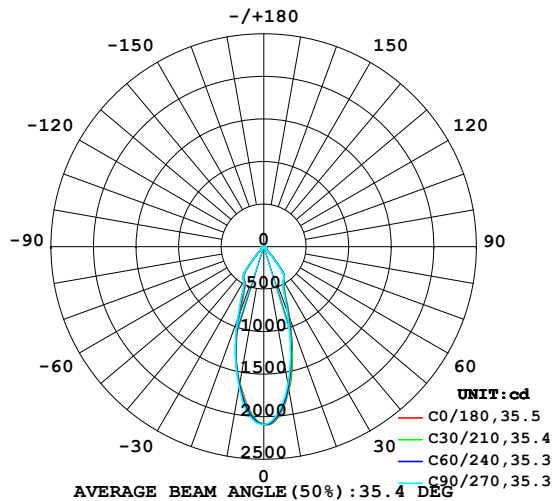


## LUMINAIRE PHOTOMETRIC TEST REPORT

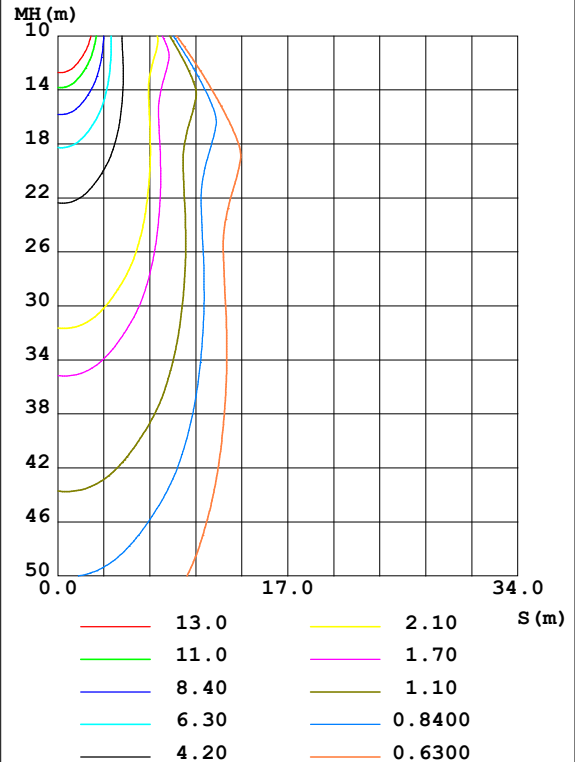
NAME:	TYPE:CRI90 3000K	WEIGHT:
SPEC.:RAD35R-15-WDT-UNV-38-WT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ55MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 79.68 lm/W
MODEL		Imax(cd)	2095	S/MH(C0/180)		0.58
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)		0.59
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1144.2	η UP,DN(C0-180)		0.0,49.0
NOMINAL FLUX(lm)	1144.23	CIE CLASS	DIRECT	η UP,DN(C180-360)		0.0,51.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM		0.50
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX		0.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-03-09

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.620m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	1709	1685	1638	1618	1633	1646	1678	1722	0- 10	178.1	178.1	15.6,15.6
20	888.1	857.7	817.1	800.4	828.4	856.8	911.7	911.7	10- 20	347.4	525.6	45.9,45.9
30	470.3	469.9	464.2	458.5	459.2	465.8	474.7	477.8	20- 30	273.3	798.8	69.8,69.8
40	216.3	199.3	156.7	164.6	185.2	187.6	226.0	234.5	30- 40	239.9	1039	90.8,90.8
50	31.28	31.53	31.29	30.83	31.38	32.01	32.82	32.18	40- 50	47.92	1087	95,95
60	23.02	23.14	22.95	22.87	23.20	23.48	23.77	23.51	50- 60	24.34	1111	97.1,97.1
70	16.85	16.81	16.60	16.60	16.85	17.03	17.25	17.15	60- 70	19.77	1131	98.8,98.8
80	4.012	3.698	3.320	3.408	4.102	4.445	5.027	4.801	70- 80	12.23	1143	99.9,99.9
90	0.0931	0.0935	0.0993	0.0967	0.1780	0.1788	0.1793	0.1823	80- 90	1.209	1144	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1072.3 lm

%lum = 93.7%

%lamp = 93.7%

Conical surface Flux(120deg): 1111 lm

%lum = 97.1%

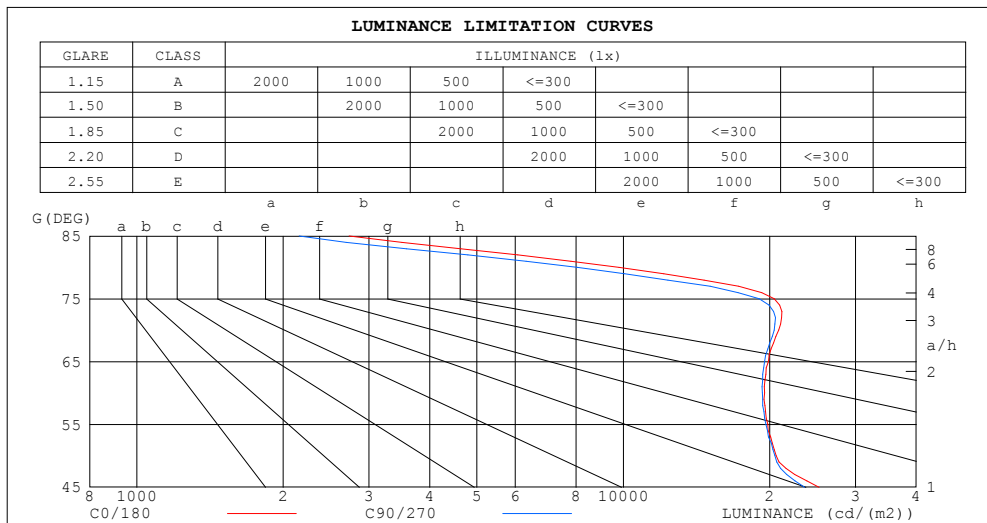
%lamp = 97.1%

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-03-09

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.620m [K=1.0000]  
Remarks:

## LUMINANCE LIMITATION CURVES

NAME:	TYPE:CRI90 3000K	WEIGHT:
SPEC.:RAD35R-15-WDT-UNV-38-WT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ55MM	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2733	2156
80	9792	8043
75	20428	19033
70	20873	20422
65	19868	19524
60	19511	19312
55	19805	19652
50	20620	20476
45	25272	23590

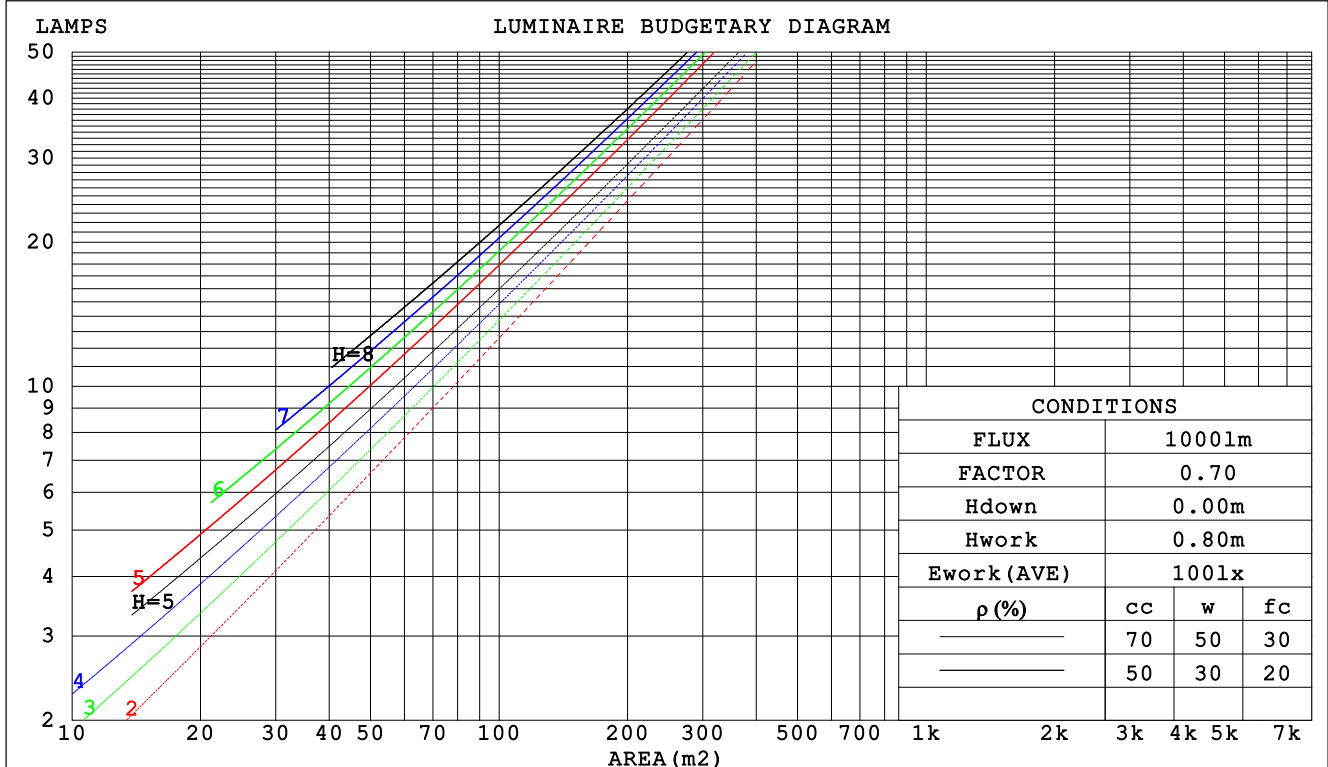
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-03-09

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.620m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME:	TYPE:CRI90 3000K	WEIGHT:
SPEC.:RAD35R-15-WDT-UNV-38-WT	DIM.:	SERIAL No.:1
MFR.:	SUR.:#55MM	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.11	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.95	1.01	.97	.94	.98	.95	.92	.95	.92	.90	.92	.90	.88	.87
3.0	.96	.91	.87	.95	.90	.86	.92	.88	.85	.89	.86	.84	.87	.85	.82	.81
4.0	.90	.84	.80	.89	.84	.80	.87	.82	.79	.85	.81	.78	.83	.80	.77	.75
5.0	.84	.79	.74	.83	.78	.74	.82	.77	.73	.80	.76	.73	.78	.75	.72	.71
6.0	.80	.74	.69	.79	.73	.69	.77	.72	.69	.76	.72	.68	.75	.71	.68	.66
7.0	.75	.69	.65	.75	.69	.65	.73	.68	.65	.72	.68	.64	.71	.67	.64	.63
8.0	.71	.65	.61	.71	.65	.61	.70	.65	.61	.69	.64	.61	.68	.64	.61	.59
9.0	.68	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.58	.65	.60	.57	.56
10.0	.64	.59	.55	.64	.59	.55	.63	.58	.55	.62	.58	.55	.62	.58	.55	.53



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-03-09

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.620m [K=1.0000]  
Remarks:

## WEC AND CCEC

NAME:	TYPE:CRI90 3000K	WEIGHT:
SPEC.:RAD35R-15-WDT-UNV-38-WT	DIM.:	SERIAL No.:1
MFR.:	SUR.:#55MM	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	.182	.104	.033	.175	.100	.032	.163	.093	.030	.151	.087	.028	.140	.081	.026		
2.0	.173	.095	.029	.168	.092	.028	.157	.087	.027	.147	.083	.026	.138	.078	.025		
3.0	.164	.087	.026	.159	.085	.026	.150	.081	.025	.142	.078	.024	.134	.074	.023		
4.0	.155	.081	.024	.151	.079	.023	.143	.076	.023	.136	.073	.022	.129	.070	.021		
5.0	.147	.075	.022	.143	.073	.021	.136	.071	.021	.130	.069	.020	.124	.066	.020		
6.0	.139	.070	.020	.136	.069	.020	.130	.067	.019	.125	.065	.019	.119	.063	.019		
7.0	.132	.065	.019	.130	.065	.018	.124	.063	.018	.119	.061	.018	.115	.060	.018		
8.0	.126	.062	.017	.124	.061	.017	.119	.060	.017	.115	.058	.017	.111	.057	.017		
9.0	.121	.058	.016	.118	.058	.016	.114	.056	.016	.110	.055	.016	.106	.054	.016		
10.0	.115	.055	.015	.113	.055	.015	.110	.054	.015	.106	.053	.015	.103	.052	.015		

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.171	.157	.144	.147	.135	.124	.100	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.156	.132	.112	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.089	.123	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.134	.099	.072	.115	.085	.063	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.125	.087	.060	.107	.075	.052	.074	.053	.037	.043	.031	.022	.014	.010	.007	
6.0	.117	.078	.050	.101	.067	.043	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.110	.070	.042	.095	.061	.037	.066	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.104	.064	.036	.090	.056	.032	.062	.039	.022	.036	.023	.013	.012	.008	.004	
9.0	.099	.059	.032	.085	.051	.027	.059	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.094	.054	.028	.081	.047	.024	.056	.033	.017	.033	.020	.010	.011	.006	.003	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-03-09

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.620m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

NAME :					TYPE:CRI90 3000K			WEIGHT:		
SPEC.:RAD35R-15-WDT-UNV-38-WT					DIM. :			SERIAL No.:1		
MFR. :					SUR.: $\phi$ 55MM			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	21.8	22.7	22.0	22.9	23.1	21.5	22.5	21.8	22.6	22.8
3H	22.1	23.0	22.4	23.2	23.4	21.9	22.7	22.1	22.9	23.1
4H	22.3	23.1	22.6	23.4	23.6	22.1	22.9	22.4	23.1	23.4
6H	22.4	23.1	22.7	23.4	23.6	22.1	22.9	22.4	23.1	23.4
8H	22.3	23.1	22.6	23.3	23.6	22.1	22.8	22.4	23.1	23.3
12H	22.3	23.0	22.6	23.3	23.5	22.0	22.7	22.3	23.0	23.3
4H 2H	21.7	22.5	22.0	22.8	23.0	21.5	22.3	21.8	22.5	22.8
3H	22.2	22.9	22.6	23.2	23.5	22.0	22.7	22.4	23.0	23.3
4H	22.6	23.2	22.9	23.5	23.8	22.4	23.0	22.7	23.3	23.6
6H	22.7	23.2	23.0	23.6	23.9	22.4	23.0	22.8	23.3	23.7
8H	22.6	23.2	23.0	23.5	23.9	22.4	22.9	22.8	23.3	23.6
12H	22.6	23.1	23.0	23.4	23.8	22.3	22.8	22.7	23.2	23.6
8H 4H	22.6	23.1	23.0	23.5	23.9	22.4	22.9	22.8	23.3	23.7
6H	22.7	23.2	23.2	23.6	24.0	22.5	22.9	22.9	23.3	23.7
8H	22.7	23.1	23.1	23.5	23.9	22.5	22.8	22.9	23.3	23.7
12H	22.7	23.0	23.1	23.4	23.9	22.4	22.7	22.9	23.2	23.6
12H 4H	22.6	23.1	23.0	23.4	23.8	22.4	22.9	22.8	23.2	23.6
6H	22.7	23.1	23.1	23.5	23.9	22.4	22.8	22.9	23.3	23.7
8H	22.7	23.0	23.1	23.4	23.9	22.4	22.7	22.9	23.2	23.7
Variations with the observer position at spacings:										
S = 1.0H	+ 2.7 / - 3.1					+ 2.6 / - 3.0				
1.5H	+ 5.1 / - 3.0					+ 4.9 / - 2.9				
2.0H	+ 0.3 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117, 1144 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 0.5$ )

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-03-09

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:5.620m [K=1.0000]  
 Remarks:

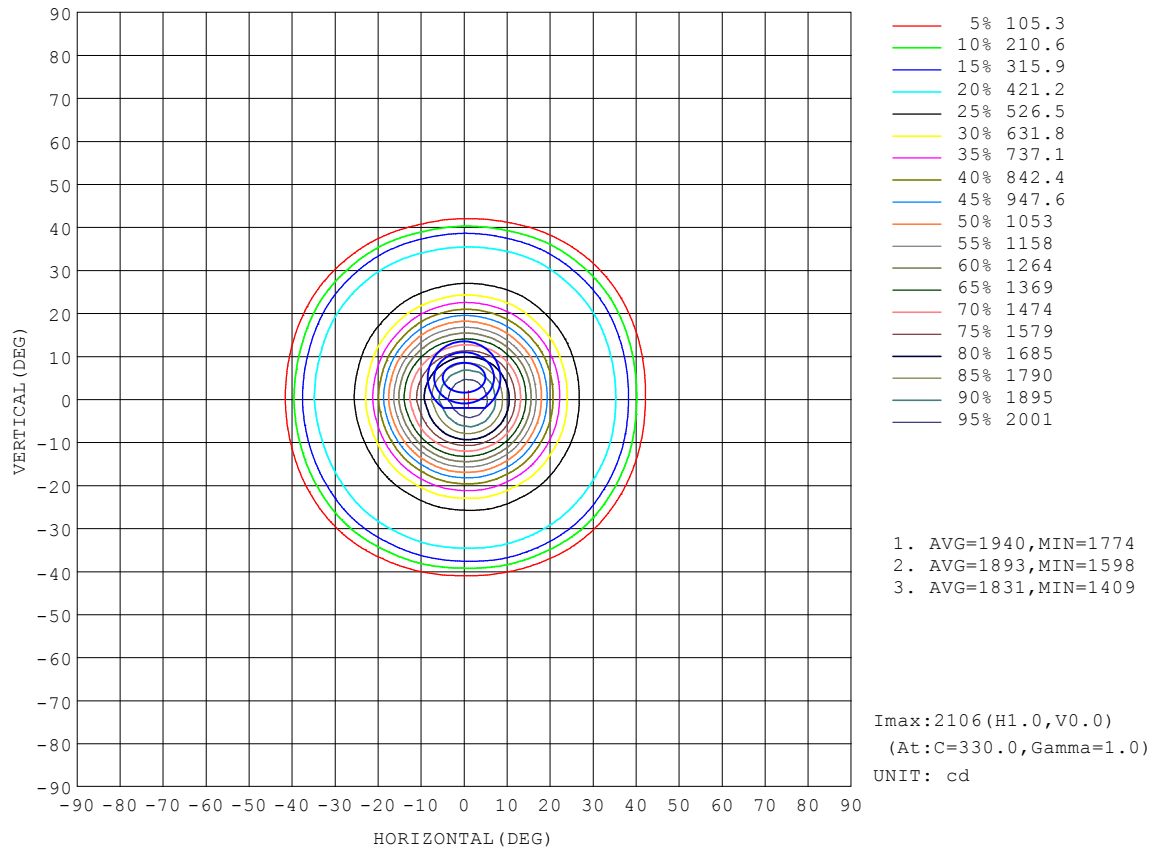
```

Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

```

## ISOCANDELA DIAGRAM

NAME:	TYPE:CRI90 3000K	WEIGHT:
SPEC.:RAD35R-15-WDT-UNV-38-WT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ55MM	Shielding Angle:



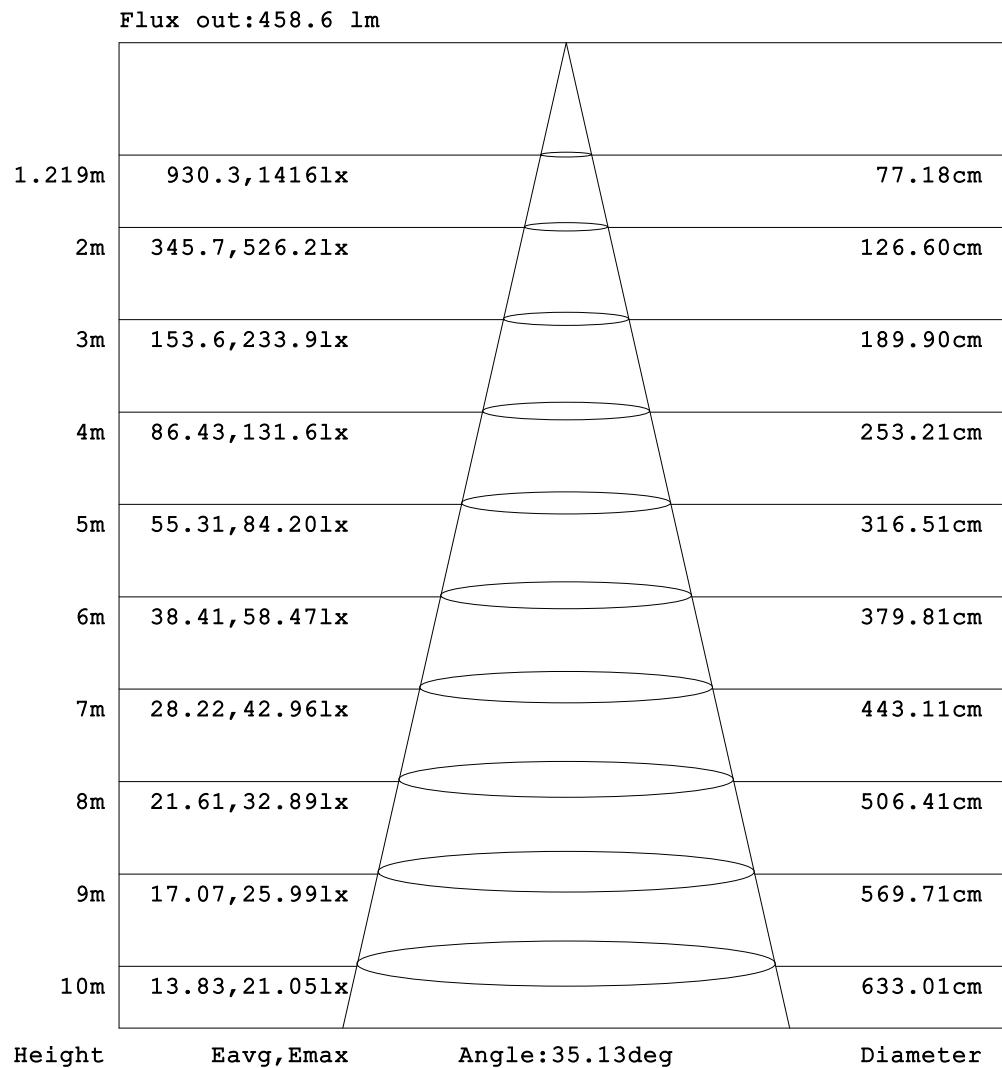
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-03-09

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.620m [K=1.0000]  
Remarks:



### AAI Figure

NAME:	TYPE:CRI90 3000K	WEIGHT:
SPEC.:RAD35R-15-WDT-UNV-38-WT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ55MM	Shielding Angle:



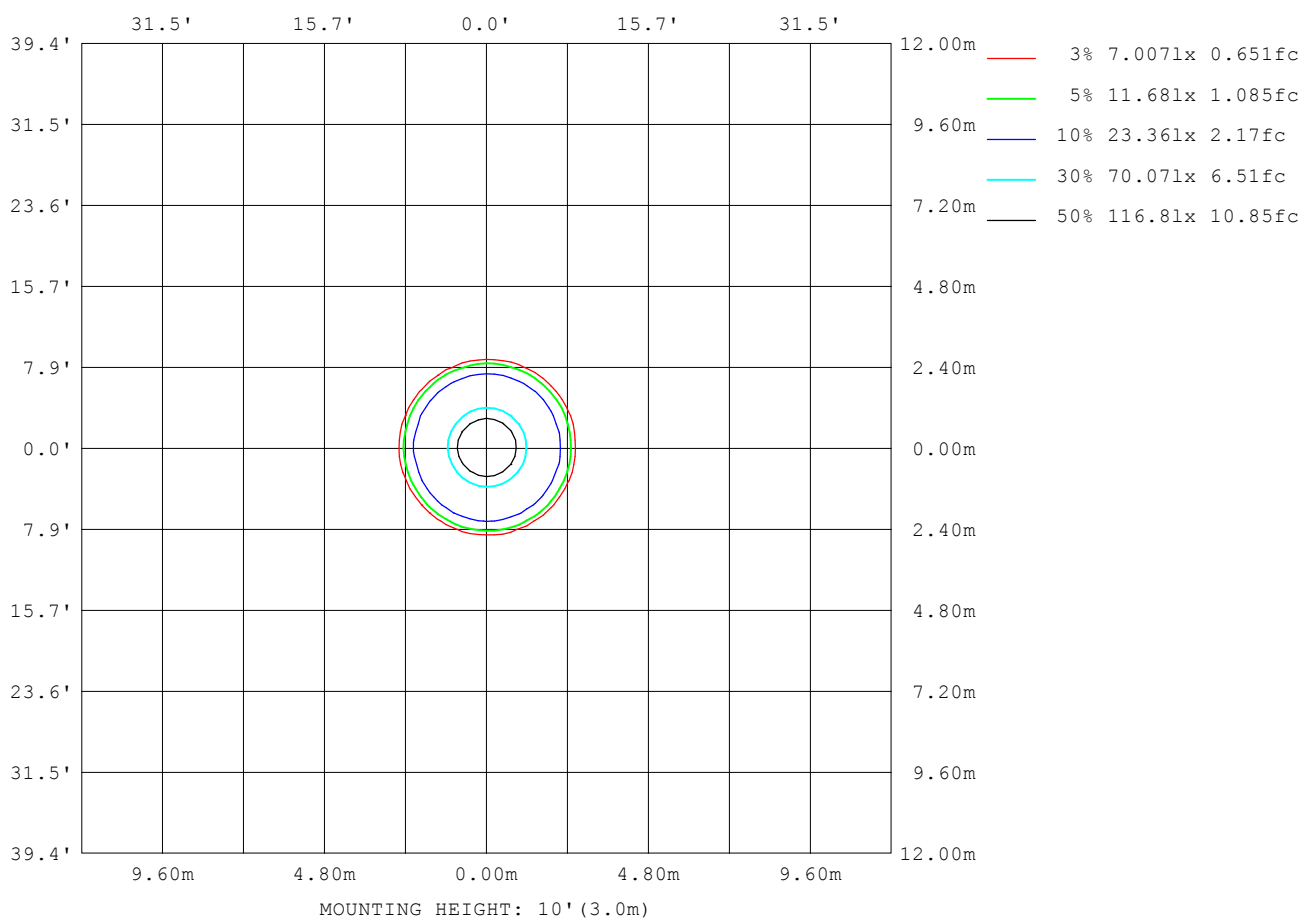
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-03-09

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.620m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

NAME:	TYPE:CRI90 3000K	WEIGHT:
SPEC.:RAD35R-15-WDT-UNV-38-WT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ55MM	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-03-09

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.620m [K=1.0000]  
Remarks:

## LED Avg.L Report

NAME:	TYPE:CRI90 3000K	WEIGHT:
SPEC.:RAD35R-15-WDT-UNV-38-WT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ55MM	Shielding Angle:

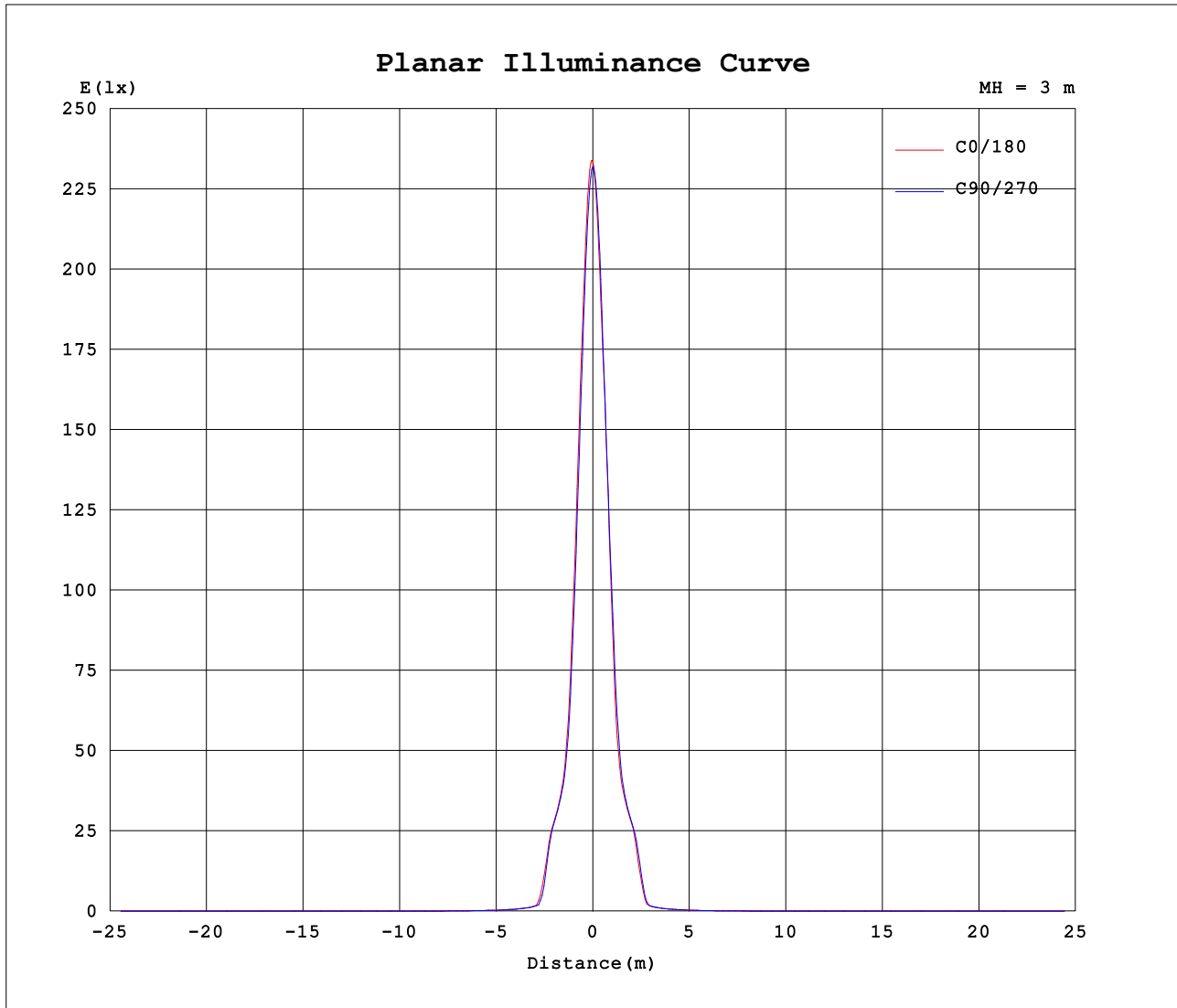
AvgL	cd/m2
L_0~180 (65) av	19794
L_0~180 (75) av	20361
L_0~180 (85) av	2822
L_90~270 (65) av	19924
L_90~270 (75) av	20342
L_90~270 (85) av	2998
L_45 (65) av	19886
L_45 (75) av	20350
L_45 (85) av	2859

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-03-09

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.620m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024-03-09

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 5.620m [K=1.0000]  
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

```