMINAL FLUX(lm)	901.911	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,49.9
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	h down(%)	100.0	CIBSE SHR MAX	1.25



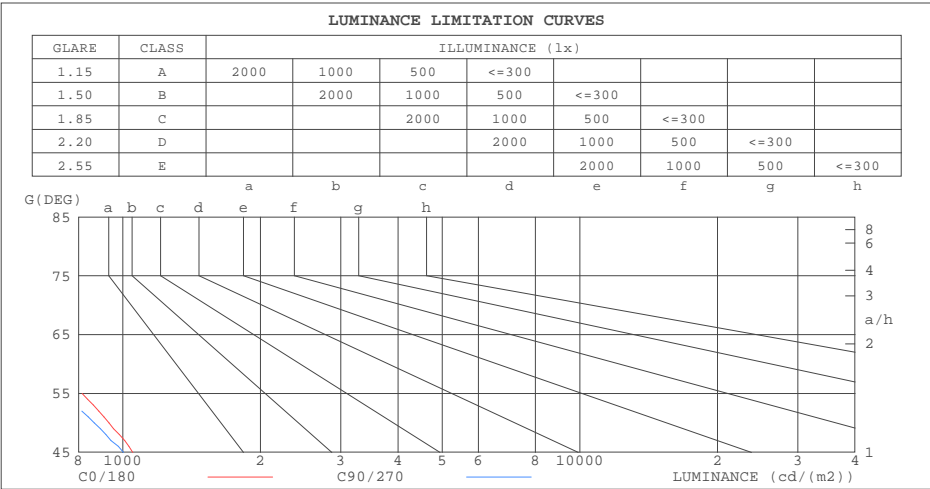
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Aaron
 Test Date:2024-09-30

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	435.4	435.3	435.5	435.4	435.2	434.4	435.6	435.3	0~ 10	42.08	42.08	4.67
20	399.6	399.2	398.0	399.6	398.0	398.2	398.9	399.3	10~ 20	118.4	160.5	17.8
30	339.1	335.0	334.2	335.5	334.7	335.3	332.2	336.8	20~ 30	169.8	330.2	36.6
40	263.8	258.0	254.9	258.7	260.4	259.5	252.4	259.8	30~ 40	186.1	516.3	57.2
50	180.1	174.8	167.1	175.4	179.6	173.6	167.2	173.2	40~ 50	166.7	683.0	75.7
60	102.9	96.85	88.19	95.96	101.2	94.78	88.86	94.98	50~ 60	119.2	802.2	88.9
70	46.66	42.10	38.94	42.10	45.34	41.20	38.86	41.90	60~ 70	64.87	867.0	96.1
80	17.36	15.12	12.30	15.30	15.10	14.73	12.70	15.22	70~ 80	29.92	897.0	99.5
90	0	0	0	0	0	0	0	0	80~ 90	4.523	901.5	100
100	0	0	0	0	0	0	0	0	90~100	0	901.5	100
110	0	0	0	0	0	0	0	0	100~110	0	901.5	100
120	0	0	0	0	0	0	0	0	110~120	0	901.5	100
130	0	0	0	0	0	0	0	0	120~130	0	901.5	100
140	0.0489	0.0987	0.0306	0.0617	0.1113	0.0431	0.1050	0.0617	130~140	0.0104	901.5	100
150	0.1913	0.2714	0.2032	0.2467	0.2780	0.2091	0.2838	0.2342	140~150	0.0945	901.6	100
160	0.3580	0.4129	0.3575	0.4071	0.4260	0.3512	0.4378	0.3625	150~160	0.1449	901.7	100
170	0.4629	0.4883	0.4623	0.4885	0.4744	0.4569	0.5192	0.4645	160~170	0.1243	901.9	100
180	0.4877	0.4991	0.5054	0.5056	0.4877	0.5053	0.5239	0.5056	170~180	0.0465	901.9	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

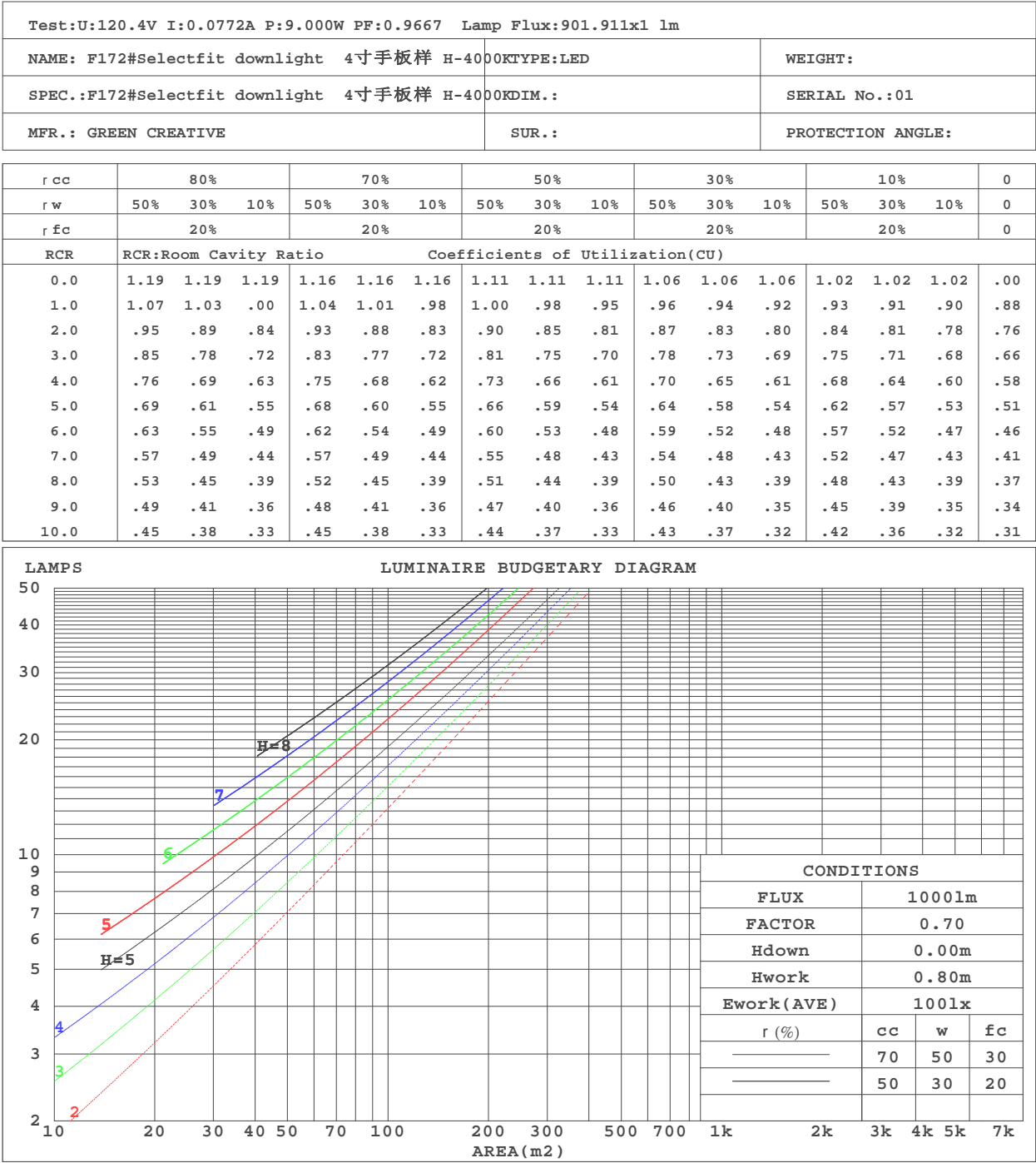


LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	116	23
80	333	236
75	412	329
70	454	380
65	557	459
60	685	588
55	815	730
50	933	867
45	1052	1003

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:0.0772A P:9.000W PF:0.9667 Lamp Flux:901.911x1 lm		
NAME: F172#Selectfit downlight 4寸手板样 H-4000KTYPE:LED	WEIGHT:	
SPEC.:F172#Selectfit downlight 4寸手板样 H-4000KDIM.:	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	.125	.037	.229	.122	.037	.219	.119	.036	.210	.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	.092	.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	.132	.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	.070	.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	.051	.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:0.0772A P:9.000W PF:0.9667 Lamp Flux:901.911x1 lm										
NAME: F172#Selectfit downlight 4寸手板样 H-4000KTYPE:LED								WEIGHT:		
SPEC.:F172#Selectfit downlight 4寸手板样 H-4000KDIM.:								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	11.6	13.0	11.9	13.2	13.4	11.1	12.5	11.4	12.7	12.9
3H	12.3	13.6	12.6	13.8	14.0	11.7	12.9	12.0	13.1	13.4
4H	12.6	13.7	12.9	14.0	14.2	11.9	13.0	12.2	13.3	13.5
6H	12.7	13.8	13.1	14.1	14.4	12.0	13.1	12.3	13.3	13.6
8H	12.7	13.8	13.1	14.1	14.4	11.9	13.0	12.3	13.3	13.6
12H	12.7	13.7	13.1	14.0	14.3	11.9	12.9	12.2	13.2	13.5
4H 2H	11.9	13.1	12.2	13.3	13.5	11.4	12.6	11.8	12.9	13.1
3H	12.7	13.7	13.0	14.0	14.3	12.1	13.1	12.5	13.4	13.7
4H	13.1	14.0	13.4	14.3	14.6	12.4	13.3	12.8	13.7	14.0
6H	13.3	14.2	13.7	14.5	14.9	12.6	13.4	13.0	13.7	14.1
8H	13.4	14.1	13.8	14.5	14.9	12.6	13.4	13.0	13.7	14.1
12H	13.4	14.1	13.8	14.4	14.8	12.6	13.3	13.0	13.6	14.0
8H 4H	13.1	13.9	13.5	14.2	14.6	12.5	13.3	12.9	13.6	14.0
6H	13.5	14.1	13.9	14.5	14.9	12.8	13.4	13.2	13.8	14.2
8H	13.6	14.1	14.0	14.5	15.0	12.8	13.3	13.3	13.8	14.2
12H	13.6	14.1	14.1	14.5	15.0	12.8	13.2	13.2	13.7	14.2
12H 4H	13.1	13.8	13.5	14.2	14.6	12.5	13.2	12.9	13.6	14.0
6H	13.5	14.0	13.9	14.5	14.9	12.8	13.3	13.2	13.7	14.2
8H	13.6	14.1	14.1	14.5	15.0	12.8	13.3	13.3	13.7	14.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.5					+ 0.5 / - 0.6				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.8 / - 0.9					+ 0.9 / - 1.1				

CIE Pub.117 Corrected 901.9 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.4)

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:0.0772A P:9.000W PF:0.9667 Lamp Flux:901.911x1 lm		
NAME: F172#Selectfit downlight 4寸手板样 H-4000KTYPE:LED	WEIGHT:	
SPEC.:F172#Selectfit downlight 4寸手板样 H-4000KDIM.:	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) x 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:0.0772A P:9.000W PF:0.9667 Lamp Flux:901.91lx1 lm		
NAME: F172#Selectfit downlight 4寸手板样 H-4000KTYPE:LED	WEIGHT:	
SPEC.:F172#Selectfit downlight 4寸手板样 H-4000KDIM.:	SERIAL No.:01	
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

604.24 lm

%lum = 67.0%

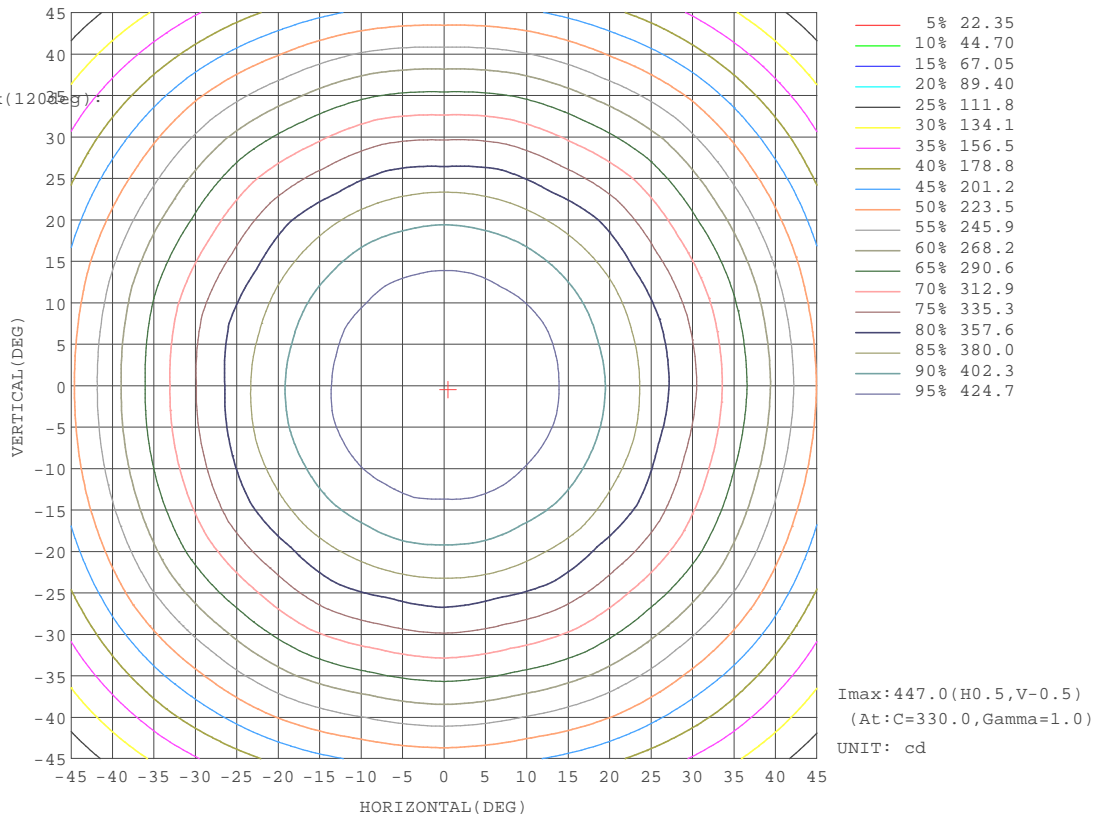
%lamp = 67.0%

Conical surface Flux(120deg):

802.17 lm

%lum = 88.9%

%lamp = 88.9%



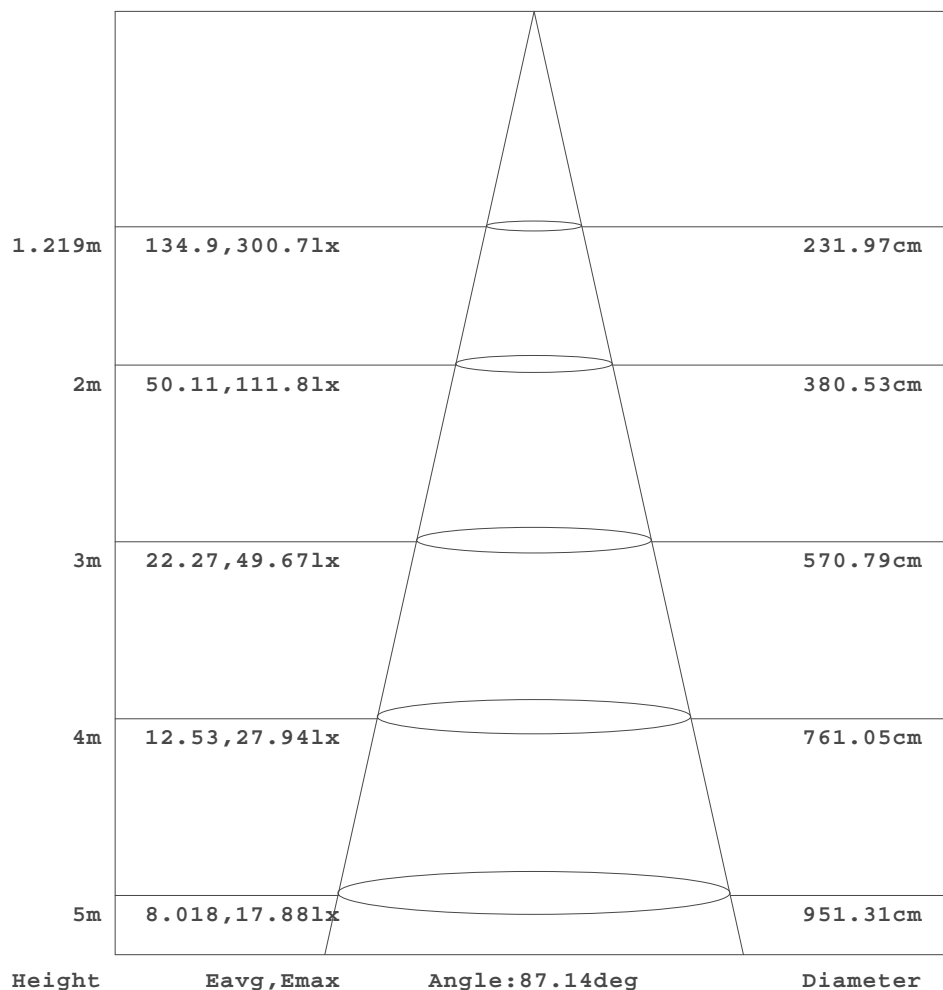
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2024-09-30

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:0.0772A P:9.000W PF:0.9667 Lamp Flux:901.91lx1 lm		
NAME: F172#Selectfit downlight 4寸手板样 H-4000KTYPE:LED	WEIGHT:	
SPEC.:F172#Selectfit downlight 4寸手板样 H-4000KDIM.:	SERIAL No.:01	
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Flux out:587.3 lm



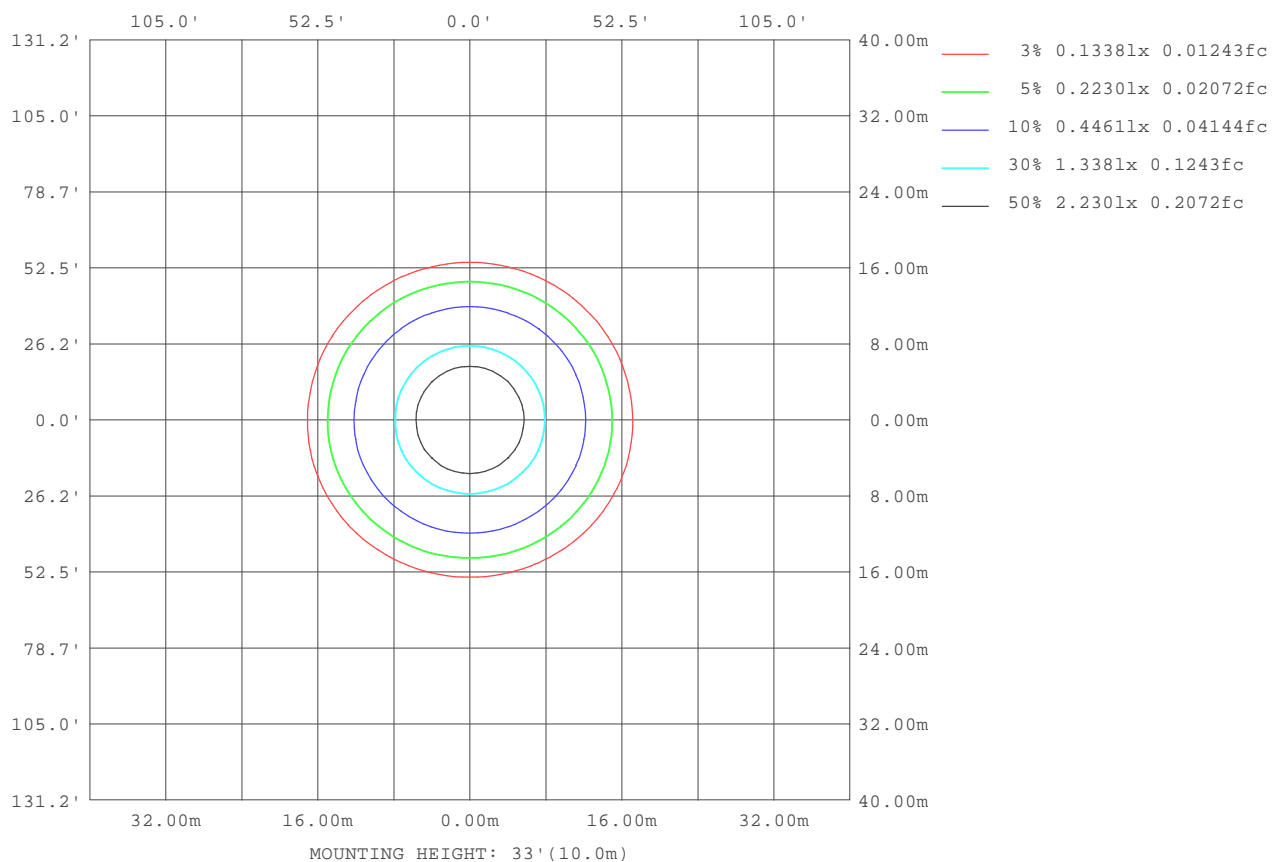
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

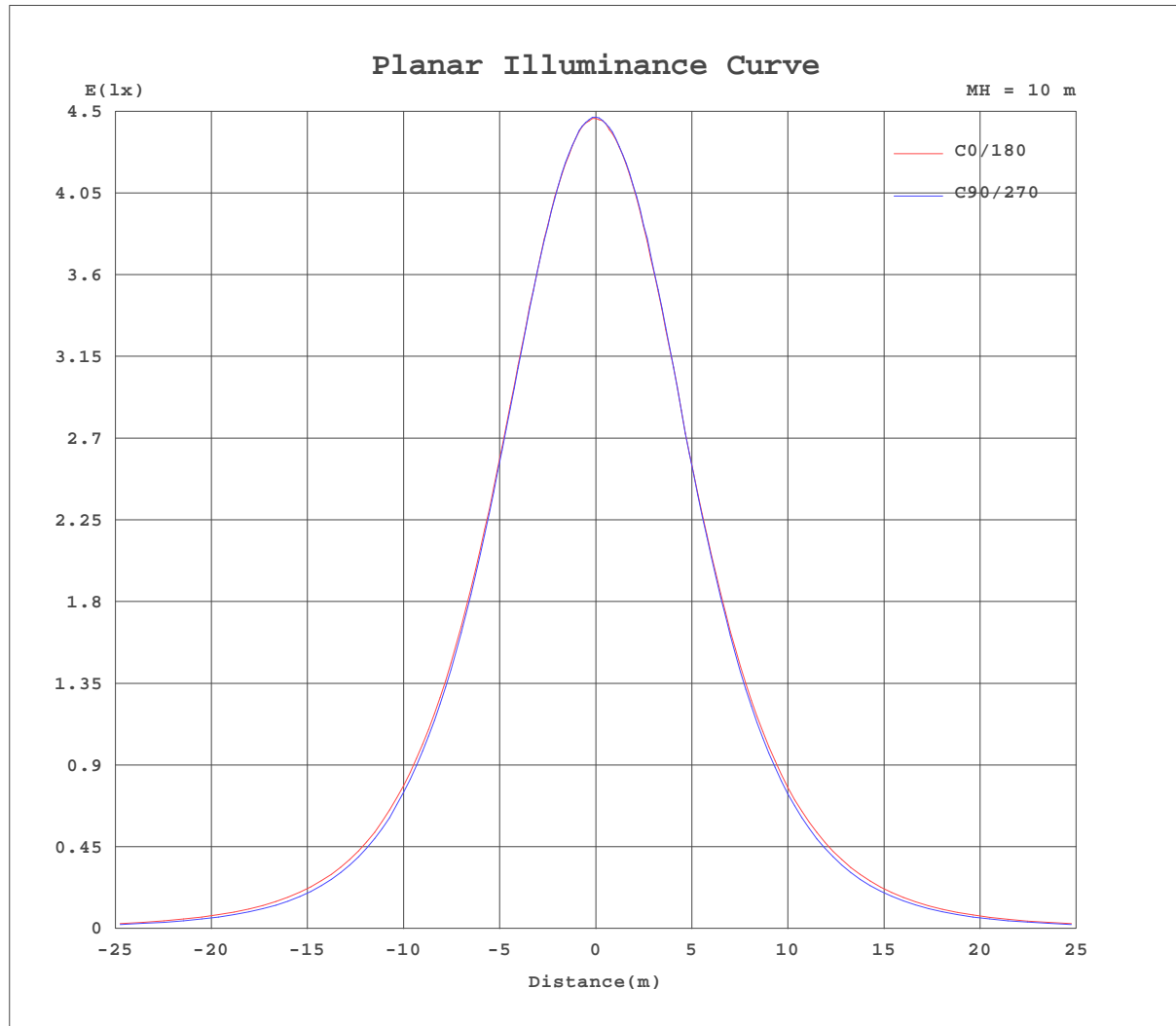
Test:U:120.4V I:0.0772A P:9.000W PF:0.9667 Lamp Flux:901.91lx1 lm		
NAME: F172#Selectfit downlight 4寸手板样 H-4000KTYPE:LED	WEIGHT:	
SPEC.:F172#Selectfit downlight 4寸手板样 H-4000KDIM.:	SERIAL No.:01	
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



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