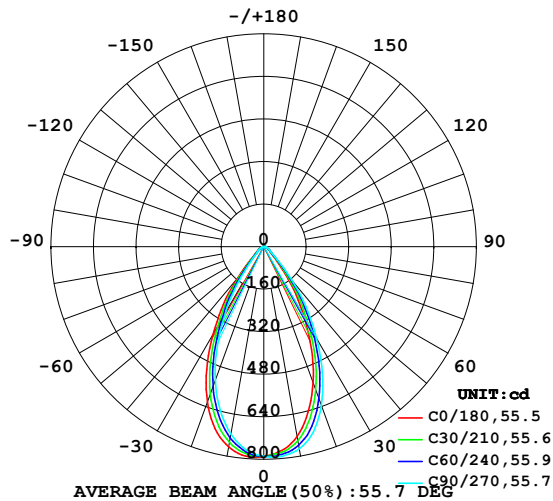


LUMINAIRE PHOTOMETRIC TEST REPORT

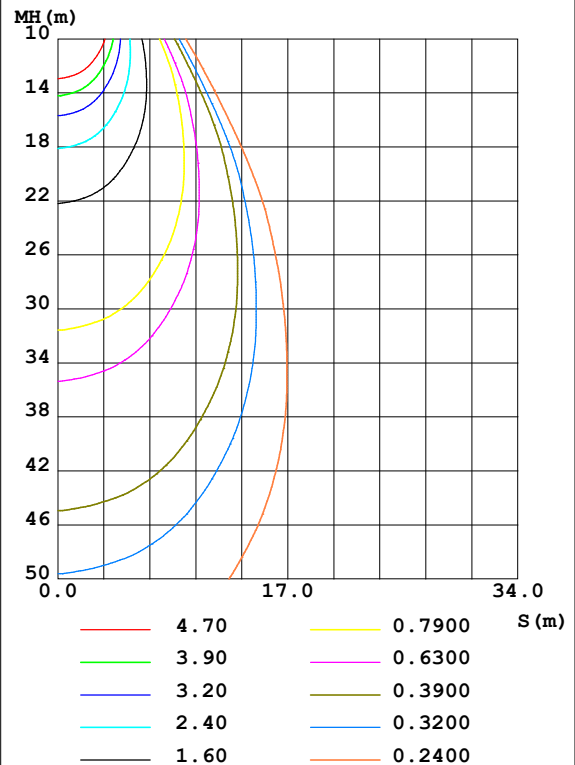
NAME:	TYPE:CRI90 4000K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 84.78 lm/W
MODEL		I _{max} (cd)	796.2	S/MH (C0/180)	0.89	
NOMINAL POWER (W)	9	LOR (%)	100.0	S/MH (C90/270)	0.80	
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	722.37	η UP, DN (C0-180)	0.0, 53.7	
NOMINAL FLUX (lm)	722.369	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 46.3	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE (V)	120	η down (%)	100.0	CIBSE SHR MAX	0.90	

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	724.8	750.0	771.7	779.2	764.6	737.8	714.8	709.0	0- 10	73.29	73.29	10.1,10.1
20	543.6	593.3	634.3	653.1	620.7	572.4	534.6	519.8	10- 20	188.3	261.6	36.2,36.2
30	303.5	354.8	396.8	414.7	383.4	329.9	290.5	276.2	20- 30	212.4	474.0	65.6,65.6
40	100.9	135.9	166.1	178.0	150.8	115.8	90.78	85.49	30- 40	143.0	617.0	85.4,85.4
50	34.48	40.21	44.98	46.76	41.07	35.36	32.36	31.80	40- 50	53.76	670.7	92.9,92.9
60	20.35	23.22	24.45	24.55	23.03	20.33	18.88	18.52	50- 60	25.64	696.4	96.4,96.4
70	9.754	11.15	12.10	12.11	11.13	9.740	9.249	9.259	60- 70	15.35	711.7	98.5,98.5
80	4.281	5.358	6.114	6.179	5.463	4.415	3.773	3.652	70- 80	8.170	719.9	99.7,99.7
90	0.0579	0.0578	0.5973	0.6529	0.1793	0.1074	0.1101	0.1074	80- 90	2.460	722.4	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): 650.93 lm

%lum = 90.1%

%lamp = 90.1%

Conical surface Flux(120deg): 696.39 lm

%lum = 96.4%

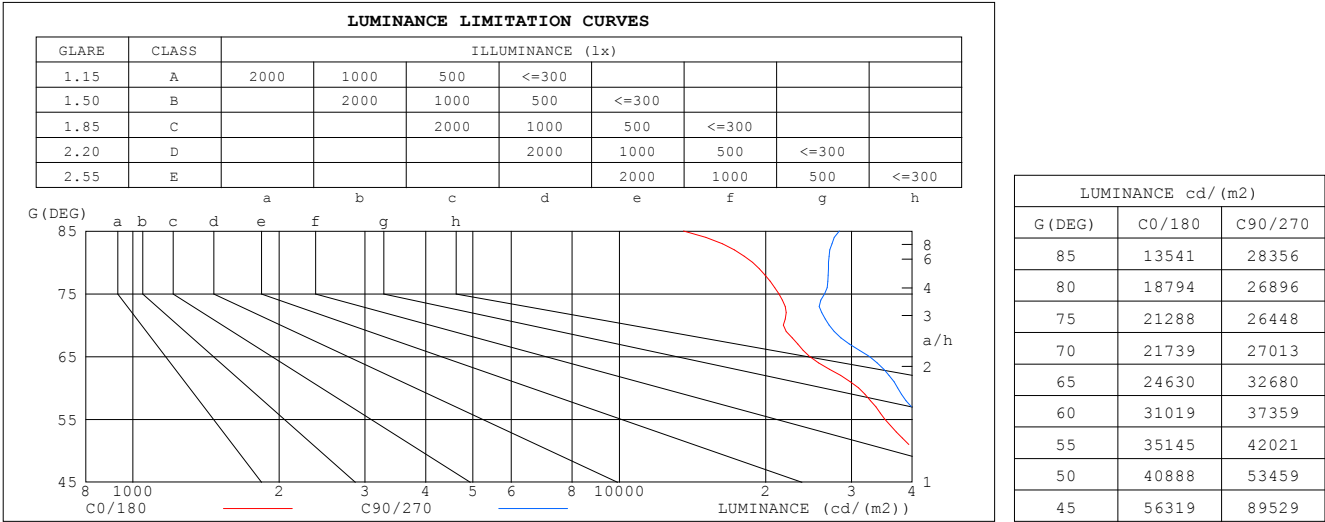
%lamp = 96.4%

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:

LUMINANCE LIMITATION CURVES

NAME:	TYPE:CRI90 4000K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:



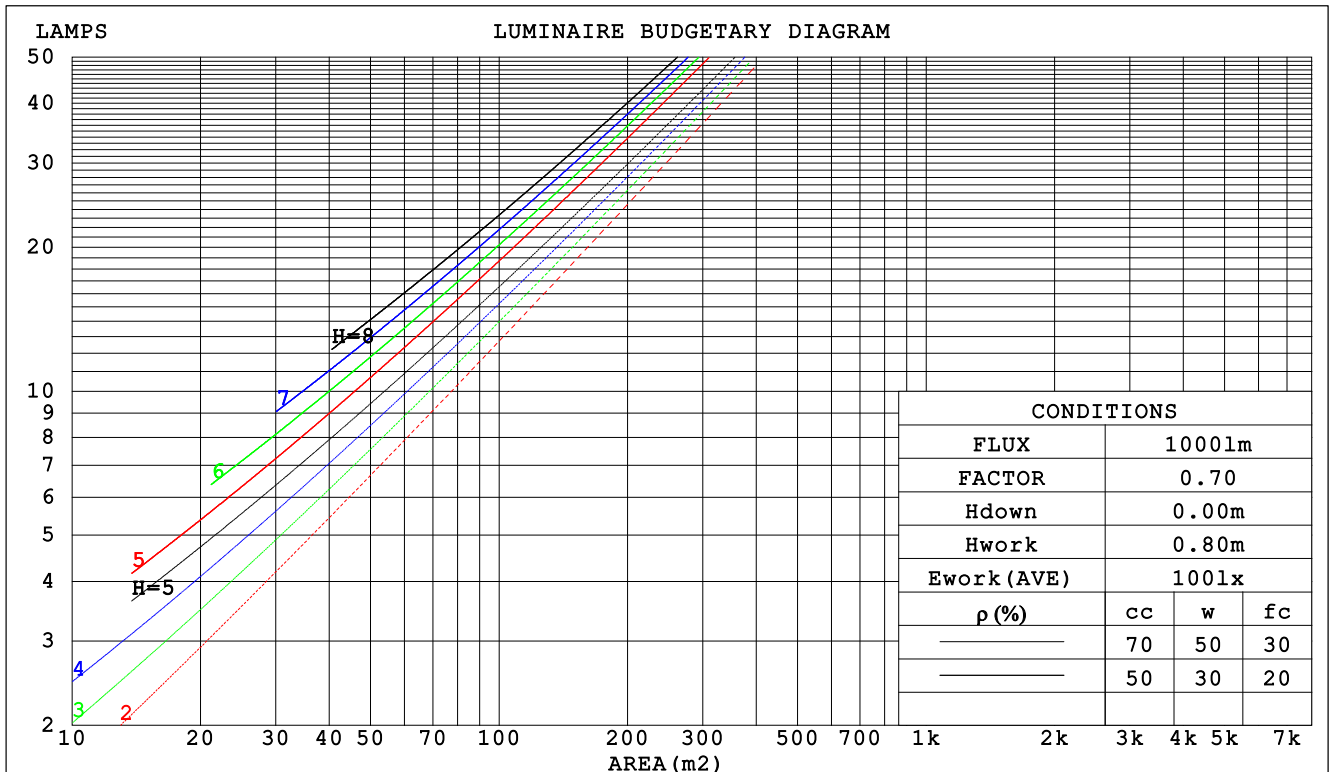
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-10-11

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 4000K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:#41MM	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	1.10	1.07	1.05	1.08	1.05	1.03	1.04	1.02	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.01	.97	.93	.00	.96	.92	.96	.93	.90	.93	.91	.88	.90	.88	.86	.85
3.0	.94	.88	.84	.92	.87	.83	.90	.85	.82	.87	.84	.81	.85	.82	.79	.78
4.0	.87	.81	.77	.86	.80	.76	.84	.79	.75	.82	.78	.74	.80	.76	.73	.72
5.0	.81	.75	.70	.80	.74	.70	.78	.73	.69	.77	.72	.69	.75	.71	.68	.67
6.0	.76	.70	.65	.75	.69	.65	.74	.68	.64	.72	.67	.64	.71	.67	.63	.62
7.0	.71	.65	.60	.71	.64	.60	.69	.64	.60	.68	.63	.60	.67	.63	.59	.58
8.0	.67	.61	.56	.66	.60	.56	.65	.60	.56	.64	.59	.56	.63	.59	.55	.54
9.0	.63	.57	.53	.63	.57	.53	.62	.56	.52	.61	.56	.52	.60	.55	.52	.51
10.0	.60	.54	.50	.59	.53	.49	.58	.53	.49	.58	.53	.49	.57	.52	.49	.48



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 4000K	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	.197 .112 .035	.190 .108 .034	.177 .102 .032	.165 .095 .031	.155 .090 .029	
2.0	.187 .103 .032	.182 .100 .031	.171 .095 .030	.161 .090 .028	.152 .086 .027	
3.0	.177 .094 .028	.173 .092 .028	.163 .089 .027	.155 .085 .026	.147 .081 .025	
4.0	.168 .087 .026	.164 .086 .025	.156 .083 .025	.148 .080 .024	.141 .077 .023	
5.0	.159 .081 .023	.155 .080 .023	.148 .077 .023	.142 .075 .022	.136 .073 .022	
6.0	.151 .076 .022	.148 .075 .021	.142 .073 .021	.136 .071 .021	.130 .069 .020	
7.0	.144 .071 .020	.141 .070 .020	.135 .068 .020	.130 .067 .019	.125 .065 .019	
8.0	.137 .067 .019	.134 .066 .019	.129 .065 .018	.125 .063 .018	.120 .062 .018	
9.0	.130 .063 .018	.128 .062 .018	.124 .061 .017	.120 .060 .017	.116 .059 .017	
10.0	.125 .060 .017	.123 .059 .017	.119 .058 .016	.115 .057 .016	.111 .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 .143	.148 .135 .123	.101 .093 .085	.058 .054 .050	.019 .017 .016	
2.0	.158 .132 .111	.136 .114 .096	.093 .079 .067	.054 .046 .039	.017 .015 .013	
3.0	.147 .114 .087	.126 .098 .076	.086 .068 .053	.050 .040 .031	.016 .013 .010	
4.0	.137 .099 .070	.117 .086 .061	.081 .060 .043	.047 .035 .025	.015 .011 .008	
5.0	.128 .088 .058	.110 .076 .050	.076 .053 .035	.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 .055 .027	.085 .048 .023	.059 .034 .017	.034 .020 .010	.011 .007 .003	

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 4000K			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	24.3	25.3	24.5	25.5	25.7	25.7	26.7	25.9	26.9	27.0
	3H	24.6	25.5	24.8	25.7	25.9	25.9	26.9	26.2	27.1	27.3
	4H	24.7	25.6	25.0	25.8	26.1	26.1	26.9	26.3	27.2	27.4
	6H	24.8	25.7	25.1	25.9	26.2	26.2	27.0	26.5	27.3	27.5
	8H	24.8	25.7	25.2	25.9	26.2	26.3	27.1	26.6	27.3	27.6
	12H	24.8	25.6	25.2	25.9	26.2	26.3	27.1	26.6	27.3	27.6
4H	2H	24.4	25.3	24.7	25.5	25.7	25.6	26.5	25.9	26.8	27.0
	3H	24.8	25.6	25.1	25.8	26.1	26.0	26.8	26.3	27.1	27.3
	4H	25.0	25.7	25.4	26.0	26.4	26.2	26.9	26.6	27.2	27.6
	6H	25.2	25.9	25.6	26.2	26.6	26.5	27.1	26.9	27.5	27.8
	8H	25.3	25.9	25.7	26.2	26.6	26.6	27.2	27.0	27.5	27.9
	12H	25.3	25.9	25.7	26.2	26.6	26.7	27.2	27.1	27.6	28.0
8H	4H	25.1	25.7	25.5	26.1	26.4	26.3	26.8	26.7	27.2	27.6
	6H	25.4	25.9	25.9	26.3	26.7	26.6	27.1	27.0	27.5	27.9
	8H	25.6	26.0	26.0	26.4	26.8	26.8	27.2	27.2	27.6	28.1
	12H	25.6	26.0	26.1	26.4	26.9	27.0	27.3	27.4	27.8	28.2
12H	4H	25.1	25.6	25.5	26.0	26.4	26.2	26.8	26.6	27.1	27.5
	6H	25.5	25.9	25.9	26.3	26.7	26.6	27.0	27.1	27.4	27.9
	8H	25.6	26.0	26.1	26.4	26.9	26.8	27.2	27.3	27.6	28.1
Variations with the observer position at spacings:											
S = 1.0H	+ 1.1 / - 1.6					+ 1.8 / - 1.9					
1.5H	+ 2.3 / - 1.4					+ 3.4 / - 1.7					
2.0H	+ 1.1 / - 0.8					+ 2.2 / - 0.8					

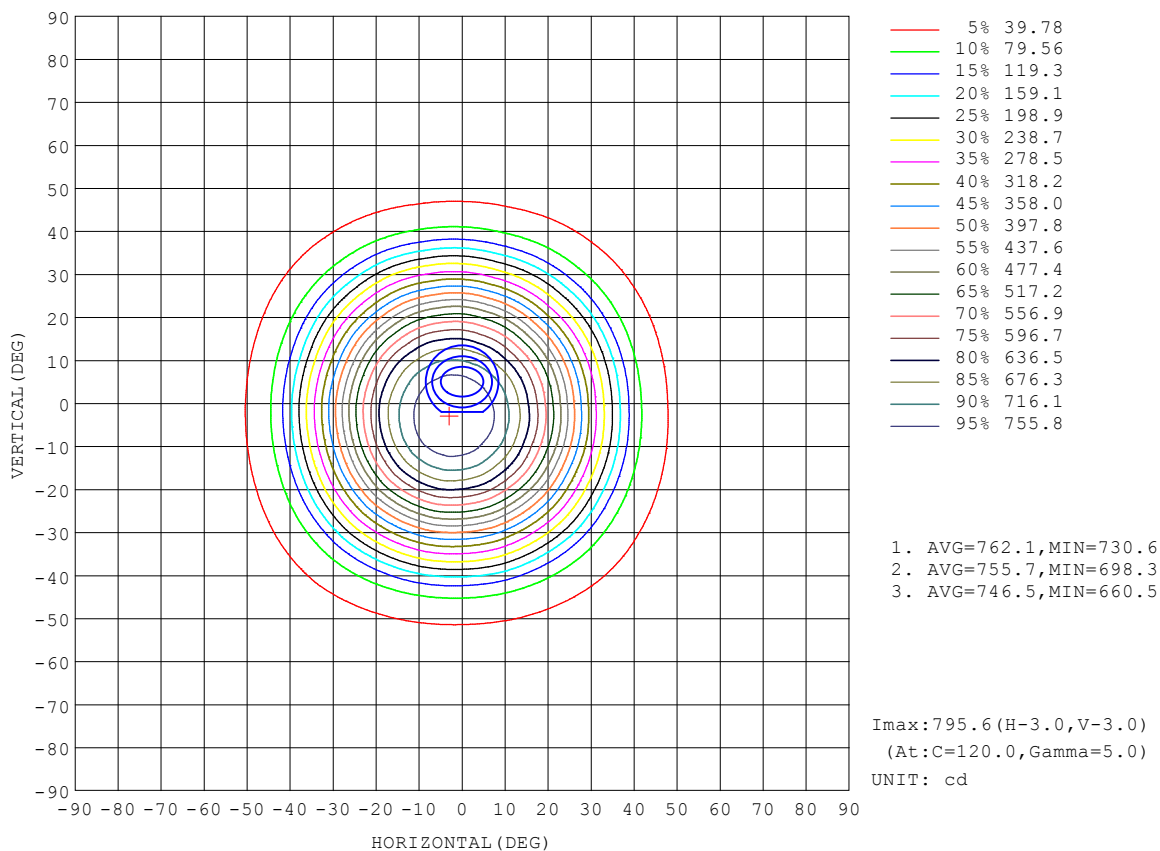
CIE Pub.117, 722.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.1)

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 4000K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:

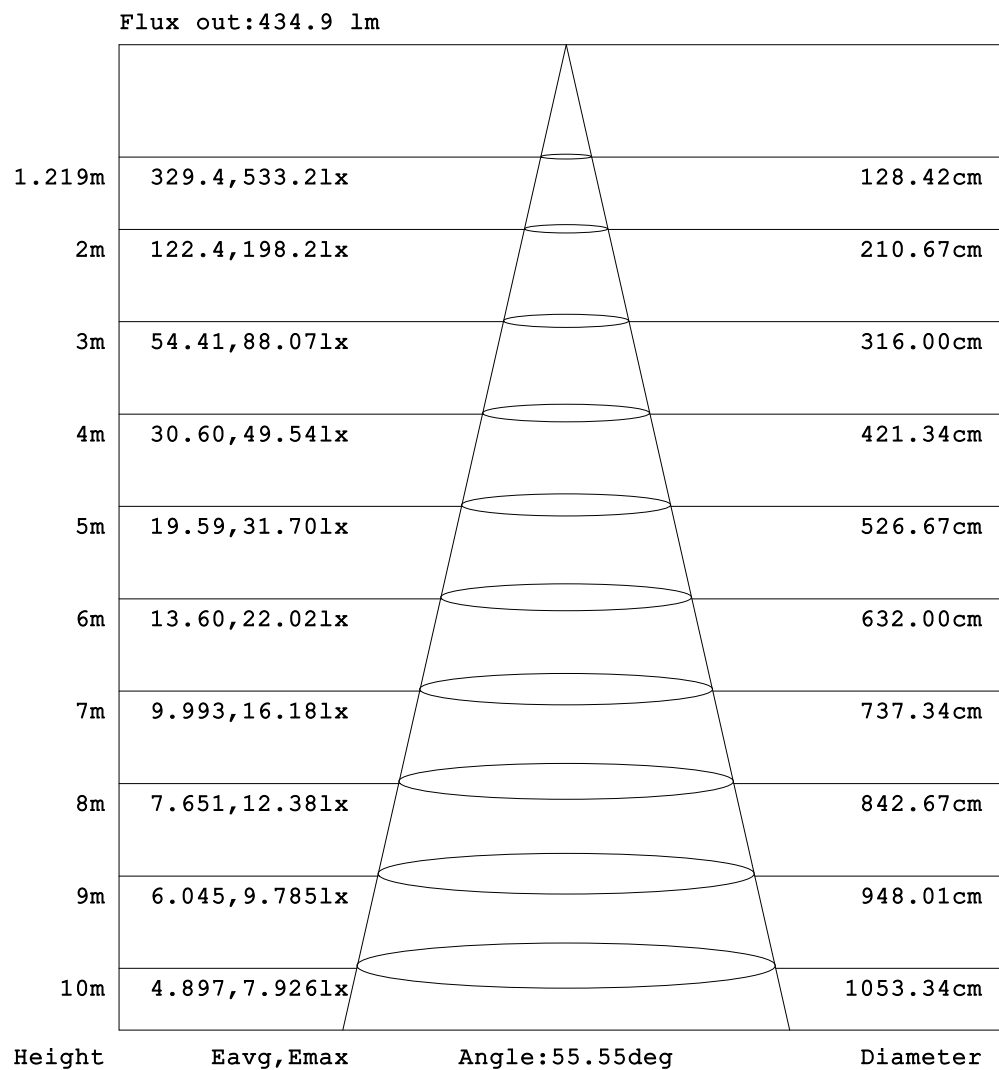


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-10-11

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 4000K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:



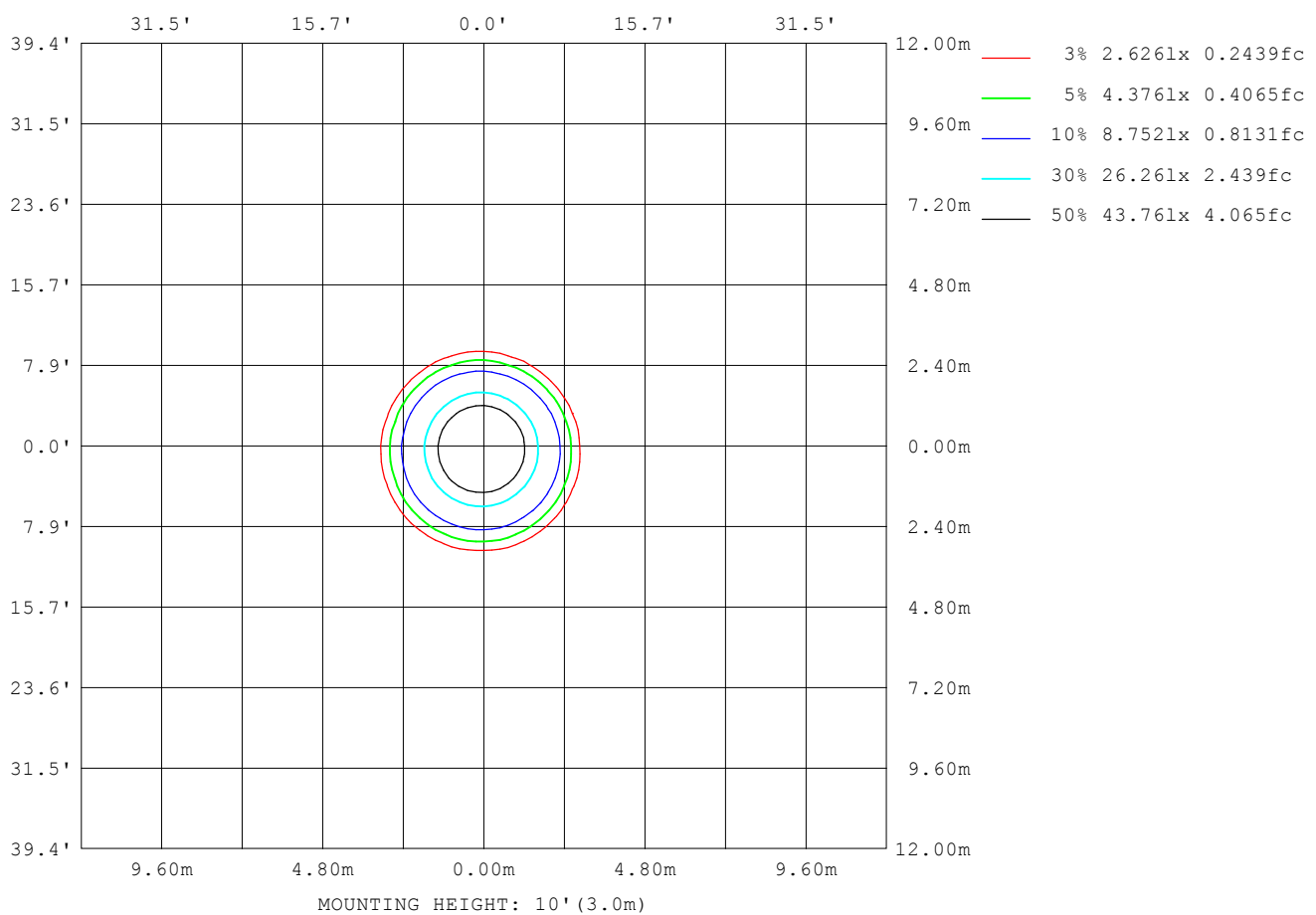
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 4000K	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 4000K	WEIGHT:
SPEC.:RAD25R-09-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:

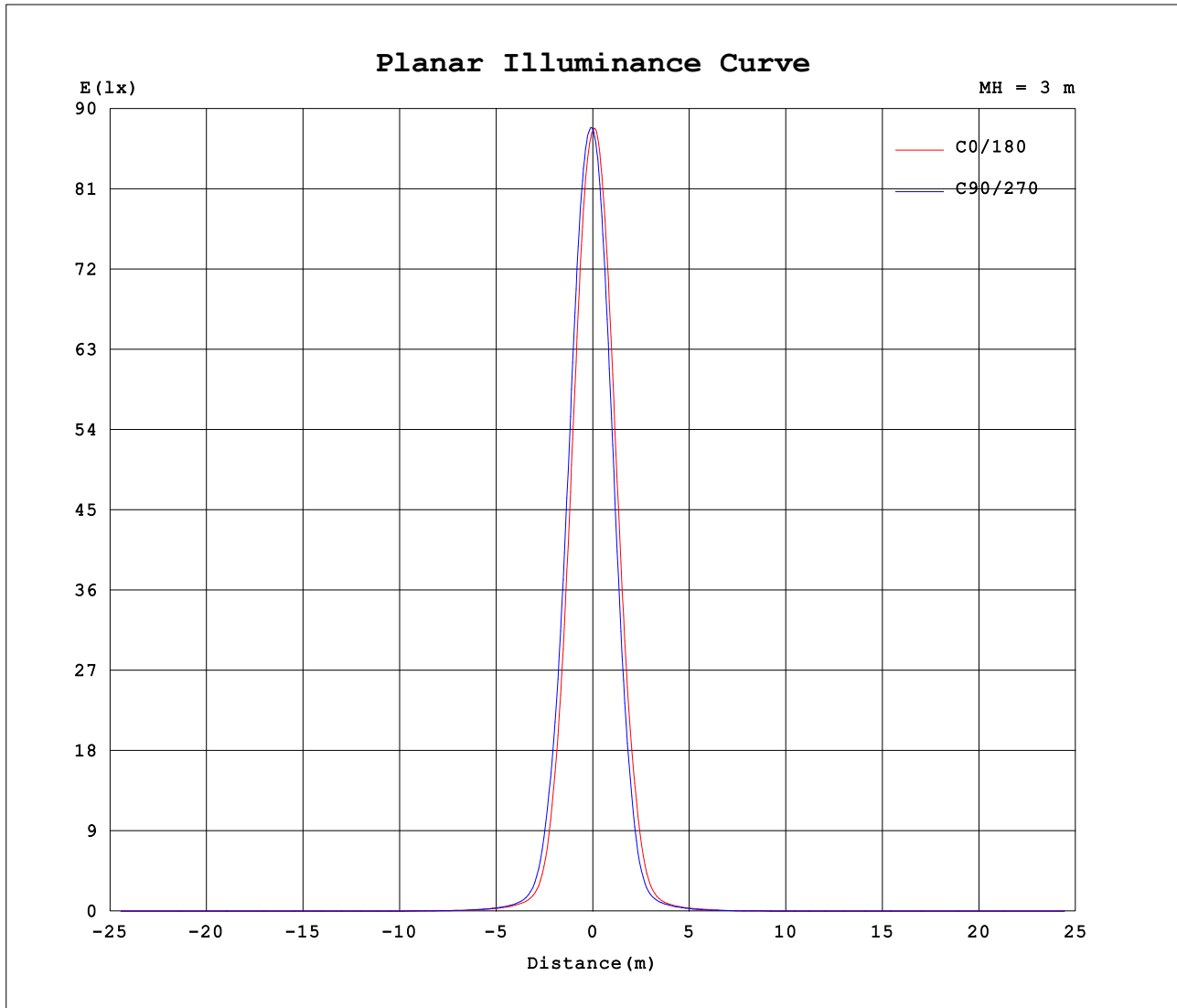
AvgL	cd/m2
L_0~180 (65) av	27211
L_0~180 (75) av	22976
L_0~180 (85) av	18419
L_90~270 (65) av	27664
L_90~270 (75) av	23013
L_90~270 (85) av	19045
L_45 (65) av	27480
L_45 (75) av	22952
L_45 (85) av	18662

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:

