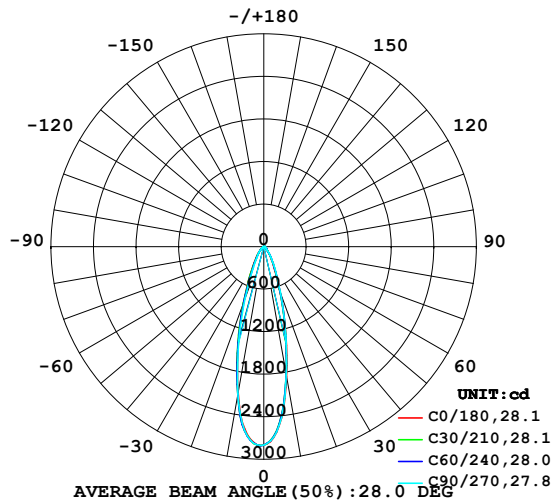


LUMINAIRE PHOTOMETRIC TEST REPORT

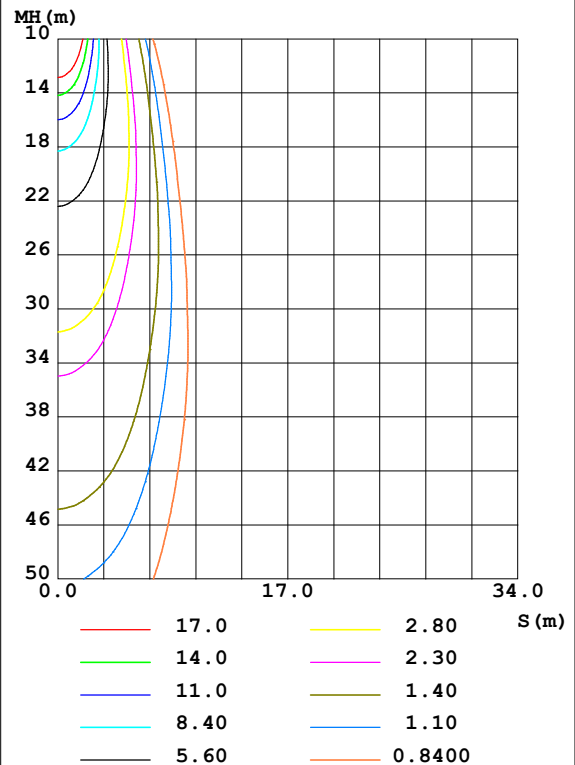
NAME:	TYPE:CRI90 3000K	WEIGHT:
SPEC.:RAD25R-14-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 75.23 lm/W			
MODEL		I _{max} (cd)	2807	S/MH (C0/180)	0.50
NOMINAL POWER(W)	14	LOR(%)	100.0	S/MH (C90/270)	0.49
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	979.06	η UP,DN (C0-180)	0.0,48.2
NOMINAL FLUX(lm)	979.06	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,51.8
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	1858	1835	1839	1920	2092	2118	2109	2008	0- 10	227.8	227.8	23.3, 23.3
20	666.5	686.3	686.4	727.8	836.7	827.2	771.6	714.9	10- 20	349.3	577.2	59, 59
30	238.5	256.2	255.9	264.2	292.2	272.4	237.7	228.1	20- 30	200.2	777.3	79.4, 79.4
40	97.32	103.6	104.9	108.9	120.0	111.3	99.69	96.55	30- 40	104.4	881.8	90.1, 90.1
50	37.98	38.37	38.85	41.34	46.68	45.75	42.85	40.28	40- 50	52.37	934.1	95.4, 95.4
60	17.08	16.28	16.34	17.76	19.79	20.53	20.30	18.87	50- 60	24.86	959.0	97.9, 97.9
70	7.338	7.110	7.126	7.578	8.598	8.923	8.788	8.114	60- 70	12.16	971.1	99.2, 99.2
80	3.190	2.986	3.034	3.346	4.071	4.328	4.274	3.835	70- 80	6.116	977.3	99.8, 99.8
90	0.0493	0.0467	0.0469	0.0443	0.1616	0.2665	0.1738	0.1245	80- 90	1.803	979.1	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): 912.86 lm

%lum = 93.2%

%lamp = 93.2%

Conical surface Flux(120deg): 958.98 lm

%lum = 97.9%

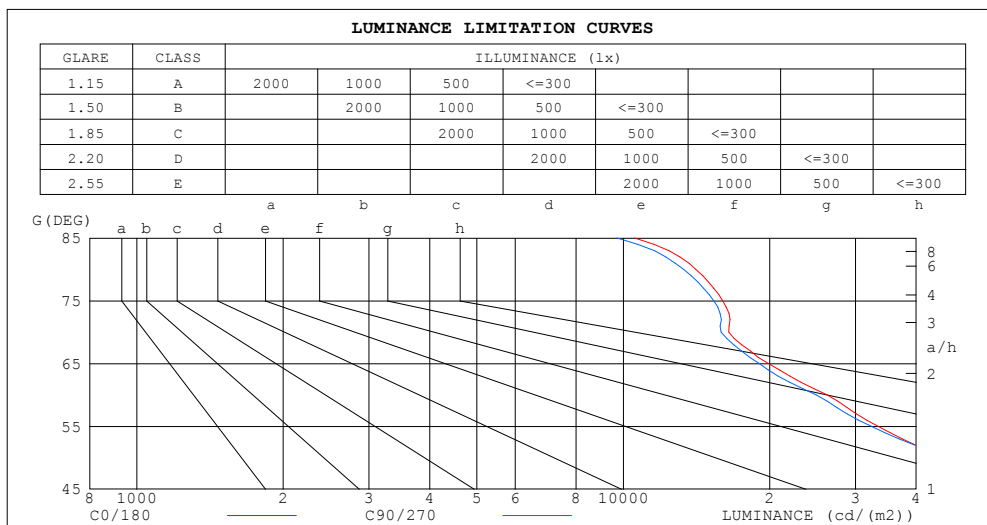
%lamp = 97.9%

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 3000K	WEIGHT:
SPEC.:RAD25R-14-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	10559	9712
80	14102	13314
75	15995	15337
70	16469	15879
65	19872	19028
60	26216	24899
55	33389	32306
50	45351	46065
45	65751	69097

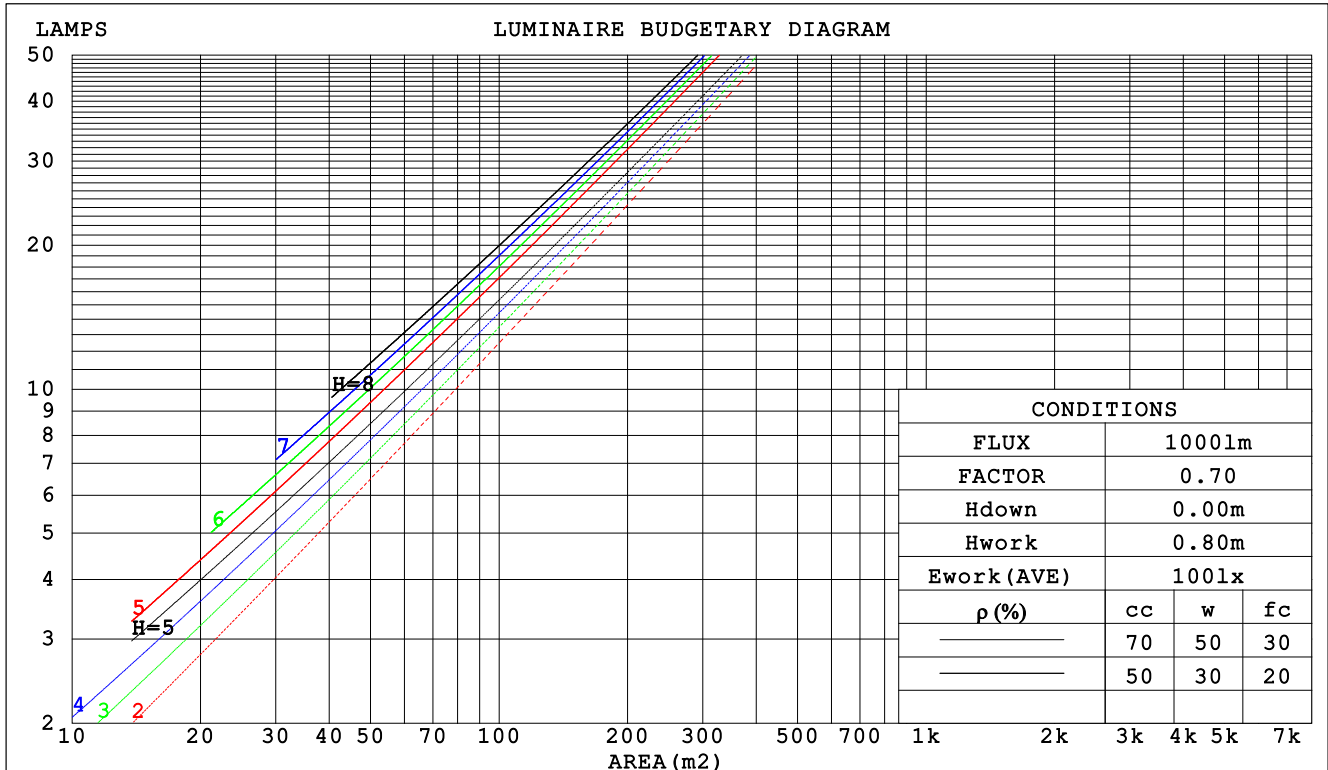
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-10-11

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 3000K	WEIGHT:
SPEC.:RAD25R-14-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	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	1.11	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	.84	.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	.68	.75	.70	.67	.74	.70	.67	.73	.69	.67	.66
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	.62	.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 3000K	WEIGHT:
SPEC.:RAD25R-14-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:#41MM	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	.161 .092 .029	.149 .085 .027	.137 .079 .025	.127 .073 .024	
2.0	.159 .087 .027	.153 .084 .026	.143 .079 .025	.133 .075 .023	.124 .070 .022	
3.0	.149 .079 .024	.144 .077 .023	.136 .073 .022	.127 .070 .021	.120 .066 .021	
4.0	.141 .073 .021	.136 .071 .021	.129 .068 .020	.122 .065 .020	.115 .063 .019	
5.0	.133 .068 .020	.129 .066 .019	.123 .064 .019	.117 .061 .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	.102 .053 .016	
8.0	.114 .055 .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 3000K			WEIGHT:			
SPEC.:RAD25R-14-CCT					DIM. :			SERIAL No.:1			
MFR. :					SUR.: ϕ 41MM			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	21.0	21.9	21.3	22.0	22.2	21.2	22.0	21.4	22.2	22.3
	3H	21.2	22.0	21.5	22.2	22.4	21.3	22.1	21.6	22.3	22.5
	4H	21.3	22.1	21.6	22.3	22.5	21.4	22.1	21.7	22.4	22.6
	6H	21.4	22.1	21.7	22.3	22.6	21.5	22.2	21.7	22.4	22.6
	8H	21.4	22.1	21.7	22.3	22.6	21.5	22.1	21.8	22.4	22.6
	12H	21.4	22.0	21.7	22.3	22.6	21.4	22.1	21.8	22.4	22.6
4H	2H	21.0	21.8	21.3	22.0	22.2	21.2	21.9	21.4	22.1	22.3
	3H	21.3	22.0	21.6	22.2	22.5	21.4	22.0	21.7	22.3	22.6
	4H	21.5	22.1	21.8	22.4	22.7	21.5	22.1	21.9	22.4	22.7
	6H	21.6	22.1	22.0	22.5	22.8	21.7	22.2	22.0	22.5	22.9
	8H	21.6	22.1	22.0	22.5	22.8	21.7	22.2	22.1	22.5	22.9
	12H	21.7	22.1	22.1	22.5	22.9	21.7	22.1	22.1	22.5	22.9
8H	4H	21.5	21.9	21.9	22.3	22.7	21.5	22.0	21.9	22.4	22.7
	6H	21.7	22.1	22.1	22.4	22.9	21.7	22.1	22.1	22.5	22.9
	8H	21.7	22.1	22.2	22.5	22.9	21.8	22.1	22.2	22.5	23.0
	12H	21.8	22.1	22.2	22.5	23.0	21.8	22.1	22.2	22.5	23.0
12H	4H	21.4	21.9	21.8	22.2	22.6	21.5	21.9	21.9	22.3	22.7
	6H	21.6	22.0	22.1	22.4	22.8	21.7	22.0	22.1	22.4	22.9
	8H	21.7	22.0	22.2	22.5	22.9	21.7	22.1	22.2	22.5	23.0
Variations with the observer position at spacings:											
S = 1.0H		+ 1.3 / - 2.0					+ 1.4 / - 2.2				
1.5H		+ 2.1 / - 1.7					+ 2.5 / - 1.9				
2.0H		+ 2.4 / - 1.7					+ 2.7 / - 1.8				

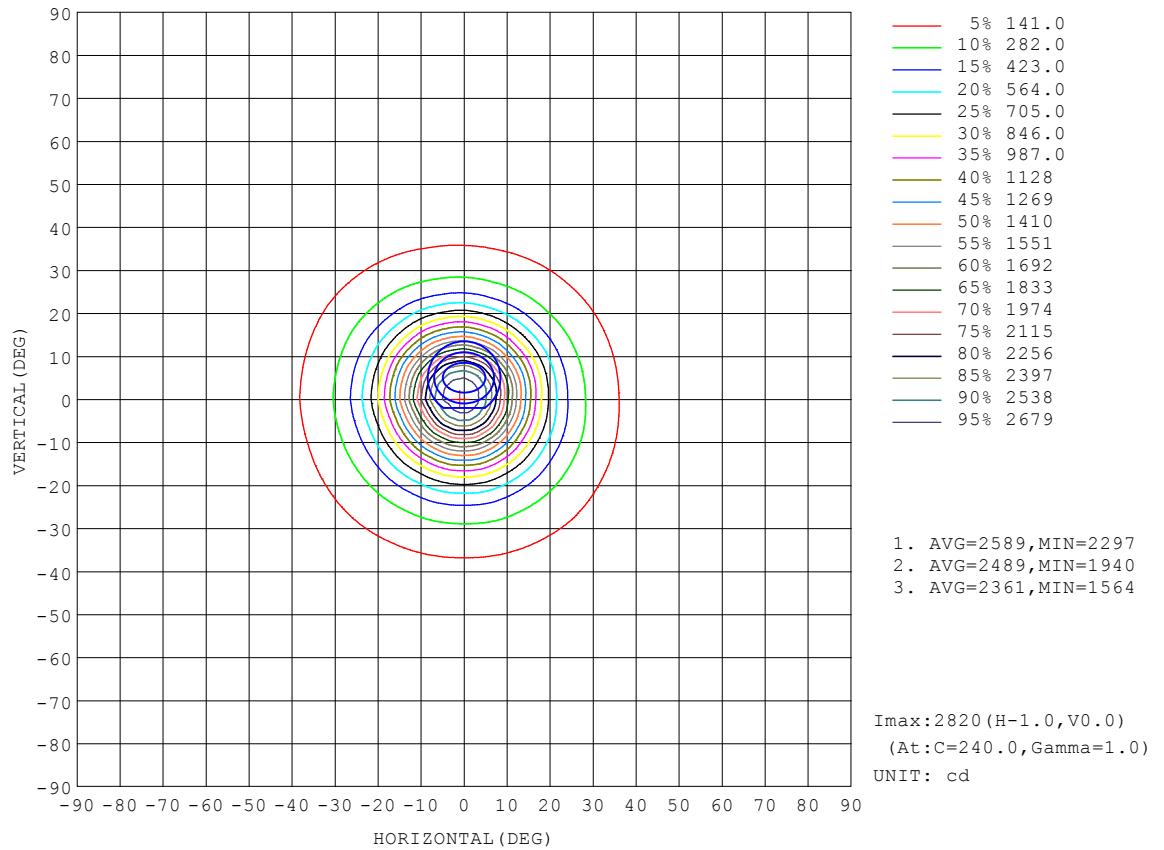
CIE Pub.117, 979.1 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.1)

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 3000K	WEIGHT:
SPEC.:RAD25R-14-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:

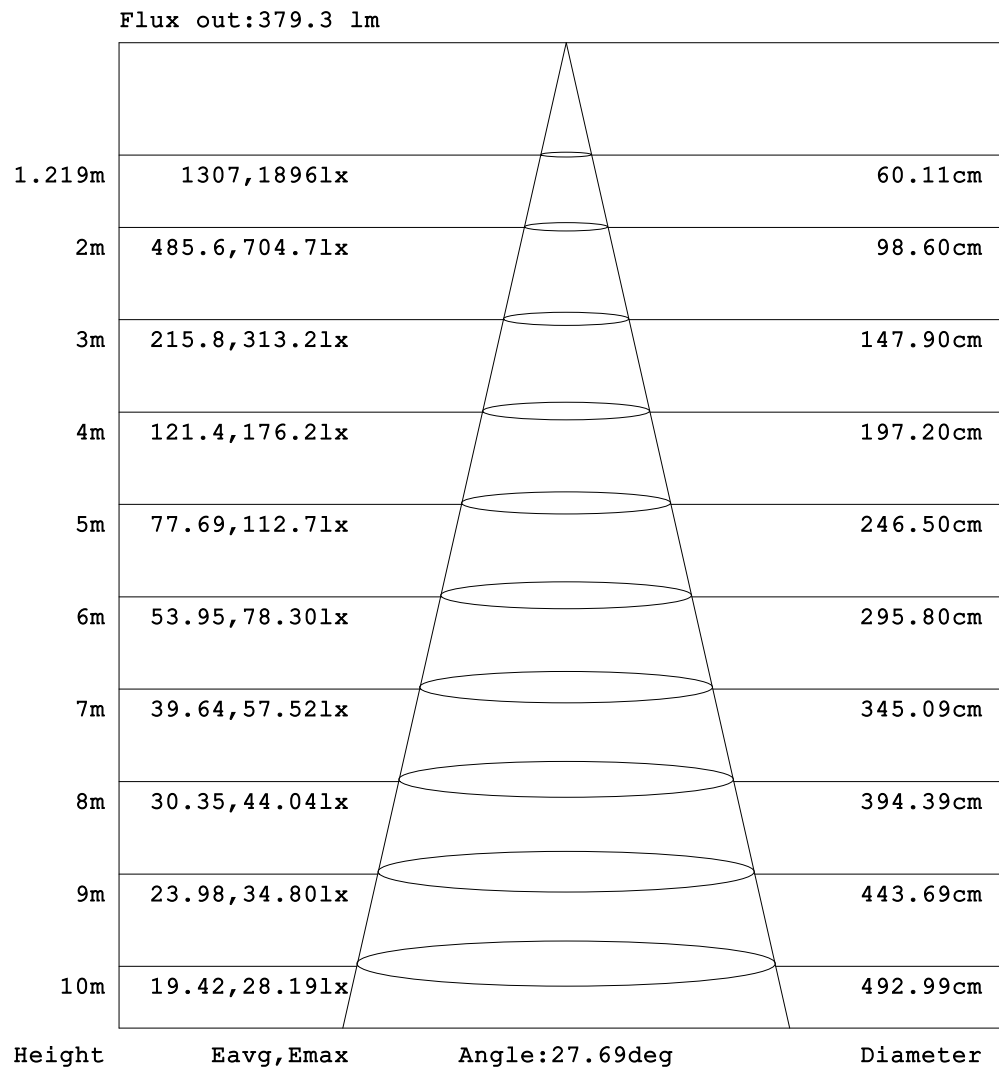


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-10-11

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 3000K	WEIGHT:
SPEC.:RAD25R-14-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:



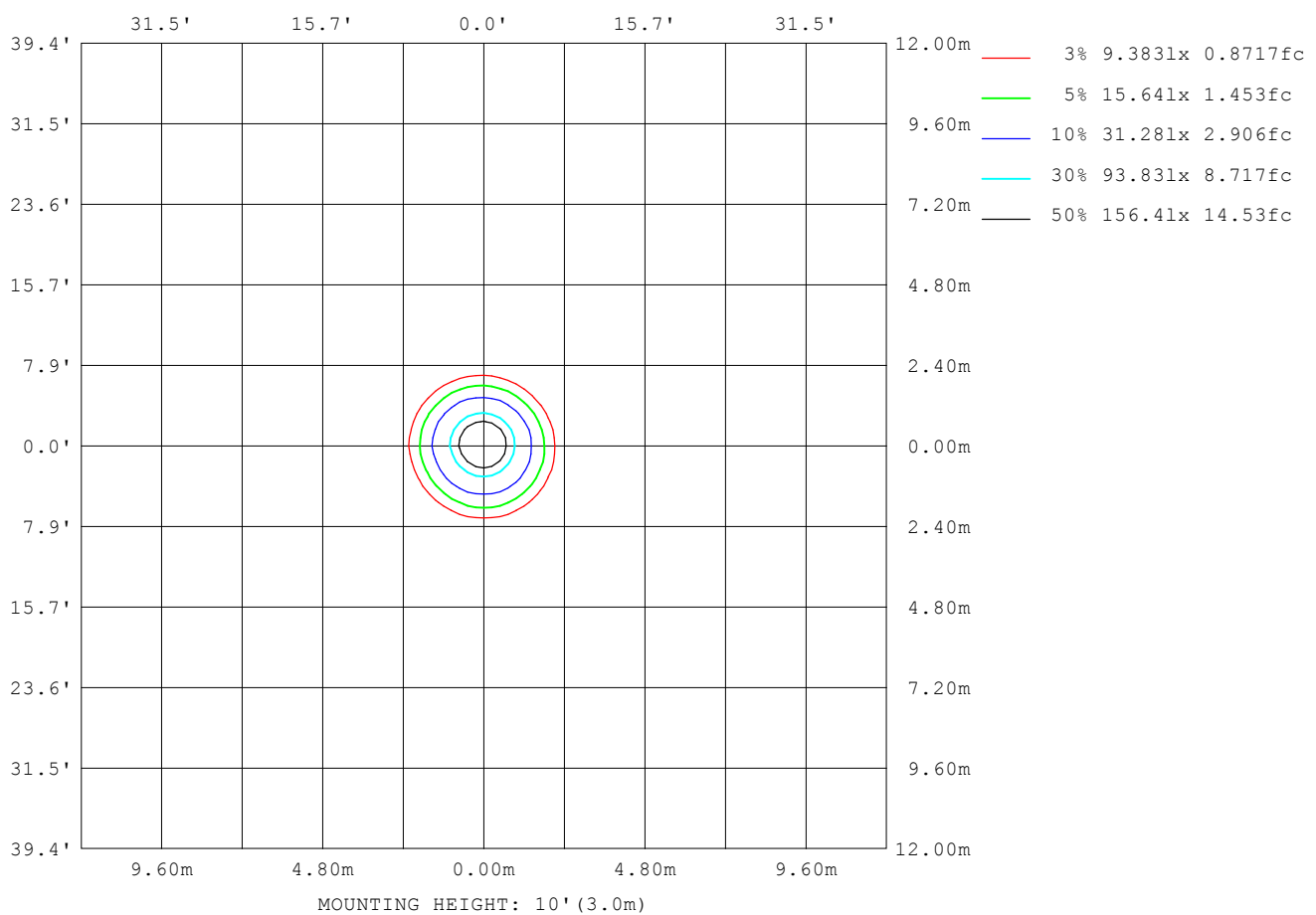
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 3000K	WEIGHT:
SPEC.:RAD25R-14-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 3000K	WEIGHT:
SPEC.:RAD25R-14-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:

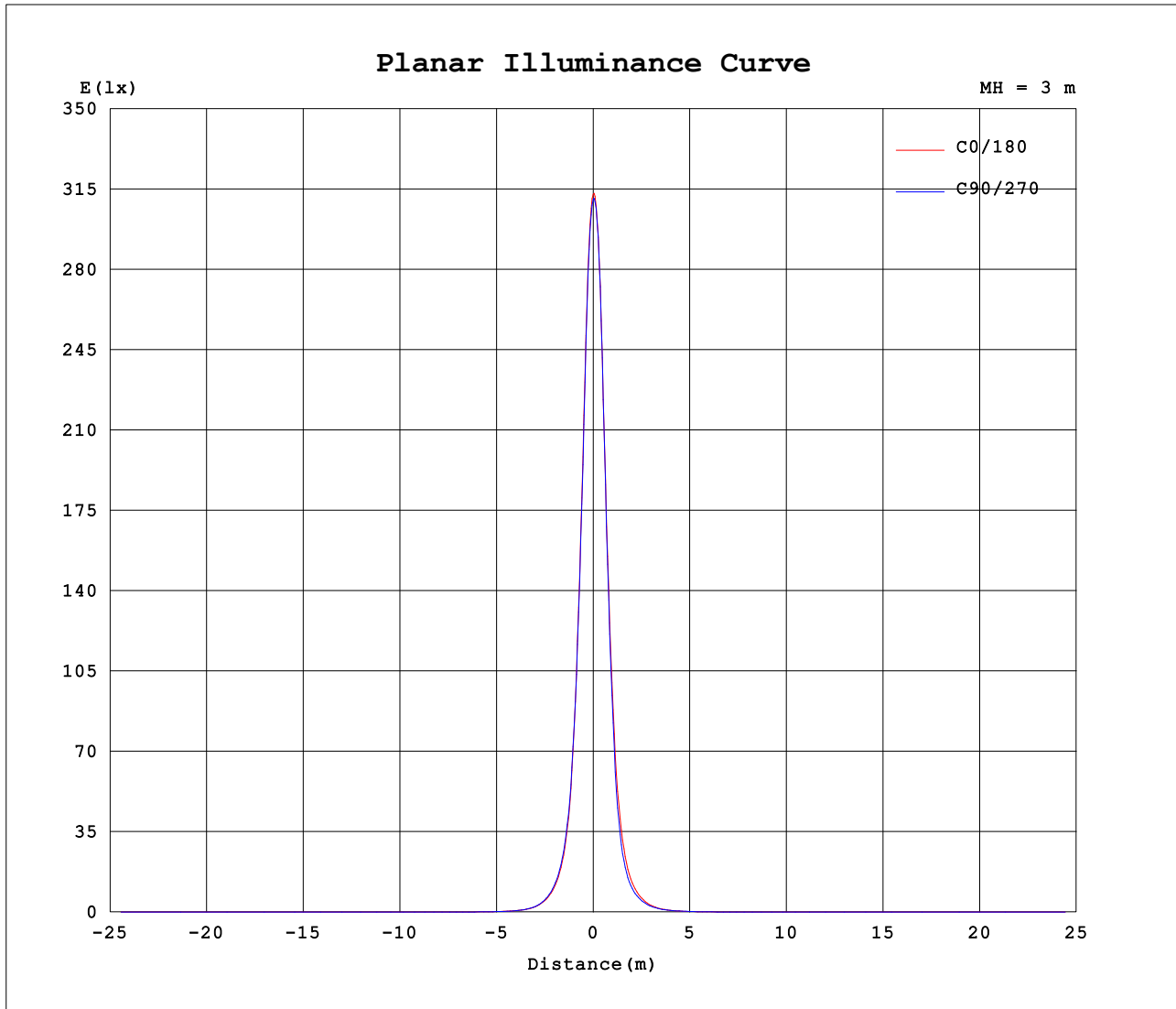
AvgL	cd/m2
L_0~180 (65) av	21395
L_0~180 (75) av	17273
L_0~180 (85) av	13829
L_90~270 (65) av	21499
L_90~270 (75) av	17321
L_90~270 (85) av	14169
L_45 (65) av	21387
L_45 (75) av	17244
L_45 (85) av	13872

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:

