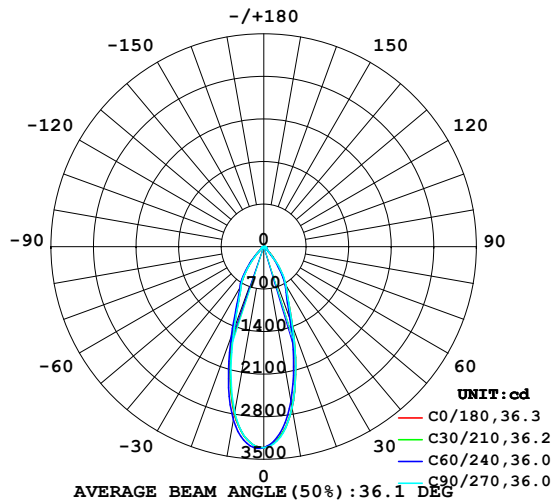


LUMINAIRE PHOTOMETRIC TEST REPORT

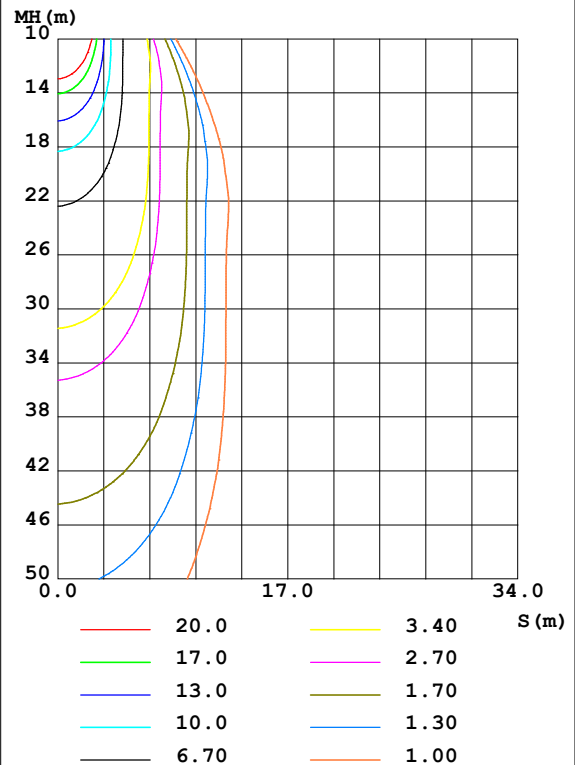
NAME:	TYPE:CRI90 2700K	WEIGHT:
SPEC.:RAD35R-20-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 99.03 lm/W
MODEL		I _{max} (cd)	3331	S/MH (C0/180)		0.61
NOMINAL POWER (W)	20	LOR (%)	100.0	S/MH (C90/270)		0.60
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1830.5	η UP, DN (C0-180)		0.0, 50.4
NOMINAL FLUX (lm)	1830.46	CIE CLASS	DIRECT	η UP, DN (C180-360)		0.0, 49.6
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:
Test Date: 2024-10-12

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	2694	2628	2691	2894	2793	2856	2766	2572	0- 10	288.4	288.4	15.8,15.8
20	1375	1318	1383	1597	1466	1554	1427	1258	10- 20	569.3	857.7	46.9,46.9
30	723.4	707.8	733.2	799.1	764.4	798.8	752.9	688.1	20- 30	458.4	1316	71.9,71.9
40	275.2	252.4	269.1	365.5	324.8	373.8	299.9	229.0	30- 40	325.3	1641	89.7,89.7
50	49.64	48.00	48.18	62.50	61.49	64.26	57.14	47.62	40- 50	100.7	1742	95.2,95.2
60	34.23	33.56	34.11	36.91	36.62	38.62	36.74	33.77	50- 60	38.16	1780	97.3,97.3
70	24.03	23.56	24.40	26.91	26.86	28.41	26.64	23.66	60- 70	30.10	1810	98.9,98.9
80	5.027	4.381	5.043	8.706	6.908	9.984	6.719	3.781	70- 80	18.19	1829	99.9,99.9
90	0.1409	0.1369	0.1383	0.1778	0.2656	0.3094	0.2573	0.2639	80- 90	1.902	1830	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): 1712.5 lm

%lum = 93.6%

%lamp = 93.6%

Conical surface Flux(120deg): 1780.3 lm

%lum = 97.3%

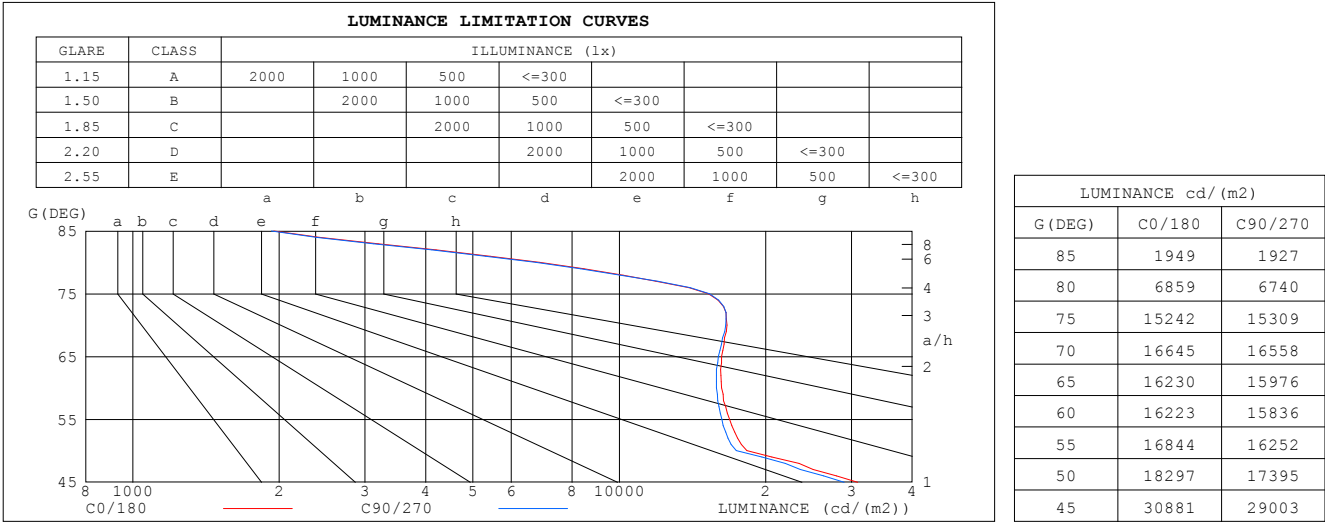
%lamp = 97.3%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-10-12

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.:RAD35R-20-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:



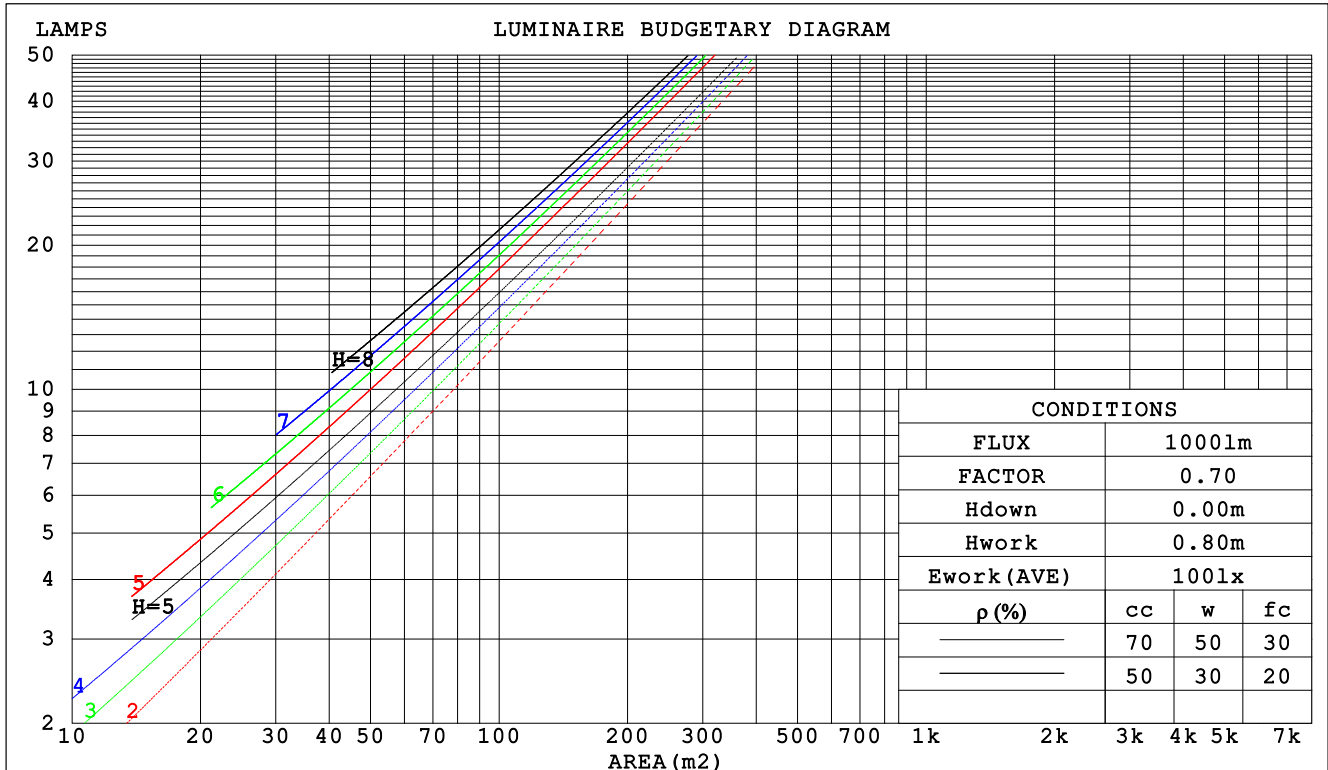
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-10-12

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.:RAD35R-20-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	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	1.08	1.06	1.08	1.06	1.04	1.04	1.03	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.95	1.01	.97	.94	.98	.95	.92	.95	.92	.90	.92	.90	.88	.87
3.0	.96	.91	.87	.95	.90	.86	.92	.88	.85	.90	.86	.84	.87	.85	.82	.81
4.0	.90	.85	.80	.89	.84	.80	.87	.82	.79	.85	.81	.78	.83	.80	.77	.76
5.0	.85	.79	.75	.84	.78	.74	.82	.77	.74	.80	.76	.73	.79	.75	.72	.71
6.0	.80	.74	.70	.79	.74	.70	.78	.73	.69	.76	.72	.69	.75	.71	.68	.67
7.0	.76	.70	.66	.75	.69	.65	.74	.69	.65	.72	.68	.65	.71	.67	.64	.63
8.0	.72	.66	.62	.71	.66	.62	.70	.65	.62	.69	.65	.61	.68	.64	.61	.60
9.0	.68	.62	.59	.68	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.58	.57
10.0	.65	.59	.56	.64	.59	.56	.64	.59	.55	.63	.58	.55	.62	.58	.55	.54



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-10-12

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.:RAD35R-20-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	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	.181 .103 .033	.174 .099 .032	.161 .093 .030	.150 .086 .028	.139 .081 .026	
2.0	.172 .094 .029	.166 .092 .028	.156 .087 .027	.146 .082 .026	.137 .077 .024	
3.0	.163 .087 .026	.158 .085 .025	.149 .081 .025	.140 .077 .024	.133 .073 .023	
4.0	.154 .080 .023	.150 .078 .023	.142 .075 .022	.135 .072 .022	.128 .069 .021	
5.0	.146 .074 .021	.142 .073 .021	.135 .070 .021	.129 .068 .020	.123 .066 .020	
6.0	.138 .069 .020	.135 .068 .020	.129 .066 .019	.124 .064 .019	.118 .062 .018	
7.0	.131 .065 .018	.129 .064 .018	.123 .062 .018	.118 .061 .018	.114 .059 .017	
8.0	.125 .061 .017	.123 .060 .017	.118 .059 .017	.114 .058 .017	.110 .056 .016	
9.0	.120 .058 .016	.117 .057 .016	.113 .056 .016	.109 .055 .016	.106 .054 .015	
10.0	.114 .055 .015	.112 .054 .015	.109 .053 .015	.105 .052 .015	.102 .051 .015	

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 .145	.147 .135 .124	.100 .093 .086	.058 .054 .050	.018 .017 .016	
2.0	.156 .132 .112	.134 .114 .097	.092 .079 .068	.053 .046 .040	.017 .015 .013	
3.0	.144 .114 .089	.123 .098 .078	.085 .068 .054	.049 .040 .032	.016 .013 .011	
4.0	.133 .099 .073	.114 .085 .063	.079 .060 .044	.046 .035 .026	.015 .011 .009	
5.0	.124 .087 .060	.107 .075 .052	.074 .053 .037	.043 .031 .022	.014 .010 .007	
6.0	.117 .078 .050	.100 .067 .044	.069 .047 .031	.040 .028 .018	.013 .009 .006	
7.0	.110 .070 .042	.095 .061 .037	.065 .043 .026	.038 .025 .016	.012 .008 .005	
8.0	.104 .064 .036	.090 .055 .032	.062 .039 .023	.036 .023 .013	.012 .008 .004	
9.0	.099 .059 .032	.085 .051 .028	.059 .036 .020	.034 .021 .012	.011 .007 .004	
10.0	.094 .054 .028	.081 .047 .024	.056 .033 .017	.033 .020 .010	.011 .006 .003	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-10-12

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.:RAD35R-20-CCT					DIM. :			SERIAL No.:1			
MFR. :					SUR.:ø74MM			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	18.7	19.6	18.9	19.8	20.0	18.3	19.2	18.5	19.4	19.6
	3H	19.1	19.9	19.3	20.1	20.3	18.7	19.6	19.0	19.8	20.0
	4H	19.3	20.1	19.5	20.3	20.5	18.9	19.7	19.2	20.0	20.2
	6H	19.3	20.1	19.6	20.3	20.6	18.9	19.7	19.2	20.0	20.2
	8H	19.3	20.0	19.6	20.3	20.5	18.9	19.7	19.2	19.9	20.2
	12H	19.2	19.9	19.5	20.2	20.5	18.9	19.6	19.2	19.8	20.1
4H	2H	18.7	19.5	18.9	19.7	19.9	18.3	19.1	18.6	19.3	19.5
	3H	19.2	19.9	19.5	20.2	20.5	18.9	19.6	19.2	19.9	20.1
	4H	19.5	20.2	19.9	20.5	20.8	19.2	19.8	19.5	20.1	20.4
	6H	19.6	20.2	20.0	20.5	20.8	19.2	19.8	19.6	20.1	20.5
	8H	19.6	20.1	20.0	20.4	20.8	19.2	19.7	19.6	20.1	20.5
	12H	19.5	20.0	19.9	20.4	20.8	19.2	19.6	19.6	20.0	20.4
8H	4H	19.6	20.1	19.9	20.4	20.8	19.2	19.7	19.6	20.1	20.5
	6H	19.6	20.1	20.1	20.5	20.9	19.3	19.7	19.7	20.1	20.5
	8H	19.6	20.0	20.1	20.4	20.8	19.2	19.6	19.7	20.0	20.5
	12H	19.6	19.9	20.0	20.3	20.8	19.2	19.5	19.7	20.0	20.4
12H	4H	19.5	20.0	19.9	20.4	20.8	19.2	19.7	19.6	20.0	20.4
	6H	19.6	20.0	20.0	20.4	20.8	19.2	19.6	19.7	20.0	20.5
	8H	19.6	19.9	20.0	20.3	20.8	19.2	19.5	19.7	20.0	20.4
Variations with the observer position at spacings:											
S = 1.0H		+ 2.0 / - 2.5					+ 2.4 / - 2.4				
1.5H		+ 4.0 / - 2.5					+ 4.5 / - 2.3				
2.0H		+ 1.4 / - 0.6					+ 1.4 / - 0.4				

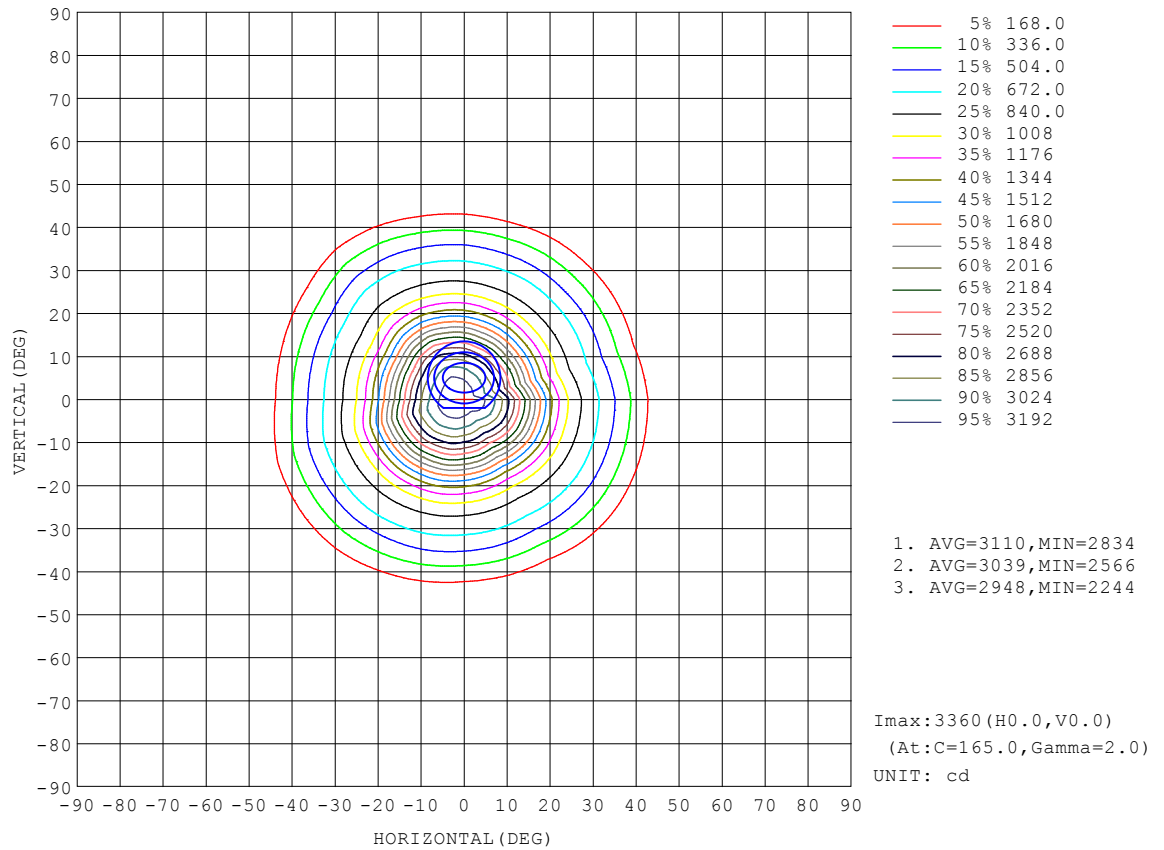
CIE Pub.117, 1830 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 2.1$)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-10-12

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.:RAD35R-20-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:

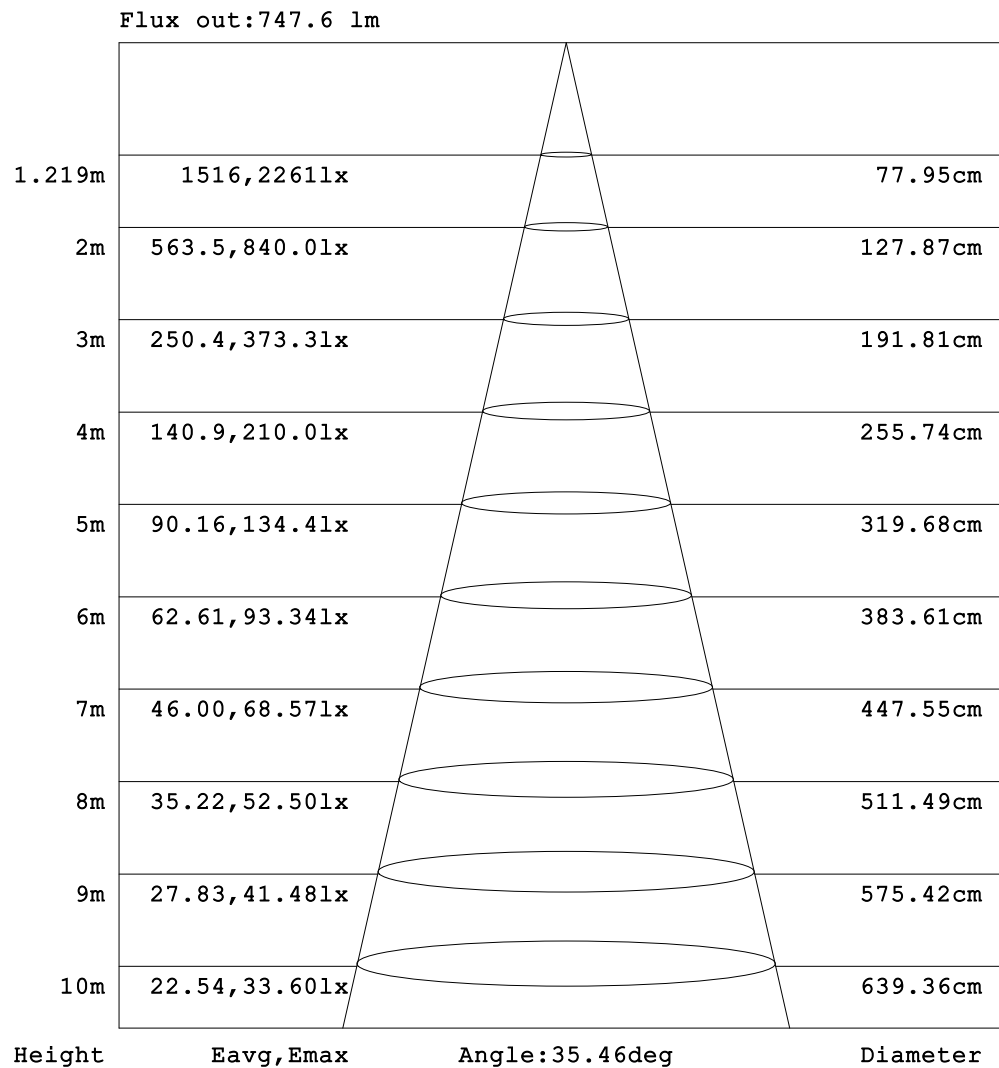


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-10-12

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.:RAD35R-20-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:



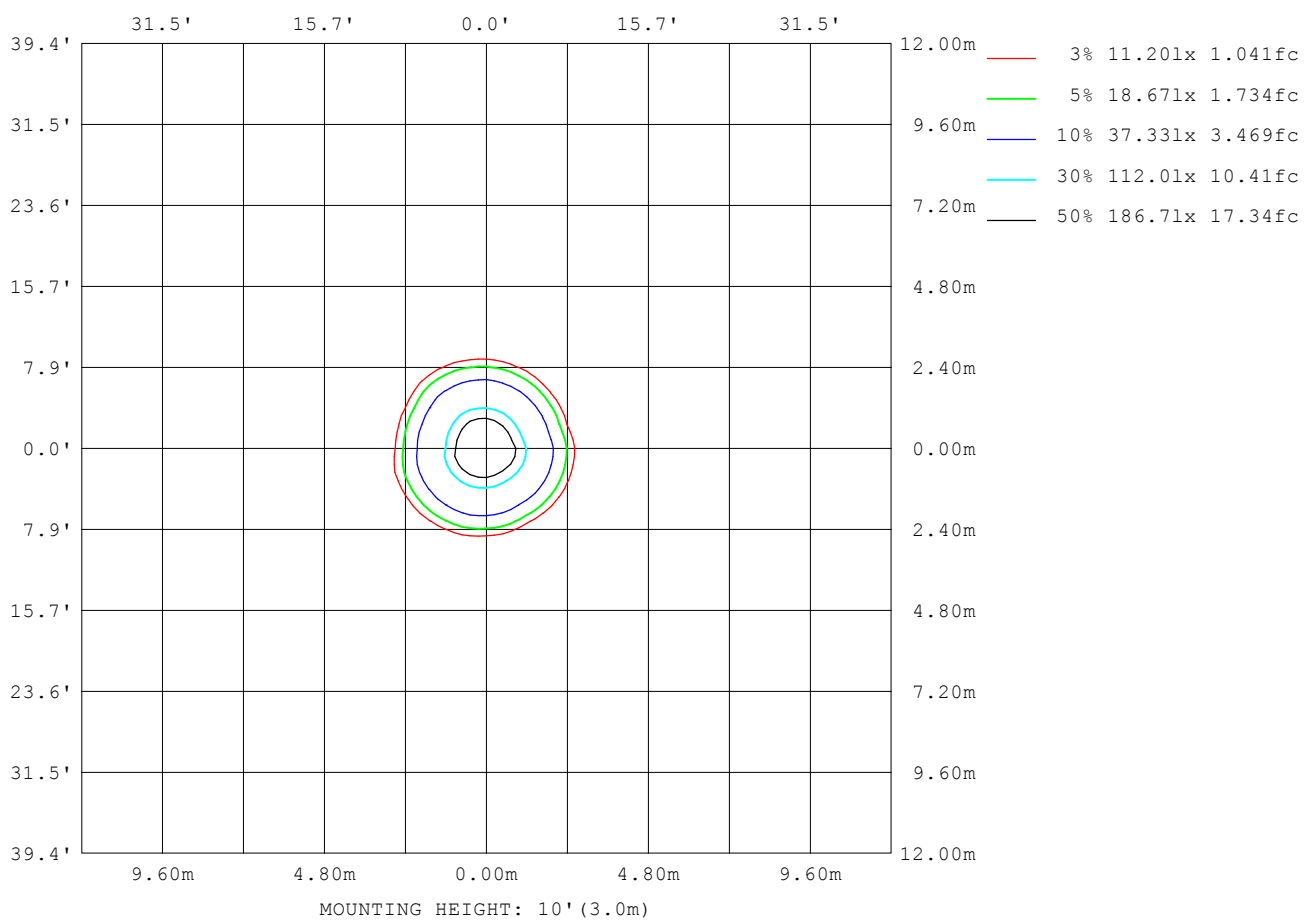
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-10-12

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.:RAD35R-20-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-10-12

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.:RAD35R-20-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:

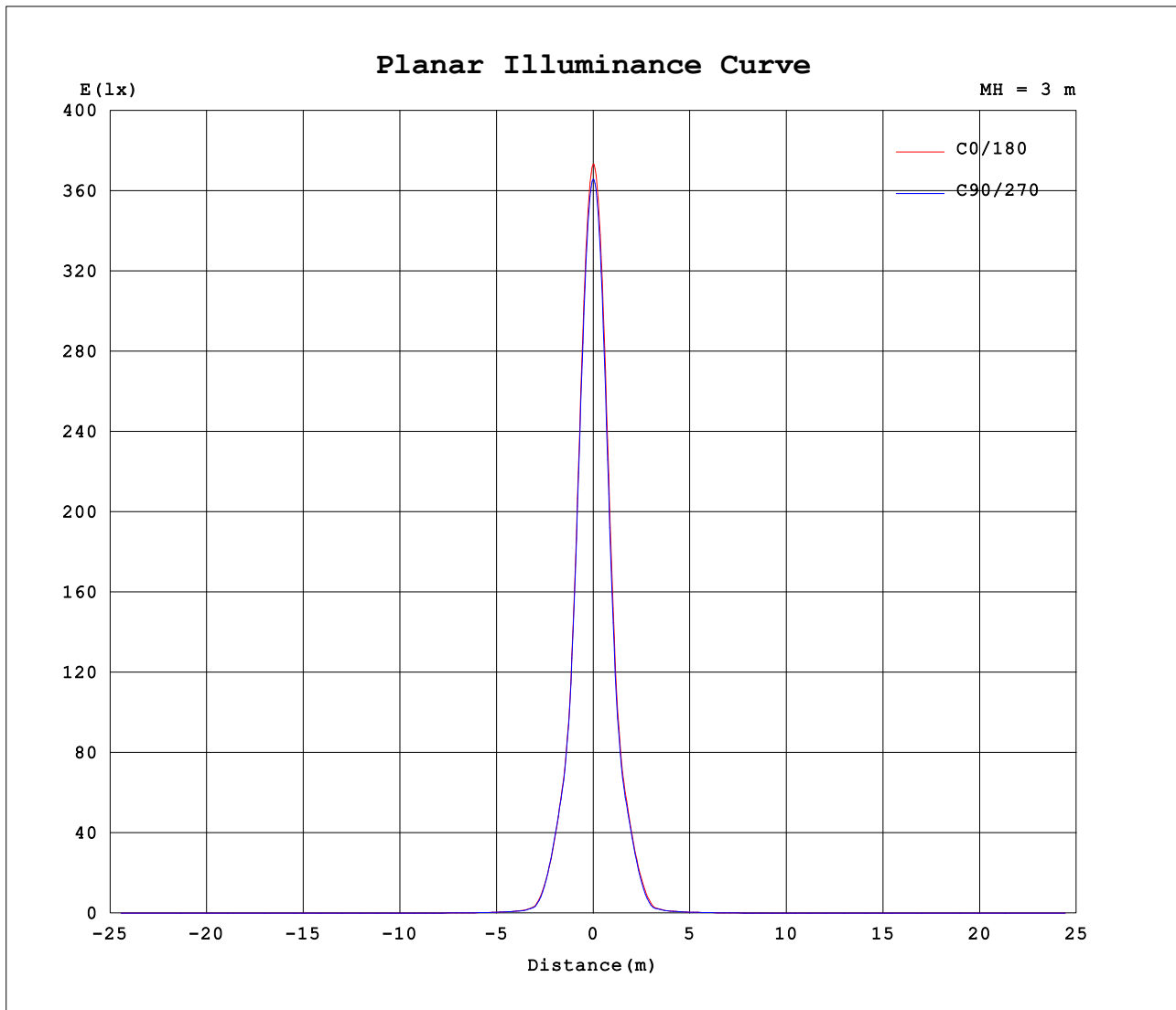
AvgL	cd/m2
L_0~180 (65) av	16667
L_0~180 (75) av	16612
L_0~180 (85) av	2464
L_90~270 (65) av	16697
L_90~270 (75) av	16665
L_90~270 (85) av	2419
L_45 (65) av	16799
L_45 (75) av	16788
L_45 (85) av	3047

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-10-12

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: 2024-10-12

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:

NAME :	TYPE:CRI90 2700K	WEIGHT:
SPEC.:RAD35R-20-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:

UNIT: cd

[illegible]

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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:

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