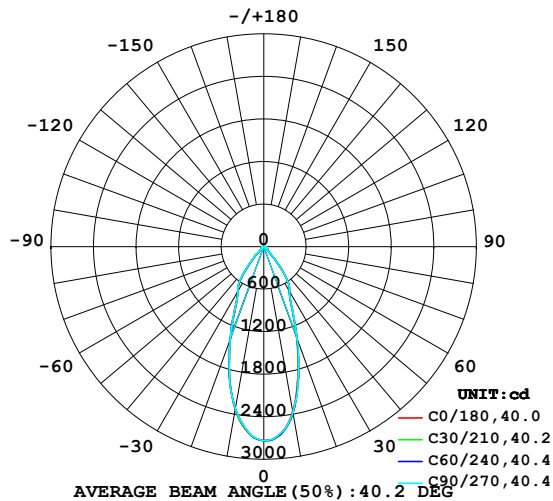


LUMINAIRE PHOTOMETRIC TEST REPORT

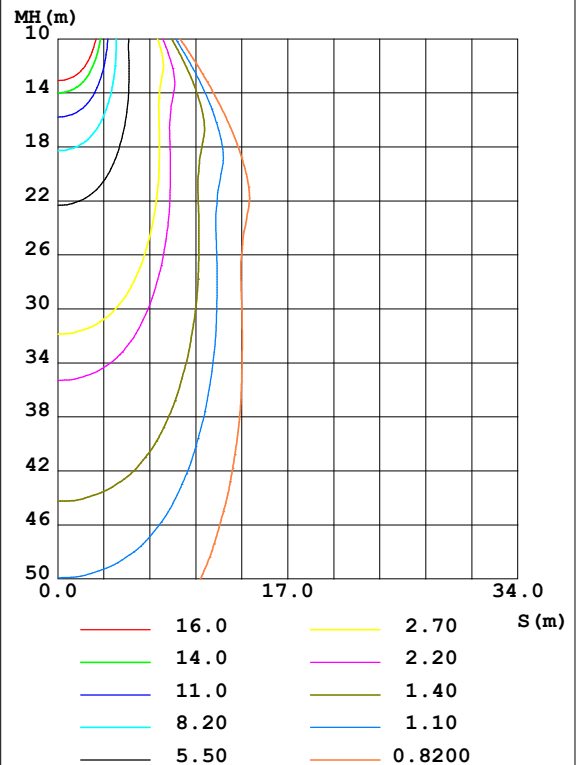
NAME:	TYPE:CRI90 4000K	WEIGHT:
SPEC.:RAD35R-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ55MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 94.36 lm/W
MODEL		Imax(cd)	2743	S/MH(C0/180)	0.65	
NOMINAL POWER(W)	23	LOR(%)	100.0	S/MH(C90/270)	0.65	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1741.0	η UP,DN(C0-180)	0.0,49.9	
NOMINAL FLUX(lm)	1740.97	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.1	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	0.60	

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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2360	2389	2375	2356	2333	2311	2322	2333	0- 10	242.7	242.7	13.9,13.9
20	1359	1381	1384	1373	1376	1390	1388	1361	10- 20	516.6	759.3	43.6,43.6
30	724.0	729.8	727.0	732.7	733.3	733.8	734.5	725.5	20- 30	446.0	1205	69.2,69.2
40	314.4	311.9	296.8	297.7	301.3	303.3	316.3	312.7	30- 40	346.9	1552	89.2,89.2
50	54.76	53.89	53.66	54.40	53.74	53.63	54.92	55.87	40- 50	91.70	1644	94.4,94.4
60	40.40	39.61	38.93	38.97	38.73	39.16	40.14	40.87	50- 60	41.54	1685	96.8,96.8
70	29.38	28.53	27.39	27.29	27.45	28.04	29.15	29.71	60- 70	33.49	1719	98.7,98.7
80	6.091	6.448	6.458	6.659	6.551	6.193	6.222	5.966	70- 80	20.13	1739	99.9,99.9
90	0.1485	0.1461	0.1514	0.1516	0.2612	0.2563	0.2616	0.2508	80- 90	1.895	1741	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): 1617.7 lm

%lum = 92.9%

%lamp = 92.9%

Conical surface Flux(120deg): 1685.5 lm

%lum = 96.8%

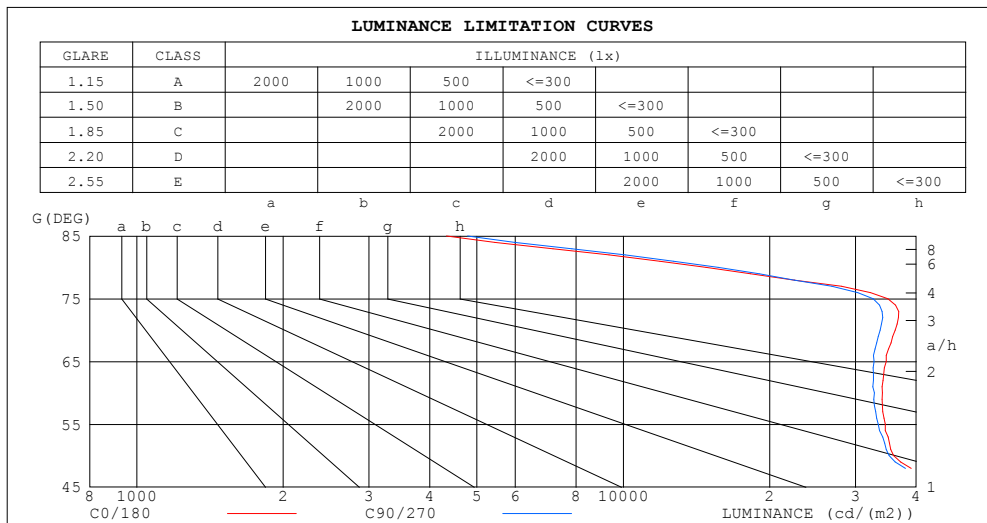
%lamp = 96.8%

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

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 4000K	WEIGHT:
SPEC.:RAD35R-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ55MM	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4326	4781
80	14802	15670
75	35004	32614
70	36248	33748
65	34706	32777
60	34096	32808
55	34534	33426
50	35954	35174
45	55152	49602

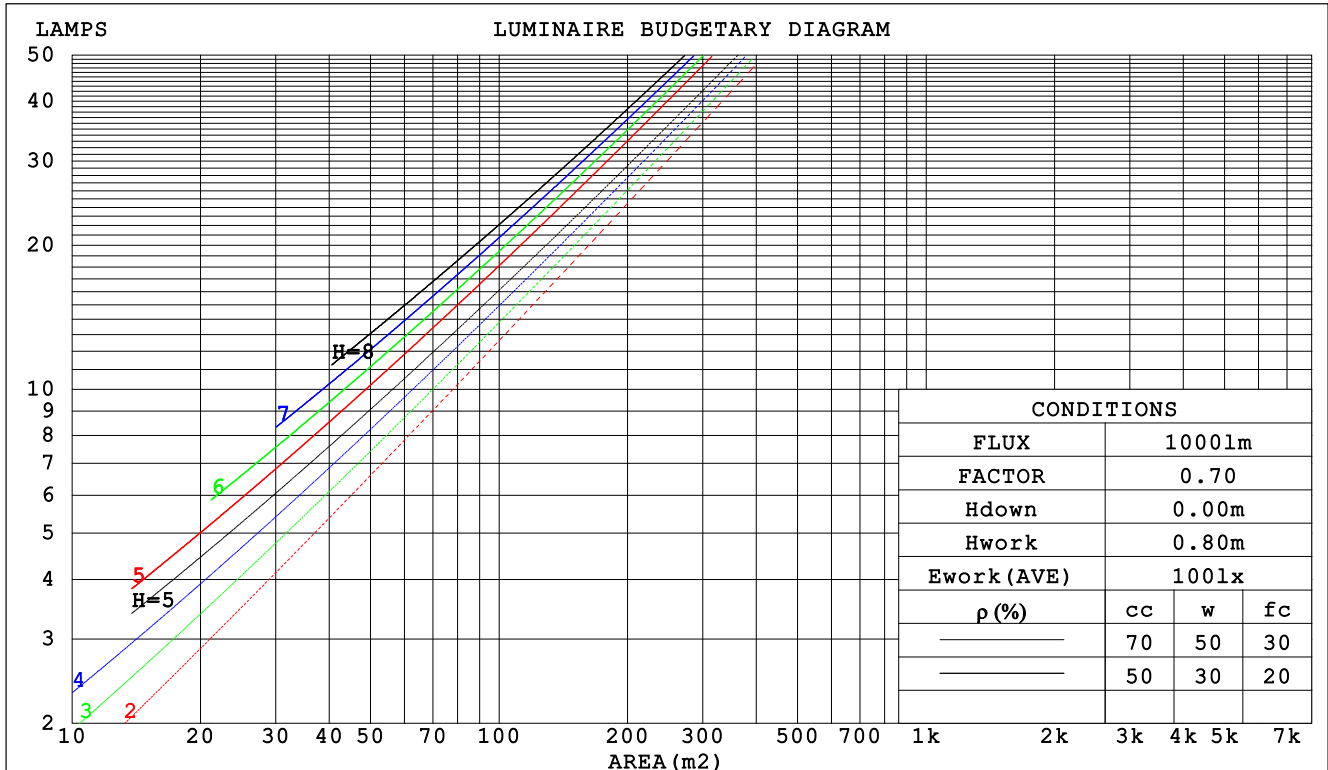
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-06-04

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 4000K	WEIGHT:
SPEC.:RAD35R-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ55MM	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{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	1.10	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	.82	.80
4.0	.89	.84	.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	.71	.67	.74	.70	.67	.65
7.0	.74	.68	.64	.74	.68	.64	.72	.67	.63	.71	.66	.63	.70	.66	.63	.61
8.0	.70	.64	.60	.70	.64	.60	.68	.63	.60	.67	.63	.59	.66	.62	.59	.58
9.0	.66	.61	.57	.66	.60	.57	.65	.60	.56	.64	.60	.56	.63	.59	.56	.55
10.0	.63	.57	.54	.63	.57	.54	.62	.57	.53	.61	.57	.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

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:

WEC AND CCEC

NAME:	TYPE:CRI90 4000K	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	.166 .095 .030	.155 .089 .029	.144 .083 .027	
2.0	.177 .097 .030	.171 .094 .029	.161 .089 .028	.151 .085 .026	.142 .080 .025	
3.0	.167 .089 .027	.163 .087 .026	.153 .083 .025	.145 .079 .024	.137 .076 .024	
4.0	.158 .082 .024	.154 .081 .024	.146 .078 .023	.139 .075 .023	.132 .072 .022	
5.0	.150 .076 .022	.146 .075 .022	.139 .073 .021	.133 .070 .021	.127 .068 .020	
6.0	.142 .071 .020	.139 .070 .020	.133 .068 .020	.127 .066 .019	.122 .064 .019	
7.0	.135 .067 .019	.132 .066 .019	.127 .064 .019	.122 .063 .018	.117 .061 .018	
8.0	.129 .063 .018	.126 .062 .018	.122 .061 .017	.117 .059 .017	.113 .058 .017	
9.0	.123 .060 .017	.121 .059 .017	.117 .058 .016	.113 .056 .016	.109 .055 .016	
10.0	.118 .056 .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	.100 .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	.134 .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	.101 .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 4000K			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	21.8	22.8	22.1	23.0	23.1	21.7	22.7	22.0	22.9	23.0
	3H	22.3	23.2	22.5	23.4	23.6	22.1	23.0	22.4	23.2	23.4
	4H	22.6	23.4	22.8	23.6	23.9	22.4	23.2	22.7	23.4	23.7
	6H	22.6	23.4	22.9	23.6	23.9	22.4	23.2	22.7	23.5	23.7
	8H	22.6	23.3	22.9	23.6	23.9	22.4	23.2	22.7	23.4	23.7
	12H	22.5	23.3	22.9	23.5	23.8	22.4	23.1	22.7	23.4	23.6
4H	2H	21.8	22.7	22.1	22.9	23.1	21.7	22.6	22.0	22.8	23.0
	3H	22.5	23.2	22.8	23.5	23.8	22.3	23.1	22.7	23.3	23.6
	4H	22.9	23.6	23.3	23.9	24.2	22.7	23.4	23.1	23.7	24.0
	6H	23.0	23.6	23.4	23.9	24.3	22.8	23.4	23.2	23.7	24.1
	8H	23.0	23.5	23.4	23.9	24.2	22.8	23.3	23.2	23.7	24.1
	12H	22.9	23.4	23.3	23.8	24.2	22.8	23.3	23.2	23.6	24.0
8H	4H	23.0	23.5	23.4	23.9	24.2	22.8	23.3	23.2	23.7	24.1
	6H	23.1	23.5	23.5	23.9	24.3	22.9	23.4	23.4	23.8	24.2
	8H	23.1	23.5	23.5	23.9	24.3	22.9	23.3	23.4	23.7	24.2
	12H	23.0	23.3	23.5	23.8	24.3	22.9	23.2	23.3	23.6	24.1
12H	4H	22.9	23.4	23.3	23.8	24.2	22.8	23.3	23.2	23.6	24.0
	6H	23.0	23.4	23.5	23.9	24.3	22.9	23.3	23.3	23.7	24.1
	8H	23.0	23.4	23.5	23.8	24.3	22.9	23.2	23.3	23.7	24.1
Variations with the observer position at spacings:											
S = 1.0H		+ 2.0 / - 2.3					+ 2.0 / - 2.4				
1.5H		+ 4.1 / - 2.3					+ 4.1 / - 2.3				
2.0H		+ 0.8 / - 0.4					+ 0.6 / - 0.4				

CIE Pub.117, 1741 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:

UTILIZATION FACTORS TABLE

NAME:	TYPE:CRI90 4000K	WEIGHT:
SPEC.:RAD35R-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ55MM	Shielding Angle:

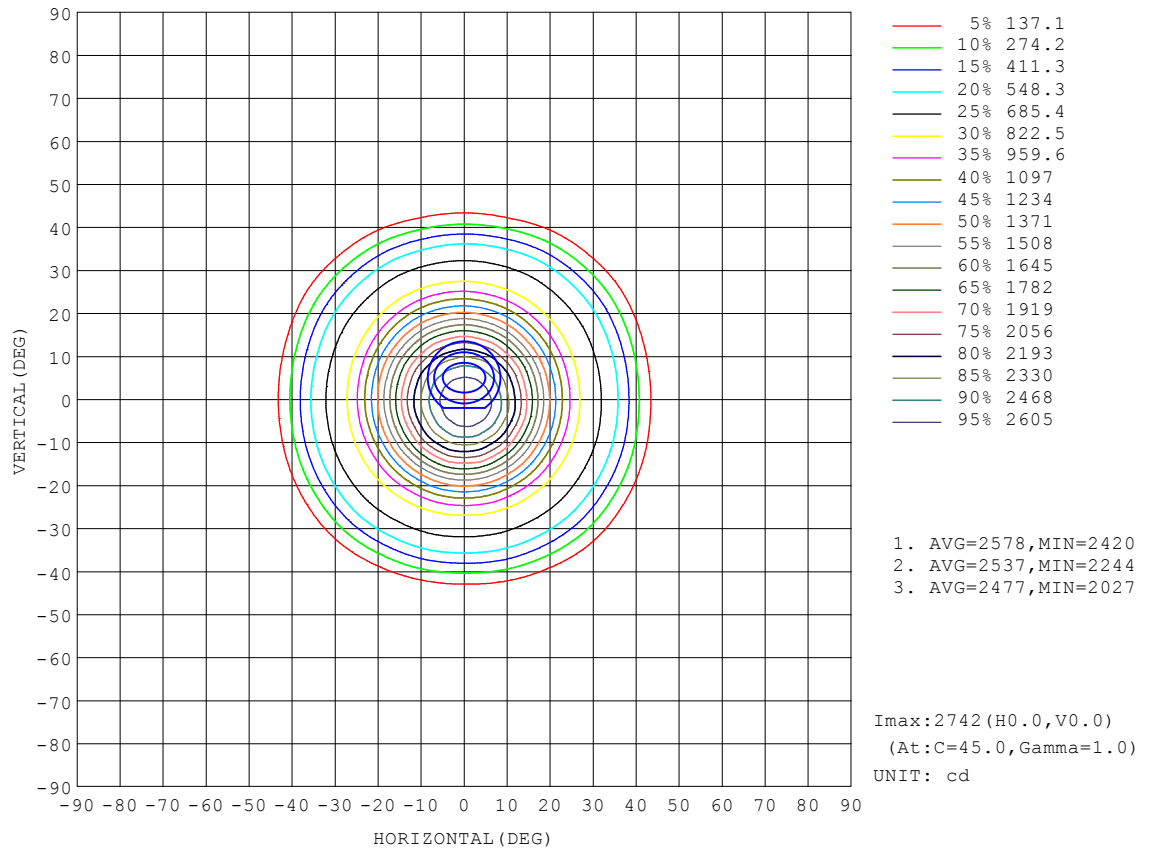
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	85	78	74	84	78	74	84	78	74	70
0.80	92	86	82	92	86	82	91	85	82	78
1.00	97	91	87	96	91	87	95	91	86	82
1.25	101	96	92	100	95	92	98	94	91	86
1.50	104	99	95	103	98	95	101	97	94	89
2.00	107	103	99	106	102	99	103	100	97	92
2.50	109	105	102	108	104	101	104	101	99	93
3.00	111	107	104	109	106	103	106	103	101	94
4.00	113	110	108	111	109	106	107	105	104	96
5.00	115	112	110	112	110	108	108	107	105	98
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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:

ISOCANDELA DIAGRAM

NAME:	TYPE:CRI90 4000K	WEIGHT:
SPEC.:RAD35R-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ55MM	Shielding Angle:

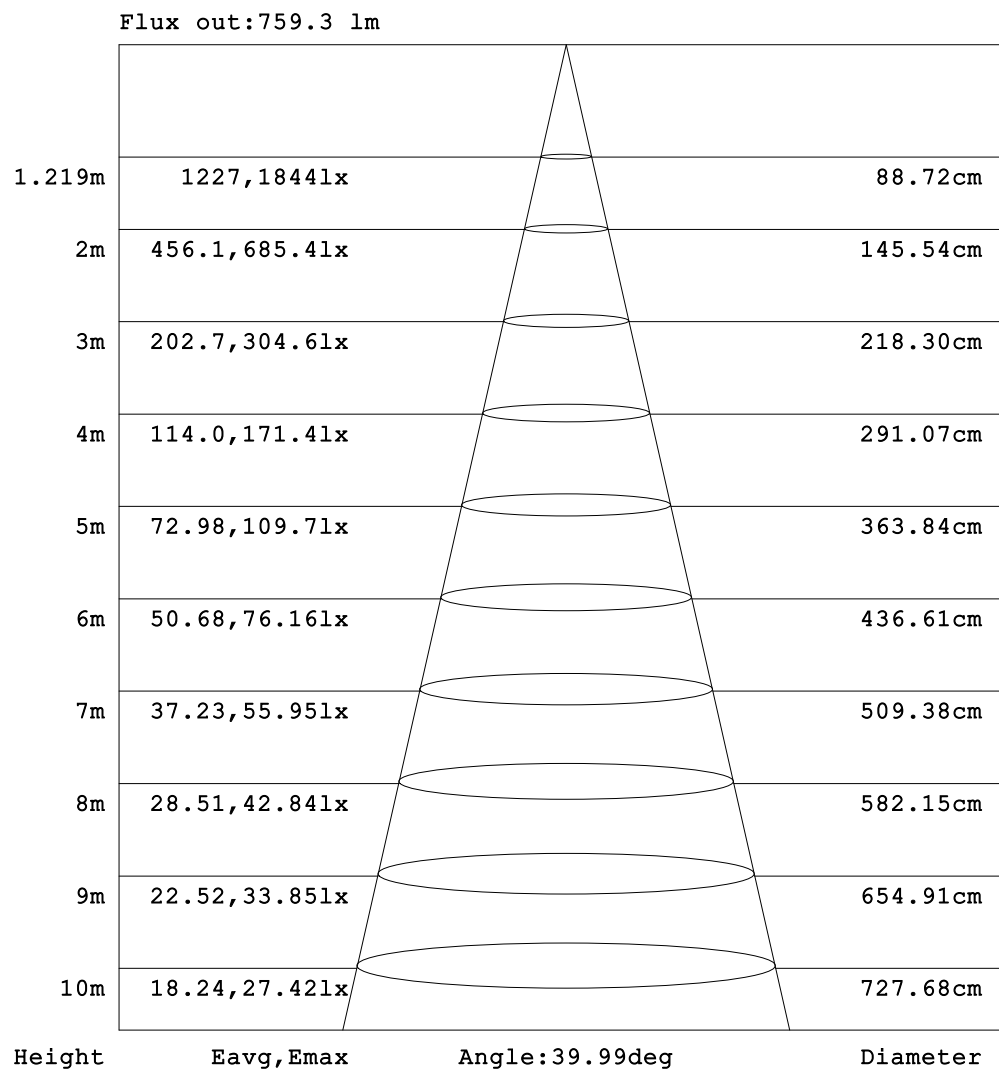


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-06-04

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 4000K	WEIGHT:
SPEC.:RAD35R-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ55MM	Shielding Angle:



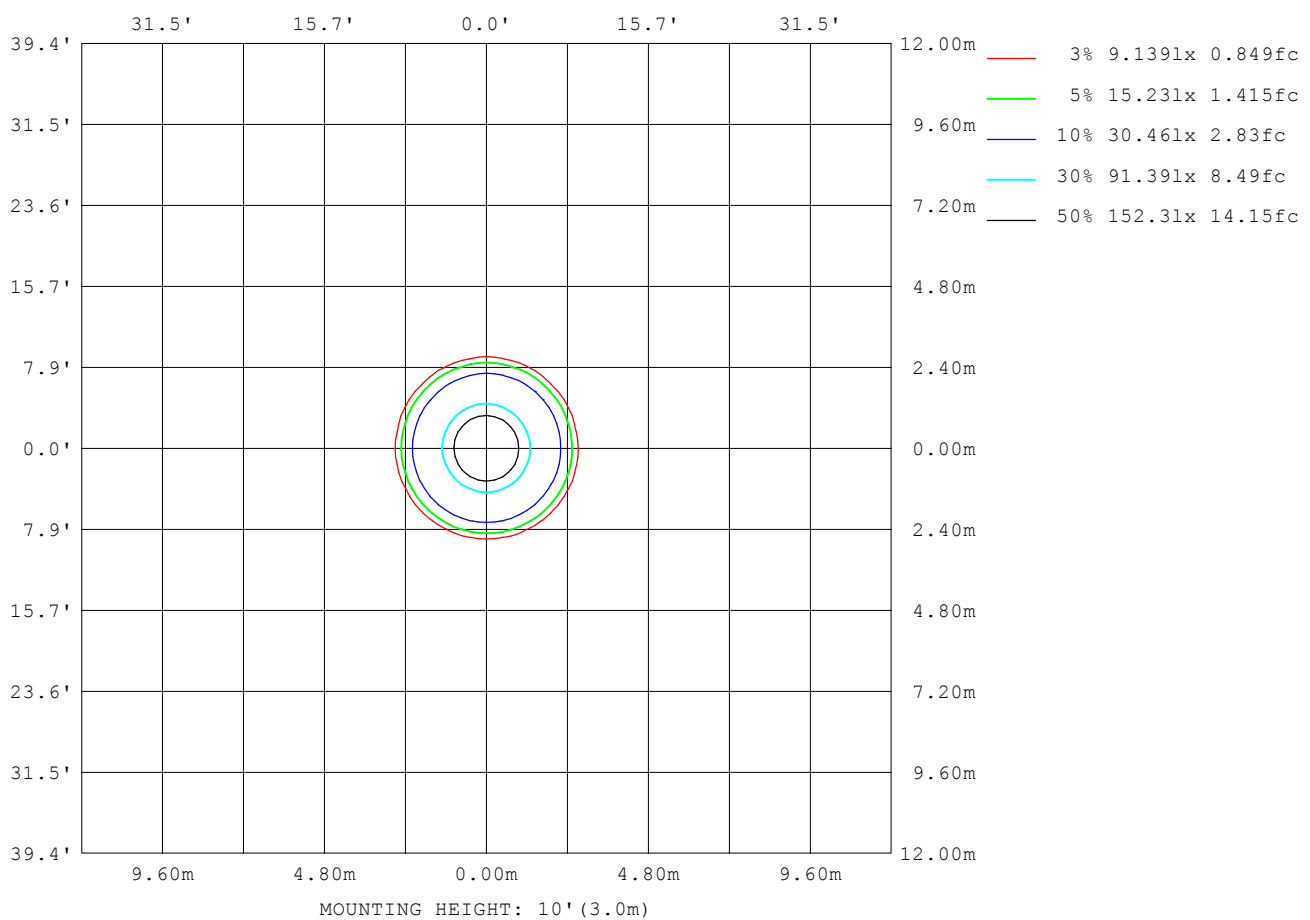
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 4000K	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 4000K	WEIGHT:
SPEC.:RAD35R-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ55MM	Shielding Angle:

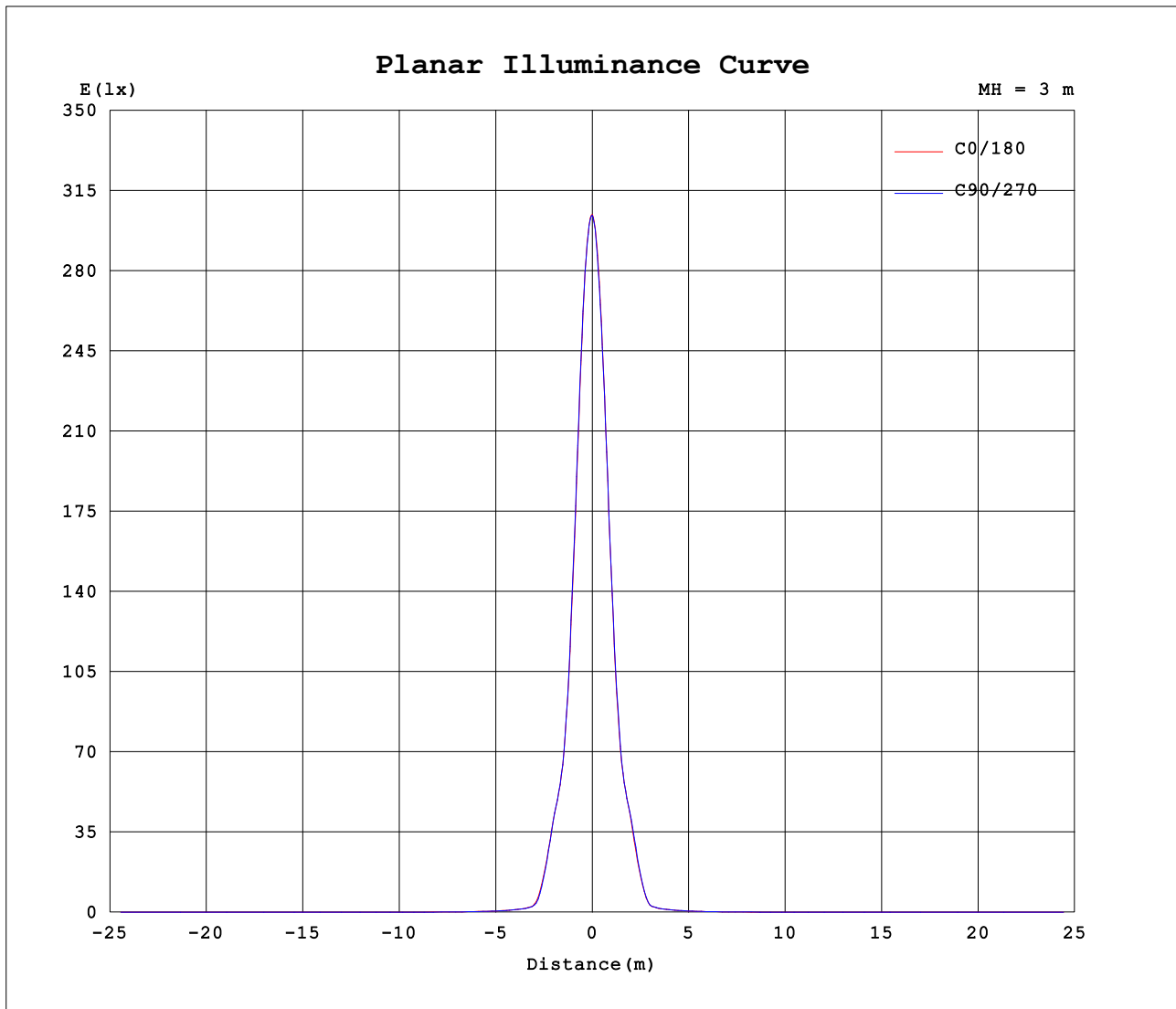
AvgL	cd/m2
L_0~180 (65) av	33723
L_0~180 (75) av	33904
L_0~180 (85) av	4734
L_90~270 (65) av	33618
L_90~270 (75) av	33725
L_90~270 (85) av	4730
L_45 (65) av	33725
L_45 (75) av	33866
L_45 (85) av	4707

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

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:

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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:

```