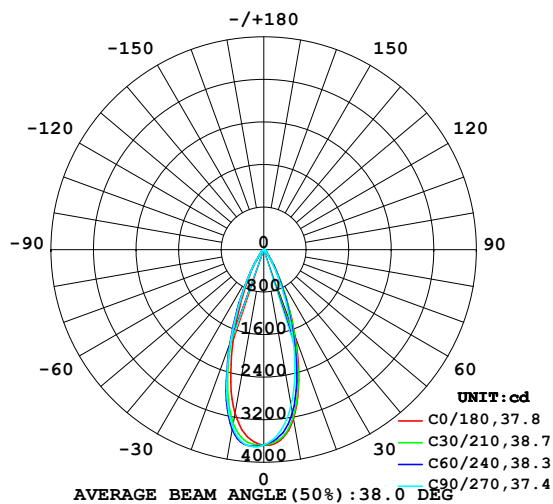


LUMINAIRE PHOTOMETRIC TEST REPORT

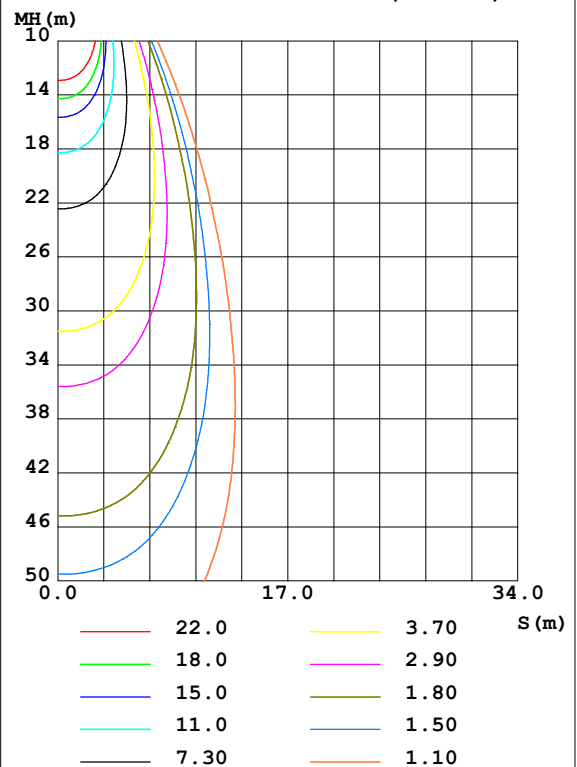
NAME: RAD-5-CCT-120-36-BK/BK-LT	TYPE: CRI90 5000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:187*35MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 118.15 lm/W			
MODEL		I _{max} (cd)	3712	S/MH (C0/180)	0.60
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH (C90/270)	0.63
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1682.7	η UP,DN (C0-180)	0.0,47.6
NOMINAL FLUX(lm)	1682.72	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,52.4
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: CHEN
Test Date: 2026-06-25

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	3223	3179	2968	2973	3123	3383	3389	3250	0- 10	328.6	328.6	19.5,19.5
20	1719	1638	1482	1436	1593	1827	1821	1690	10- 20	674.4	1003	59.6,59.6
30	525.2	505.5	430.2	428.1	484.9	558.2	547.9	517.1	20- 30	444.5	1448	86,86
40	126.8	117.7	96.20	94.71	114.8	129.9	120.5	112.6	30- 40	159.5	1607	95.5,95.5
50	39.14	38.58	32.55	33.36	37.97	41.10	38.90	36.66	40- 50	50.41	1657	98.5,98.5
60	8.983	12.37	7.777	11.10	9.493	12.99	8.774	12.29	50- 60	19.53	1677	99.7,99.7
70	1.867	1.967	1.419	1.759	1.993	2.097	1.830	2.026	60- 70	5.043	1682	100,100
80	0.0880	0.0764	0.0842	0.0763	0.1797	0.1665	0.2436	0.2045	70- 80	0.5585	1683	100,100
90	0.0765	0.0764	0.0765	0.0763	0.1797	0.1796	0.1835	0.1831	80- 90	0.1391	1683	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): 1638.1 lm

%lum = 97.3%

%lamp = 97.3%

Conical surface Flux(120deg): 1677 lm

%lum = 99.7%

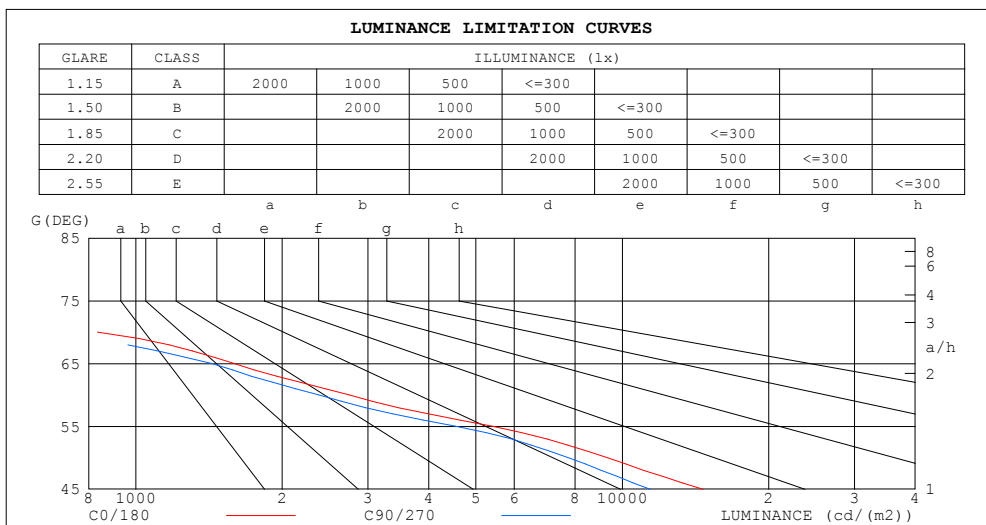
%lamp = 99.7%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CHEN
Test Date:2026-06-25

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: RAD-5-CCT-120-36-BK/BK-LT	TYPE:CRI90 5000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:187*35MM	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	134	134
80	77	74
75	66	59
70	834	634
65	1593	1433
60	2745	2376
55	5410	4544
50	9301	7736
45	14659	11412

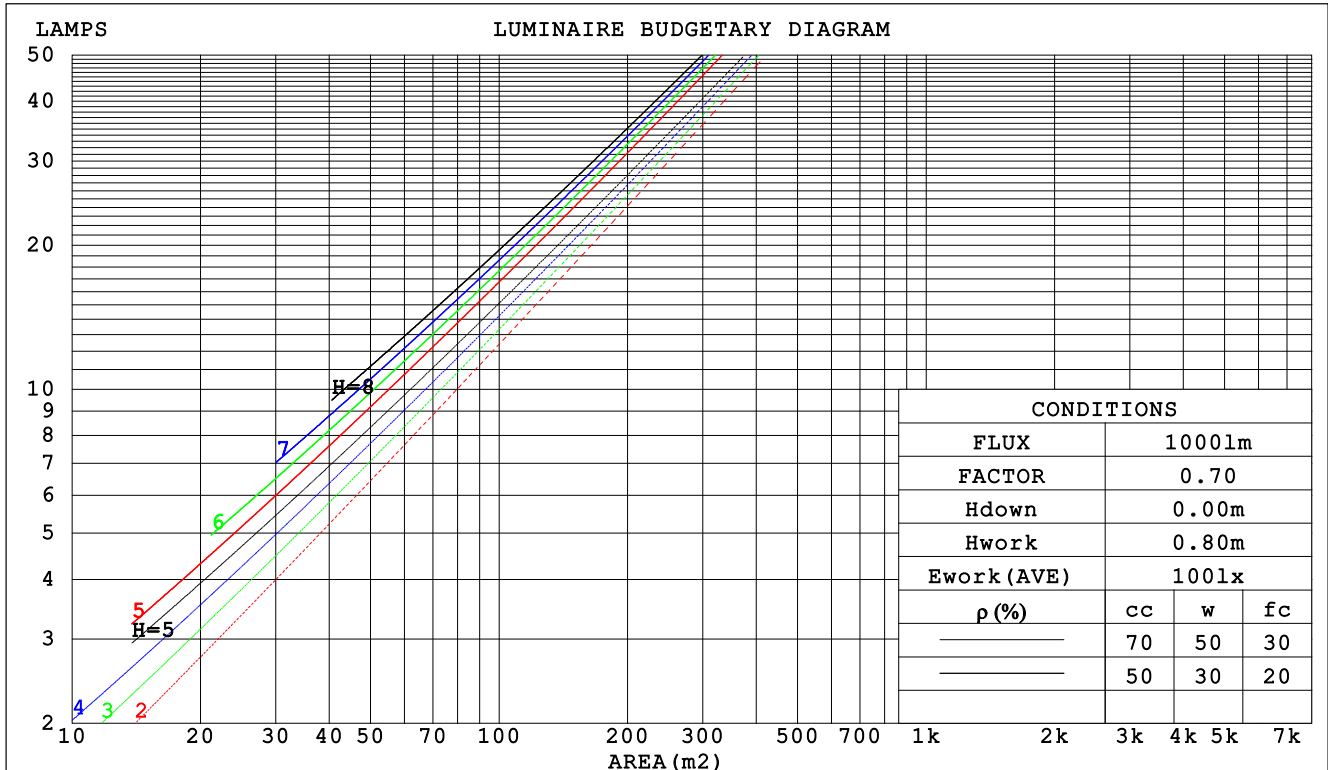
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CHEN
Test Date:2026-06-25

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: RAD-5-CCT-120-36-BK/BK-LT	TYPE:CRI90 5000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:187*35MM	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	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97	.95
2.0	1.05	1.02	.99	1.04	1.00	.98	1.00	.98	.96	.97	.95	.94	.95	.93	.92	.90
3.0	.99	.95	.92	.98	.94	.91	.96	.92	.90	.93	.90	.88	.91	.89	.87	.85
4.0	.94	.90	.86	.93	.89	.85	.91	.87	.84	.89	.86	.83	.87	.85	.83	.81
5.0	.90	.85	.81	.89	.84	.81	.87	.83	.80	.85	.82	.79	.84	.81	.78	.77
6.0	.85	.80	.77	.85	.80	.76	.83	.79	.76	.82	.78	.75	.81	.77	.75	.74
7.0	.81	.76	.73	.81	.76	.73	.80	.75	.72	.78	.75	.72	.77	.74	.71	.70
8.0	.78	.73	.69	.77	.72	.69	.76	.72	.69	.75	.71	.69	.74	.71	.68	.67
9.0	.75	.70	.66	.74	.69	.66	.73	.69	.66	.72	.68	.66	.72	.68	.65	.64
10.0	.72	.67	.63	.71	.66	.63	.70	.66	.63	.70	.66	.63	.69	.65	.63	.62



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CHEN
Test Date:2026-06-25

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: RAD-5-CCT-120-36-BK/BK-LT	TYPE:CRI90 5000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:187*35MM	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	.158	.090	.028	.151	.086	.027	.139	.080	.025	.127	.073	.024	.117	.068	.022		
2.0	.149	.082	.025	.144	.079	.024	.133	.074	.023	.124	.069	.022	.115	.065	.020		
3.0	.141	.075	.022	.136	.073	.022	.128	.069	.021	.120	.066	.020	.112	.062	.019		
4.0	.134	.069	.020	.130	.068	.020	.122	.065	.019	.115	.062	.019	.109	.059	.018		
5.0	.127	.065	.019	.124	.063	.018	.117	.061	.018	.111	.059	.017	.105	.056	.017		
6.0	.121	.061	.017	.118	.060	.017	.112	.058	.017	.107	.056	.016	.102	.054	.016		
7.0	.115	.057	.016	.113	.056	.016	.108	.054	.016	.103	.053	.015	.099	.051	.015		
8.0	.110	.054	.015	.108	.053	.015	.104	.052	.015	.099	.050	.015	.096	.049	.014		
9.0	.106	.051	.014	.104	.051	.014	.100	.049	.014	.096	.048	.014	.093	.047	.014		
10.0	.101	.049	.014	.100	.048	.013	.096	.047	.013	.093	.046	.013	.090	.045	.013		

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	.170	.157	.146	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016		
2.0	.153	.133	.115	.131	.114	.100	.090	.079	.069	.052	.046	.041	.017	.015	.013		
3.0	.140	.113	.093	.120	.098	.080	.082	.068	.056	.047	.040	.033	.015	.013	.011		
4.0	.128	.098	.076	.110	.085	.066	.076	.059	.046	.044	.035	.027	.014	.011	.009		
5.0	.119	.086	.063	.102	.075	.054	.070	.052	.038	.041	.031	.023	.013	.010	.008		
6.0	.111	.077	.052	.095	.067	.046	.066	.047	.032	.038	.027	.019	.012	.009	.006		
7.0	.104	.069	.045	.089	.060	.039	.062	.042	.028	.036	.025	.016	.012	.008	.005		
8.0	.098	.063	.038	.084	.054	.033	.058	.038	.024	.034	.022	.014	.011	.007	.005		
9.0	.093	.057	.033	.080	.050	.029	.055	.035	.021	.032	.021	.012	.010	.007	.004		
10.0	.088	.053	.029	.076	.046	.025	.053	.032	.018	.031	.019	.011	.010	.006	.004		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CHEN
Test Date:2026-06-25

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: RAD-5-CCT-120-36-BK/BK-LT					TYPE:CRI90 5000K					WEIGHT:				
SPEC.:					DIM.:					SERIAL No.:1				
MFR.:					SUR.:187*35MM					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					13.5	14.3	13.7	14.5	14.6	12.4	13.2	12.6	13.4	13.6
3H					13.4	14.1	13.6	14.3	14.5	12.3	13.0	12.5	13.2	13.4
4H					13.3	14.0	13.6	14.2	14.4	12.2	12.9	12.5	13.1	13.4
6H					13.2	13.9	13.5	14.1	14.3	12.1	12.8	12.4	13.0	13.3
8H					13.2	13.8	13.5	14.0	14.3	12.1	12.7	12.4	13.0	13.2
12H					13.1	13.7	13.4	14.0	14.3	12.0	12.7	12.4	12.9	13.2
4H 2H					13.3	14.0	13.6	14.2	14.5	12.3	13.0	12.5	13.2	13.4
3H					13.2	13.8	13.5	14.1	14.3	12.1	12.7	12.4	13.0	13.3
4H					13.1	13.6	13.4	13.9	14.2	12.0	12.6	12.4	12.9	13.2
6H					13.0	13.5	13.4	13.8	14.1	11.9	12.4	12.3	12.8	13.1
8H					12.9	13.4	13.3	13.7	14.1	11.9	12.3	12.3	12.7	13.1
12H					12.9	13.3	13.3	13.7	14.1	11.8	12.2	12.2	12.6	13.0
8H 4H					12.9	13.4	13.3	13.7	14.1	11.9	12.3	12.3	12.7	13.1
6H					12.8	13.2	13.2	13.6	14.0	11.8	12.2	12.2	12.5	13.0
8H					12.8	13.1	13.2	13.5	14.0	11.7	12.1	12.2	12.5	12.9
12H					12.7	13.0	13.2	13.4	13.9	11.7	11.9	12.1	12.4	12.9
12H 4H					12.9	13.3	13.3	13.7	14.1	11.8	12.3	12.2	12.6	13.0
6H					12.8	13.1	13.2	13.5	14.0	11.7	12.1	12.2	12.5	12.9
8H					12.7	13.0	13.2	13.4	13.9	11.7	11.9	12.1	12.4	12.9
Variations with the observer position at spacings:														
S = 1.0H					+ 3.0 / - 7.1					+ 2.6 / - 6.7				
1.5H					+ 4.3 / - 4.1					+ 3.8 / - 3.5				
2.0H					+ 4.5 / - 6.7					+ 3.9 / - 5.9				

CIE Pub.117, 1683 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.8$)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:CHEN
 Test Date:2026-06-25

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: RAD-5-CCT-120-36-BK/BK-LT	TYPE:CRI90 5000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:187*35MM	Shielding Angle:

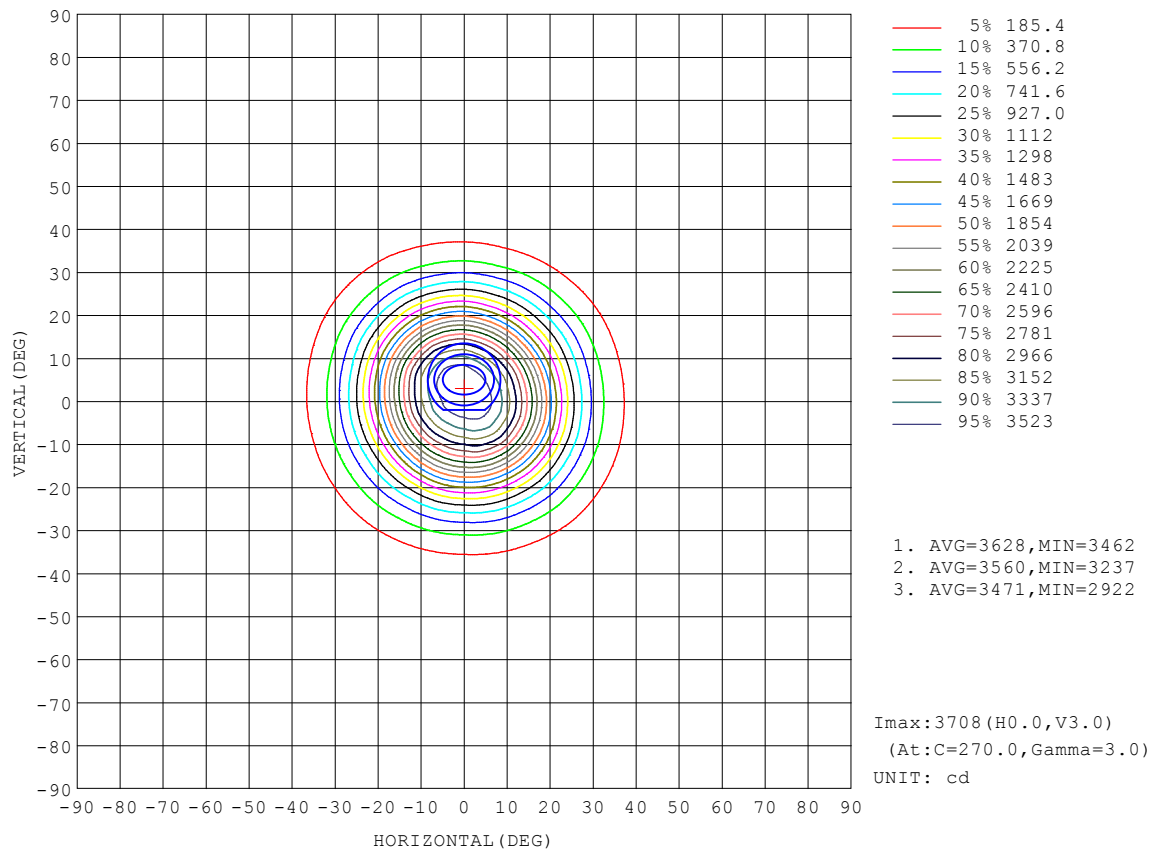
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	79	88	82	79	87	82	79	75
0.80	96	90	87	95	90	87	94	89	86	83
1.00	100	95	91	99	94	91	98	94	91	87
1.25	104	99	96	103	99	95	101	97	95	91
1.50	107	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	103	101	96
3.00	112	109	106	110	108	105	107	105	103	97
4.00	114	111	109	112	110	108	109	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
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: CHEN
 Test Date: 2026-06-25

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: RAD-5-CCT-120-36-BK/BK-LT	TYPE:CRI90 5000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:187*35MM	Shielding Angle:

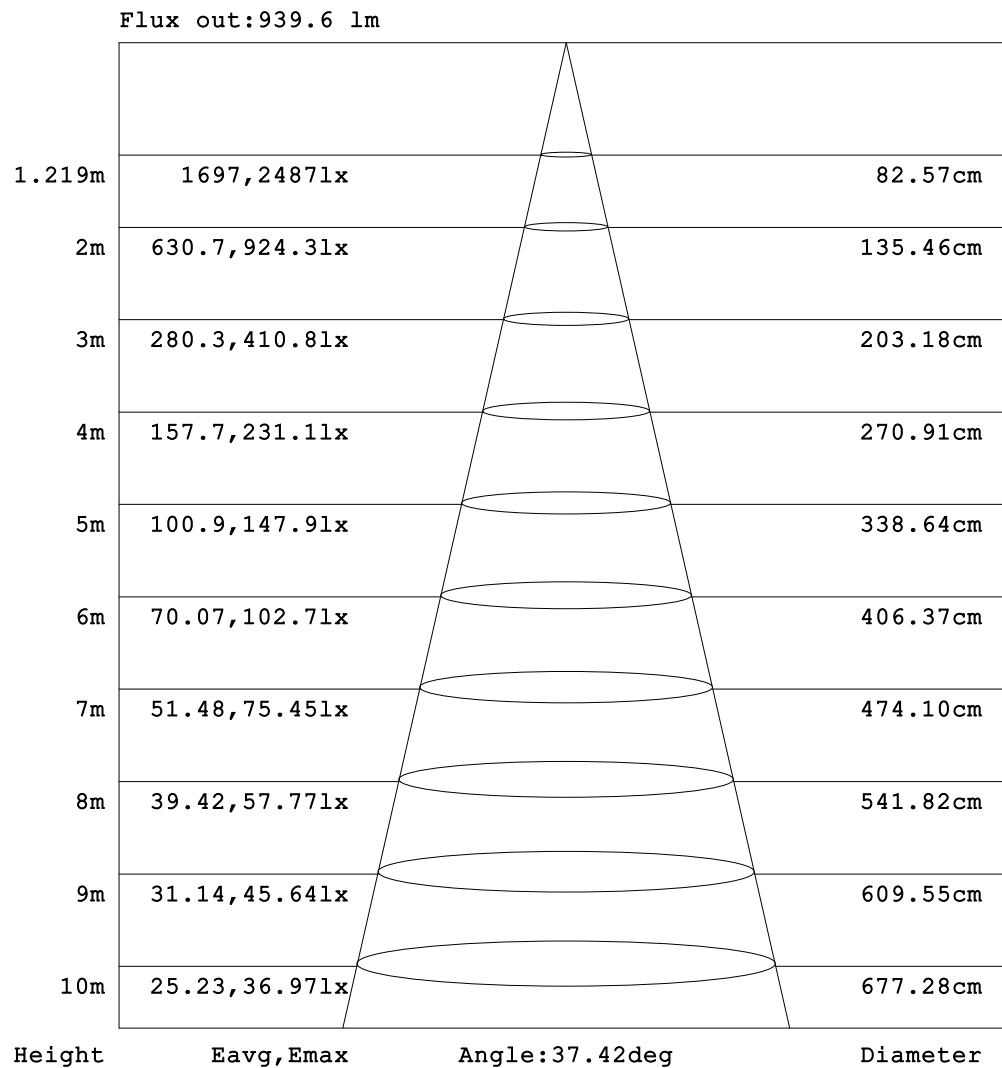


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CHEN
Test Date:2026-06-25

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: RAD-5-CCT-120-36-BK/BK-LT	TYPE:CRI90 5000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:187*35MM	Shielding Angle:



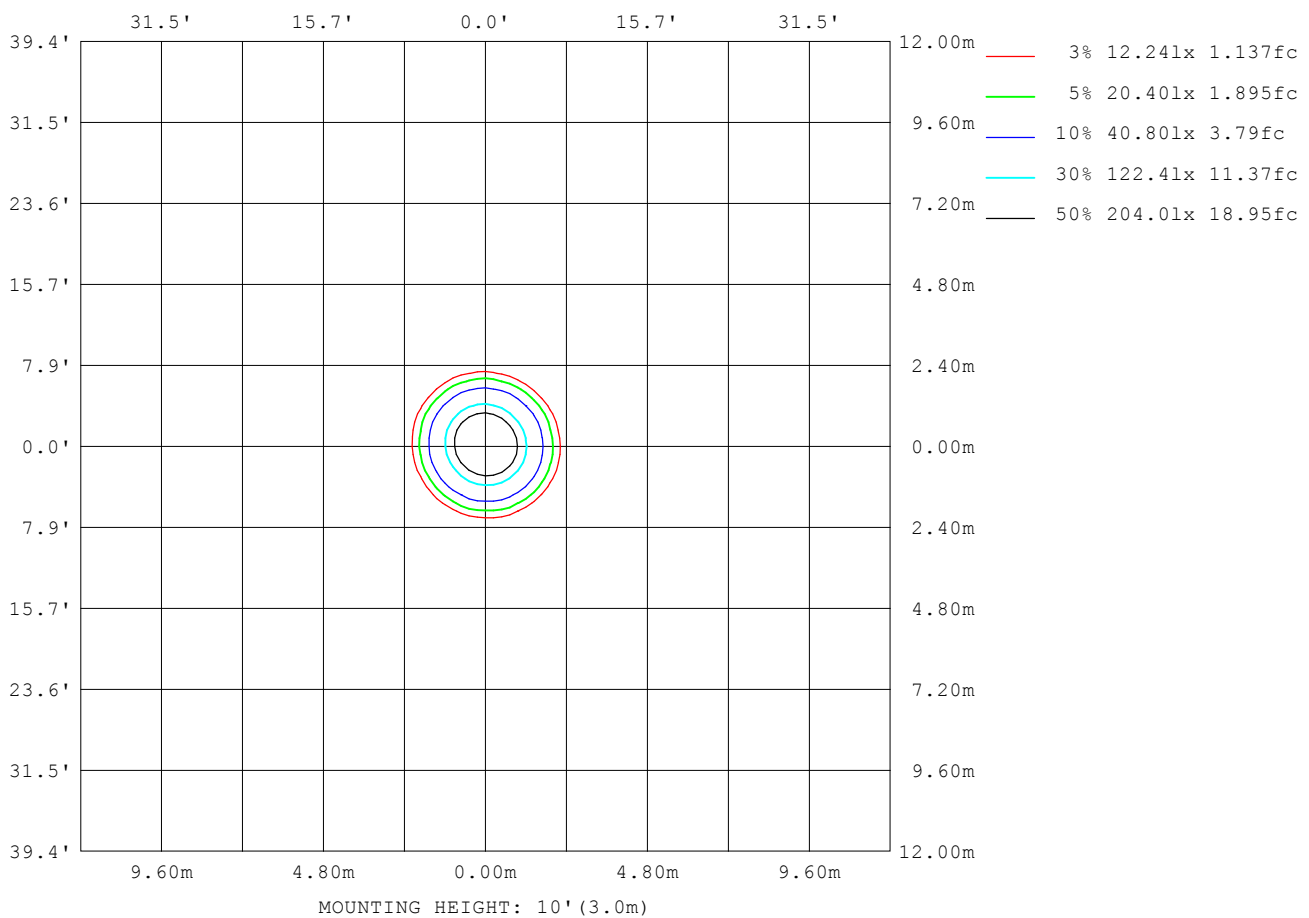
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: CHEN
 Test Date: 2026-06-25

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: RAD-5-CCT-120-36-BK/BK-LT	TYPE:CRI90 5000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:187*35MM	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CHEN
Test Date:2026-06-25

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: RAD-5-CCT-120-36-BK/BK-LT	TYPE:CRI90 5000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:187*35MM	Shielding Angle:

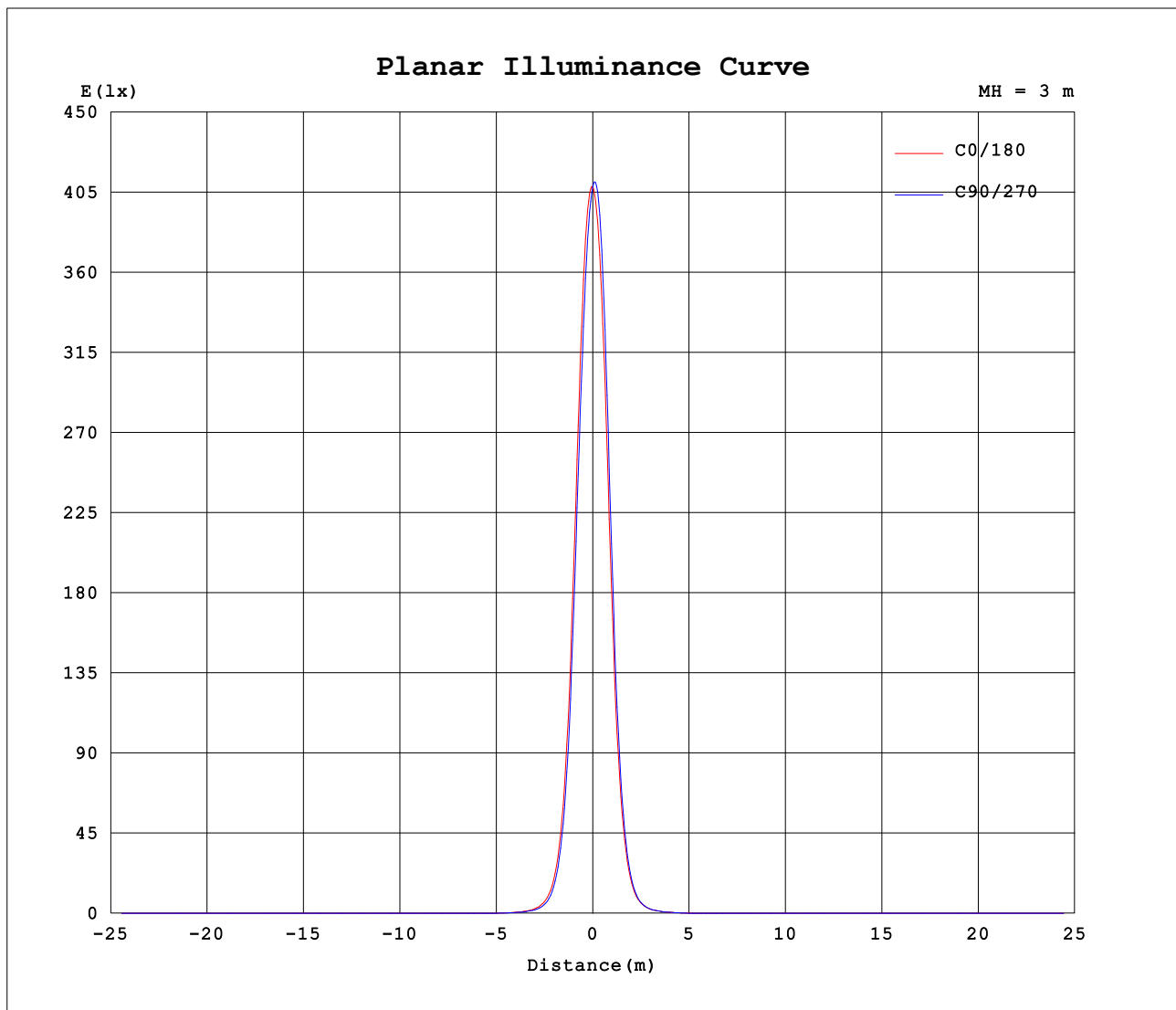
AvgL	cd/m2
L_0~180 (65) av	1635
L_0~180 (75) av	162
L_0~180 (85) av	225
L_90~270 (65) av	1547
L_90~270 (75) av	184
L_90~270 (85) av	225
L_45 (65) av	1806
L_45 (75) av	187
L_45 (85) av	226

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CHEN
Test Date:2026-06-25

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: CHEN
Test Date: 2026-06-25

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: RAD-5-CCT-120-36-BK/BK-LT	TYPE:CRI90 5000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:187*35MM	Shielding Angle:

UNIT: cd

[illegible]

```

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:

```

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: RAD-5-CCT-120-36-BK/BK-LT	TYPE:CRI90 5000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:187*35MM	Shielding Angle:

UNIT: cd

[illegible]

```

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:

```