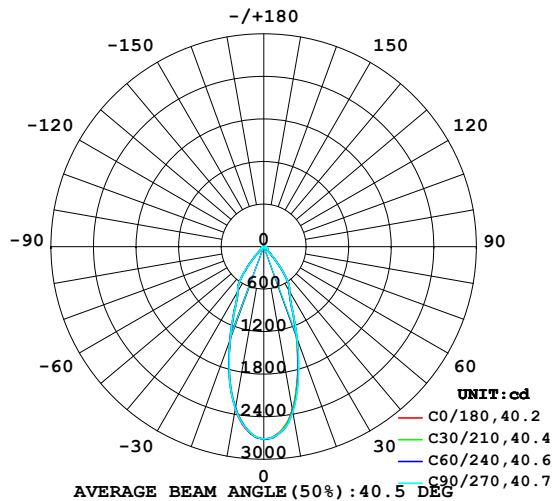


LUMINAIRE PHOTOMETRIC TEST REPORT

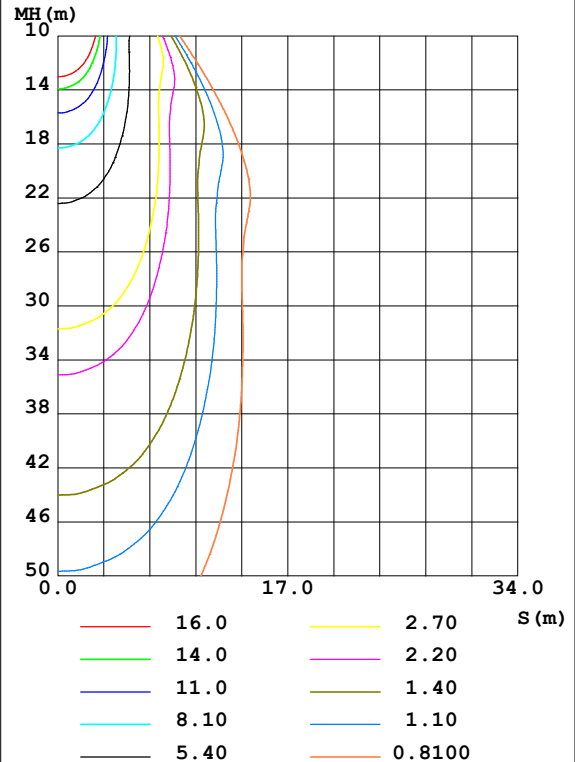
NAME:	TYPE:CRI90 3500K	WEIGHT:
SPEC.:RAD35R-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ55MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 97.13 lm/W
MODEL		Imax(cd)	2715	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)	1740.3	η UP,DN(C0-180)	0.0,49.8	
NOMINAL FLUX(lm)	1740.29	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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2331	2360	2365	2360	2321	2297	2322	2328	0- 10	241.2	241.2	13.9,13.9
20	1347	1366	1383	1382	1385	1394	1394	1364	10- 20	515.4	756.6	43.5,43.5
30	723.2	727.6	728.1	736.7	738.0	736.4	737.3	727.3	20- 30	447.7	1204	69.2,69.2
40	306.4	303.4	297.6	303.0	305.3	305.4	320.0	312.6	30- 40	346.5	1551	89.1,89.1
50	54.52	53.53	53.65	54.61	53.91	53.62	55.01	55.82	40- 50	92.54	1643	94.4,94.4
60	40.33	39.43	38.81	39.03	38.89	39.12	40.18	40.83	50- 60	41.52	1685	96.8,96.8
70	29.30	28.32	27.33	27.33	27.58	28.09	29.15	29.69	60- 70	33.49	1718	98.7,98.7
80	5.931	6.281	6.405	6.730	6.753	6.360	6.264	5.907	70- 80	20.13	1738	99.9,99.9
90	0.1487	0.1458	0.1513	0.1515	0.2643	0.2586	0.2668	0.2590	80- 90	1.898	1740	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 lm

%lum = 92.9%

%lamp = 92.9%

Conical surface Flux(120deg): 1684.8 lm

%lum = 96.8%

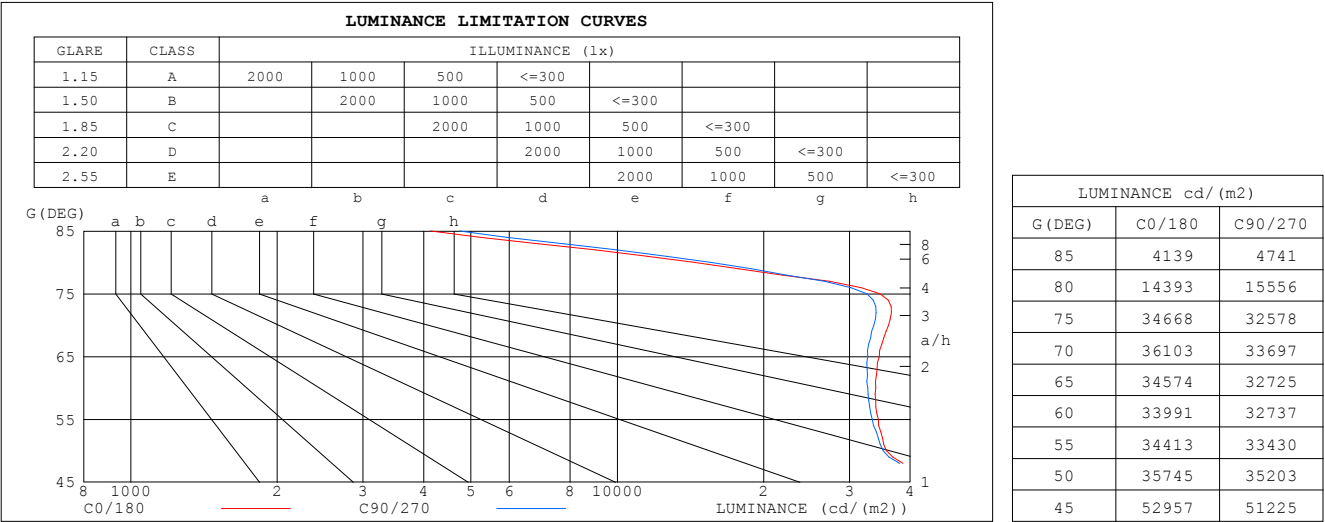
%lamp = 96.8%

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

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 3500K	WEIGHT:
SPEC.:RAD35R-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ55MM	Shielding Angle:



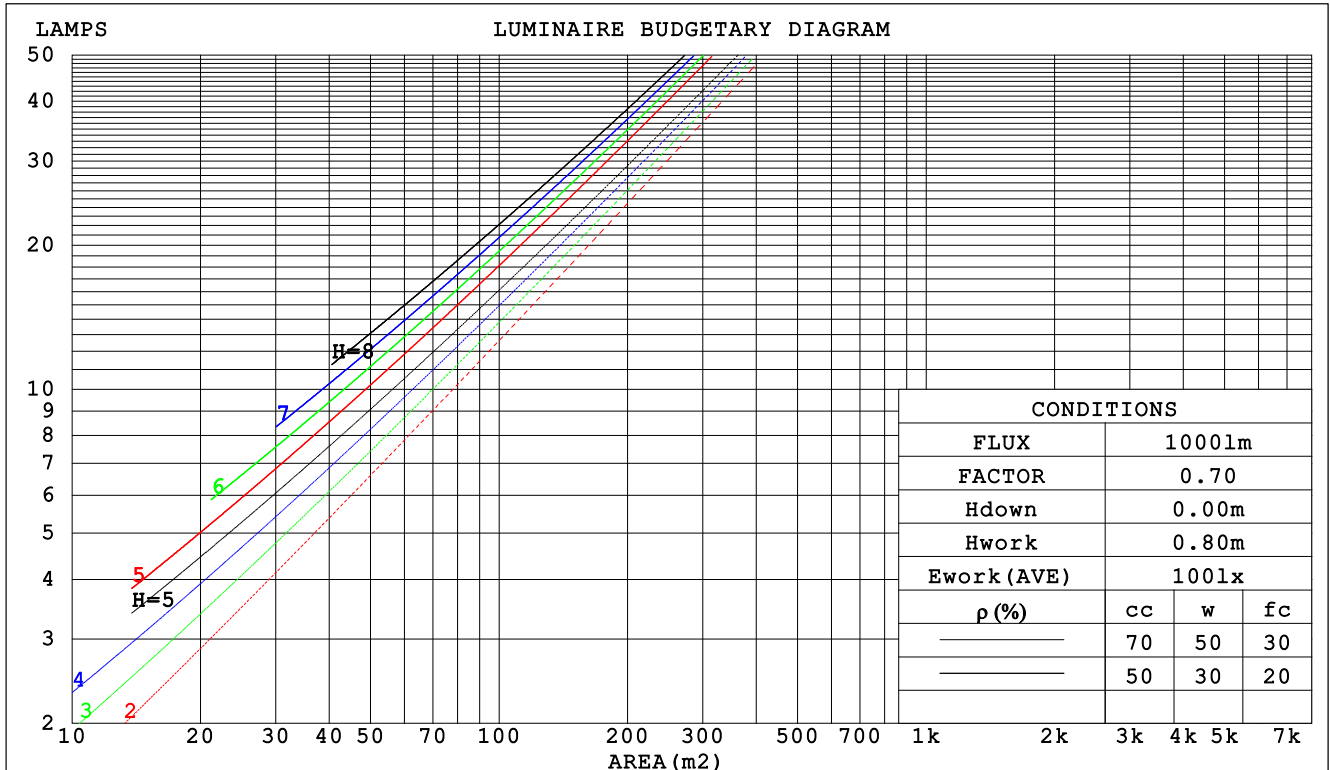
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-06-04

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 3500K	WEIGHT:
SPEC.:RAD35R-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:#55MM	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	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	.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	.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

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 3500K	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 .084 .027	
2.0	.177 .097 .030	.172 .094 .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	.158 .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 .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	.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	.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	.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 3500K			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	22.7	22.0	22.9	23.1	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	23.6	23.8	22.4	23.2	22.6	23.4	23.7
	6H	22.5	23.3	22.8	23.6	23.8	22.4	23.2	22.7	23.5	23.7
	8H	22.5	23.3	22.8	23.5	23.8	22.4	23.1	22.7	23.4	23.7
	12H	22.5	23.2	22.8	23.5	23.7	22.3	23.1	22.7	23.3	23.6
4H	2H	21.8	22.6	22.0	22.8	23.1	21.7	22.6	22.0	22.8	23.0
	3H	22.4	23.2	22.8	23.4	23.7	22.3	23.1	22.6	23.3	23.6
	4H	22.8	23.5	23.2	23.8	24.1	22.7	23.4	23.1	23.7	24.0
	6H	22.9	23.5	23.3	23.9	24.2	22.8	23.4	23.2	23.7	24.1
	8H	22.9	23.4	23.3	23.8	24.2	22.8	23.3	23.2	23.7	24.0
	12H	22.9	23.4	23.3	23.7	24.1	22.7	23.2	23.1	23.6	24.0
8H	4H	22.9	23.5	23.3	23.8	24.2	22.8	23.3	23.2	23.7	24.0
	6H	23.0	23.5	23.4	23.9	24.3	22.9	23.3	23.3	23.7	24.2
	8H	23.0	23.4	23.4	23.8	24.2	22.9	23.3	23.3	23.7	24.1
	12H	22.9	23.3	23.4	23.7	24.2	22.8	23.2	23.3	23.6	24.1
12H	4H	22.9	23.4	23.3	23.7	24.1	22.7	23.2	23.1	23.6	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	23.3	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		+ 2.0 / - 2.3					+ 2.0 / - 2.3				
1.5H		+ 4.1 / - 2.3					+ 4.1 / - 2.2				
2.0H		+ 0.7 / - 0.4					+ 0.7 / - 0.4				

CIE Pub.117, 1740 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 3500K	WEIGHT:
SPEC.:RAD35R-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ55MM	Shielding Angle:

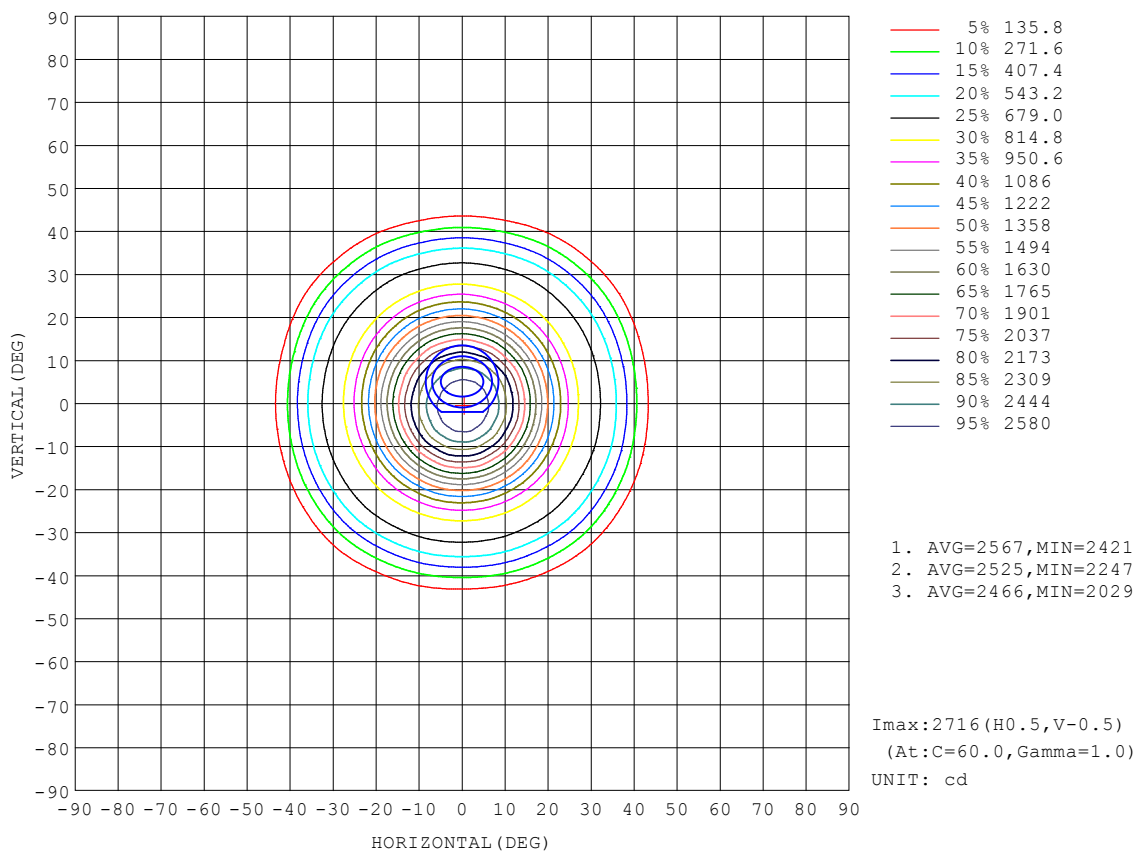
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	85	78	74	84	78	74	84	78	74	70
0.80	92	86	82	92	86	82	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	108	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 3500K	WEIGHT:
SPEC.:RAD35R-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ55MM	Shielding Angle:

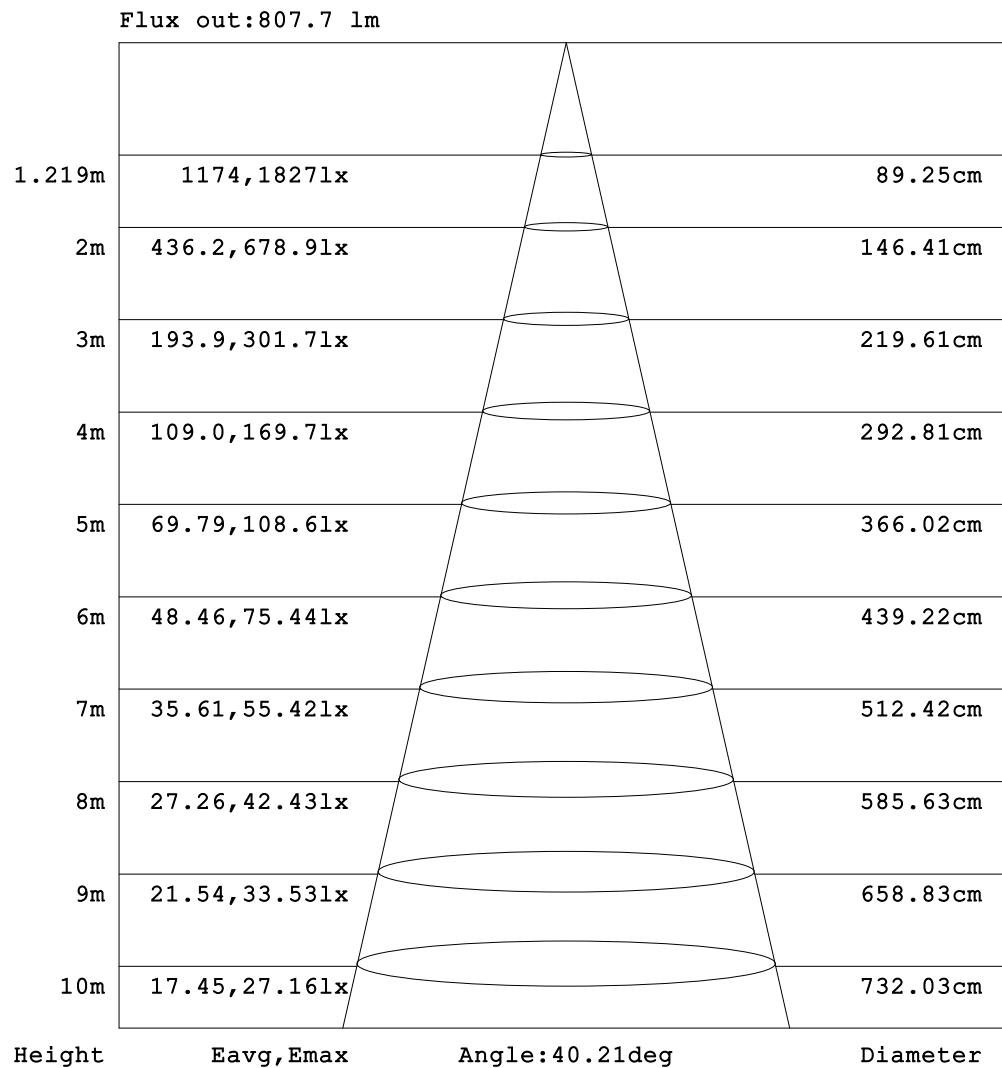


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-06-04

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 3500K	WEIGHT:
SPEC.:RAD35R-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ55MM	Shielding Angle:



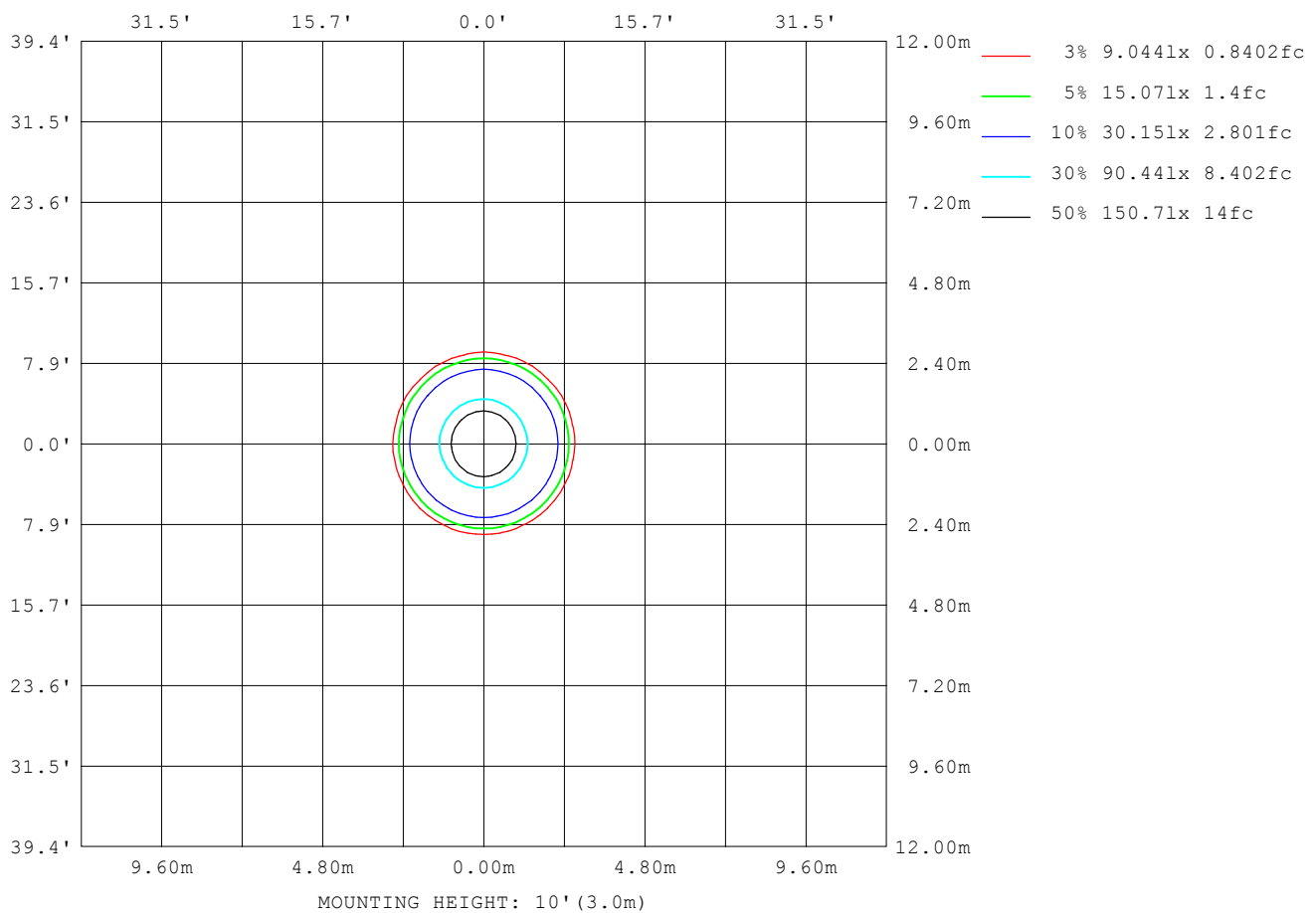
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 3500K	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 3500K	WEIGHT:
SPEC.:RAD35R-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ55MM	Shielding Angle:

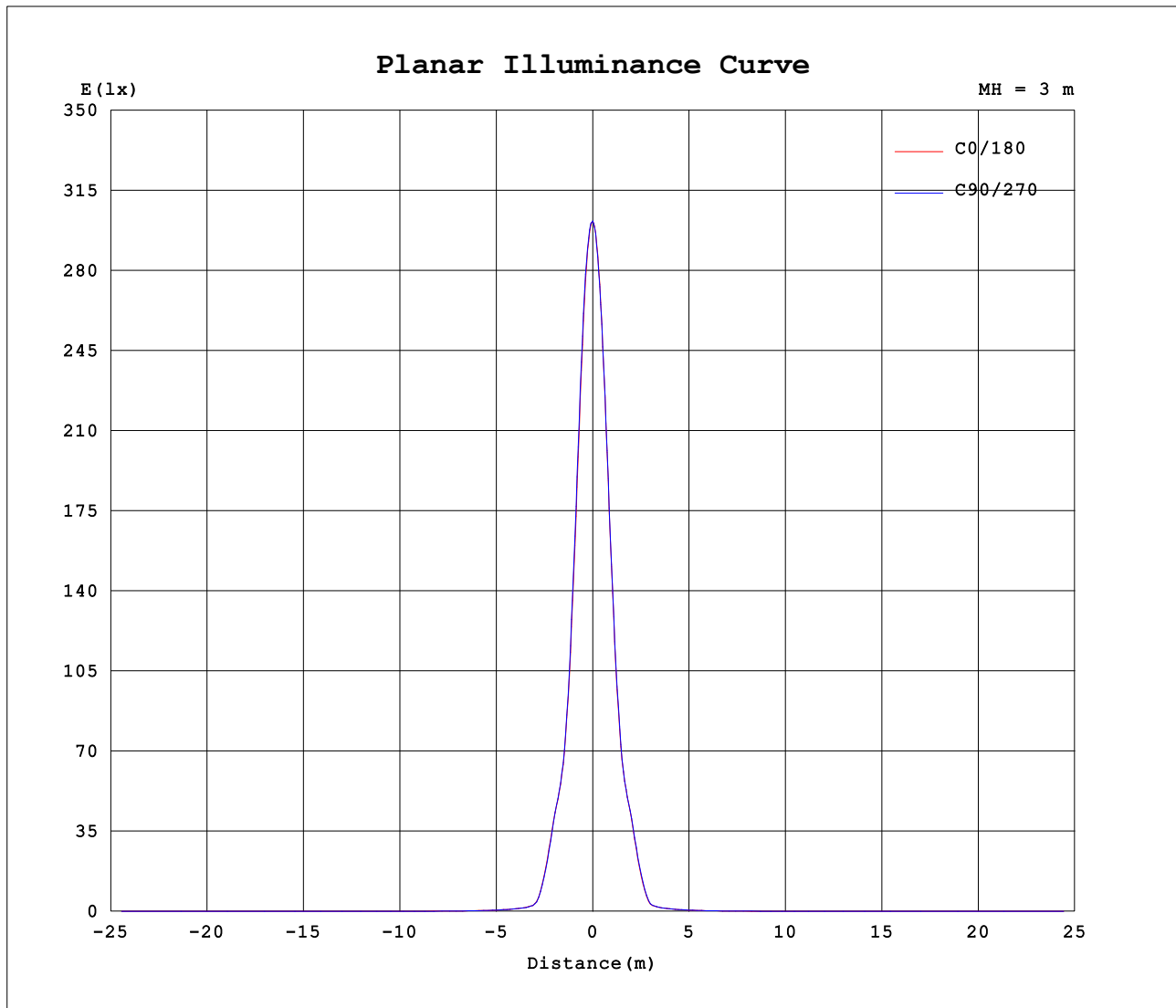
AvgL	cd/m2
L_0~180 (65) av	33737
L_0~180 (75) av	33944
L_0~180 (85) av	4753
L_90~270 (65) av	33596
L_90~270 (75) av	33761
L_90~270 (85) av	4739
L_45 (65) av	33699
L_45 (75) av	33828
L_45 (85) av	4716

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:

```

```

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:

```