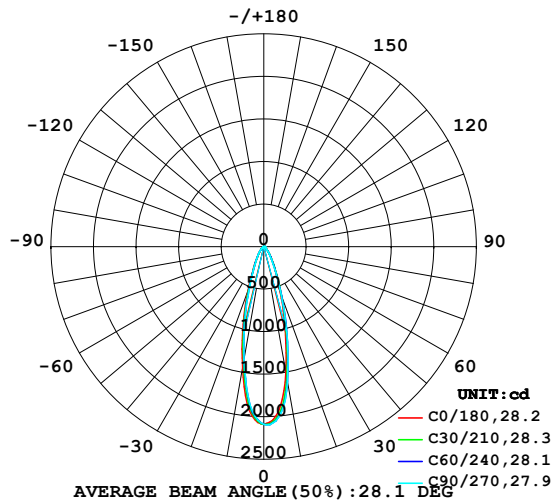


## LUMINAIRE PHOTOMETRIC TEST REPORT

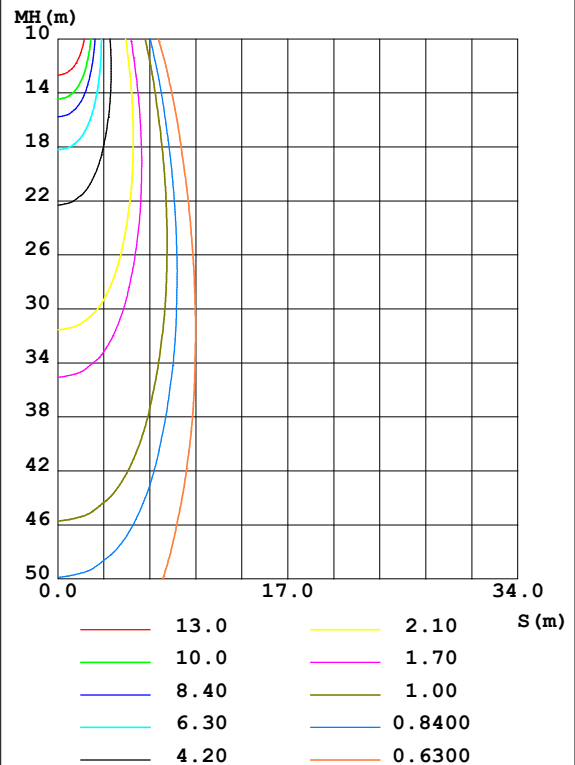
NAME:	TYPE:CRI90 3500K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 87.03 lm/W
MODEL		Imax(cd)	2101	S/MH(C0/180)	0.47	
NOMINAL POWER(W)	9	LOR(%)	100.0	S/MH(C90/270)	0.43	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	735.07	η UP,DN(C0-180)	0.0,52.9	
NOMINAL FLUX(lm)	735.074	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,47.1	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	0.50	

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: 2024-10-11

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	1501	1597	1609	1545	1445	1359	1346	1396	0- 10	170.1	170.1	23.1,23.1
20	582.2	629.1	608.1	574.2	533.0	492.6	482.0	514.5	10- 20	261.9	432.0	58.8,58.8
30	215.1	221.7	201.6	184.7	178.8	174.5	174.6	189.5	20- 30	150.0	582.1	79.2,79.2
40	87.95	91.41	84.09	76.80	75.37	73.11	71.85	77.44	30- 40	78.88	660.9	89.9,89.9
50	32.35	35.26	34.53	33.09	31.74	29.51	28.03	28.96	40- 50	39.86	700.8	95.3,95.3
60	13.46	14.64	15.38	15.28	14.54	13.28	12.41	12.62	50- 60	18.96	719.8	97.9,97.9
70	5.785	6.387	6.649	6.679	6.306	5.767	5.512	5.469	60- 70	9.268	729.0	99.2,99.2
80	2.639	2.971	3.150	3.116	2.904	2.580	2.430	2.435	70- 80	4.672	733.7	99.8,99.8
90	0.0495	0.0468	0.0964	0.0496	0.1018	0.0991	0.1129	0.0964	80- 90	1.382	735.1	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): 684.57 lm

%lum = 93.1%

%lamp = 93.1%

Conical surface Flux(120deg): 719.75 lm

%lum = 97.9%

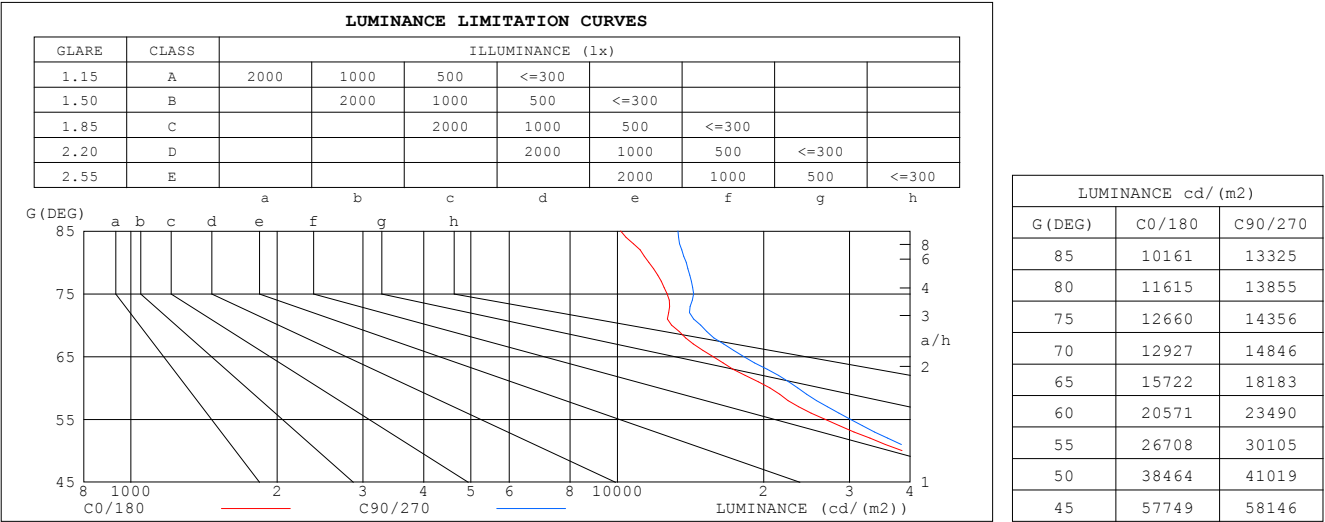
%lamp = 97.9%

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-10-11

$\gamma$  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 3500K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:



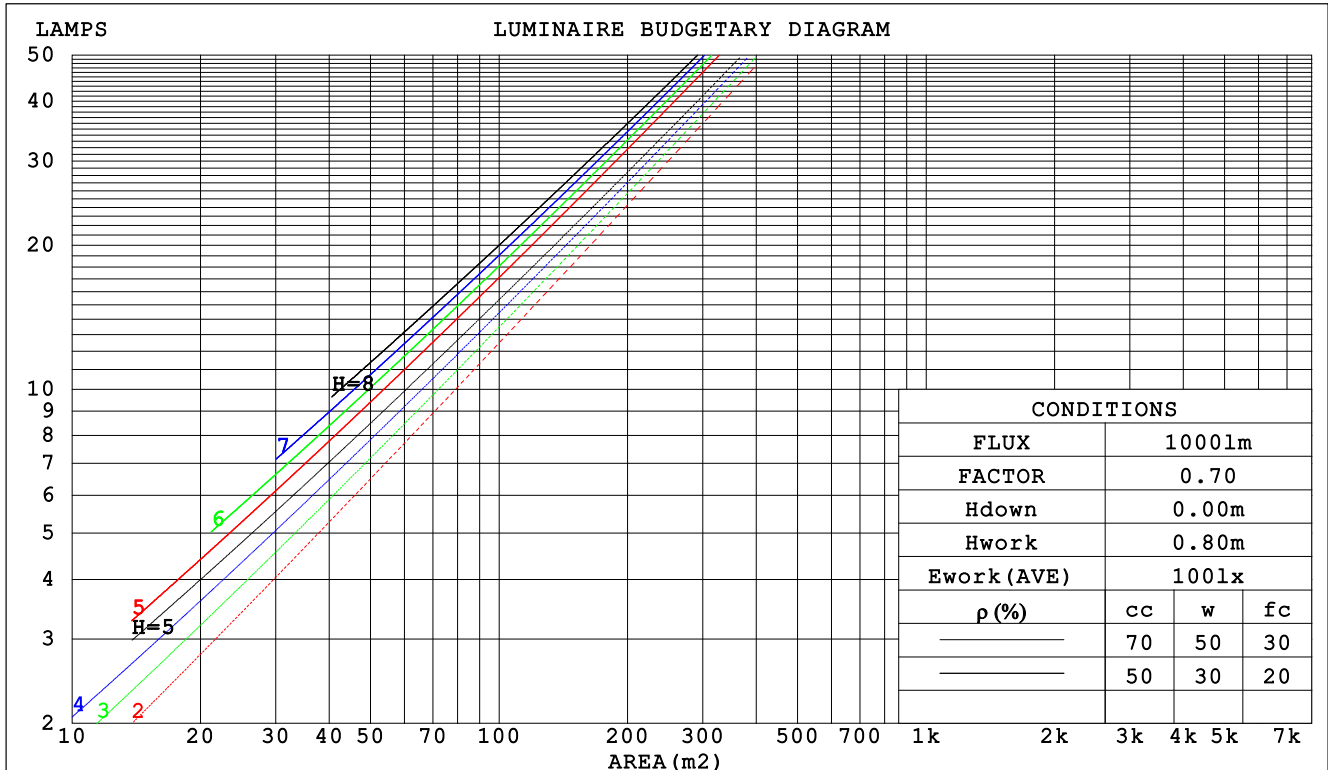
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-10-11

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 3500K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	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	.00
1.0	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96	.94
2.0	1.04	1.01	.97	1.03	.99	.96	.99	.97	.94	.96	.94	.92	.94	.92	.90	.89
3.0	.98	.94	.90	.97	.93	.89	.94	.91	.88	.92	.89	.86	.90	.87	.85	.84
4.0	.93	.88	.84	.92	.87	.83	.90	.86	.82	.88	.84	.82	.86	.83	.81	.79
5.0	.88	.83	.79	.87	.82	.79	.85	.81	.78	.84	.80	.77	.82	.79	.77	.75
6.0	.84	.78	.75	.83	.78	.74	.81	.77	.74	.80	.76	.73	.79	.76	.73	.72
7.0	.80	.75	.71	.79	.74	.71	.78	.74	.70	.77	.73	.70	.76	.72	.70	.68
8.0	.76	.71	.68	.76	.71	.67	.75	.70	.67	.74	.70	.67	.73	.69	.67	.65
9.0	.73	.68	.65	.73	.68	.64	.72	.67	.64	.71	.67	.64	.70	.67	.64	.63
10.0	.70	.65	.62	.70	.65	.62	.69	.65	.62	.68	.64	.62	.68	.64	.61	.60



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-10-11

$\gamma$  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 3500K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	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	.169 .096 .030	.162 .092 .029	.149 .086 .027	.138 .079 .025	.127 .074 .024	
2.0	.159 .087 .027	.153 .085 .026	.143 .079 .025	.133 .075 .023	.124 .070 .022	
3.0	.150 .080 .024	.145 .078 .023	.136 .074 .022	.128 .070 .021	.120 .066 .021	
4.0	.141 .073 .022	.137 .072 .021	.129 .069 .020	.122 .066 .020	.116 .063 .019	
5.0	.133 .068 .020	.130 .067 .019	.123 .064 .019	.117 .062 .018	.111 .059 .018	
6.0	.126 .063 .018	.123 .062 .018	.117 .060 .017	.112 .058 .017	.107 .056 .017	
7.0	.120 .059 .017	.117 .058 .017	.112 .057 .016	.107 .055 .016	.103 .053 .016	
8.0	.114 .056 .016	.111 .055 .016	.107 .053 .015	.103 .052 .015	.099 .051 .015	
9.0	.109 .053 .015	.106 .052 .015	.103 .051 .014	.099 .050 .014	.095 .048 .014	
10.0	.104 .050 .014	.102 .049 .014	.098 .048 .014	.095 .047 .013	.092 .046 .013	

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 .146	.146 .135 .125	.100 .093 .087	.057 .054 .050	.018 .017 .016	
2.0	.155 .133 .114	.132 .114 .099	.091 .079 .069	.052 .046 .040	.017 .015 .013	
3.0	.141 .113 .091	.121 .098 .079	.083 .068 .056	.048 .040 .033	.015 .013 .011	
4.0	.130 .099 .074	.112 .085 .065	.077 .059 .046	.044 .035 .027	.014 .011 .009	
5.0	.121 .087 .062	.104 .075 .054	.071 .052 .038	.041 .031 .022	.013 .010 .007	
6.0	.113 .077 .052	.097 .067 .045	.067 .047 .032	.039 .028 .019	.012 .009 .006	
7.0	.106 .069 .044	.091 .060 .038	.063 .042 .027	.036 .025 .016	.012 .008 .005	
8.0	.099 .063 .038	.085 .055 .033	.059 .038 .023	.034 .023 .014	.011 .007 .005	
9.0	.094 .057 .033	.081 .050 .029	.056 .035 .020	.033 .021 .012	.011 .007 .004	
10.0	.089 .053 .029	.077 .046 .025	.053 .032 .018	.031 .019 .011	.010 .006 .004	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-10-11

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 3500K			WEIGHT:			
SPEC.:RAD25R-09-CCT					DIM.:			SERIAL No.:1			
MFR.:					SUR.: $\phi$ 41MM			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	2H	22.2	23.0	22.4	23.2	23.3	22.1	23.0	22.3	23.1	23.3
	3H	22.3	23.1	22.5	23.3	23.5	22.3	23.1	22.6	23.3	23.5
	4H	22.4	23.1	22.6	23.3	23.5	22.4	23.2	22.7	23.4	23.6
	6H	22.4	23.1	22.7	23.4	23.6	22.5	23.2	22.8	23.5	23.7
	8H	22.4	23.1	22.7	23.4	23.6	22.5	23.2	22.9	23.5	23.7
	12H	22.4	23.1	22.7	23.3	23.6	22.6	23.2	22.9	23.5	23.8
4H	2H	22.2	22.9	22.4	23.1	23.3	22.1	22.9	22.4	23.1	23.3
	3H	22.4	23.0	22.7	23.3	23.6	22.4	23.1	22.7	23.3	23.6
	4H	22.5	23.1	22.9	23.4	23.7	22.6	23.2	22.9	23.5	23.8
	6H	22.6	23.2	23.0	23.5	23.8	22.8	23.3	23.1	23.6	24.0
	8H	22.7	23.2	23.1	23.5	23.9	22.8	23.3	23.2	23.7	24.0
	12H	22.7	23.1	23.1	23.5	23.9	22.9	23.3	23.3	23.7	24.1
8H	4H	22.5	23.0	22.9	23.4	23.7	22.6	23.1	23.0	23.4	23.8
	6H	22.7	23.1	23.1	23.5	23.9	22.8	23.2	23.3	23.6	24.1
	8H	22.8	23.2	23.2	23.6	24.0	23.0	23.3	23.4	23.7	24.2
	12H	22.8	23.2	23.3	23.6	24.1	23.1	23.4	23.5	23.8	24.3
12H	4H	22.5	22.9	22.9	23.3	23.7	22.6	23.0	23.0	23.4	23.8
	6H	22.7	23.1	23.2	23.5	23.9	22.8	23.2	23.3	23.6	24.0
	8H	22.8	23.1	23.3	23.6	24.0	23.0	23.3	23.4	23.7	24.2
Variations with the observer position at spacings:											
S = 1.0H		+ 1.4 / - 2.2					+ 1.2 / - 1.8				
1.5H		+ 2.2 / - 1.8					+ 1.8 / - 1.5				
2.0H		+ 2.6 / - 1.7					+ 2.3 / - 1.5				

CIE Pub.117, 735.1 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.1)

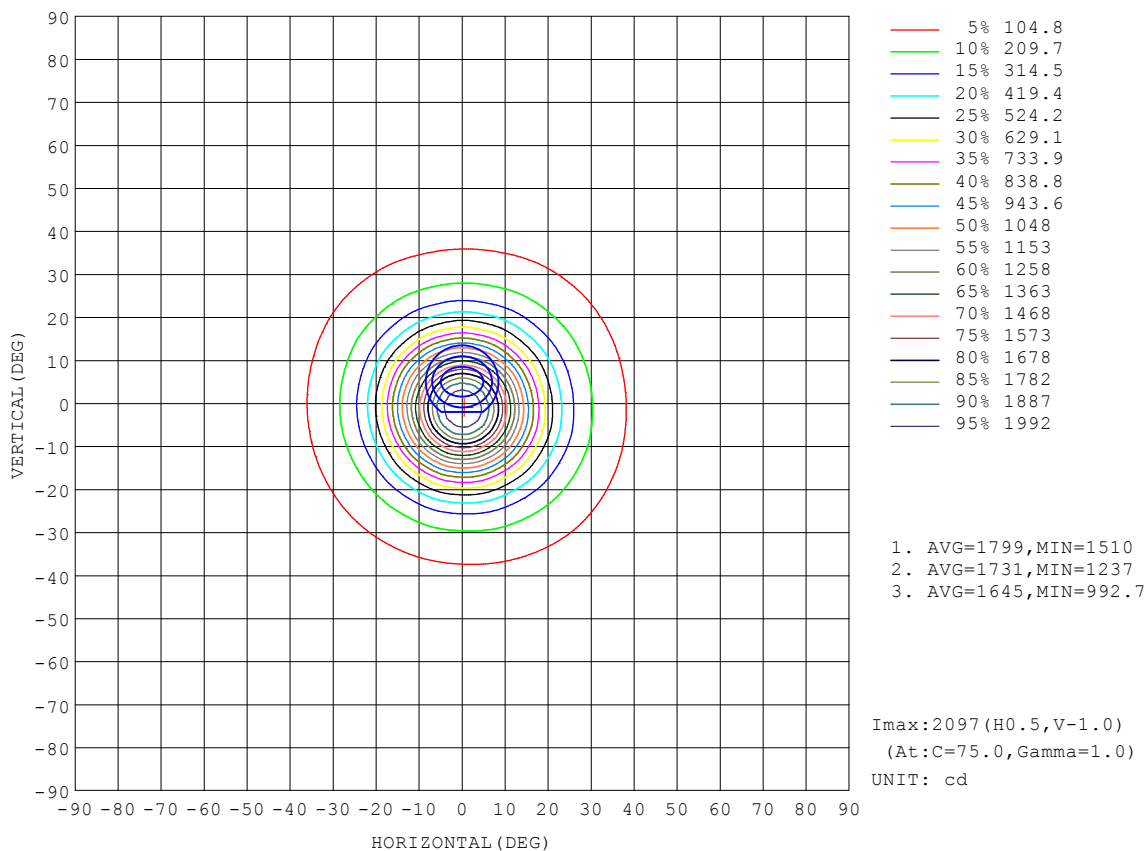
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-10-11

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:



## ISOCANDELA DIAGRAM

NAME:	TYPE:CRI90 3500K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:

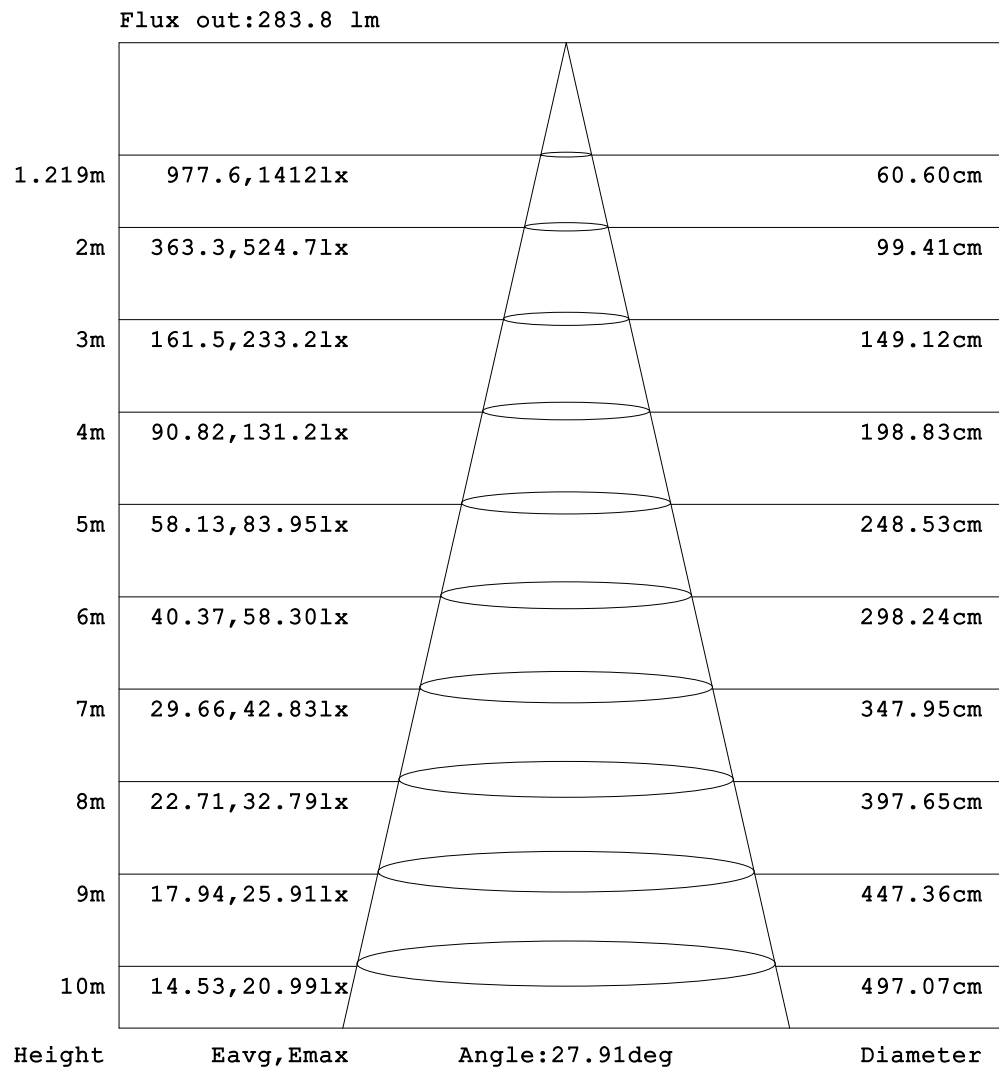


C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-10-11

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 3500K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:



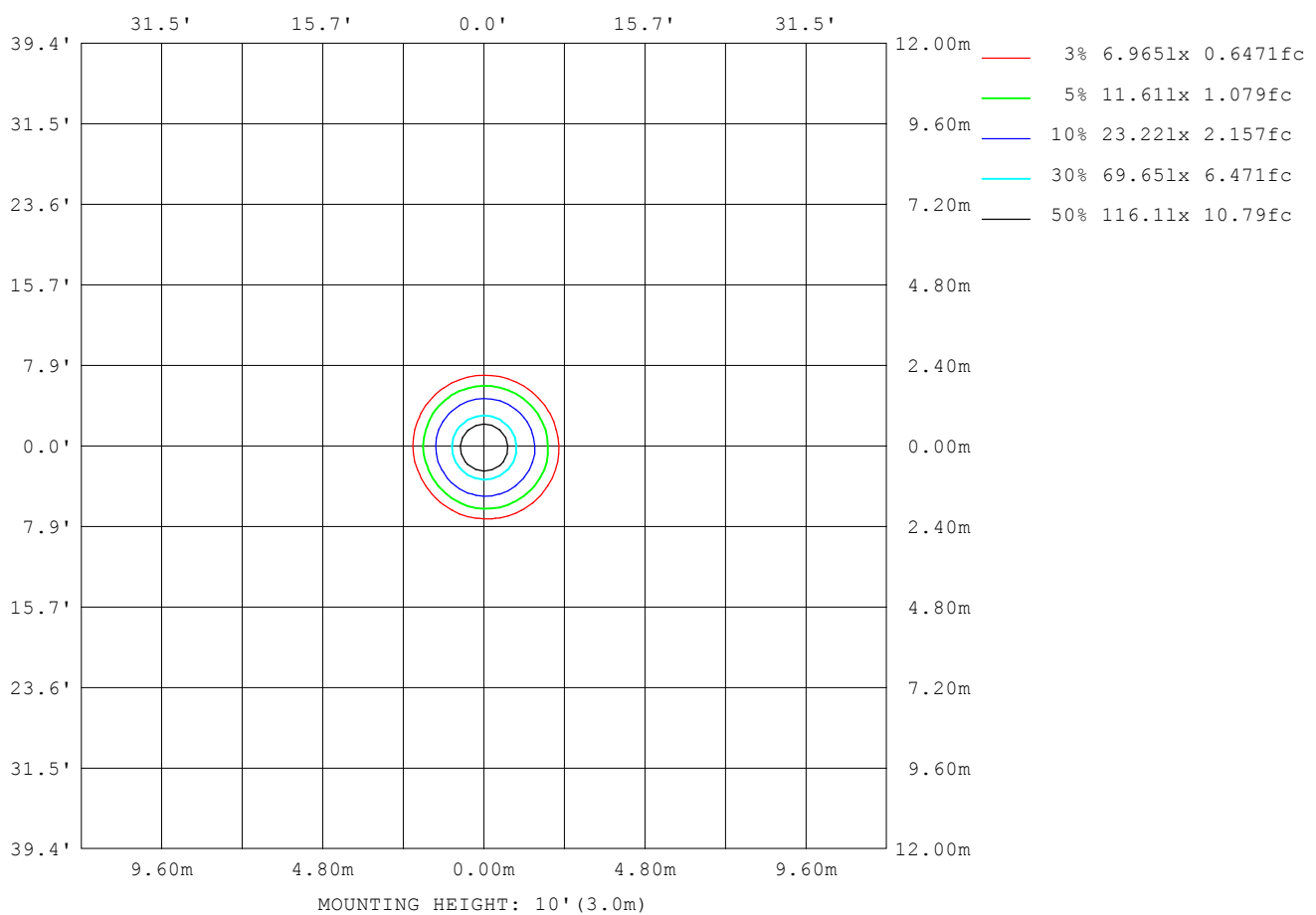
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-10-11

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 3500K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-10-11

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 3500K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:

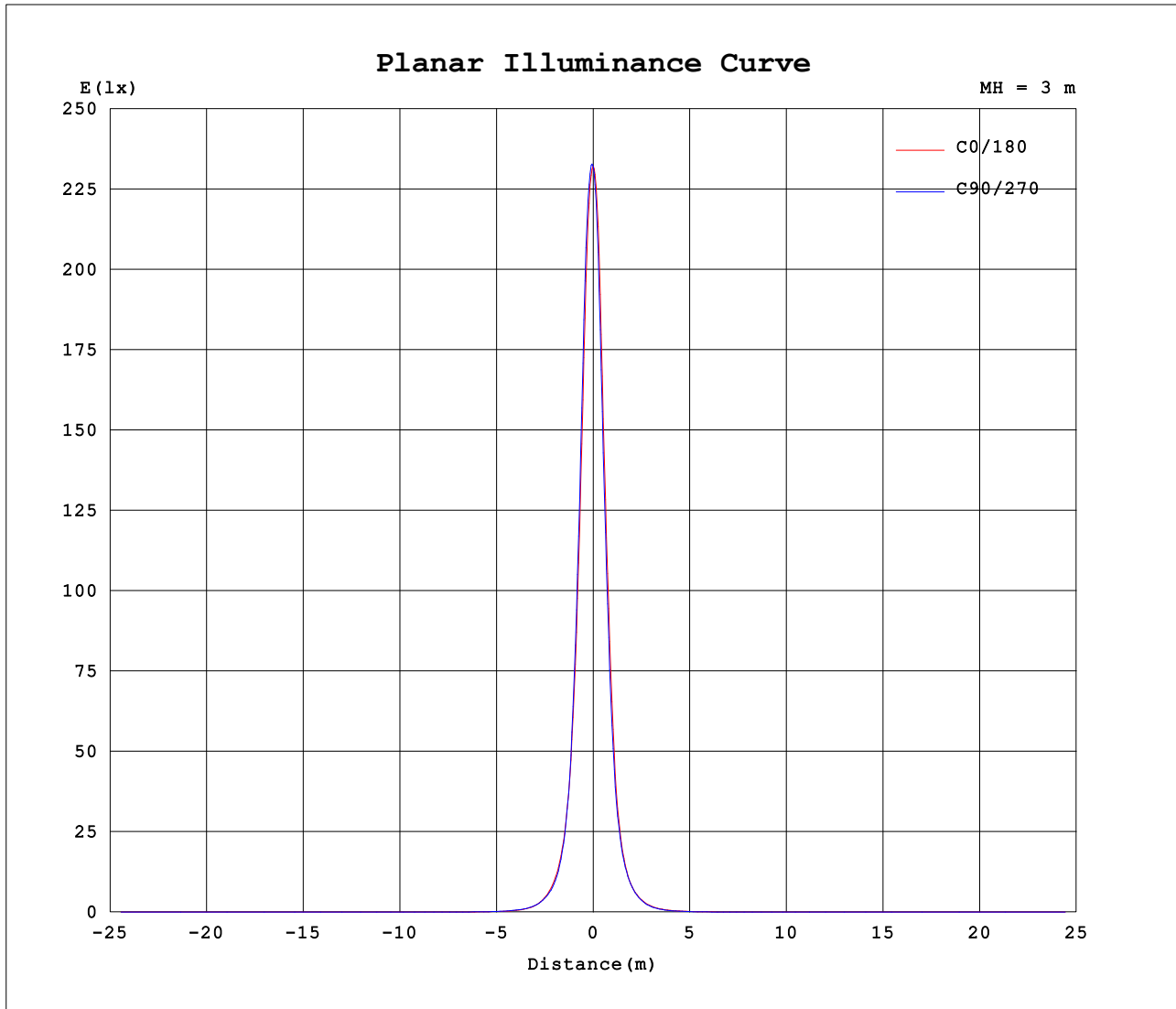
AvgL	cd/m2
L_0~180 (65) av	16420
L_0~180 (75) av	13202
L_0~180 (85) av	10660
L_90~270 (65) av	16283
L_90~270 (75) av	13179
L_90~270 (85) av	10815
L_45 (65) av	16289
L_45 (75) av	13194
L_45 (85) av	10693

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-10-11

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: 2024-10-11

$\gamma$  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:



