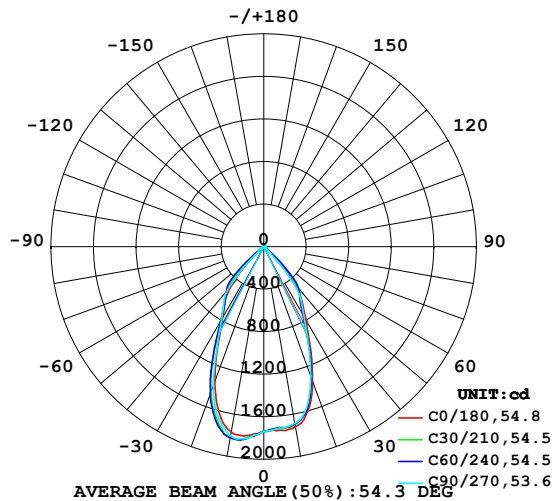


LUMINAIRE PHOTOMETRIC TEST REPORT

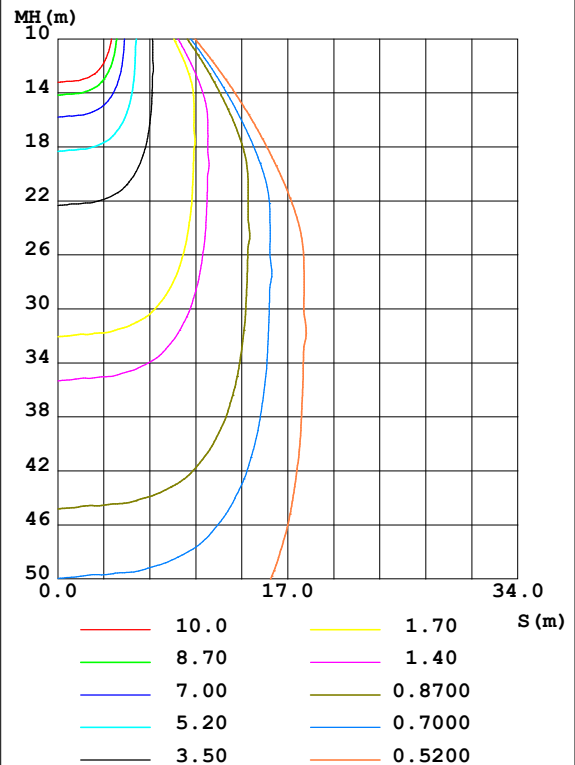
NAME:	TYPE:CRI90 5000K	WEIGHT:
SPEC.:RAD35S-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:56*56MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 92.05 lm/W
MODEL		Imax(cd)	1840	S/MH(C0/180)	0.87	
NOMINAL POWER(W)	23	LOR(%)	100.0	S/MH(C90/270)	0.88	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1765.5	η UP,DN(C0-180)	0.0,47.9	
NOMINAL FLUX(lm)	1765.46	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,52.1	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	0.80	

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	1720	1702	1687	1734	1769	1834	1806	1798	0- 10	168.3	168.3	9.53,9.53
20	1345	1320	1294	1366	1350	1483	1388	1462	10- 20	452.1	620.4	35.1,35.1
30	807.0	739.3	761.1	757.7	776.6	825.8	798.9	815.6	20- 30	482.6	1103	62.5,62.5
40	416.9	525.5	389.6	525.1	456.9	545.4	531.0	543.0	30- 40	394.1	1497	84.8,84.8
50	40.56	157.0	34.10	160.1	48.09	227.1	44.95	210.5	40- 50	218.5	1716	97.2,97.2
60	19.09	13.66	17.58	13.73	19.87	15.49	19.88	15.01	50- 60	29.94	1745	98.9,98.9
70	9.266	7.313	8.569	7.290	9.340	7.449	9.902	7.600	60- 70	12.02	1757	99.5,99.5
80	4.342	3.428	4.120	3.420	4.456	3.887	4.573	3.868	70- 80	6.327	1764	99.9,99.9
90	0.0741	0.0910	0.0713	0.0884	0.1564	0.1930	0.1729	0.1878	80- 90	1.658	1765	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): 1644.6 lm

%lum = 93.2%

%lamp = 93.2%

Conical surface Flux(120deg): 1745.5 lm

%lum = 98.9%

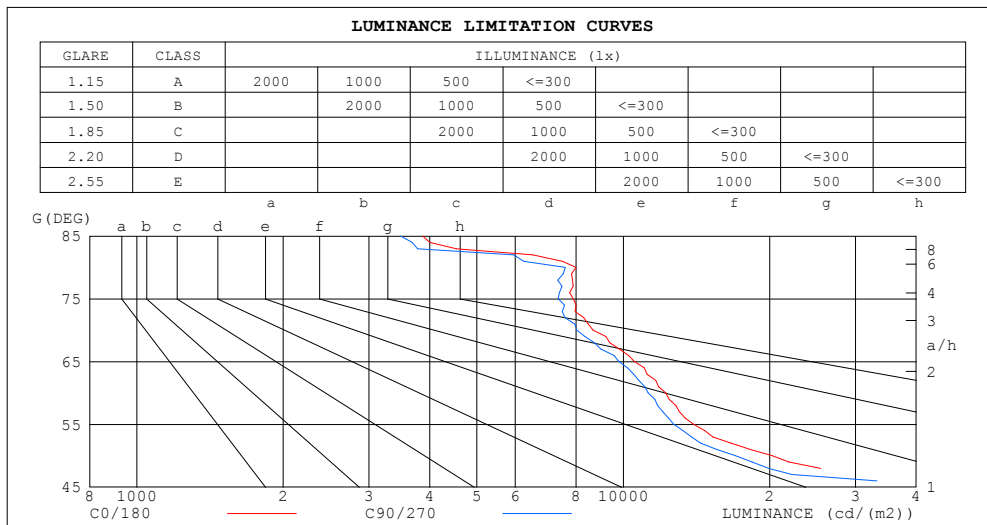
%lamp = 98.9%

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:

LUMINANCE LIMITATION CURVES

NAME:	TYPE:CRI90 5000K	WEIGHT:
SPEC.:RAD35S-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:56*56MM	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3871	3488
80	8003	7594
75	7884	7345
70	8672	8019
65	10535	9793
60	12221	11253
55	13946	12692
50	20198	16981
45	75909	44045

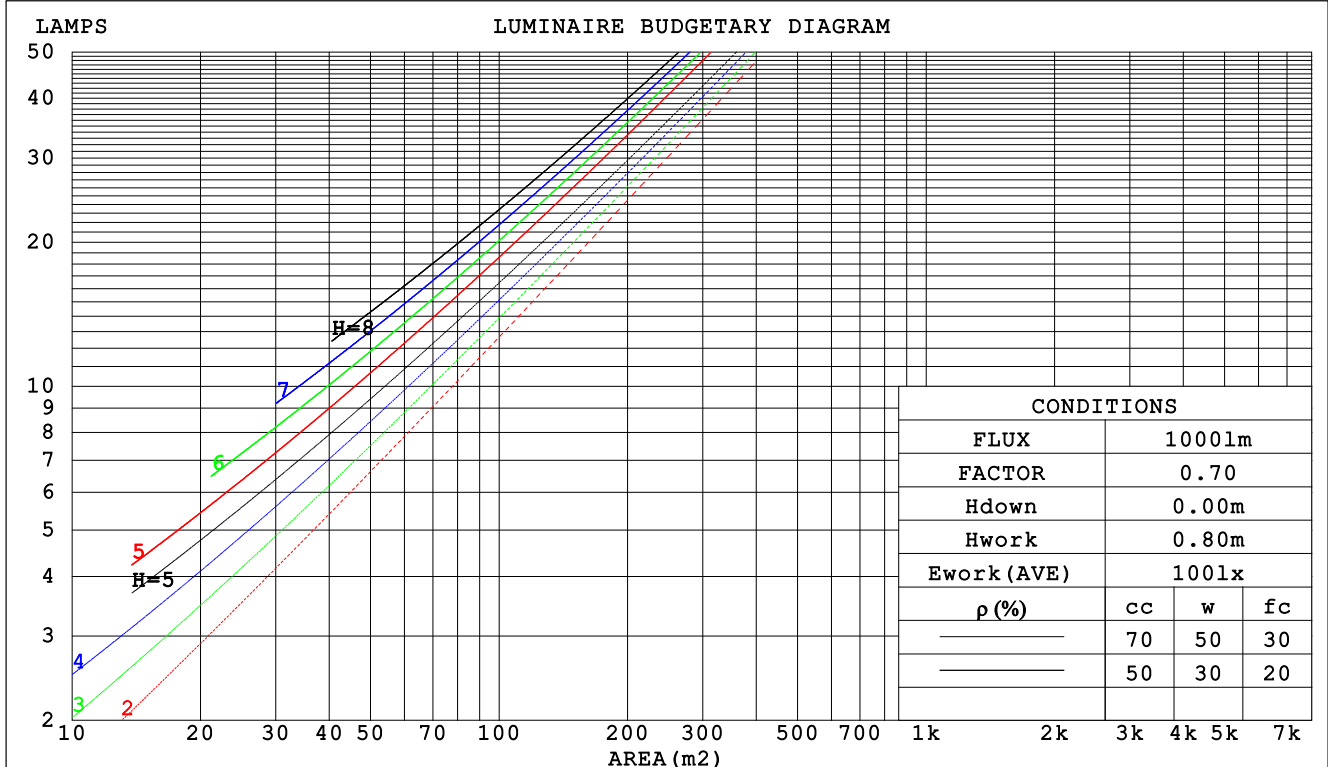
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-06-04

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 5000K	WEIGHT:
SPEC.:RAD35S-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:56*56MM	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	1.00
1.0	1.10	1.08	1.05	1.08	1.06	1.04	1.04	1.02	1.00	1.00	.99	.97	.97	.96	.95	.93
2.0	1.02	.98	.94	1.00	.96	.93	.97	.94	.91	.94	.91	.89	.91	.89	.87	.85
3.0	.94	.89	.85	.93	.88	.84	.90	.86	.83	.88	.84	.82	.86	.83	.80	.79
4.0	.88	.82	.77	.86	.81	.77	.84	.80	.76	.82	.78	.75	.80	.77	.74	.73
5.0	.82	.75	.71	.81	.75	.70	.79	.74	.70	.77	.73	.69	.75	.72	.69	.67
6.0	.76	.70	.65	.75	.69	.65	.74	.68	.65	.72	.68	.64	.71	.67	.64	.62
7.0	.71	.65	.60	.70	.64	.60	.69	.64	.60	.68	.63	.60	.67	.62	.59	.58
8.0	.67	.60	.56	.66	.60	.56	.65	.60	.56	.64	.59	.55	.63	.59	.55	.54
9.0	.63	.56	.52	.62	.56	.52	.61	.56	.52	.60	.55	.52	.59	.55	.52	.50
10.0	.59	.53	.49	.59	.53	.49	.58	.52	.49	.57	.52	.49	.56	.52	.48	.47



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 5000K	WEIGHT:
SPEC.:RAD35S-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:56*56MM	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	.189 .107 .034	.182 .104 .033	.169 .097 .031	.158 .091 .029	.147 .085 .027	
2.0	.182 .100 .031	.176 .097 .030	.166 .092 .029	.156 .087 .027	.147 .083 .026	
3.0	.174 .092 .028	.169 .090 .027	.160 .087 .026	.151 .083 .025	.143 .079 .025	
4.0	.166 .086 .025	.161 .084 .025	.153 .081 .024	.146 .078 .024	.139 .076 .023	
5.0	.158 .080 .023	.154 .079 .023	.147 .077 .023	.141 .074 .022	.135 .072 .022	
6.0	.150 .075 .022	.147 .074 .021	.141 .072 .021	.135 .070 .021	.130 .068 .020	
7.0	.144 .071 .020	.141 .070 .020	.135 .068 .020	.130 .067 .019	.125 .065 .019	
8.0	.137 .067 .019	.135 .066 .019	.130 .065 .019	.125 .063 .018	.121 .062 .018	
9.0	.131 .063 .018	.129 .063 .018	.124 .062 .017	.120 .060 .017	.116 .059 .017	
10.0	.126 .060 .017	.124 .060 .017	.120 .059 .016	.116 .057 .016	.112 .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 .144	.147 .135 .124	.101 .093 .086	.058 .054 .050	.019 .017 .016	
2.0	.158 .132 .111	.135 .114 .096	.092 .079 .067	.053 .046 .039	.017 .015 .013	
3.0	.146 .114 .088	.125 .098 .076	.086 .068 .053	.050 .040 .032	.016 .013 .010	
4.0	.136 .099 .071	.117 .086 .061	.080 .060 .043	.047 .035 .026	.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	.115 .071 .041	.099 .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 .056 .027	.086 .048 .023	.059 .034 .016	.035 .020 .010	.011 .007 .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 5000K			WEIGHT:			
SPEC.:RAD35S-23-CCT					DIM.:			SERIAL No.:1			
MFR.:					SUR.:56*56MM			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	22.3	23.4	22.6	23.5	23.7	22.2	23.2	22.4	23.4	23.6
	3H	22.2	23.1	22.5	23.4	23.6	22.0	23.0	22.3	23.2	23.4
	4H	22.1	23.0	22.4	23.3	23.5	22.0	22.9	22.3	23.1	23.3
	6H	22.1	22.9	22.4	23.2	23.4	21.9	22.7	22.2	23.0	23.2
	8H	22.0	22.8	22.4	23.1	23.4	21.9	22.7	22.2	22.9	23.2
	12H	22.0	22.8	22.3	23.0	23.3	21.8	22.6	22.2	22.9	23.1
4H	2H	22.1	23.0	22.4	23.2	23.4	21.9	22.8	22.2	23.0	23.3
	3H	22.0	22.7	22.3	23.0	23.3	21.8	22.6	22.1	22.8	23.1
	4H	21.9	22.6	22.3	22.9	23.2	21.8	22.4	22.1	22.7	23.1
	6H	21.9	22.5	22.2	22.8	23.1	21.7	22.3	22.1	22.6	23.0
	8H	21.8	22.4	22.2	22.7	23.1	21.7	22.2	22.1	22.6	22.9
	12H	21.8	22.3	22.2	22.7	23.1	21.6	22.1	22.0	22.5	22.9
8H	4H	21.8	22.3	22.2	22.7	23.1	21.6	22.2	22.0	22.5	22.9
	6H	21.7	22.2	22.2	22.6	23.0	21.6	22.0	22.0	22.4	22.8
	8H	21.7	22.1	22.2	22.5	23.0	21.5	22.0	22.0	22.4	22.8
	12H	21.7	22.0	22.1	22.5	22.9	21.5	21.8	22.0	22.3	22.8
12H	4H	21.7	22.3	22.2	22.6	23.0	21.6	22.1	22.0	22.5	22.9
	6H	21.7	22.1	22.1	22.5	23.0	21.5	21.9	22.0	22.4	22.8
	8H	21.7	22.0	22.1	22.5	22.9	21.5	21.8	22.0	22.3	22.8
Variations with the observer position at spacings:											
S = 1.0H		+ 2.6 / - 9.5					+ 2.9 / -10.0				
1.5H		+ 3.8 / - 9.6					+ 4.0 / - 9.7				
2.0H		+ 5.6 / - 4.4					+ 4.7 / - 3.5				

CIE Pub.117, 1765 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 2.0$)

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:

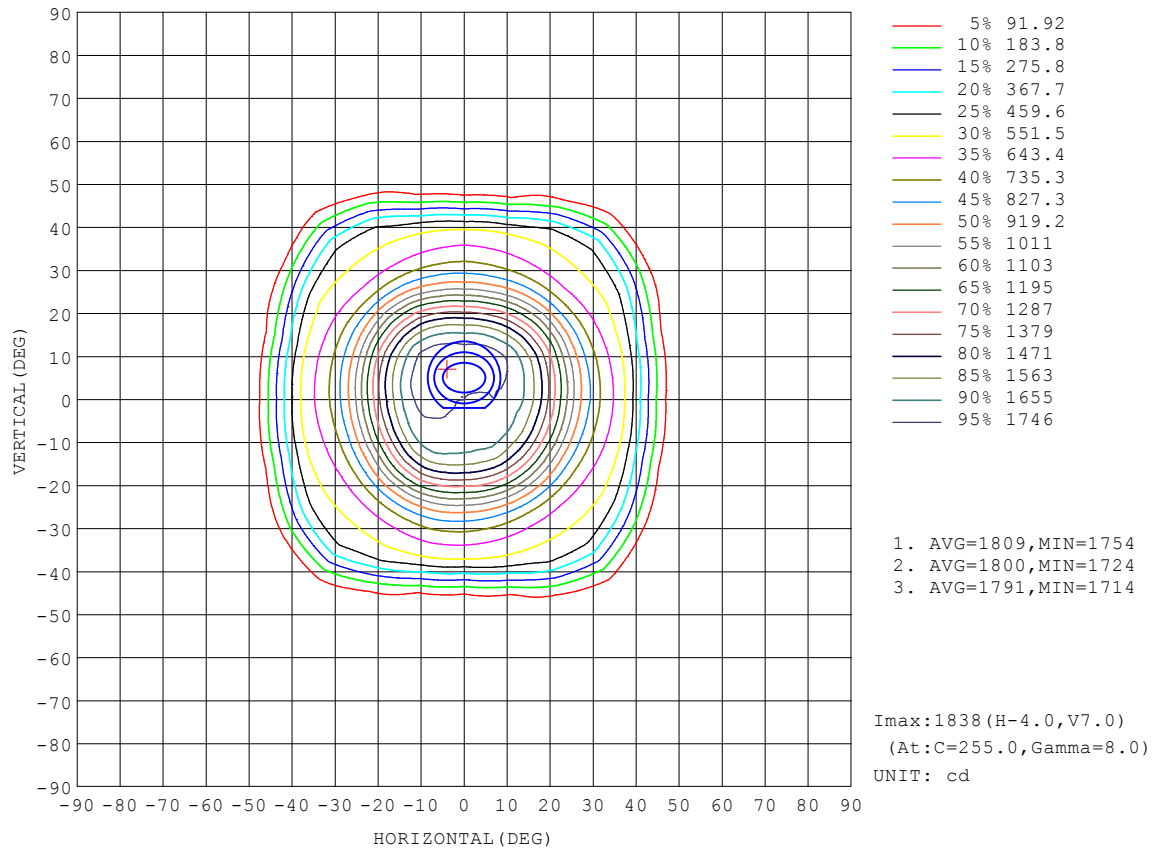
```

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:

```

ISOCANDELA DIAGRAM

NAME:	TYPE:CRI90 5000K	WEIGHT:
SPEC.:RAD35S-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:56*56MM	Shielding Angle:

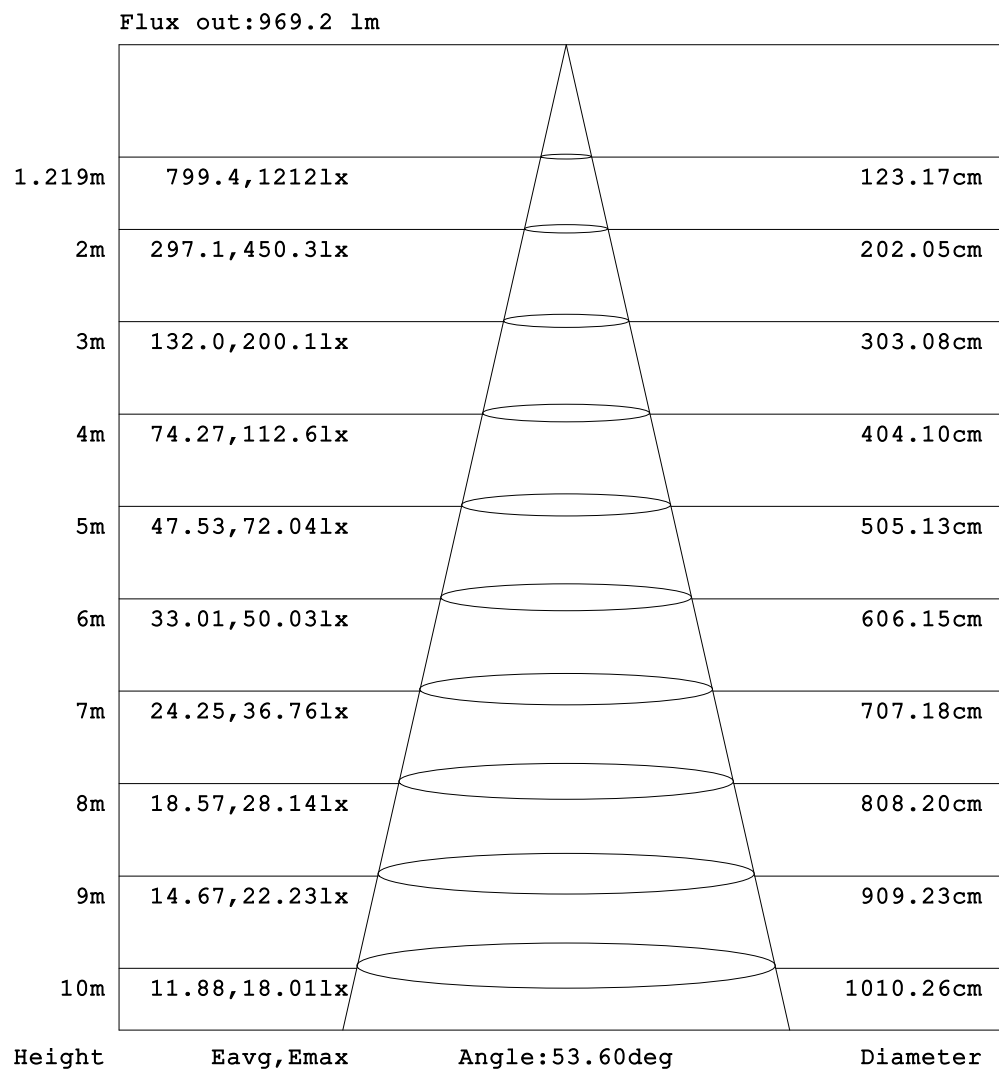


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-06-04

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 5000K	WEIGHT:
SPEC.:RAD35S-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:56*56MM	Shielding Angle:



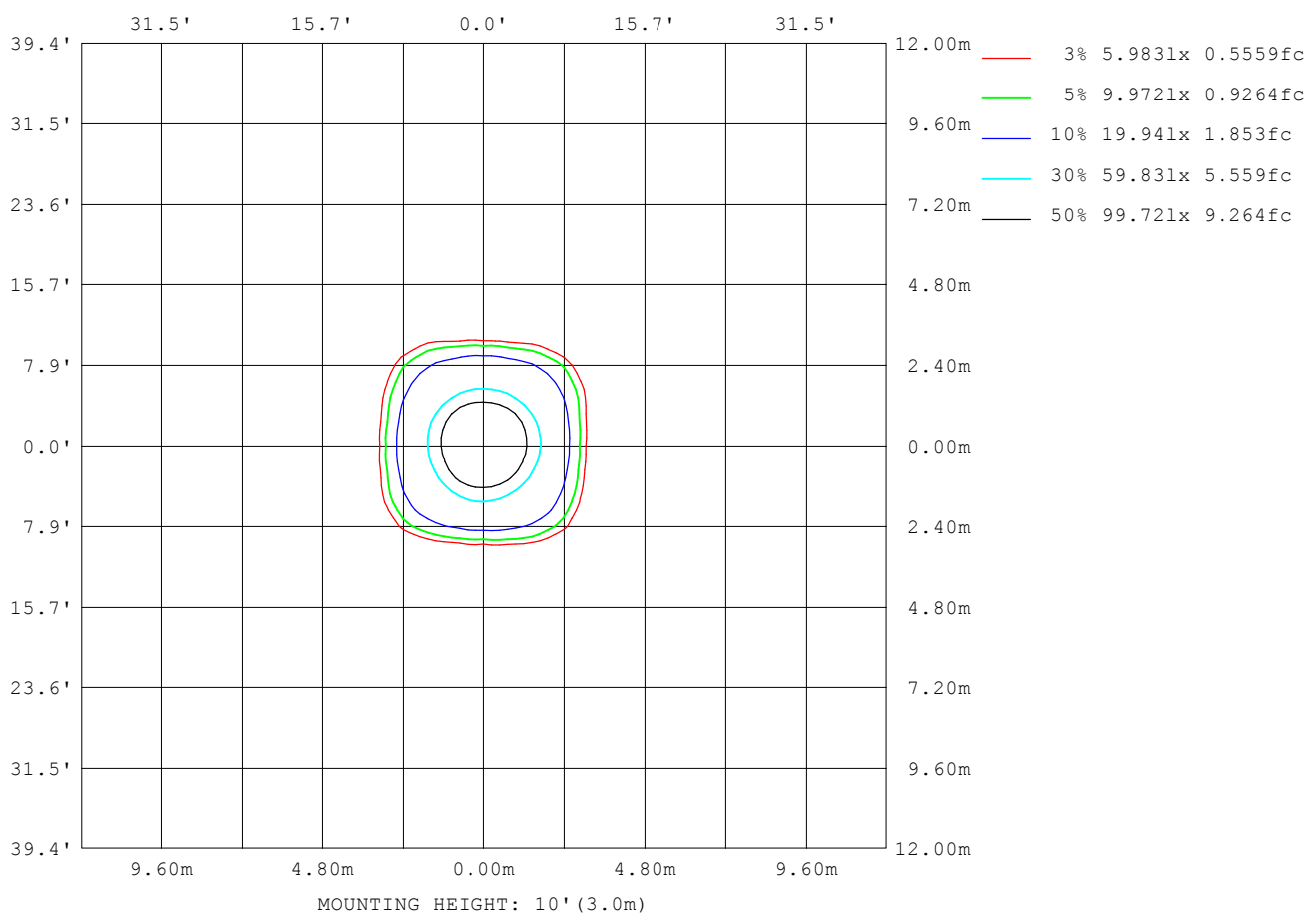
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 5000K	WEIGHT:
SPEC.:RAD35S-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:56*56MM	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 5000K	WEIGHT:
SPEC.:RAD35S-23-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:56*56MM	Shielding Angle:

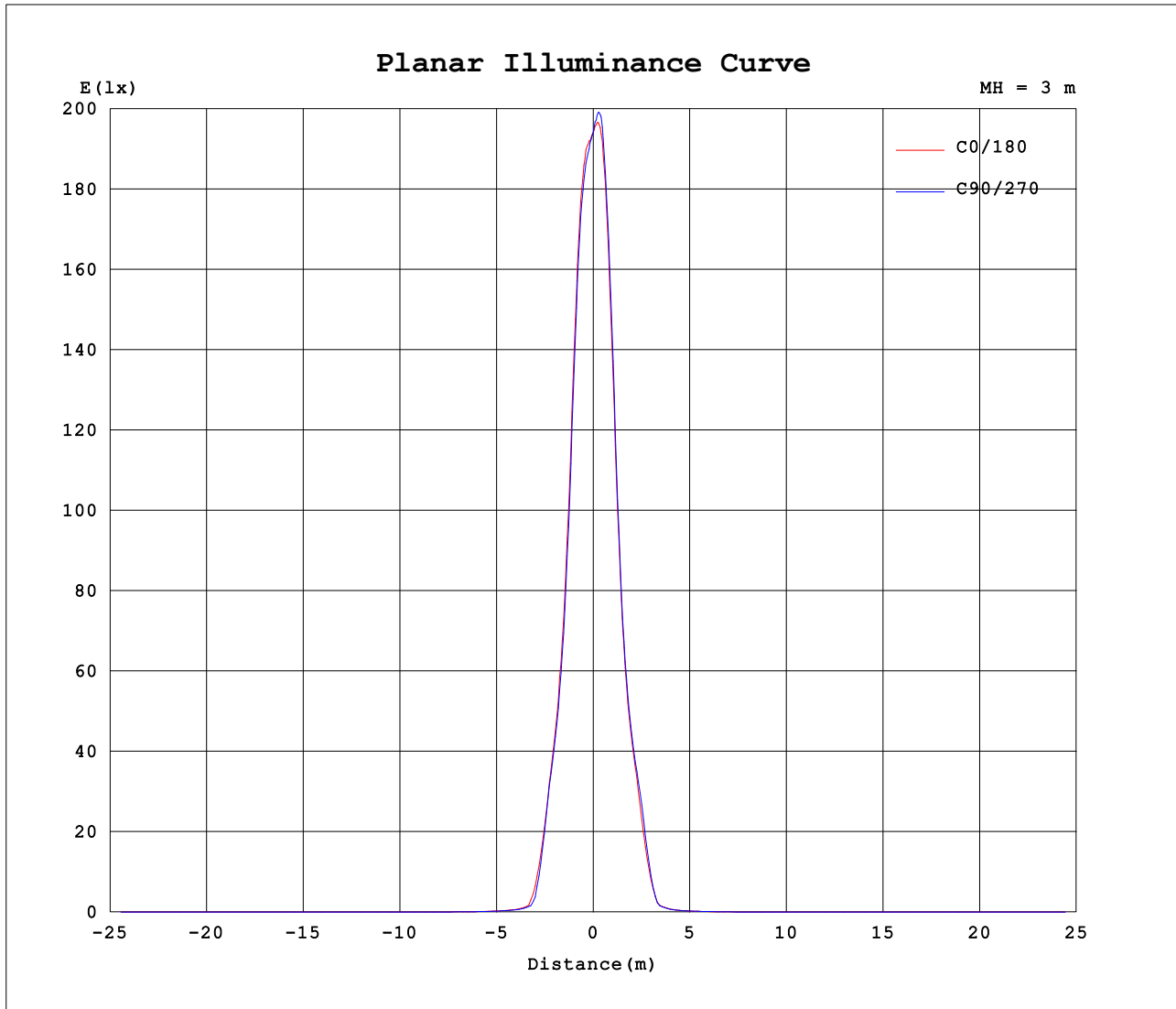
AvgL	cd/m2
L_0~180 (65) av	10614
L_0~180 (75) av	7876
L_0~180 (85) av	3981
L_90~270 (65) av	10513
L_90~270 (75) av	7754
L_90~270 (85) av	3810
L_45 (65) av	7516
L_45 (75) av	7067
L_45 (85) av	3907

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:

```