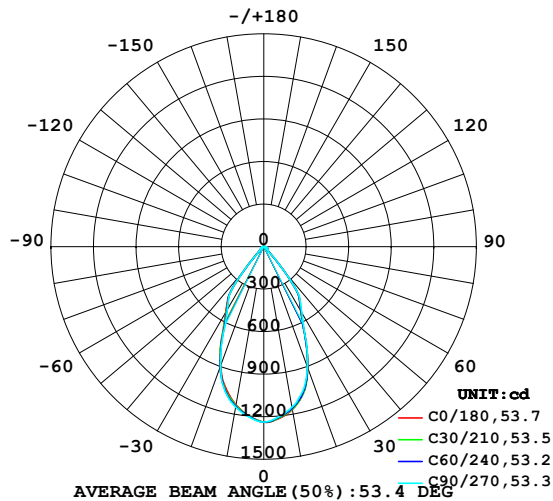


## LUMINAIRE PHOTOMETRIC TEST REPORT

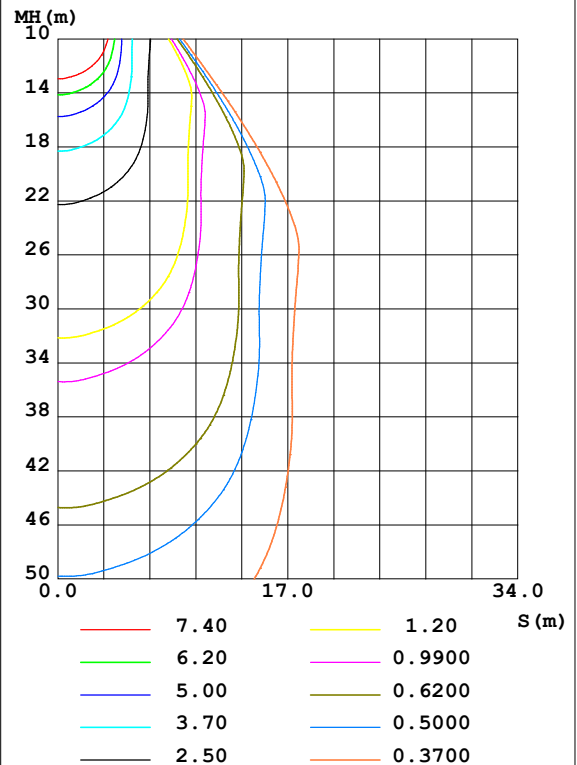
NAME: RAD35R-15-CCT-UNV-50C-WT	TYPE:3000K CRI90	WEIGHT:
SPEC.:50D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 74.53 lm/W
MODEL		I <sub>max</sub> (cd)	1239	S/MH (C0/180)		0.84
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH (C90/270)		0.84
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1090.7	η UP, DN (C0-180)		0.0, 50.3
NOMINAL FLUX(lm)	1090.74	CIE CLASS	DIRECT	η UP, DN (C180-360)		0.0, 49.7
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		0.75
TEST VOLTAGE (V)	120	η down (%)	100.0	CIBSE SHR MAX		0.95

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: 2025-06-06

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	1166	1163	1150	1138	1133	1138	1149	1158	0- 10	113.4	113.4	10.4,10.4
20	907.2	912.0	902.7	897.6	895.2	893.4	894.4	895.7	10- 20	292.7	406.1	37.2,37.2
30	522.2	528.6	537.6	547.9	540.8	523.4	515.2	515.7	20- 30	317.6	723.7	66.4,66.4
40	218.8	224.2	219.9	227.7	219.5	203.7	208.5	206.3	30- 40	254.7	978.4	89.7,89.7
50	30.72	30.28	30.61	31.39	31.11	30.71	31.12	30.93	40- 50	54.90	1033	94.7,94.7
60	23.12	22.81	22.67	22.93	23.13	23.23	23.40	23.40	50- 60	23.54	1057	96.9,96.9
70	17.68	17.50	17.26	17.53	17.77	17.92	18.12	17.93	60- 70	20.47	1077	98.8,98.8
80	4.111	4.095	3.900	4.045	4.049	4.021	4.147	4.059	70- 80	12.23	1090	99.9,99.9
90	0.1439	0.1411	0.1442	0.1385	0.2073	0.2074	0.2077	0.2049	80- 90	1.213	1091	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): 1018.3 lm

%lum = 93.4%

%lamp = 93.4%

Conical surface Flux(120deg): 1056.8 lm

%lum = 96.9%

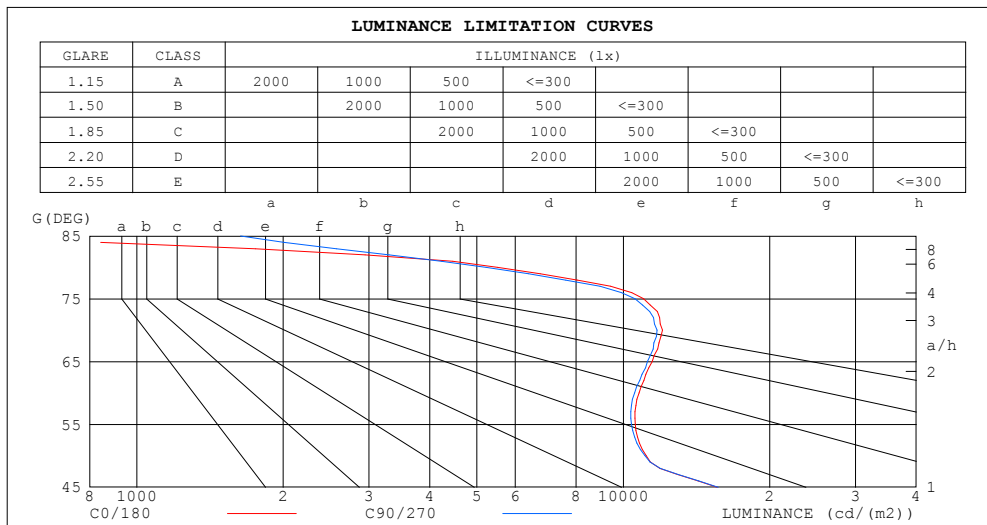
%lamp = 96.9%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-06-06

$\gamma$  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: RAD35R-15-CCT-UNV-50C-WT	TYPE:3000K CRI90	WEIGHT:
SPEC.:50D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	567	1633
80	5518	5223
75	11008	10572
70	12044	11736
65	11471	11207
60	10778	10545
55	10579	10400
50	11136	11075
45	15590	15667

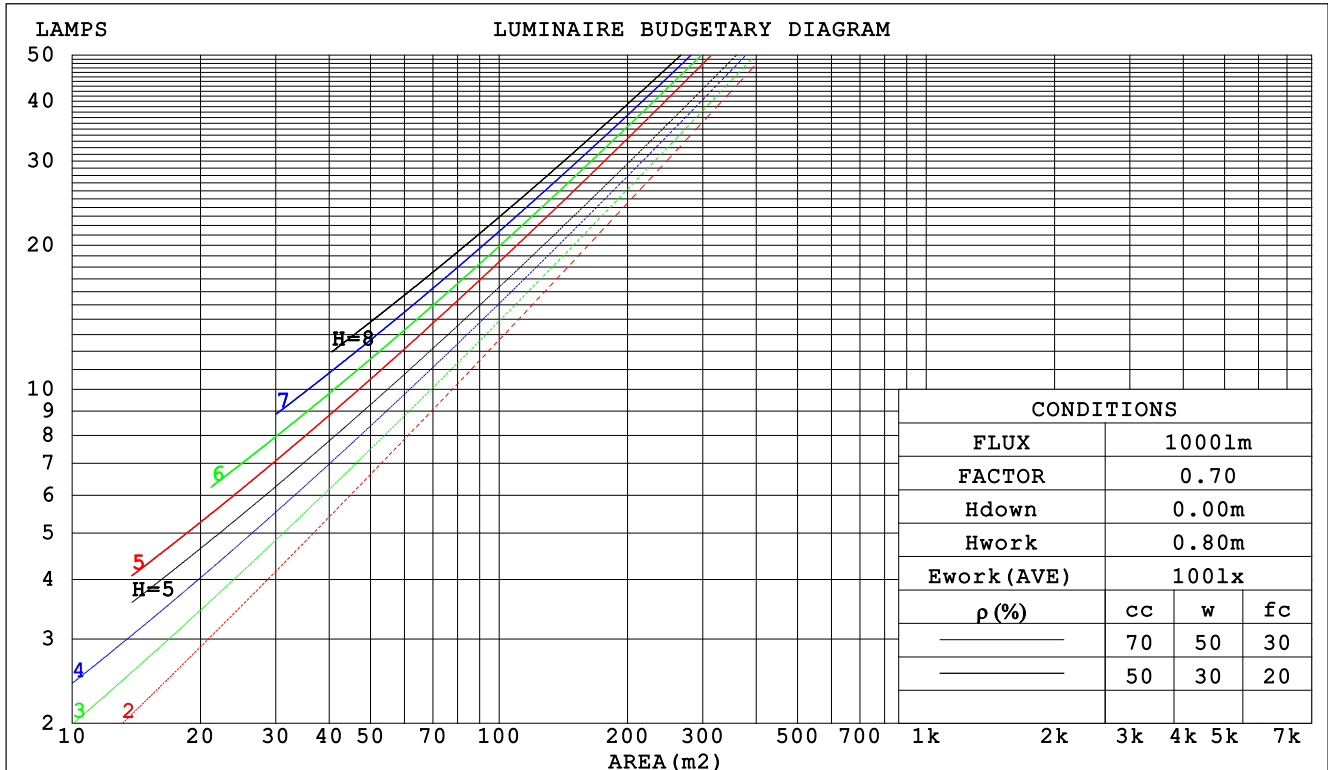
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2025-06-06

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: RAD35R-15-CCT-UNV-50C-WT	TYPE:3000K CRI90	WEIGHT:
SPEC.:50D	DIM.:	SERIAL No.:1
MFR.:	SUR.:#74MM	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	1.10	1.07	1.05	1.08	1.06	1.03	1.04	1.02	1.00	1.00	.99	.97	.97	.96	.94	.93
2.0	1.02	.98	.94	1.00	.96	.93	.97	.94	.91	.94	.91	.89	.91	.89	.87	.85
3.0	.95	.89	.85	.93	.88	.84	.90	.86	.83	.88	.85	.82	.86	.83	.80	.79
4.0	.88	.82	.78	.87	.81	.77	.85	.80	.76	.83	.79	.75	.81	.77	.75	.73
5.0	.82	.76	.72	.81	.76	.71	.79	.74	.71	.78	.73	.70	.76	.72	.69	.68
6.0	.77	.71	.66	.76	.70	.66	.75	.69	.66	.73	.69	.65	.72	.68	.65	.63
7.0	.72	.66	.62	.72	.66	.61	.70	.65	.61	.69	.64	.61	.68	.64	.60	.59
8.0	.68	.62	.58	.67	.62	.57	.66	.61	.57	.65	.60	.57	.64	.60	.57	.55
9.0	.64	.58	.54	.64	.58	.54	.63	.57	.54	.62	.57	.53	.61	.57	.53	.52
10.0	.61	.55	.51	.60	.54	.51	.59	.54	.50	.59	.54	.50	.58	.53	.50	.49



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2025-06-06

$\gamma$  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: RAD35R-15-CCT-UNV-50C-WT	TYPE:3000K CRI90	WEIGHT:
SPEC.:50D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	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	.190	.108	.034	.184	.105	.033	.171	.098	.031	.159	.092	.029	.149	.086	.028		
2.0	.182	.100	.031	.176	.097	.030	.166	.092	.029	.156	.087	.027	.147	.083	.026		
3.0	.173	.092	.028	.168	.090	.027	.159	.086	.026	.150	.082	.025	.142	.079	.024		
4.0	.164	.085	.025	.159	.083	.025	.151	.080	.024	.144	.077	.023	.137	.075	.023		
5.0	.155	.079	.023	.152	.078	.023	.145	.075	.022	.138	.073	.022	.132	.071	.021		
6.0	.148	.074	.021	.144	.073	.021	.138	.071	.021	.133	.069	.020	.127	.067	.020		
7.0	.141	.069	.020	.138	.069	.020	.132	.067	.019	.127	.065	.019	.122	.064	.019		
8.0	.134	.066	.018	.132	.065	.018	.127	.063	.018	.122	.062	.018	.118	.061	.018		
9.0	.128	.062	.017	.126	.061	.017	.122	.060	.017	.117	.059	.017	.114	.058	.017		
10.0	.123	.059	.016	.121	.058	.016	.117	.057	.016	.113	.056	.016	.109	.055	.016		

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	.172	.157	.144	.147	.135	.124	.101	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.158	.132	.111	.135	.114	.096	.093	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.146	.114	.088	.125	.098	.076	.086	.068	.054	.050	.040	.032	.016	.013	.010	
4.0	.136	.099	.071	.116	.086	.062	.080	.060	.043	.046	.035	.026	.015	.011	.008	
5.0	.127	.088	.058	.109	.076	.051	.075	.053	.036	.044	.031	.021	.014	.010	.007	
6.0	.120	.078	.049	.103	.068	.042	.071	.048	.030	.041	.028	.018	.013	.009	.006	
7.0	.113	.071	.041	.098	.061	.036	.067	.043	.025	.039	.025	.015	.013	.008	.005	
8.0	.108	.065	.035	.093	.056	.031	.064	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.103	.060	.031	.088	.052	.027	.061	.036	.019	.036	.021	.011	.012	.007	.004	
10.0	.098	.055	.027	.084	.048	.023	.059	.034	.017	.034	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2025-06-06

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: RAD35R-15-CCT-UNV-50C-WT					TYPE:3000K CRI90					WEIGHT:				
SPEC.:50D					DIM.:					SERIAL No.:1				
MFR.:					SUR.:Φ74MM					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					20.3	21.3	20.6	21.5	21.7	20.3	21.3	20.6	21.5	21.7
3H					20.6	21.6	20.9	21.8	22.0	20.6	21.6	20.9	21.8	22.0
4H					20.8	21.7	21.1	21.9	22.2	20.8	21.7	21.1	21.9	22.1
6H					20.9	21.7	21.2	21.9	22.2	20.8	21.7	21.1	21.9	22.2
8H					20.8	21.6	21.2	21.9	22.1	20.8	21.6	21.1	21.9	22.1
12H					20.8	21.5	21.1	21.8	22.1	20.8	21.5	21.1	21.8	22.1
4H 2H					20.3	21.1	20.5	21.4	21.6	20.3	21.2	20.6	21.4	21.6
3H					20.8	21.5	21.1	21.8	22.1	20.8	21.5	21.1	21.8	22.1
4H					21.1	21.7	21.4	22.0	22.4	21.0	21.7	21.4	22.0	22.3
6H					21.2	21.8	21.5	22.1	22.4	21.1	21.7	21.5	22.0	22.4
8H					21.1	21.7	21.5	22.0	22.4	21.1	21.6	21.5	22.0	22.4
12H					21.1	21.6	21.5	22.0	22.3	21.0	21.5	21.4	21.9	22.3
8H 4H					21.1	21.7	21.5	22.0	22.4	21.1	21.6	21.5	22.0	22.3
6H					21.2	21.7	21.6	22.1	22.5	21.2	21.6	21.6	22.0	22.4
8H					21.2	21.6	21.6	22.0	22.4	21.1	21.5	21.6	22.0	22.4
12H					21.1	21.5	21.6	21.9	22.4	21.1	21.4	21.6	21.9	22.4
12H 4H					21.1	21.6	21.5	21.9	22.3	21.0	21.5	21.4	21.9	22.3
6H					21.2	21.6	21.6	22.0	22.4	21.1	21.5	21.6	22.0	22.4
8H					21.1	21.5	21.6	21.9	22.4	21.1	21.5	21.6	21.9	22.4
Variations with the observer position at spacings:														
S = 1.0H					+ 2.5 / - 3.2					+ 2.6 / - 3.3				
1.5H					+ 4.8 / - 3.1					+ 4.9 / - 3.3				
2.0H					+ 0.6 / - 0.3					+ 0.6 / - 0.4				

CIE Pub.117, 1091 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 0.3$ )

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-06-06

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:

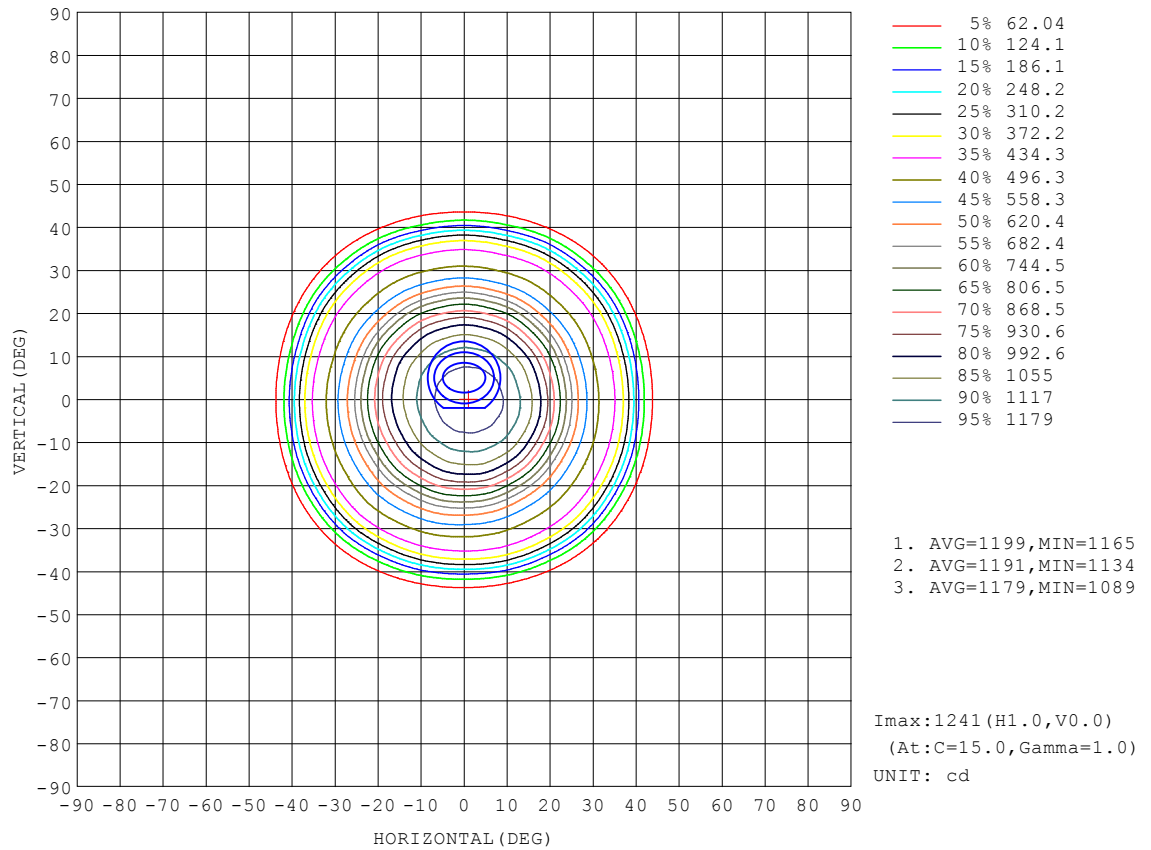
```

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: RAD35R-15-CCT-UNV-50C-WT	TYPE:3000K CRI90	WEIGHT:
SPEC.:50D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:



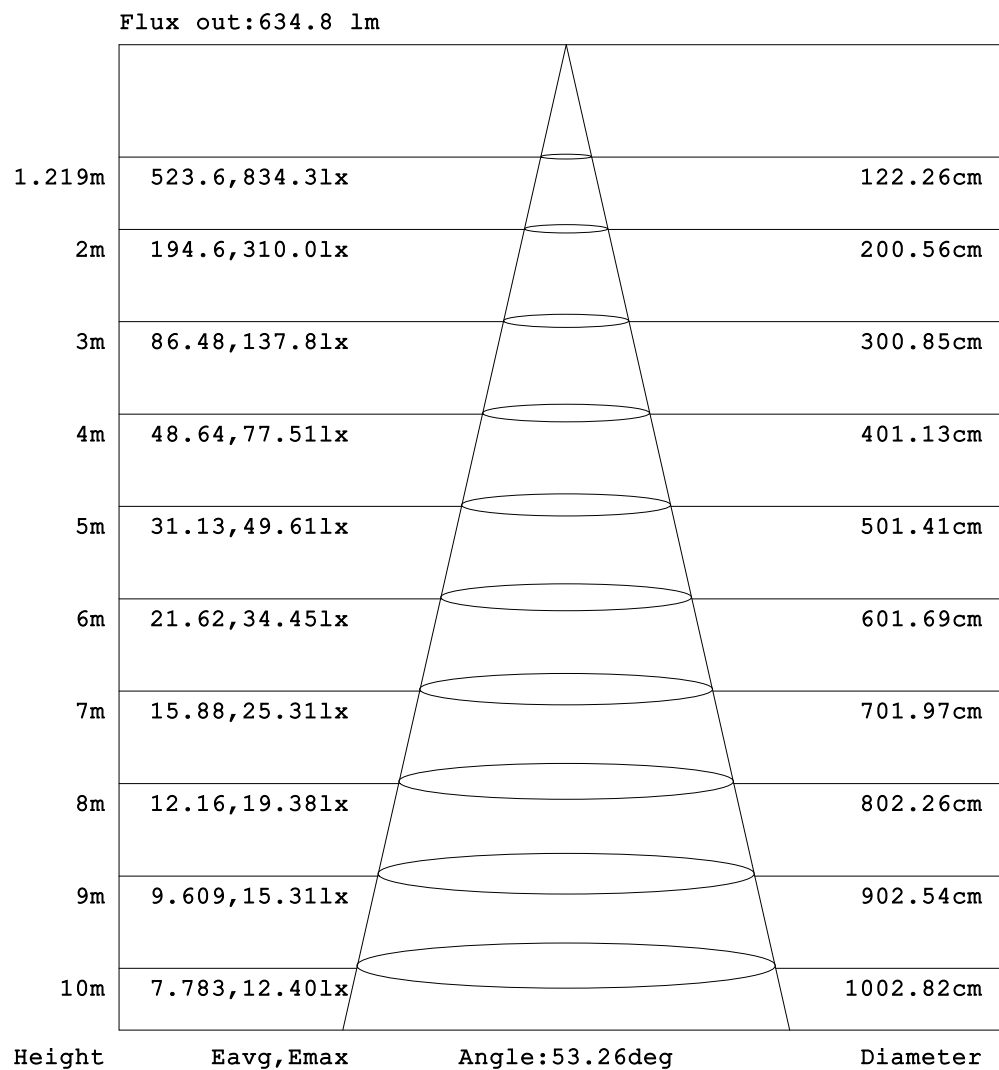
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2025-06-06

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: RAD35R-15-CCT-UNV-50C-WT	TYPE:3000K CRI90	WEIGHT:
SPEC.:50D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:



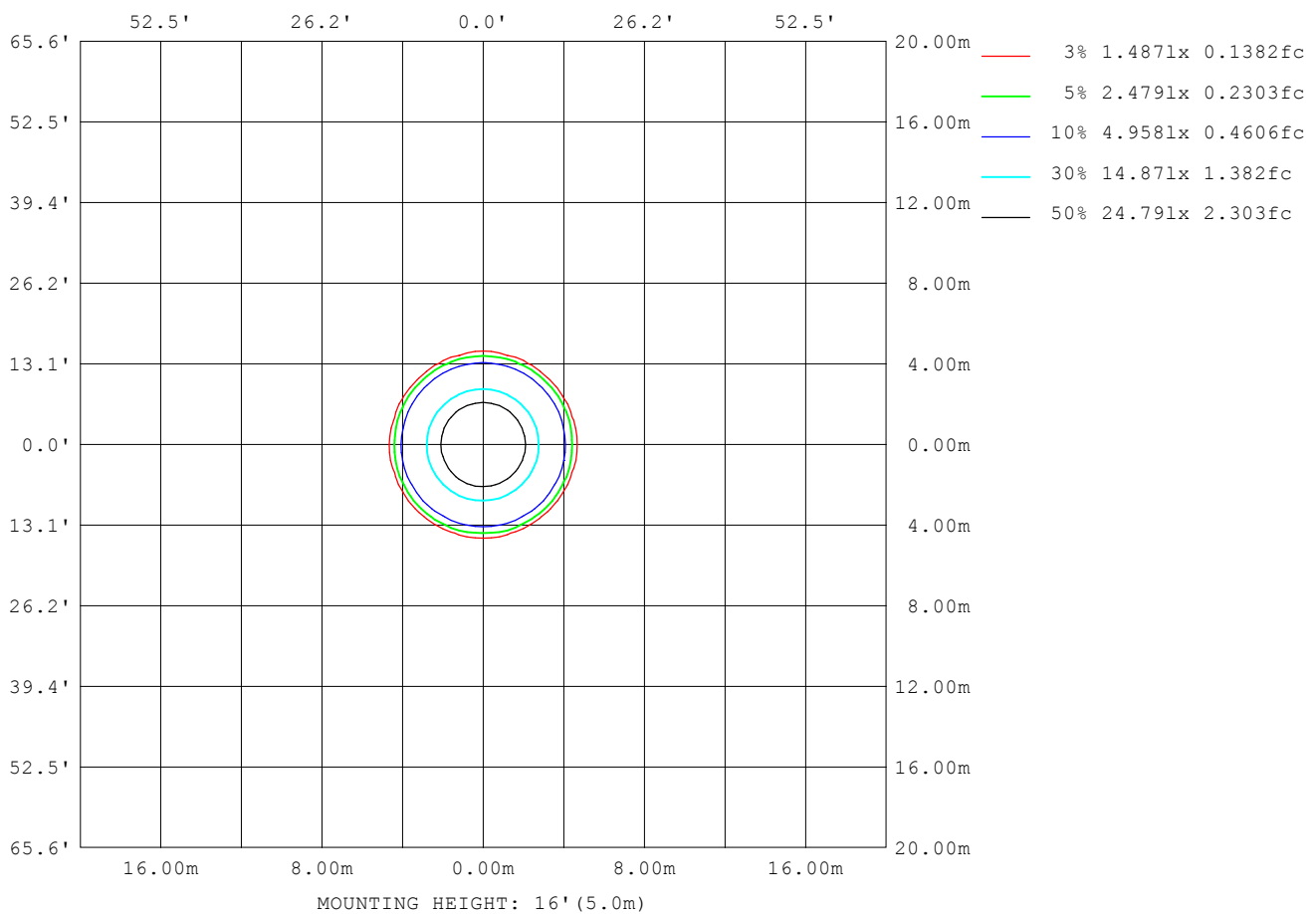
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-06-06

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: RAD35R-15-CCT-UNV-50C-WT	TYPE:3000K CRI90	WEIGHT:
SPEC.:50D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2025-06-06

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: RAD35R-15-CCT-UNV-50C-WT	TYPE:3000K CRI90	WEIGHT:
SPEC.:50D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:

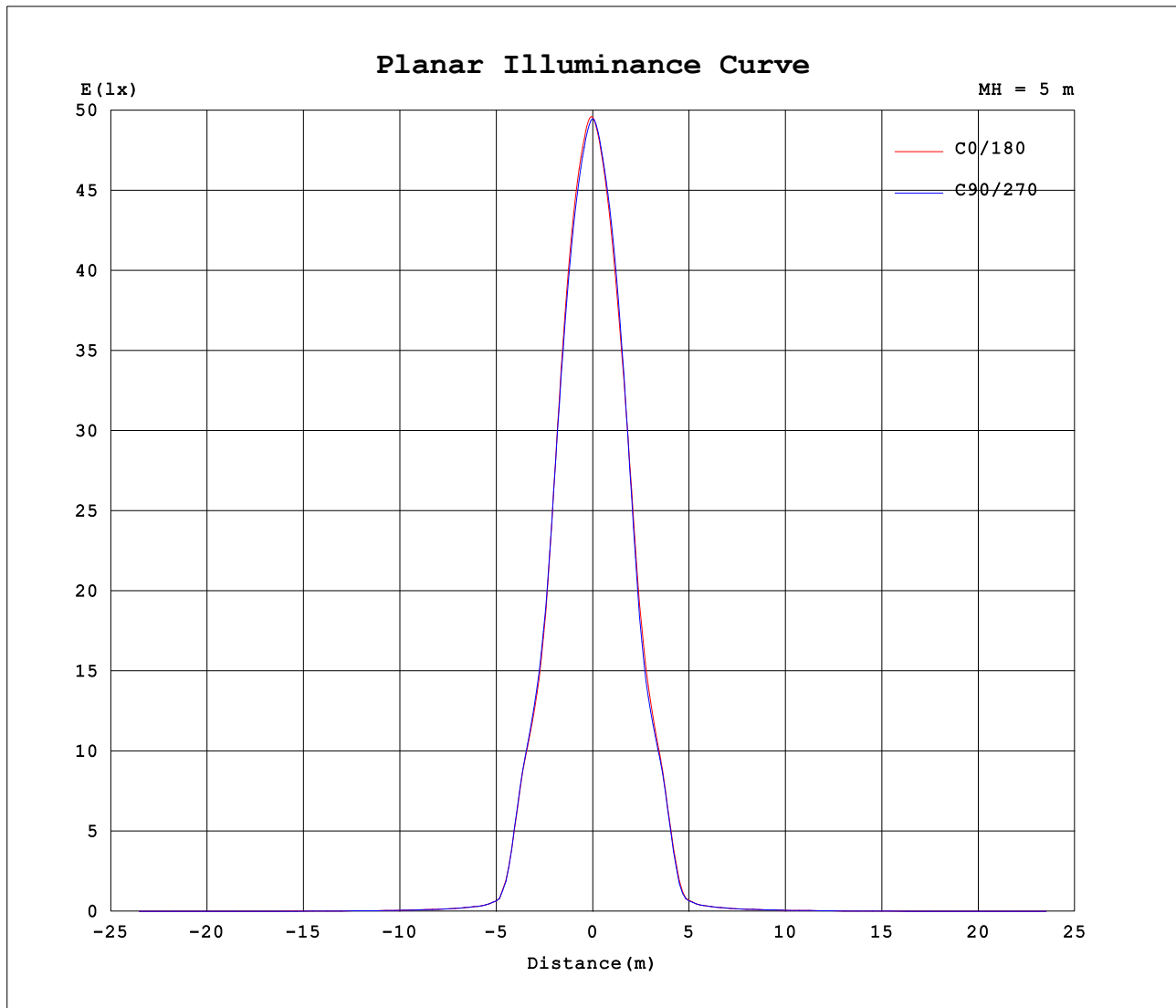
AvgL	cd/m2
L_0~180 (65) av	11452
L_0~180 (75) av	11011
L_0~180 (85) av	923
L_90~270 (65) av	11436
L_90~270 (75) av	10930
L_90~270 (85) av	1711
L_45 (65) av	11457
L_45 (75) av	10966
L_45 (85) av	1715

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2025-06-06

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: 2025-06-06

$\gamma$  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:

```