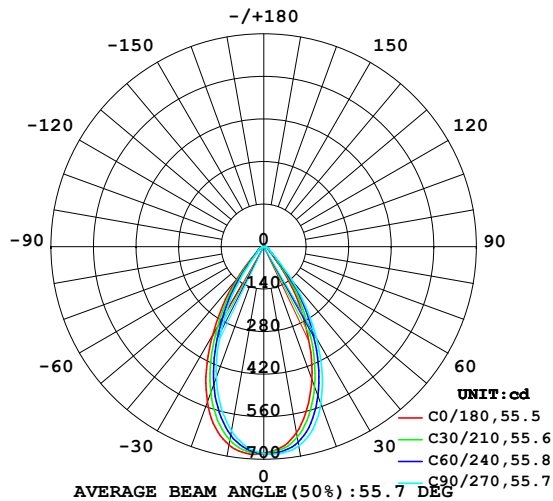


## LUMINAIRE PHOTOMETRIC TEST REPORT

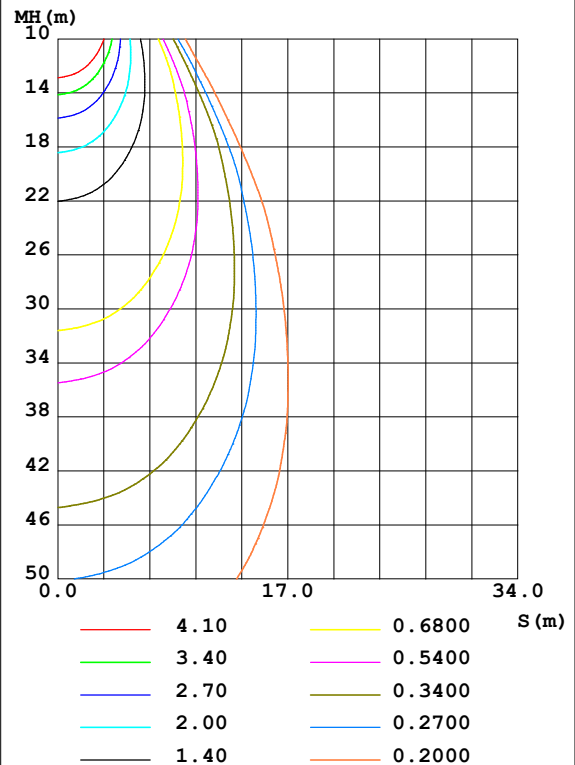
NAME:	TYPE:CRI90 2700K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 71.23 lm/W
MODEL		Imax(cd)	687.4	S/MH(C0/180)	0.90	
NOMINAL POWER(W)	9	LOR(%)	100.0	S/MH(C90/270)	0.80	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	622.08	η UP,DN(C0-180)	0.0,53.9	
NOMINAL FLUX(lm)	622.078	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,46.1	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	0.90	

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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	621.5	645.2	665.7	674.4	661.7	635.3	614.9	609.1	0- 10	63.19	63.19	10.2,10.2
20	463.1	507.6	550.2	569.9	543.3	493.4	457.9	444.2	10- 20	162.4	225.6	36.3,36.3
30	253.2	304.3	345.4	364.3	338.6	286.5	246.9	231.5	20- 30	183.2	408.8	65.7,65.7
40	82.25	115.4	145.2	154.8	135.4	101.4	75.87	69.27	30- 40	123.0	531.8	85.5,85.5
50	28.81	34.08	38.96	40.45	36.19	30.42	27.37	26.70	40- 50	46.17	578.0	92.9,92.9
60	16.96	19.74	20.99	21.16	19.97	17.44	15.94	15.52	50- 60	21.91	599.9	96.4,96.4
70	8.211	9.467	10.43	10.49	9.700	8.360	7.838	7.810	60- 70	13.12	613.0	98.5,98.5
80	3.494	4.535	5.303	5.384	4.831	3.811	3.161	3.004	70- 80	6.977	620.0	99.7,99.7
90	0.0552	0.0523	0.5749	0.6611	0.2510	0.0964	0.0963	0.0937	80- 90	2.114	622.1	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): 560.97 lm

%lum = 90.2%

%lamp = 90.2%

Conical surface Flux(120deg): 599.87 lm

%lum = 96.4%

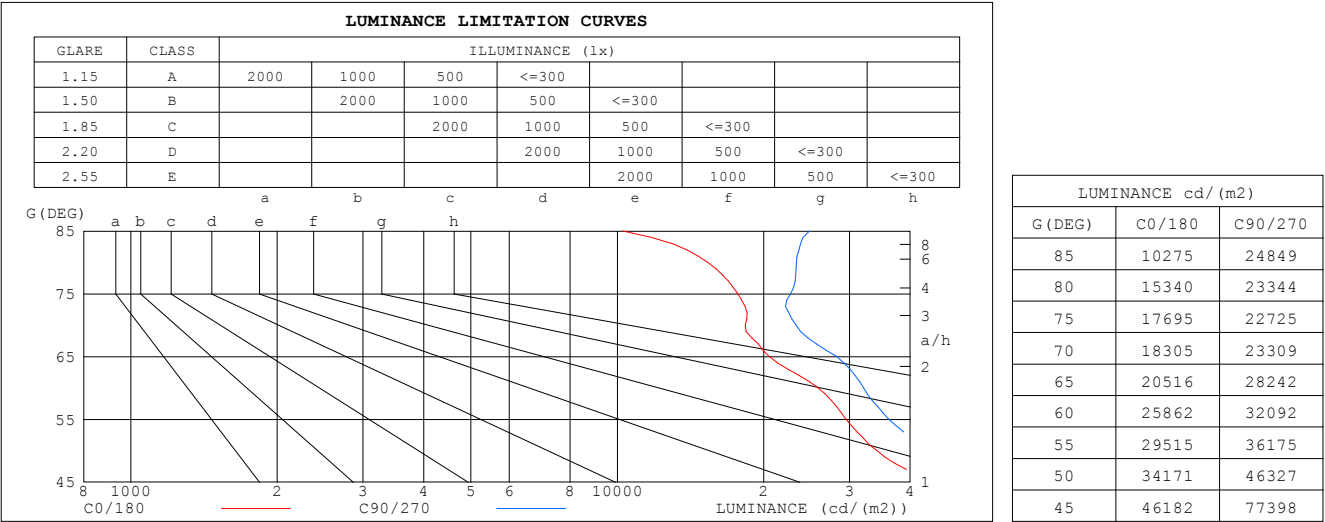
%lamp = 96.4%

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:

LUMINANCE LIMITATION CURVES

NAME:	TYPE:CRI90 2700K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:



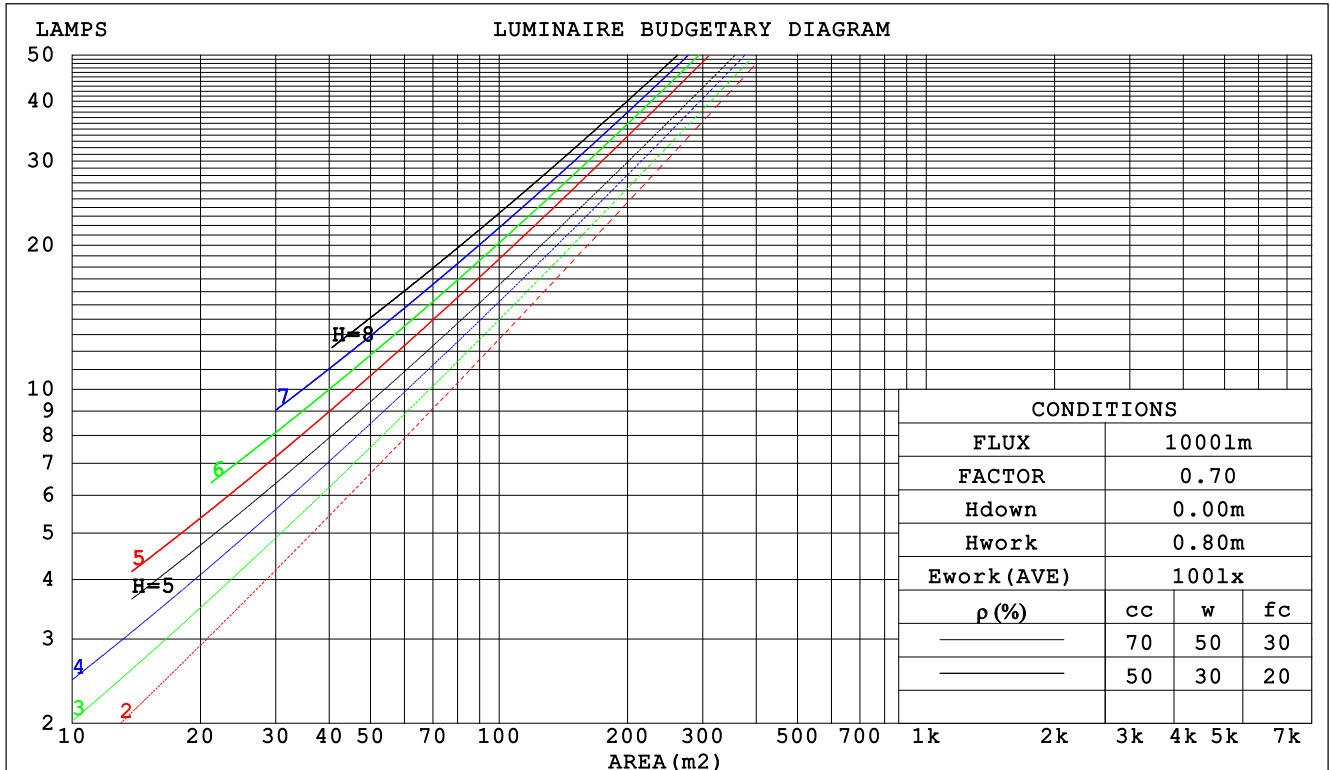
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-10-11

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 2700K	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	Coefficients of Utilization(CU)															
	RCR:Room Cavity Ratio															
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	1.05	1.03	1.04	1.02	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.01	.97	.93	.00	.96	.92	.96	.93	.90	.93	.91	.88	.90	.88	.86	.85
3.0	.94	.88	.84	.92	.87	.83	.90	.86	.82	.87	.84	.81	.85	.82	.80	.78
4.0	.87	.81	.77	.86	.80	.76	.84	.79	.75	.82	.78	.74	.80	.76	.74	.72
5.0	.81	.75	.70	.80	.74	.70	.78	.73	.69	.77	.72	.69	.75	.71	.68	.67
6.0	.76	.70	.65	.75	.69	.65	.74	.68	.64	.72	.67	.64	.71	.67	.63	.62
7.0	.71	.65	.60	.71	.65	.60	.69	.64	.60	.68	.63	.60	.67	.63	.59	.58
8.0	.67	.61	.56	.66	.60	.56	.65	.60	.56	.64	.59	.56	.63	.59	.55	.54
9.0	.63	.57	.53	.63	.57	.53	.62	.56	.52	.61	.56	.52	.60	.55	.52	.51
10.0	.60	.54	.50	.59	.53	.49	.58	.53	.49	.58	.53	.49	.57	.52	.49	.48



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 2700K	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	.196 .112 .035	.190 .108 .034	.177 .102 .032	.165 .095 .031	.155 .090 .029	
2.0	.187 .103 .031	.182 .100 .031	.171 .095 .030	.161 .090 .028	.152 .086 .027	
3.0	.177 .094 .028	.172 .092 .028	.163 .088 .027	.155 .085 .026	.147 .081 .025	
4.0	.168 .087 .026	.164 .086 .025	.156 .082 .025	.148 .080 .024	.141 .077 .023	
5.0	.159 .081 .023	.155 .080 .023	.148 .077 .023	.142 .075 .022	.136 .072 .022	
6.0	.151 .076 .022	.148 .075 .021	.141 .072 .021	.136 .070 .021	.130 .069 .020	
7.0	.143 .071 .020	.141 .070 .020	.135 .068 .020	.130 .067 .019	.125 .065 .019	
8.0	.137 .067 .019	.134 .066 .019	.129 .065 .018	.125 .063 .018	.120 .062 .018	
9.0	.130 .063 .018	.128 .062 .018	.124 .061 .017	.120 .060 .017	.116 .059 .017	
10.0	.125 .060 .017	.123 .059 .017	.119 .058 .016	.115 .057 .016	.111 .056 .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 .143	.148 .135 .123	.101 .093 .085	.058 .054 .050	.019 .017 .016	
2.0	.158 .132 .111	.136 .114 .096	.093 .079 .067	.054 .046 .039	.017 .015 .013	
3.0	.147 .114 .087	.126 .098 .076	.086 .068 .053	.050 .040 .031	.016 .013 .010	
4.0	.137 .099 .070	.117 .086 .061	.081 .060 .043	.047 .035 .025	.015 .011 .008	
5.0	.128 .088 .058	.110 .076 .050	.076 .053 .036	.044 .031 .021	.014 .010 .007	
6.0	.121 .079 .048	.104 .068 .042	.072 .048 .030	.042 .028 .018	.013 .009 .006	
7.0	.114 .071 .041	.098 .062 .036	.068 .043 .025	.040 .025 .015	.013 .008 .005	
8.0	.109 .065 .035	.094 .056 .030	.065 .040 .022	.038 .023 .013	.012 .008 .004	
9.0	.104 .060 .030	.089 .052 .026	.062 .037 .019	.036 .022 .011	.012 .007 .004	
10.0	.099 .055 .027	.085 .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: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 2700K			WEIGHT:			
SPEC.:RAD25R-09-CCT					DIM.:			SERIAL No.:1			
MFR.:					SUR.:Φ41MM			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	24.1	25.1	24.3	25.3	25.5	25.7	26.7	25.9	26.9	27.1
	3H	24.4	25.3	24.6	25.5	25.7	25.9	26.9	26.2	27.1	27.3
	4H	24.5	25.4	24.8	25.6	25.9	26.1	27.0	26.3	27.2	27.4
	6H	24.6	25.5	24.9	25.7	26.0	26.2	27.0	26.5	27.3	27.5
	8H	24.6	25.5	25.0	25.7	26.0	26.3	27.1	26.6	27.3	27.6
	12H	24.6	25.4	25.0	25.7	26.0	26.3	27.1	26.6	27.4	27.6
4H	2H	24.2	25.1	24.5	25.3	25.5	25.6	26.5	25.9	26.8	27.0
	3H	24.6	25.4	24.9	25.7	25.9	26.0	26.8	26.3	27.1	27.3
	4H	24.9	25.6	25.2	25.9	26.2	26.2	26.9	26.6	27.3	27.6
	6H	25.1	25.7	25.4	26.0	26.4	26.5	27.1	26.9	27.5	27.8
	8H	25.1	25.7	25.5	26.0	26.4	26.6	27.2	27.0	27.5	27.9
	12H	25.1	25.7	25.5	26.0	26.4	26.7	27.2	27.1	27.6	28.0
8H	4H	24.9	25.5	25.3	25.9	26.2	26.3	26.8	26.7	27.2	27.6
	6H	25.3	25.7	25.7	26.1	26.5	26.6	27.1	27.0	27.5	27.9
	8H	25.4	25.8	25.8	26.2	26.6	26.8	27.2	27.2	27.6	28.1
	12H	25.4	25.8	25.9	26.2	26.7	27.0	27.3	27.4	27.8	28.2
12H	4H	24.9	25.5	25.4	25.8	26.2	26.2	26.8	26.6	27.1	27.5
	6H	25.3	25.7	25.7	26.1	26.6	26.6	27.0	27.1	27.4	27.9
	8H	25.4	25.8	25.9	26.2	26.7	26.8	27.2	27.3	27.6	28.1
Variations with the observer position at spacings:											
S = 1.0H	+ 1.1 / - 1.5					+ 1.8 / - 2.0					
1.5H	+ 2.2 / - 1.3					+ 3.4 / - 1.8					
2.0H	+ 1.0 / - 0.8					+ 2.3 / - 0.8					

CIE Pub.117, 622.1 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.6)

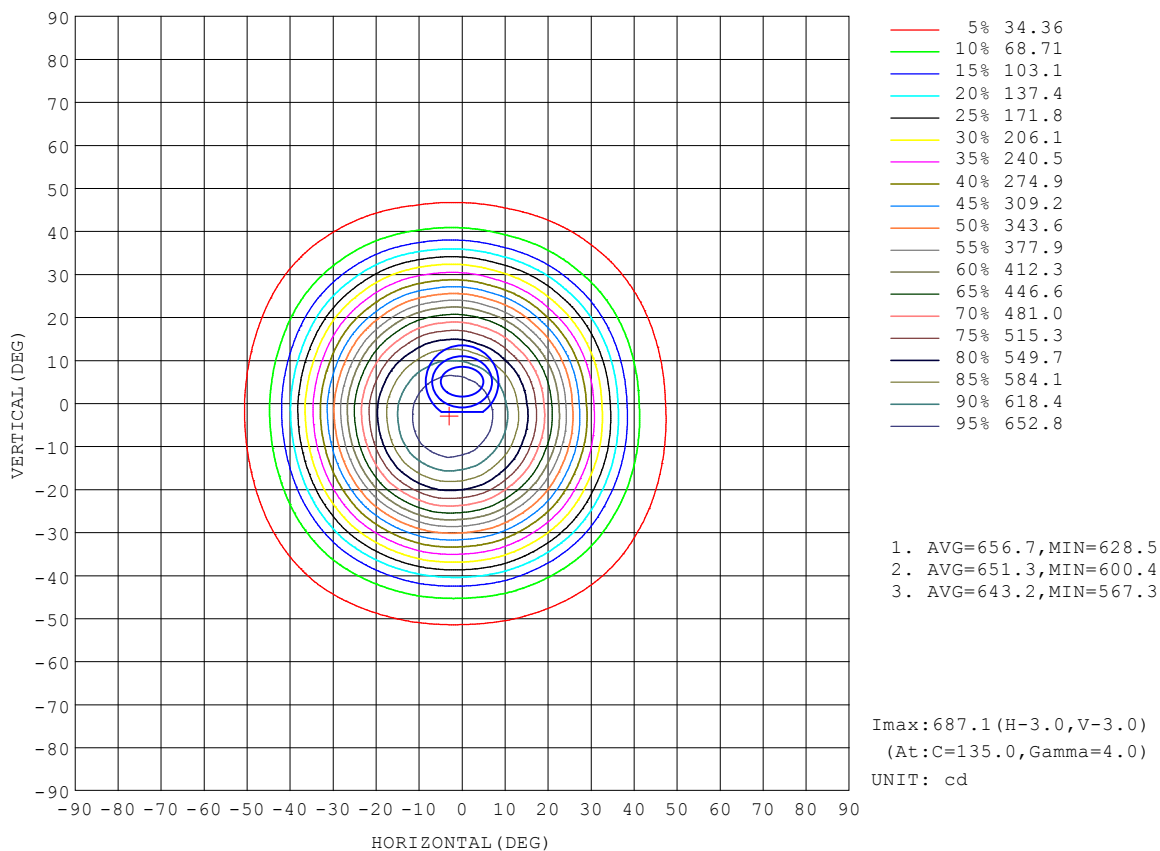
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-10-11

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 2700K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:

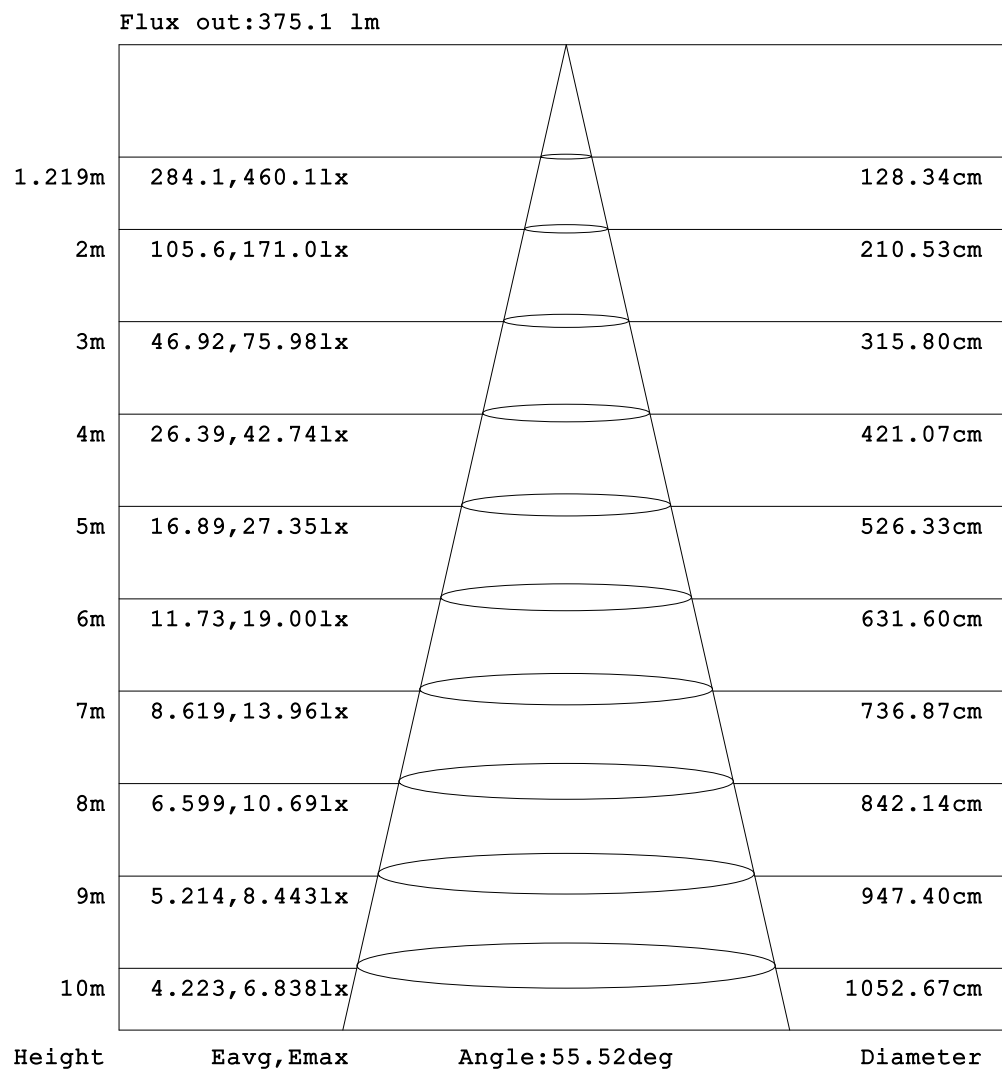


C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-10-11

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 2700K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:



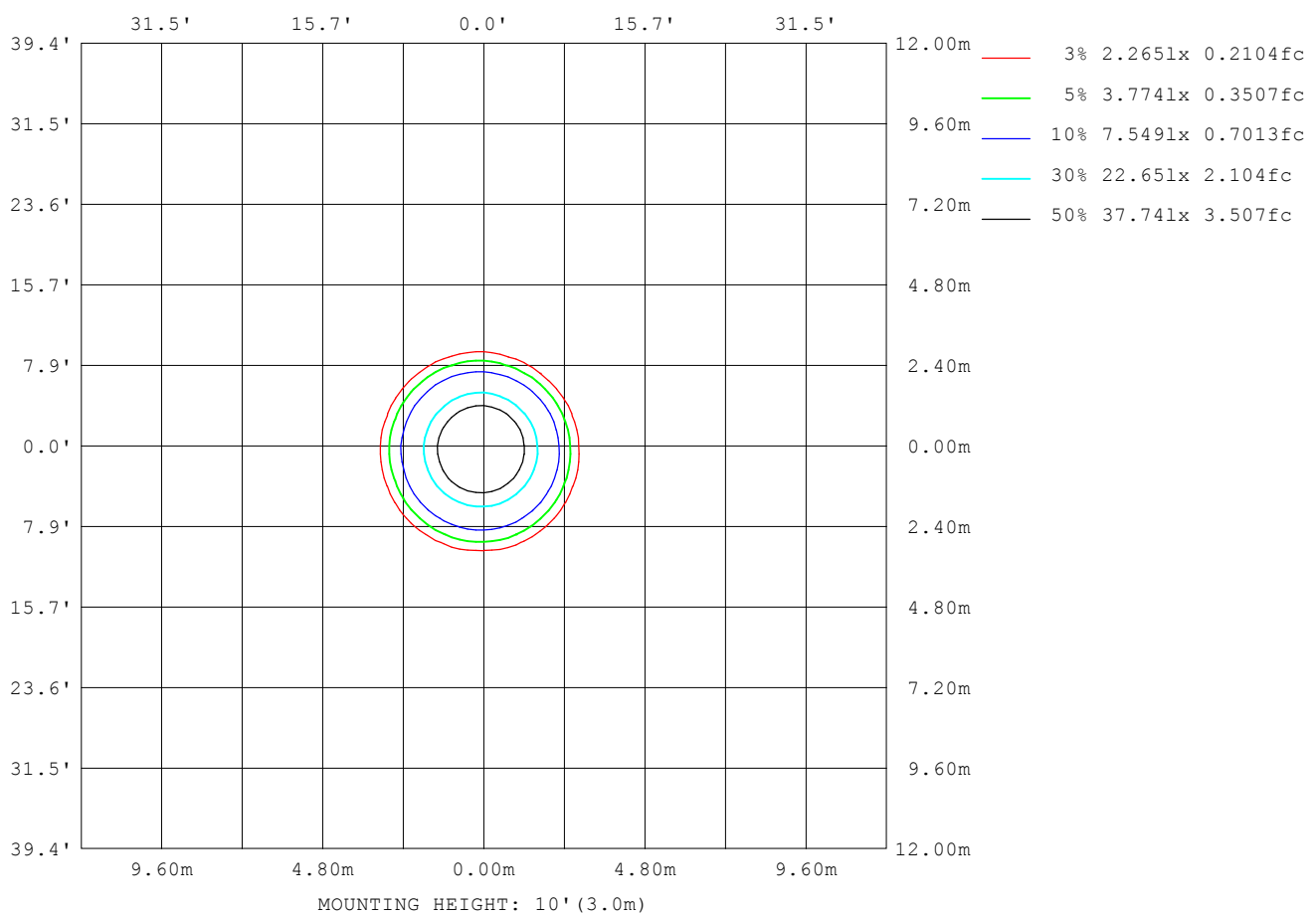
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 2700K	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 2700K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:

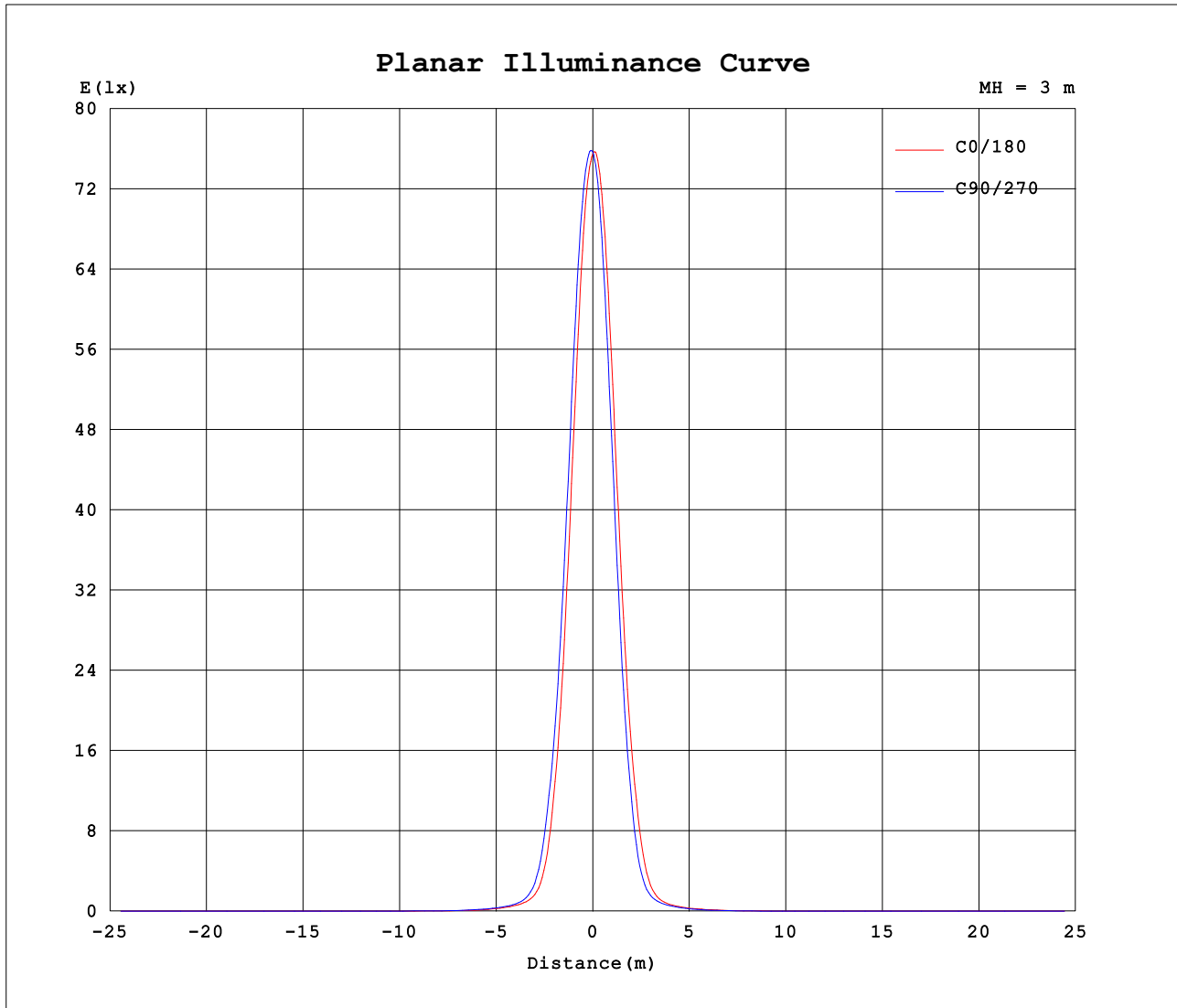
AvgL	cd/m2
L_0~180 (65) av	23332
L_0~180 (75) av	19563
L_0~180 (85) av	15735
L_90~270 (65) av	23669
L_90~270 (75) av	19594
L_90~270 (85) av	16297
L_45 (65) av	23503
L_45 (75) av	19580
L_45 (85) av	15931

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:



