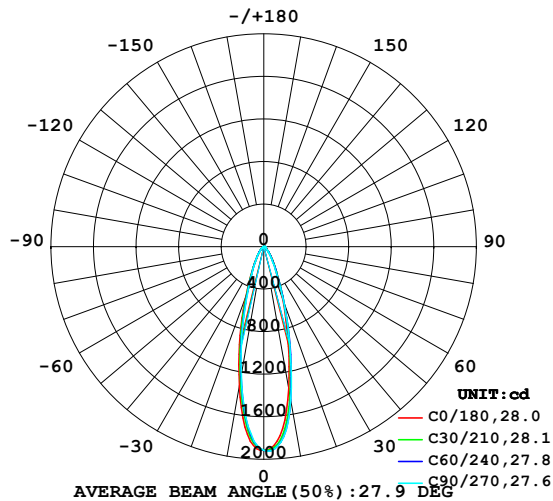


LUMINAIRE PHOTOMETRIC TEST REPORT

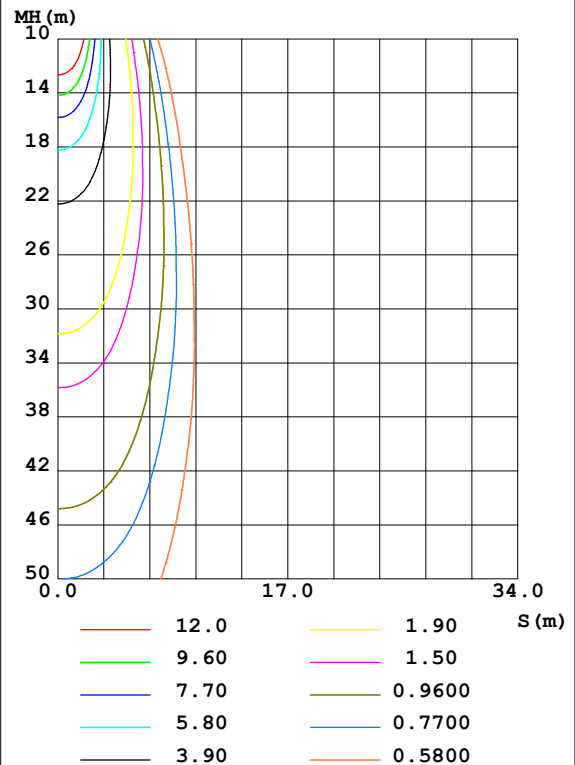
NAME:	TYPE:CRI90 2700K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 76.32 lm/W
MODEL		Imax(cd)	1925	S/MH(C0/180)	0.47	
NOMINAL POWER(W)	9	LOR(%)	100.0	S/MH(C90/270)	0.43	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	666.86	η UP,DN(C0-180)	0.0,52.8	
NOMINAL FLUX(lm)	666.857	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,47.2	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	0.50	

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: 2024-10-11

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	1357	1450	1465	1409	1329	1241	1226	1270	0- 10	155.4	155.4	23.3,23.3
20	524.3	569.7	545.4	517.4	490.6	451.8	434.7	460.5	10- 20	237.7	393.1	58.9,58.9
30	194.0	202.1	179.8	166.4	165.4	160.3	155.2	167.7	20- 30	135.6	528.7	79.3,79.3
40	79.47	83.25	74.77	69.00	69.33	67.08	64.63	68.63	30- 40	71.17	599.8	89.9,89.9
50	29.15	32.03	31.11	29.85	29.12	26.94	25.32	25.99	40- 50	36.01	635.8	95.3,95.3
60	12.13	13.24	13.91	13.84	13.28	12.05	11.23	11.40	50- 60	17.16	653.0	97.9,97.9
70	5.223	5.766	6.008	6.036	5.751	5.224	4.973	4.936	60- 70	8.384	661.4	99.2,99.2
80	2.369	2.674	2.835	2.806	2.655	2.341	2.187	2.191	70- 80	4.220	665.6	99.8,99.8
90	0.0465	0.0439	0.0882	0.0443	0.0958	0.0961	0.0992	0.0968	80- 90	1.244	666.9	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): 621.18 lm

%lum = 93.2%

%lamp = 93.2%

Conical surface Flux(120deg): 653.01 lm

%lum = 97.9%

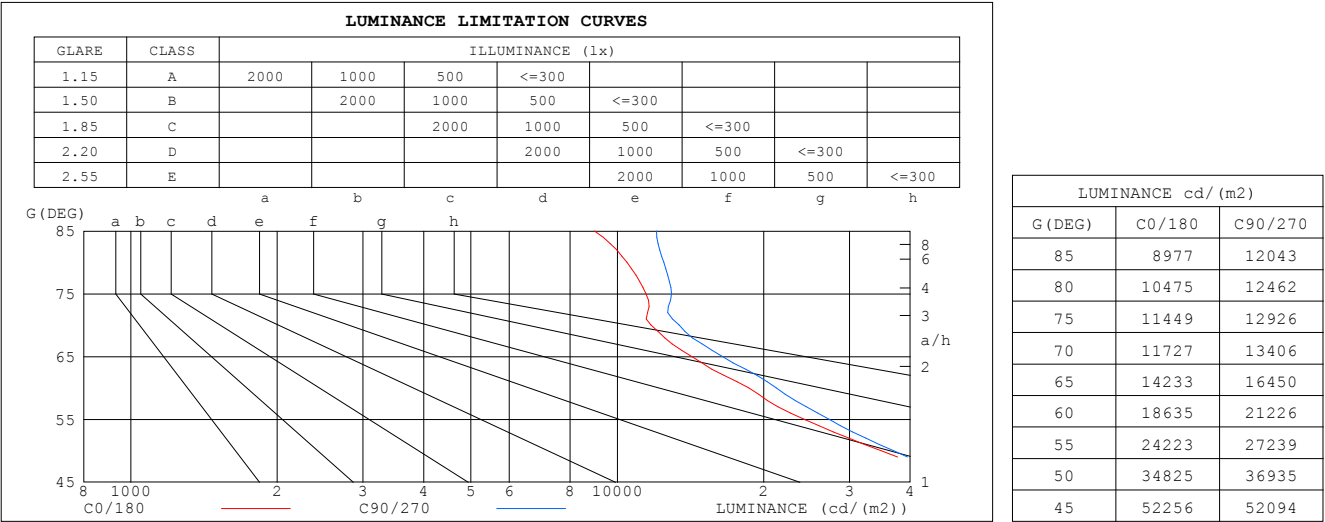
%lamp = 97.9%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-10-11

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 2700K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:



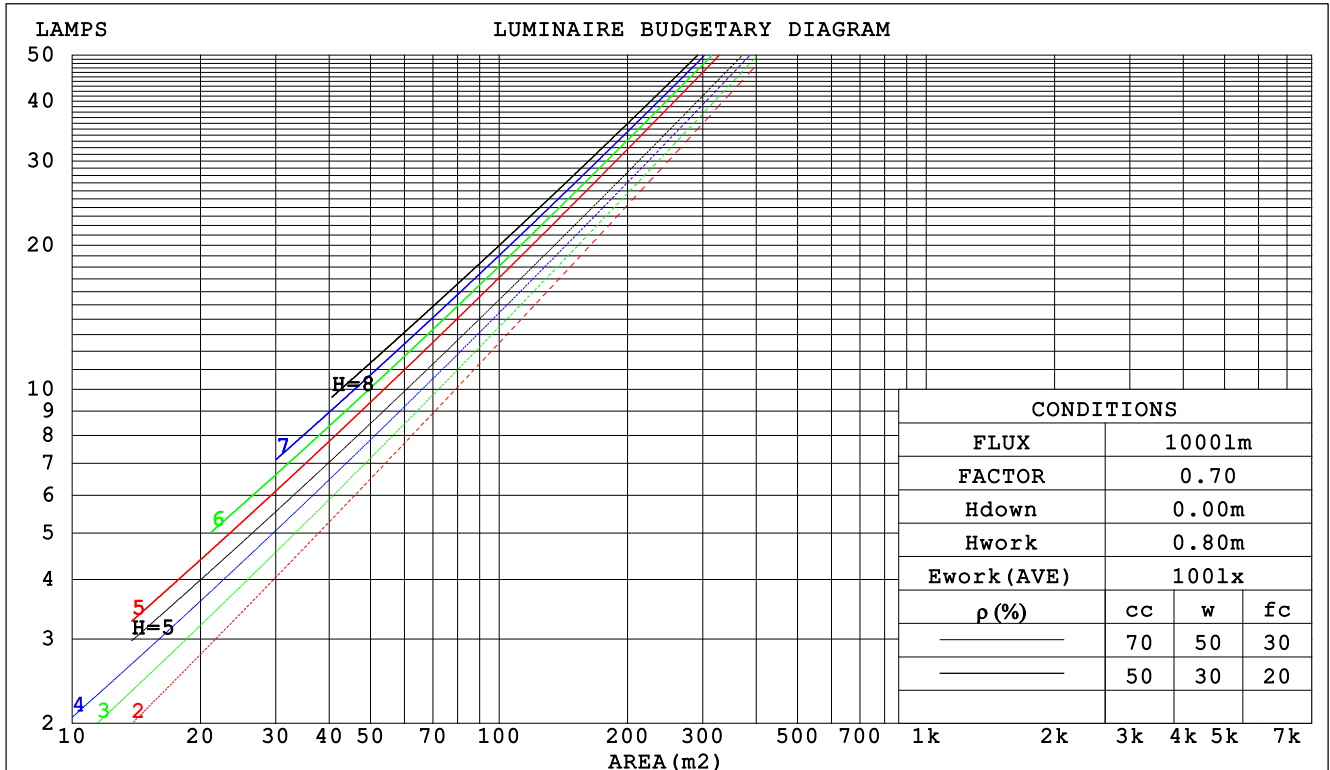
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-10-11

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 2700K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	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)															
	RCR:Room Cavity Ratio															
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	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96	.94
2.0	1.04	1.01	.97	1.03	.99	.96	.99	.97	.94	.96	.94	.92	.94	.92	.90	.89
3.0	.98	.94	.90	.97	.93	.89	.94	.91	.88	.92	.89	.87	.90	.87	.85	.84
4.0	.93	.88	.84	.92	.87	.83	.90	.86	.83	.88	.84	.82	.86	.83	.81	.79
5.0	.88	.83	.79	.87	.82	.79	.85	.81	.78	.84	.80	.77	.82	.79	.77	.75
6.0	.84	.78	.75	.83	.78	.74	.82	.77	.74	.80	.76	.73	.79	.76	.73	.72
7.0	.80	.75	.71	.79	.74	.71	.78	.74	.70	.77	.73	.70	.76	.72	.70	.68
8.0	.76	.71	.68	.76	.71	.67	.75	.70	.67	.74	.70	.67	.73	.69	.67	.65
9.0	.73	.68	.65	.73	.68	.65	.72	.68	.64	.71	.67	.64	.70	.67	.64	.63
10.0	.70	.65	.62	.70	.65	.62	.69	.65	.62	.69	.65	.62	.68	.64	.61	.60



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-10-11

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 2700K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	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	.168 .096 .030	.162 .092 .029	.149 .086 .027	.138 .079 .025	.127 .074 .024	
2.0	.159 .087 .027	.153 .084 .026	.143 .079 .025	.133 .075 .023	.124 .070 .022	
3.0	.149 .079 .024	.145 .077 .023	.136 .074 .022	.128 .070 .021	.120 .066 .021	
4.0	.141 .073 .021	.137 .072 .021	.129 .068 .020	.122 .065 .020	.115 .063 .019	
5.0	.133 .068 .020	.129 .066 .019	.123 .064 .019	.117 .062 .018	.111 .059 .018	
6.0	.126 .063 .018	.123 .062 .018	.117 .060 .017	.112 .058 .017	.107 .056 .017	
7.0	.119 .059 .017	.117 .058 .017	.112 .056 .016	.107 .055 .016	.103 .053 .016	
8.0	.114 .056 .016	.111 .055 .015	.107 .053 .015	.103 .052 .015	.099 .051 .015	
9.0	.108 .052 .015	.106 .052 .015	.102 .051 .014	.099 .049 .014	.095 .048 .014	
10.0	.104 .050 .014	.102 .049 .014	.098 .048 .014	.095 .047 .013	.092 .046 .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	.171 .157 .146	.146 .135 .125	.100 .093 .087	.057 .054 .050	.018 .017 .016	
2.0	.154 .133 .114	.132 .114 .099	.091 .079 .069	.052 .046 .040	.017 .015 .013	
3.0	.141 .113 .091	.121 .098 .079	.083 .068 .056	.048 .040 .033	.015 .013 .011	
4.0	.130 .099 .074	.112 .085 .065	.077 .059 .046	.044 .035 .027	.014 .011 .009	
5.0	.121 .087 .062	.104 .075 .054	.071 .052 .038	.041 .031 .022	.013 .010 .007	
6.0	.112 .077 .052	.097 .067 .045	.067 .047 .032	.039 .028 .019	.012 .009 .006	
7.0	.105 .069 .044	.091 .060 .038	.063 .042 .027	.036 .025 .016	.012 .008 .005	
8.0	.099 .063 .038	.085 .055 .033	.059 .038 .023	.034 .023 .014	.011 .007 .005	
9.0	.094 .057 .033	.081 .050 .029	.056 .035 .020	.033 .021 .012	.011 .007 .004	
10.0	.089 .053 .029	.077 .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:
Test Date:2024-10-11

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 2700K			WEIGHT:			
SPEC.:RAD25R-09-CCT					DIM.:			SERIAL No.:1			
MFR.:					SUR.:Φ41MM			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	22.2	23.0	22.4	23.2	23.3	22.1	23.0	22.3	23.1	23.3
	3H	22.3	23.1	22.5	23.3	23.5	22.3	23.1	22.6	23.3	23.5
	4H	22.4	23.1	22.6	23.3	23.5	22.4	23.2	22.7	23.4	23.6
	6H	22.4	23.1	22.7	23.3	23.6	22.5	23.2	22.8	23.5	23.7
	8H	22.4	23.1	22.7	23.3	23.6	22.5	23.2	22.9	23.5	23.7
	12H	22.4	23.1	22.7	23.3	23.6	22.6	23.2	22.9	23.5	23.7
4H	2H	22.2	22.9	22.4	23.1	23.3	22.1	22.9	22.4	23.1	23.3
	3H	22.4	23.0	22.7	23.3	23.6	22.4	23.1	22.7	23.3	23.6
	4H	22.5	23.1	22.9	23.4	23.7	22.6	23.2	22.9	23.5	23.8
	6H	22.6	23.2	23.0	23.5	23.8	22.8	23.3	23.1	23.6	24.0
	8H	22.7	23.2	23.1	23.5	23.9	22.8	23.3	23.2	23.7	24.0
	12H	22.7	23.1	23.1	23.5	23.9	22.9	23.3	23.3	23.7	24.1
8H	4H	22.5	23.0	22.9	23.3	23.7	22.6	23.1	23.0	23.4	23.8
	6H	22.7	23.1	23.1	23.5	23.9	22.8	23.2	23.3	23.6	24.0
	8H	22.8	23.1	23.2	23.6	24.0	23.0	23.3	23.4	23.7	24.2
	12H	22.8	23.1	23.3	23.6	24.0	23.1	23.4	23.5	23.8	24.3
12H	4H	22.5	22.9	22.9	23.3	23.7	22.6	23.0	23.0	23.4	23.8
	6H	22.7	23.1	23.1	23.5	23.9	22.8	23.2	23.3	23.6	24.0
	8H	22.8	23.1	23.3	23.5	24.0	23.0	23.3	23.4	23.7	24.2
Variations with the observer position at spacings:											
S = 1.0H	+ 1.4 / - 2.2					+ 1.3 / - 1.8					
1.5H	+ 2.2 / - 1.8					+ 1.8 / - 1.5					
2.0H	+ 2.6 / - 1.7					+ 2.3 / - 1.6					

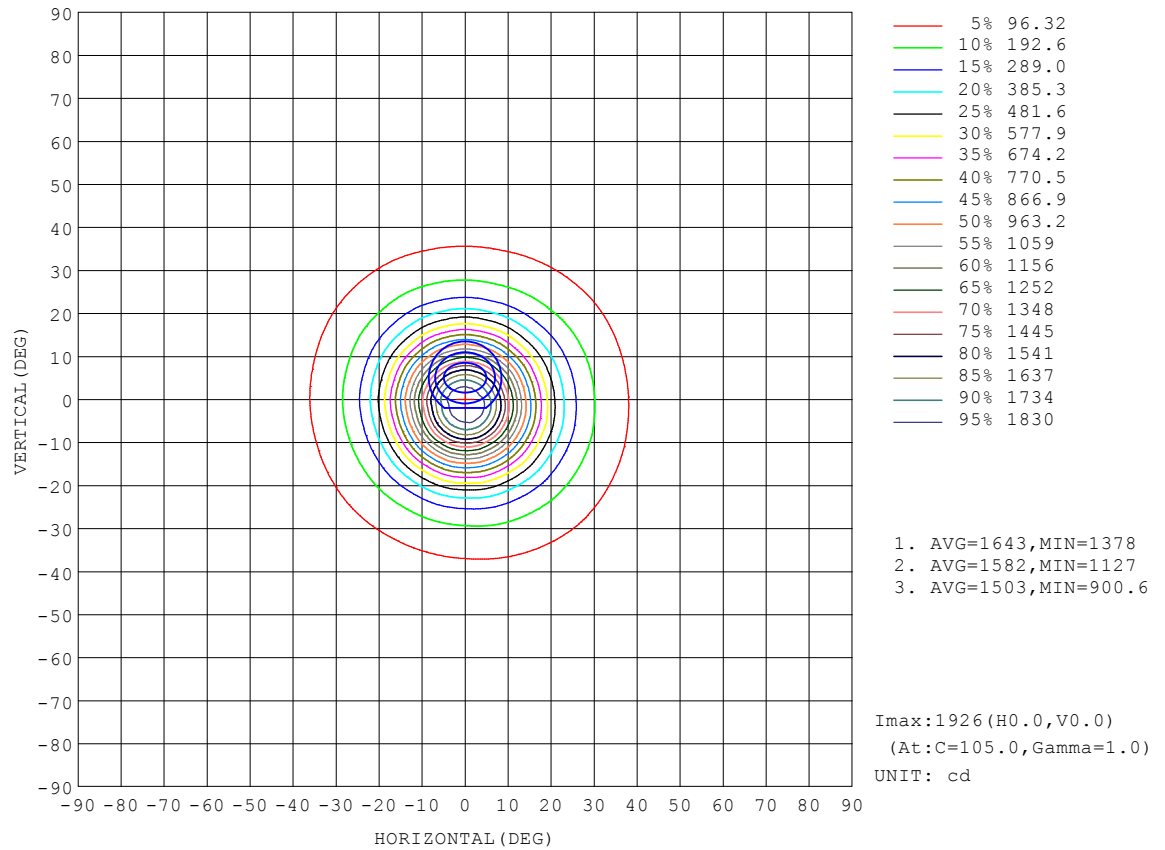
CIE Pub.117, 666.9 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.4)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-10-11

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 2700K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:

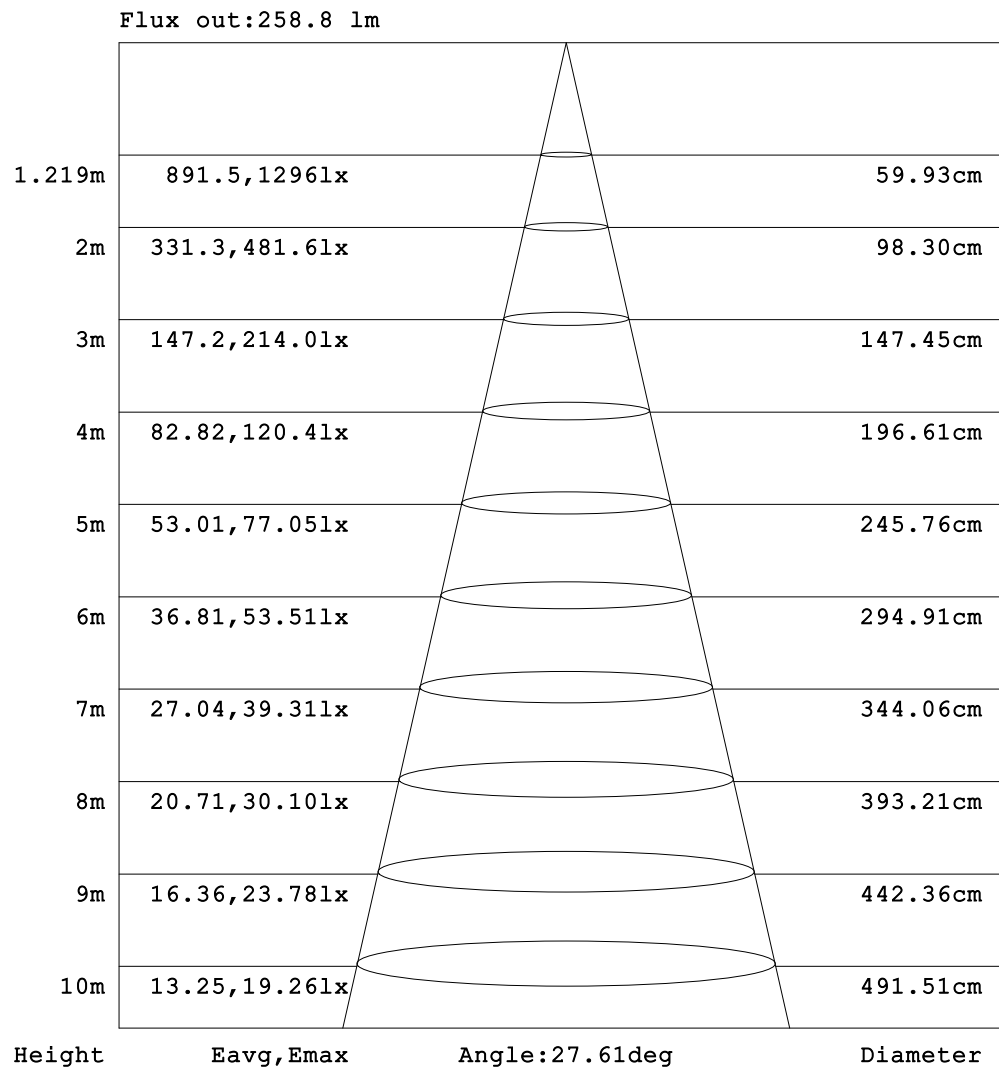


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-10-11

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 2700K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:



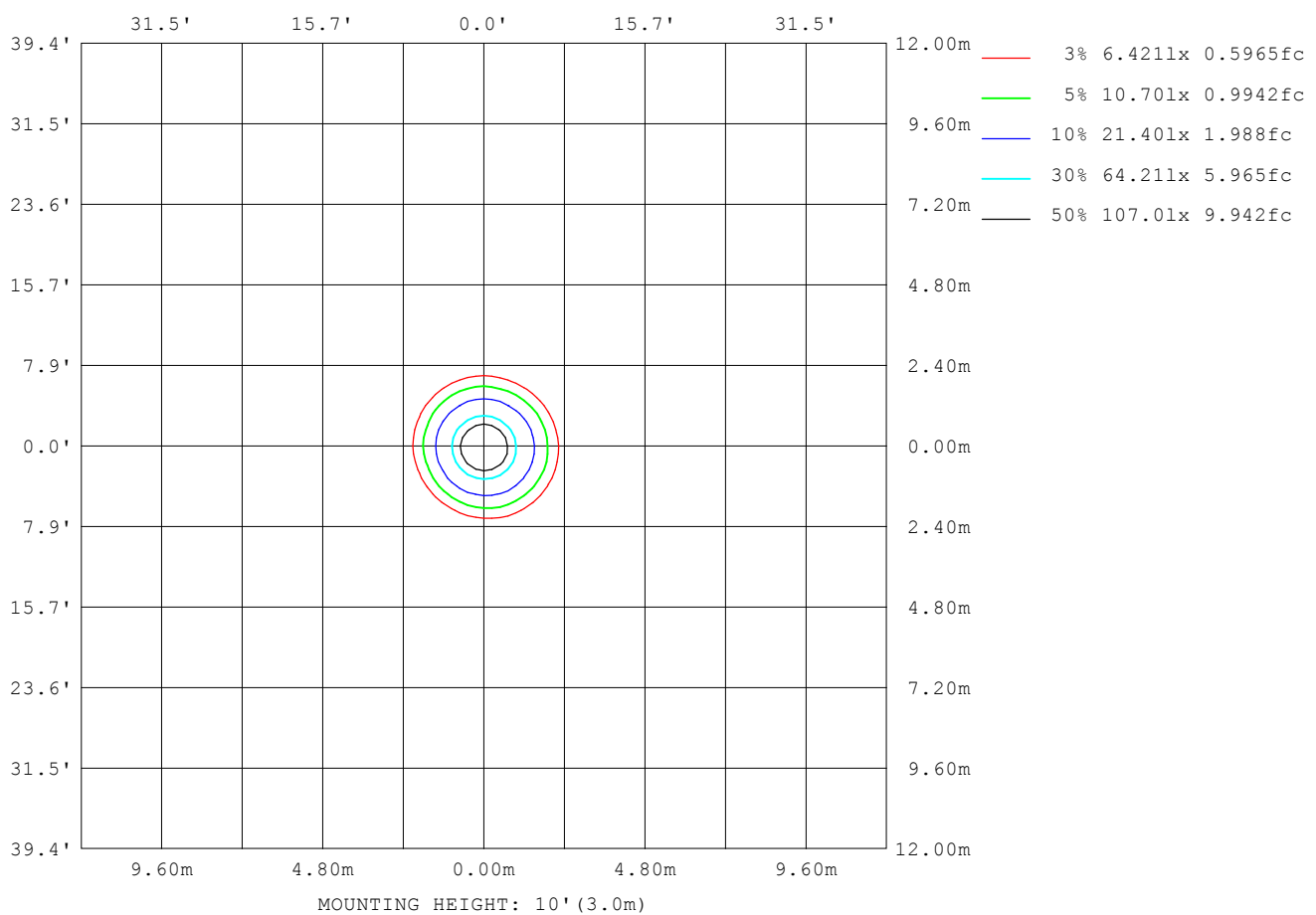
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-10-11

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 2700K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-10-11

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 2700K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:

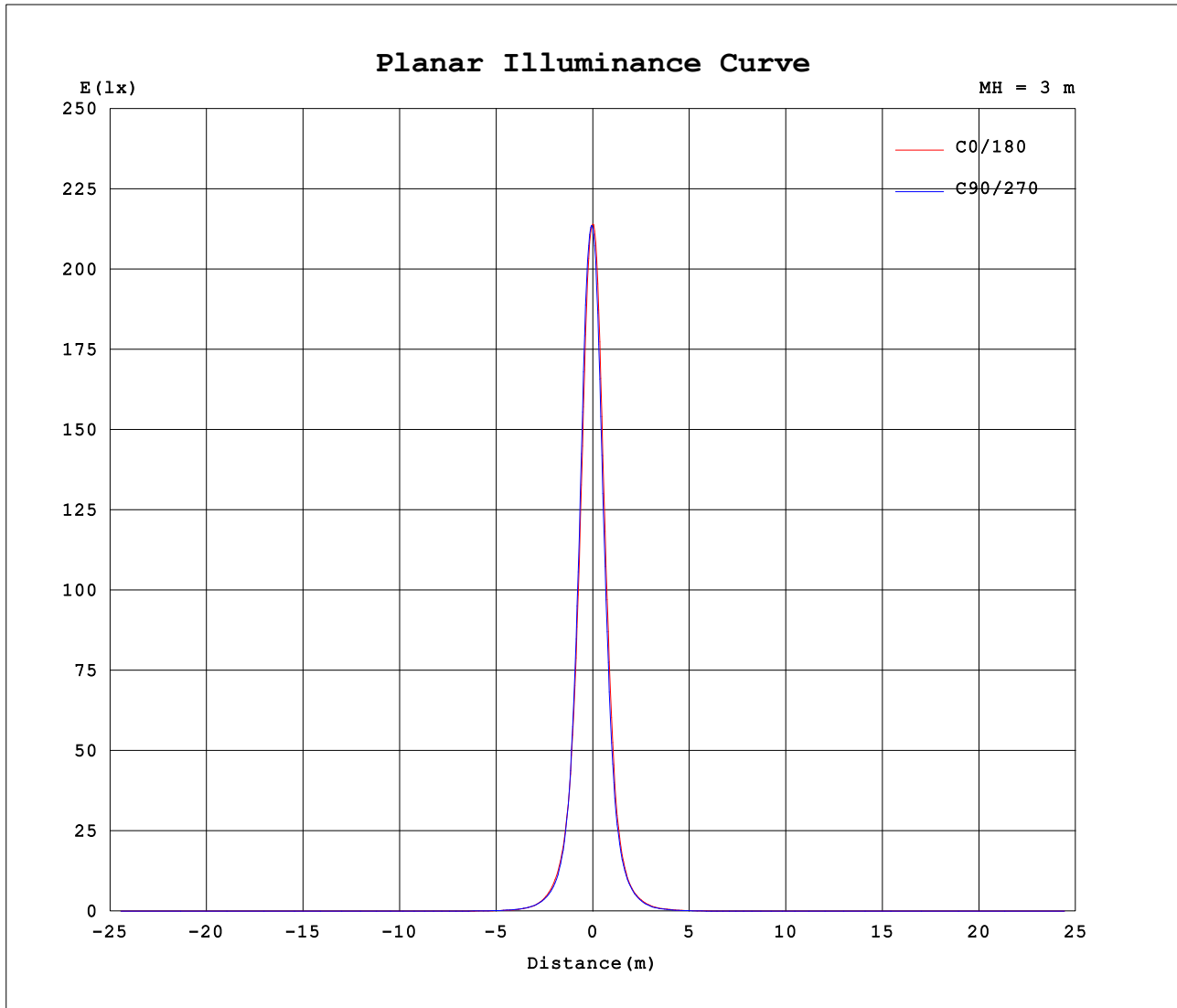
AvgL	cd/m2
L_0~180 (65) av	14897
L_0~180 (75) av	11957
L_0~180 (85) av	9592
L_90~270 (65) av	14721
L_90~270 (75) av	11883
L_90~270 (85) av	9737
L_45 (65) av	14737
L_45 (75) av	11917
L_45 (85) av	9630

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-10-11

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: 2024-10-11

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:

