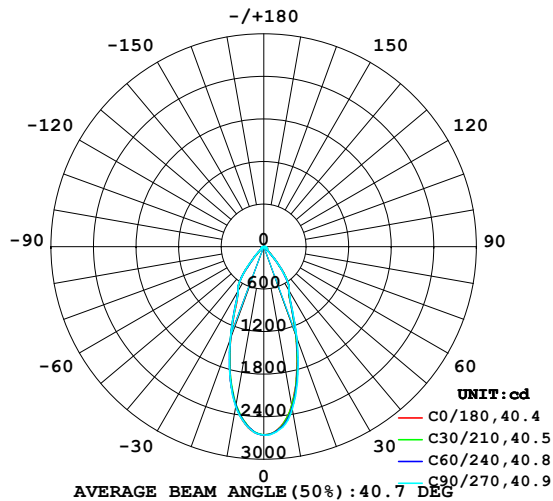


## LUMINAIRE PHOTOMETRIC TEST REPORT

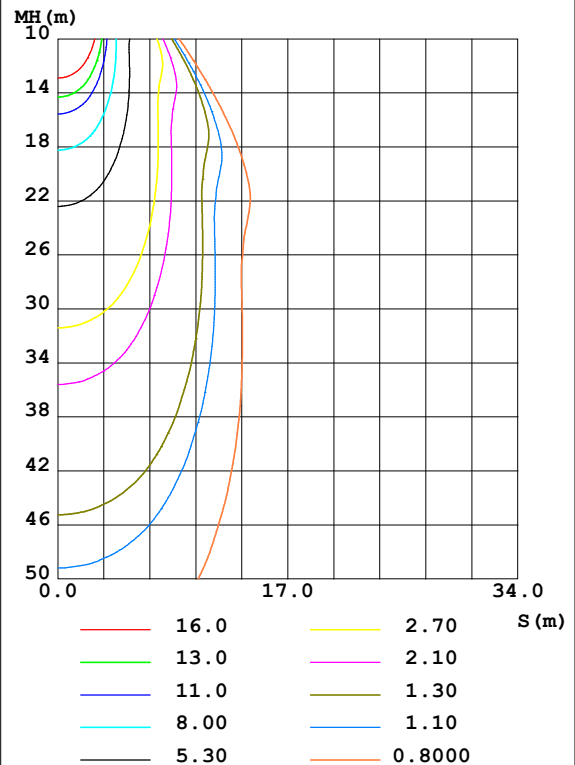
NAME:	TYPE:CRI90 3000K	WEIGHT:
SPEC.:RAD35R-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ55MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 94.01 lm/W
MODEL		Imax(cd)	2659	S/MH(C0/180)	0.65	
NOMINAL POWER(W)	23	LOR(%)	100.0	S/MH(C90/270)	0.66	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1712.5	η UP,DN(C0-180)	0.0,49.8	
NOMINAL FLUX(lm)	1712.5	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.2	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	0.60	

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:2024-06-04

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	2275	2304	2326	2324	2284	2259	2289	2287	0- 10	236.5	236.5	13.8,13.8
20	1321	1340	1366	1367	1371	1381	1377	1344	10- 20	506.5	743.0	43.4,43.4
30	711.5	715.8	719.7	728.7	729.3	728.2	729.0	717.4	20- 30	441.7	1185	69.2,69.2
40	295.4	293.1	293.9	301.3	303.4	304.2	317.8	306.8	30- 40	340.9	1526	89.1,89.1
50	53.54	52.55	52.91	53.80	53.27	53.01	54.30	54.93	40- 50	91.43	1617	94.4,94.4
60	39.57	38.78	38.27	38.42	38.34	38.68	39.56	40.19	50- 60	40.87	1658	96.8,96.8
70	28.80	27.88	26.92	26.89	27.21	27.79	28.75	29.17	60- 70	32.97	1691	98.7,98.7
80	5.712	6.048	6.272	6.685	6.794	6.409	6.212	5.759	70- 80	19.82	1711	99.9,99.9
90	0.1456	0.1431	0.1461	0.1462	0.2555	0.2559	0.2563	0.2510	80- 90	1.869	1713	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): 1591.1 lm

%lum = 92.9%

%lamp = 92.9%

Conical surface Flux(120deg): 1657.8 lm

%lum = 96.8%

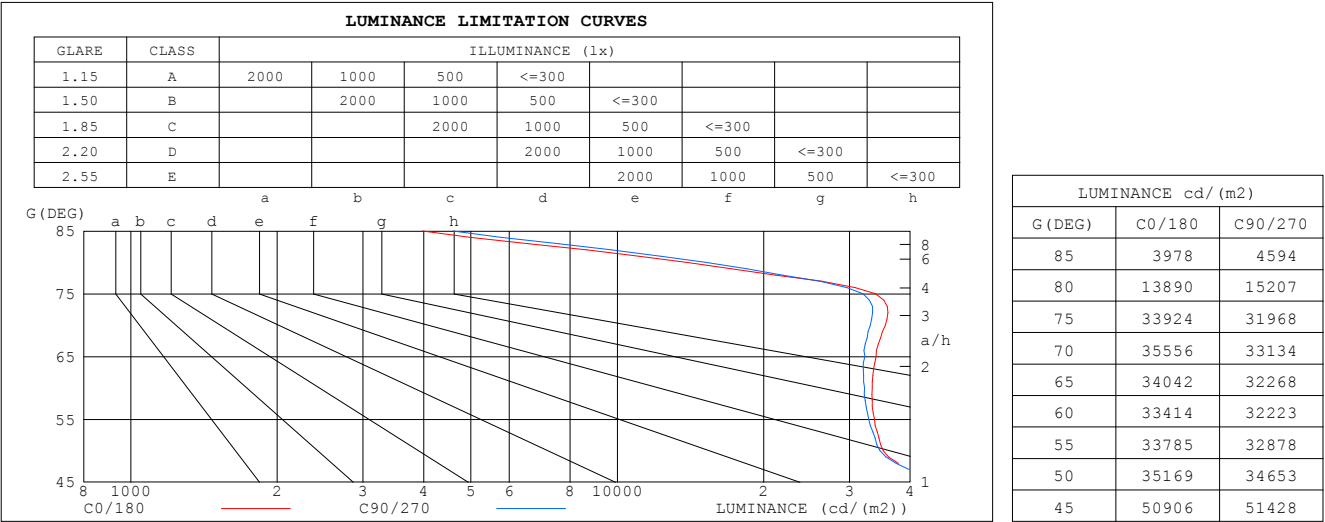
%lamp = 96.8%

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-06-04

$\gamma$  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-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ55MM	Shielding Angle:



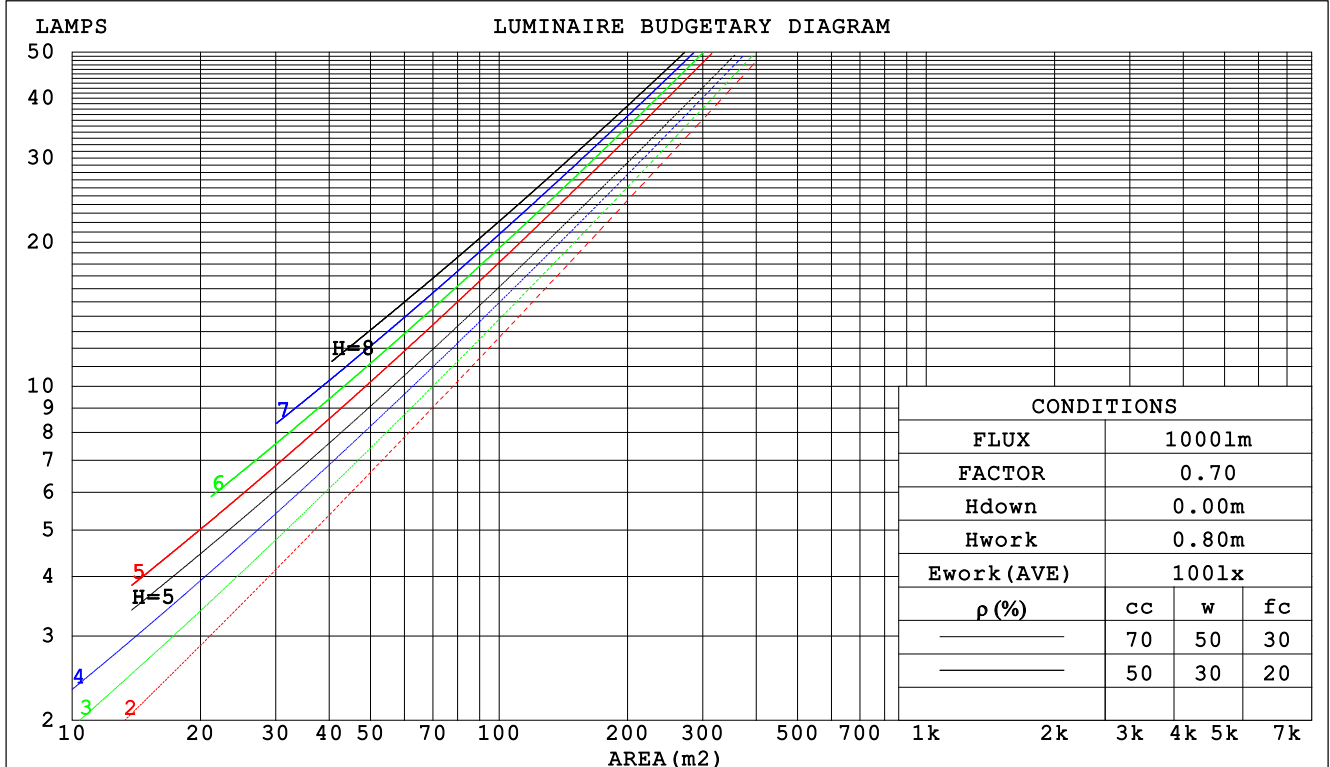
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-06-04

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-23-CCT	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	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	1.08	1.05	1.08	1.06	1.04	1.04	1.02	1.01	1.00	.99	.98	.97	.96	.95	.93
2.0	1.02	.98	.95	1.01	.97	.94	.97	.94	.92	.94	.92	.90	.92	.90	.88	.86
3.0	.95	.90	.86	.94	.89	.85	.91	.87	.84	.89	.86	.83	.87	.84	.81	.80
4.0	.89	.83	.79	.88	.83	.79	.86	.81	.78	.84	.80	.77	.82	.79	.76	.74
5.0	.84	.78	.73	.83	.77	.73	.81	.76	.72	.79	.75	.72	.78	.74	.71	.70
6.0	.79	.73	.68	.78	.72	.68	.76	.71	.68	.75	.70	.67	.74	.70	.67	.65
7.0	.74	.68	.64	.73	.68	.64	.72	.67	.63	.71	.66	.63	.70	.66	.63	.61
8.0	.70	.64	.60	.69	.64	.60	.68	.63	.60	.67	.63	.59	.66	.62	.59	.58
9.0	.66	.61	.57	.66	.60	.56	.65	.60	.56	.64	.59	.56	.63	.59	.56	.55
10.0	.63	.57	.54	.63	.57	.53	.62	.57	.53	.61	.56	.53	.60	.56	.53	.52



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-06-04

$\gamma$  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-23-CCT	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	.186 .106 .033	.179 .102 .032	.167 .096 .031	.155 .089 .029	.144 .084 .027	
2.0	.177 .097 .030	.172 .095 .029	.161 .089 .028	.151 .085 .027	.142 .080 .025	
3.0	.168 .089 .027	.163 .087 .026	.154 .083 .025	.145 .080 .024	.137 .076 .024	
4.0	.159 .082 .024	.154 .081 .024	.146 .078 .023	.139 .075 .023	.132 .072 .022	
5.0	.150 .076 .022	.146 .075 .022	.140 .073 .021	.133 .070 .021	.127 .068 .020	
6.0	.142 .071 .020	.139 .070 .020	.133 .068 .020	.128 .066 .019	.122 .064 .019	
7.0	.135 .067 .019	.133 .066 .019	.127 .064 .019	.122 .063 .018	.118 .061 .018	
8.0	.129 .063 .018	.127 .062 .018	.122 .061 .017	.117 .059 .017	.113 .058 .017	
9.0	.123 .060 .017	.121 .059 .017	.117 .058 .016	.113 .057 .016	.109 .055 .016	
10.0	.118 .057 .016	.116 .056 .016	.112 .055 .015	.108 .054 .015	.105 .053 .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	.172 .157 .144	.147 .135 .124	.101 .093 .086	.058 .054 .050	.019 .017 .016	
2.0	.157 .132 .112	.134 .114 .097	.092 .079 .067	.053 .046 .040	.017 .015 .013	
3.0	.145 .114 .089	.124 .098 .077	.085 .068 .054	.049 .040 .032	.016 .013 .010	
4.0	.135 .099 .072	.115 .086 .062	.079 .060 .044	.046 .035 .026	.015 .011 .009	
5.0	.126 .087 .059	.108 .076 .051	.074 .053 .036	.043 .031 .022	.014 .010 .007	
6.0	.118 .078 .049	.102 .068 .043	.070 .047 .030	.041 .028 .018	.013 .009 .006	
7.0	.111 .071 .042	.096 .061 .036	.066 .043 .026	.038 .025 .015	.012 .008 .005	
8.0	.106 .064 .036	.091 .056 .031	.063 .039 .022	.037 .023 .013	.012 .008 .004	
9.0	.100 .059 .031	.086 .051 .027	.060 .036 .019	.035 .021 .012	.011 .007 .004	
10.0	.096 .055 .027	.082 .047 .024	.057 .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:2024-06-04

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-23-CCT					DIM.:			SERIAL No.:1			
MFR.:					SUR.:Φ55MM			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	21.7	22.7	22.0	22.9	23.0	21.7	22.7	21.9	22.8	23.0
	3H	22.2	23.1	22.5	23.3	23.5	22.1	23.0	22.4	23.2	23.4
	4H	22.5	23.3	22.8	23.5	23.8	22.3	23.2	22.6	23.4	23.6
	6H	22.5	23.3	22.8	23.6	23.8	22.4	23.2	22.7	23.4	23.7
	8H	22.5	23.2	22.8	23.5	23.8	22.4	23.1	22.7	23.4	23.7
	12H	22.4	23.2	22.8	23.4	23.7	22.3	23.1	22.6	23.3	23.6
4H	2H	21.7	22.6	22.0	22.8	23.0	21.7	22.5	22.0	22.8	23.0
	3H	22.4	23.1	22.7	23.4	23.7	22.3	23.0	22.6	23.3	23.6
	4H	22.8	23.5	23.2	23.8	24.1	22.7	23.4	23.0	23.7	24.0
	6H	22.9	23.5	23.3	23.8	24.2	22.8	23.4	23.2	23.7	24.1
	8H	22.9	23.4	23.3	23.8	24.1	22.8	23.3	23.2	23.7	24.0
	12H	22.8	23.3	23.2	23.7	24.1	22.7	23.2	23.1	23.6	24.0
8H	4H	22.9	23.4	23.3	23.8	24.1	22.8	23.3	23.2	23.7	24.0
	6H	23.0	23.4	23.4	23.8	24.2	22.9	23.3	23.3	23.7	24.1
	8H	23.0	23.4	23.4	23.8	24.2	22.9	23.2	23.3	23.7	24.1
	12H	22.9	23.2	23.4	23.7	24.2	22.8	23.1	23.3	23.6	24.1
12H	4H	22.8	23.3	23.3	23.7	24.1	22.7	23.2	23.1	23.6	24.0
	6H	22.9	23.3	23.4	23.8	24.2	22.8	23.2	23.3	23.6	24.1
	8H	22.9	23.3	23.4	23.7	24.2	22.8	23.2	23.3	23.6	24.1
Variations with the observer position at spacings:											
S = 1.0H	+ 2.1 / - 2.3					+ 2.0 / - 2.3					
1.5H	+ 4.1 / - 2.2					+ 4.0 / - 2.2					
2.0H	+ 0.7 / - 0.4					+ 0.8 / - 0.4					

CIE Pub.117, 1713 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 1.9$ )

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-06-04

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:

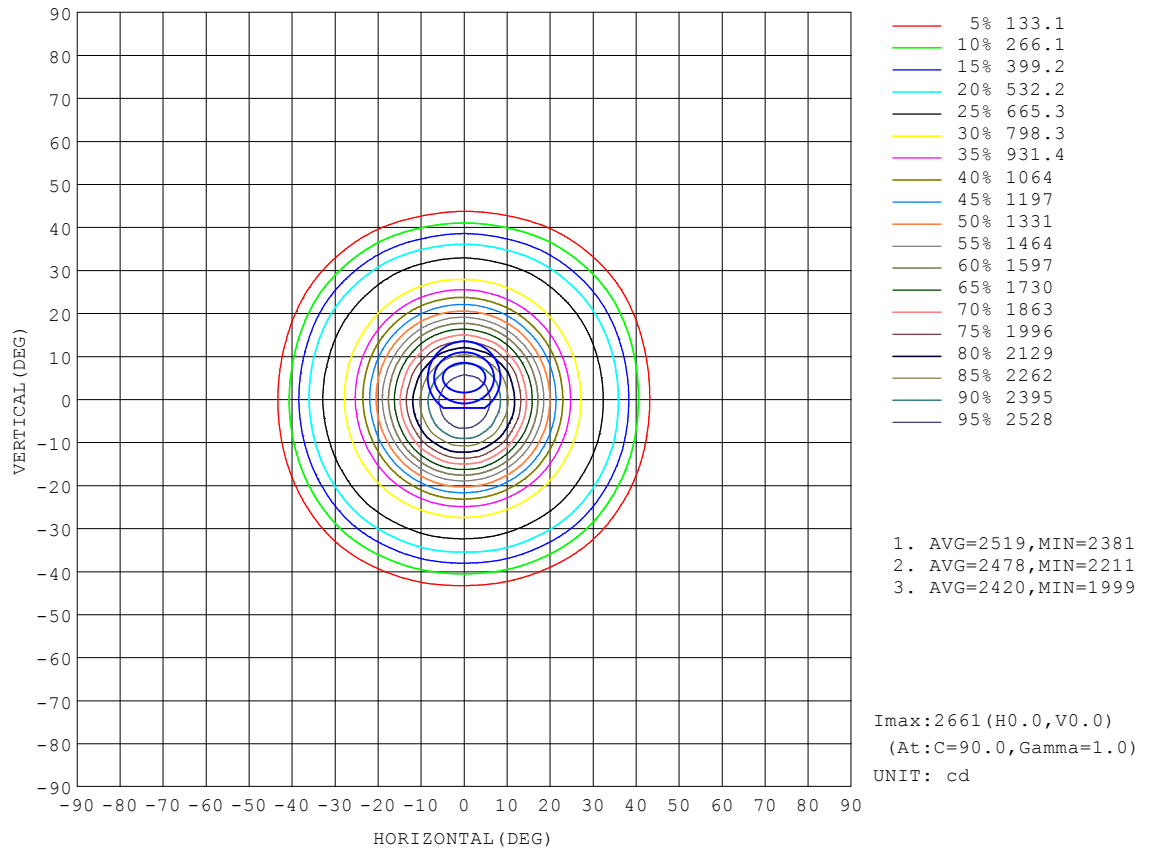
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Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

```

## ISOCANDELA DIAGRAM

NAME:	TYPE:CRI90 3000K	WEIGHT:
SPEC.:RAD35R-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ55MM	Shielding Angle:



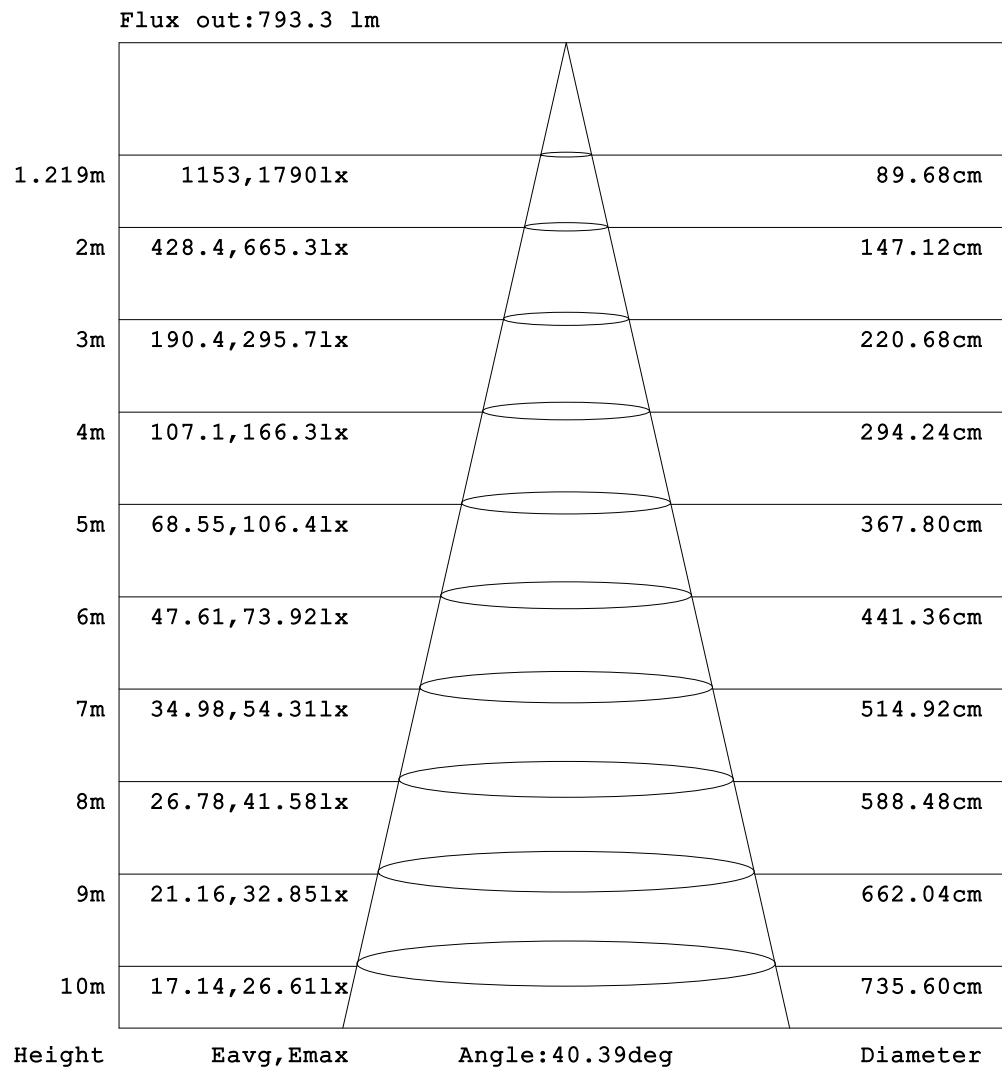
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-06-04

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-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ55MM	Shielding Angle:



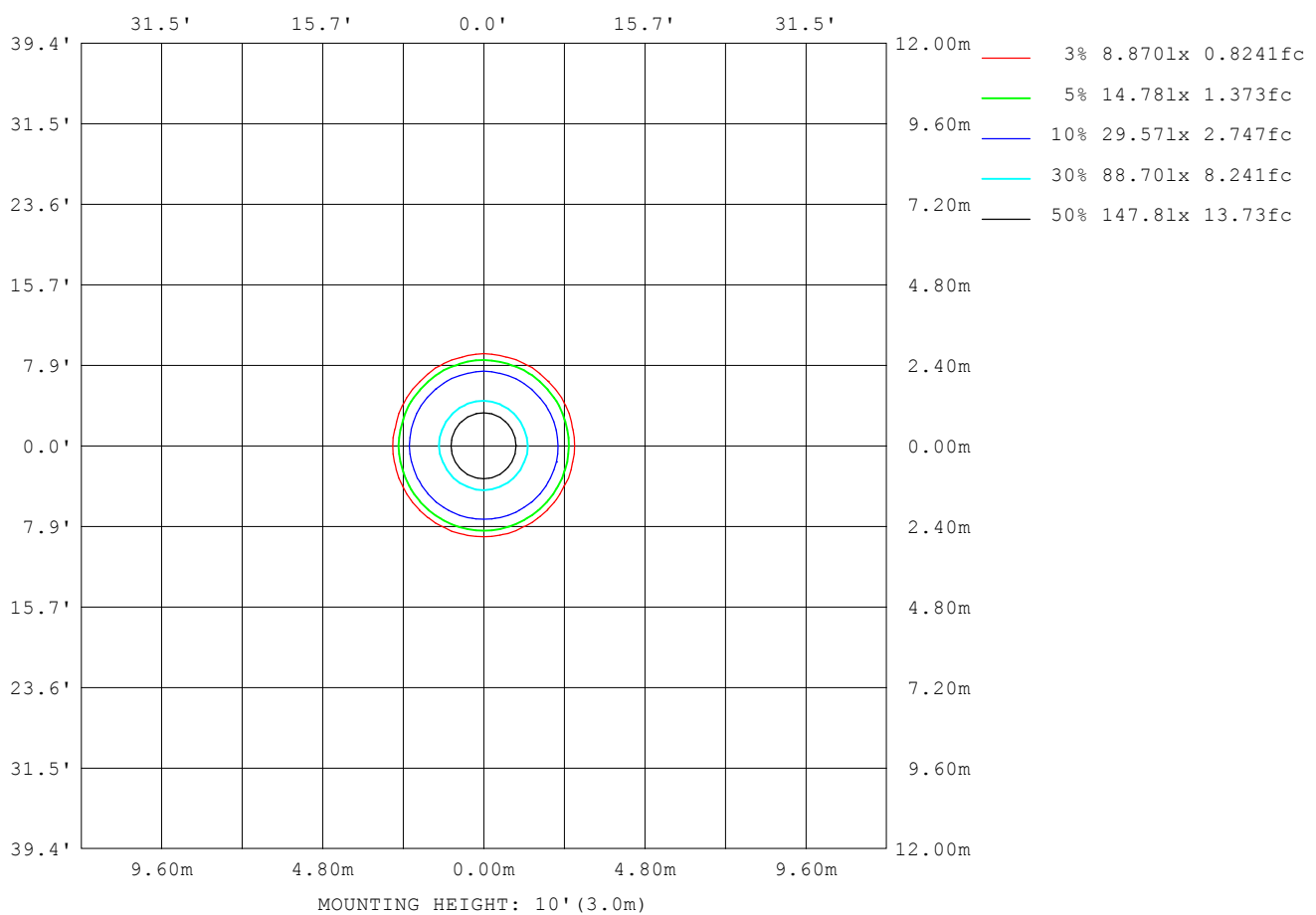
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2024-06-04

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-23-CCT	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:2024-06-04

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-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ55MM	Shielding Angle:

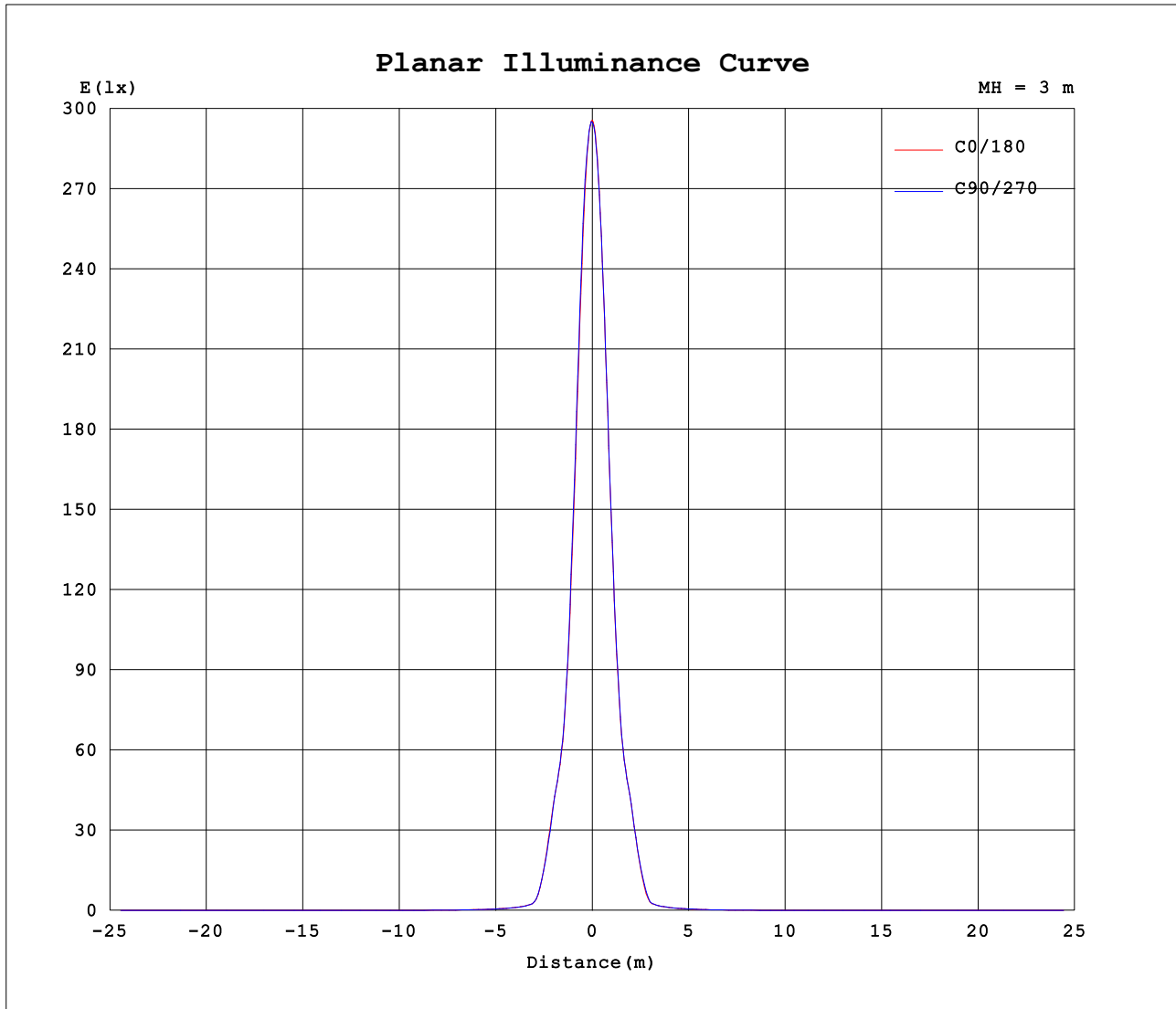
AvgL	cd/m2
L_0~180 (65) av	33252
L_0~180 (75) av	33407
L_0~180 (85) av	4696
L_90~270 (65) av	33167
L_90~270 (75) av	33273
L_90~270 (85) av	4654
L_45 (65) av	33191
L_45 (75) av	33331
L_45 (85) av	4637

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-06-04

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: 2024-06-04

$\gamma$  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:

```

```

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:

```