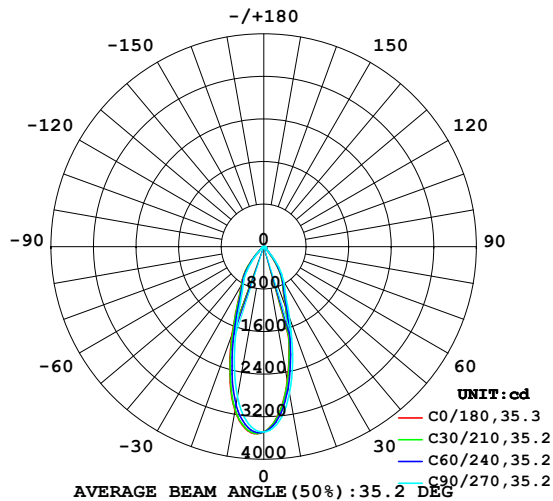


LUMINAIRE PHOTOMETRIC TEST REPORT

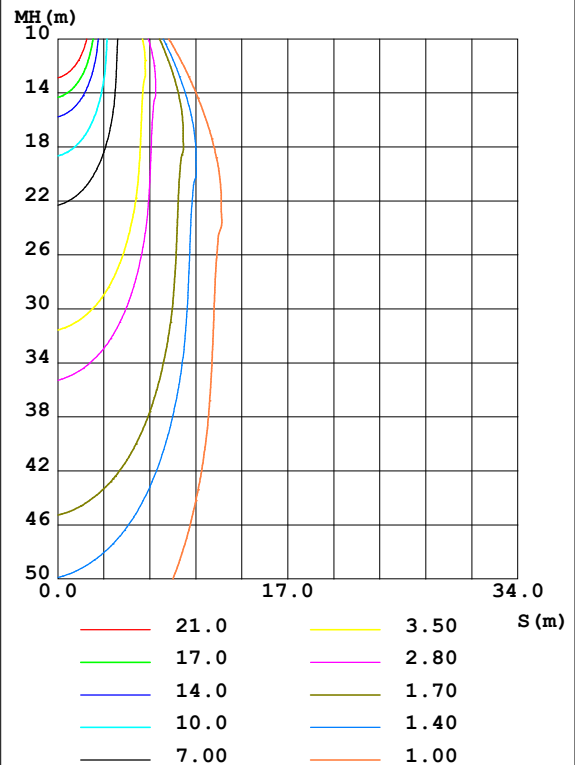
NAME:	TYPE:CRI90 3500K	WEIGHT:
SPEC.:RAD35R-20-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 101.71 lm/W			
MODEL		I _{max} (cd)	3520	S/MH (C0/180)	0.65
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH (C90/270)	0.58
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1880.1	η UP,DN (C0-180)	0.0,48.9
NOMINAL FLUX(lm)	1880.13	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,51.1
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	η down (%)	100.0	CIBSE SHR MAX	0.55

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	2559	2631	2799	3031	3133	3055	2871	2646	0- 10	301.7	301.7	16,16
20	1202	1253	1409	1636	1746	1645	1448	1264	10- 20	584.8	886.5	47.2,47.2
30	667.9	688.4	750.8	815.5	844.5	818.5	767.9	698.8	20- 30	467.5	1354	72,72
40	188.3	214.9	285.8	377.0	421.1	387.9	312.2	221.8	30- 40	332.3	1686	89.7,89.7
50	46.82	47.25	49.47	64.34	68.89	66.88	58.66	48.34	40- 50	103.4	1790	95.2,95.2
60	33.08	33.37	34.89	37.79	39.79	39.70	37.47	34.32	50- 60	39.19	1829	97.3,97.3
70	22.35	22.98	24.97	27.54	29.34	29.19	27.16	23.98	60- 70	30.72	1860	98.9,98.9
80	2.640	3.126	5.194	9.137	11.97	10.51	6.788	3.705	70- 80	18.48	1878	99.9,99.9
90	0.1432	0.1404	0.1433	0.2040	0.4076	0.3193	0.2617	0.2619	80- 90	2.066	1880	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): 1758.9 lm

%lum = 93.6%

%lamp = 93.6%

Conical surface Flux(120deg): 1828.9 lm

%lum = 97.3%

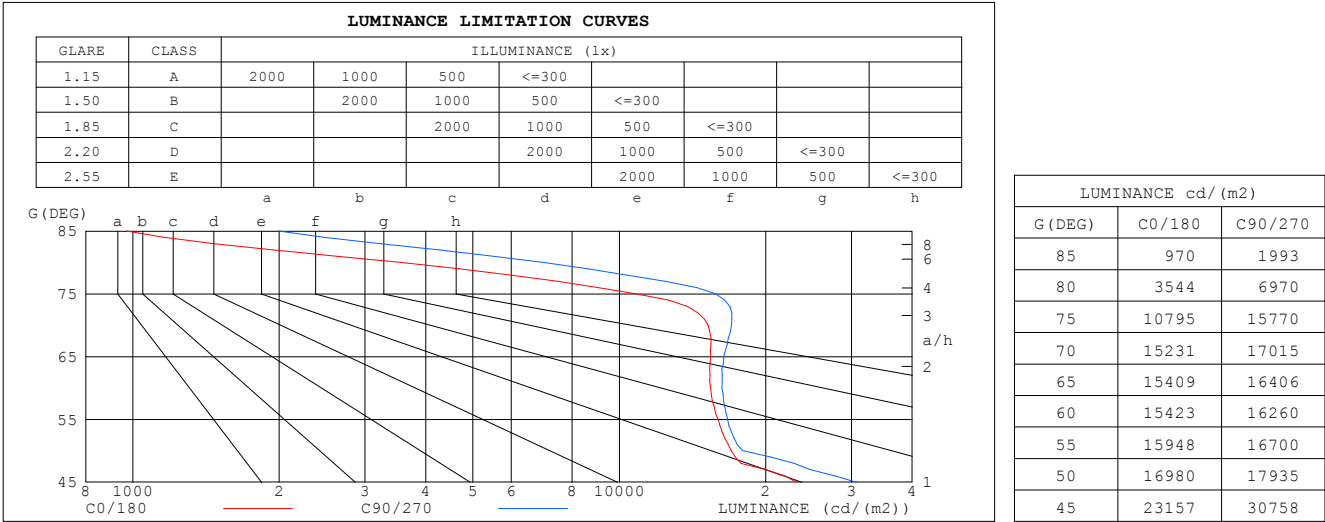
%lamp = 97.3%

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 3500K	WEIGHT:
SPEC.:RAD35R-20-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:



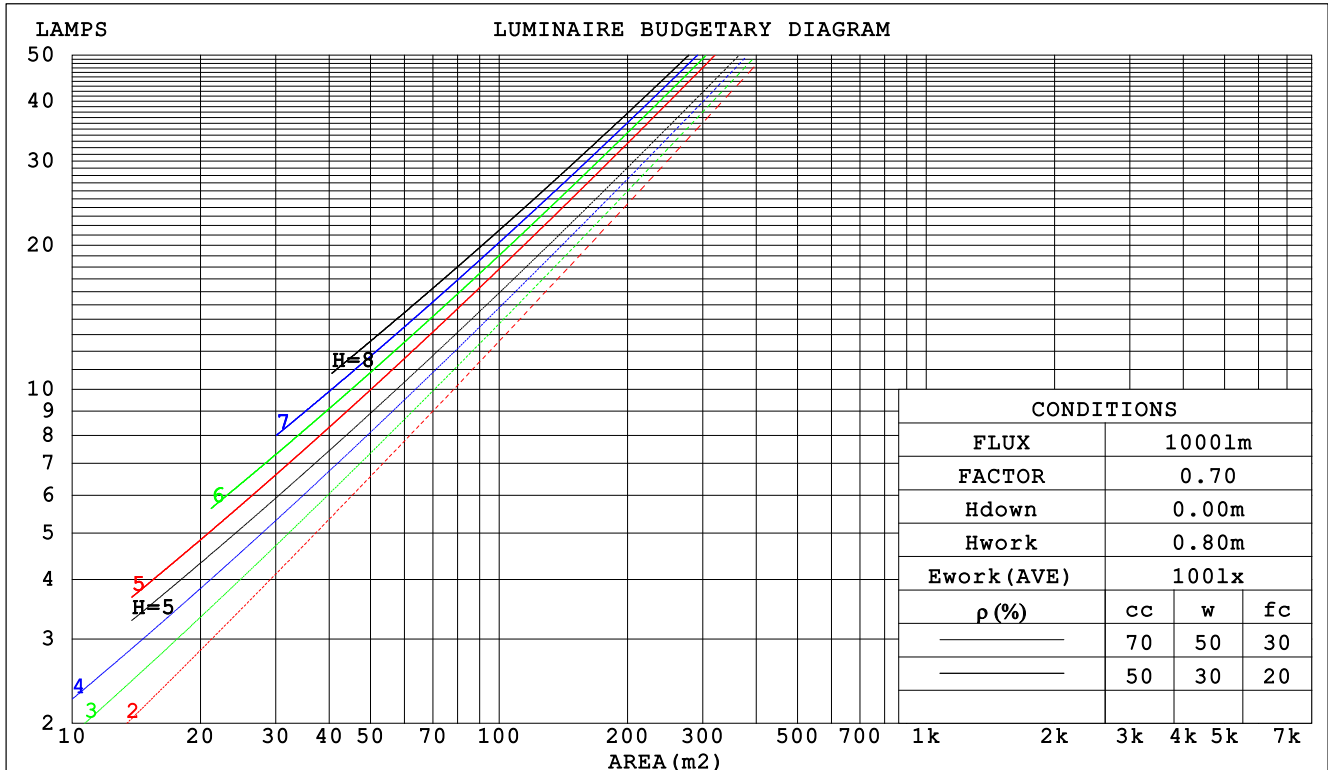
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-10-12

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 3500K	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	.98	.94	.98	.95	.92	.95	.93	.90	.92	.90	.88	.87
3.0	.96	.91	.87	.95	.90	.87	.92	.88	.85	.90	.87	.84	.87	.85	.83	.81
4.0	.90	.85	.81	.89	.84	.80	.87	.83	.79	.85	.81	.78	.83	.80	.77	.76
5.0	.85	.79	.75	.84	.79	.75	.82	.77	.74	.80	.76	.73	.79	.75	.73	.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	.70	.66	.74	.69	.65	.73	.68	.65	.71	.68	.65	.63
8.0	.72	.66	.62	.71	.66	.62	.70	.65	.62	.69	.65	.61	.68	.64	.61	.60
9.0	.68	.63	.59	.68	.62	.59	.67	.62	.58	.66	.61	.58	.65	.61	.58	.57
10.0	.65	.59	.56	.65	.59	.56	.64	.59	.56	.63	.59	.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 3500K	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 .031	.161 .092 .030	.150 .086 .028	.139 .081 .026	
2.0	.172 .094 .029	.166 .091 .028	.155 .086 .027	.146 .082 .026	.137 .077 .024	
3.0	.162 .086 .026	.157 .084 .025	.148 .080 .024	.140 .077 .024	.132 .073 .023	
4.0	.153 .080 .023	.149 .078 .023	.141 .075 .022	.134 .072 .022	.127 .069 .021	
5.0	.145 .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	.123 .064 .019	.118 .062 .018	
7.0	.131 .065 .018	.128 .064 .018	.123 .062 .018	.118 .061 .018	.114 .059 .017	
8.0	.125 .061 .017	.122 .060 .017	.118 .059 .017	.113 .057 .017	.109 .056 .016	
9.0	.119 .058 .016	.117 .057 .016	.113 .056 .016	.109 .055 .016	.105 .053 .015	
10.0	.114 .055 .015	.112 .054 .015	.108 .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 .113	.134 .114 .097	.092 .079 .068	.053 .046 .040	.017 .015 .013	
3.0	.144 .114 .090	.123 .098 .078	.085 .068 .054	.049 .040 .032	.016 .013 .011	
4.0	.133 .099 .073	.114 .085 .063	.079 .060 .044	.045 .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	.094 .061 .037	.065 .043 .026	.038 .025 .016	.012 .008 .005	
8.0	.104 .064 .036	.089 .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 3500K			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	17.4	18.3	17.6	18.5	18.6	18.2	19.2	18.5	19.3	19.5
	3H	17.8	18.7	18.1	18.9	19.1	18.6	19.5	18.9	19.7	19.9
	4H	18.0	18.8	18.3	19.0	19.3	18.9	19.7	19.2	19.9	20.1
	6H	18.0	18.7	18.3	19.0	19.2	18.9	19.7	19.2	19.9	20.2
	8H	17.9	18.7	18.2	18.9	19.2	18.9	19.6	19.2	19.9	20.1
	12H	17.9	18.6	18.2	18.9	19.1	18.8	19.5	19.1	19.8	20.1
4H	2H	17.4	18.2	17.7	18.4	18.7	18.2	19.0	18.5	19.2	19.5
	3H	18.1	18.8	18.4	19.1	19.3	18.8	19.5	19.1	19.8	20.1
	4H	18.3	19.0	18.7	19.3	19.6	19.1	19.8	19.5	20.1	20.4
	6H	18.3	18.9	18.7	19.2	19.5	19.2	19.8	19.6	20.1	20.4
	8H	18.3	18.8	18.6	19.1	19.5	19.1	19.7	19.5	20.0	20.4
	12H	18.2	18.7	18.6	19.1	19.4	19.1	19.6	19.5	20.0	20.3
8H	4H	18.3	18.9	18.7	19.2	19.6	19.1	19.6	19.5	20.0	20.4
	6H	18.3	18.8	18.8	19.2	19.6	19.2	19.6	19.6	20.0	20.4
	8H	18.3	18.7	18.7	19.1	19.5	19.1	19.5	19.6	19.9	20.4
	12H	18.2	18.6	18.7	19.0	19.5	19.1	19.4	19.6	19.9	20.3
12H	4H	18.3	18.8	18.7	19.1	19.5	19.1	19.6	19.5	19.9	20.3
	6H	18.3	18.7	18.7	19.1	19.5	19.1	19.5	19.6	19.9	20.4
	8H	18.2	18.6	18.7	19.0	19.5	19.1	19.4	19.6	19.9	20.3
Variations with the observer position at spacings:											
S = 1.0H		+ 2.0 / - 2.1					+ 2.5 / - 2.5				
1.5H		+ 3.9 / - 1.9					+ 4.5 / - 2.4				
2.0H		+ 1.0 / - 0.6					+ 1.6 / - 0.5				

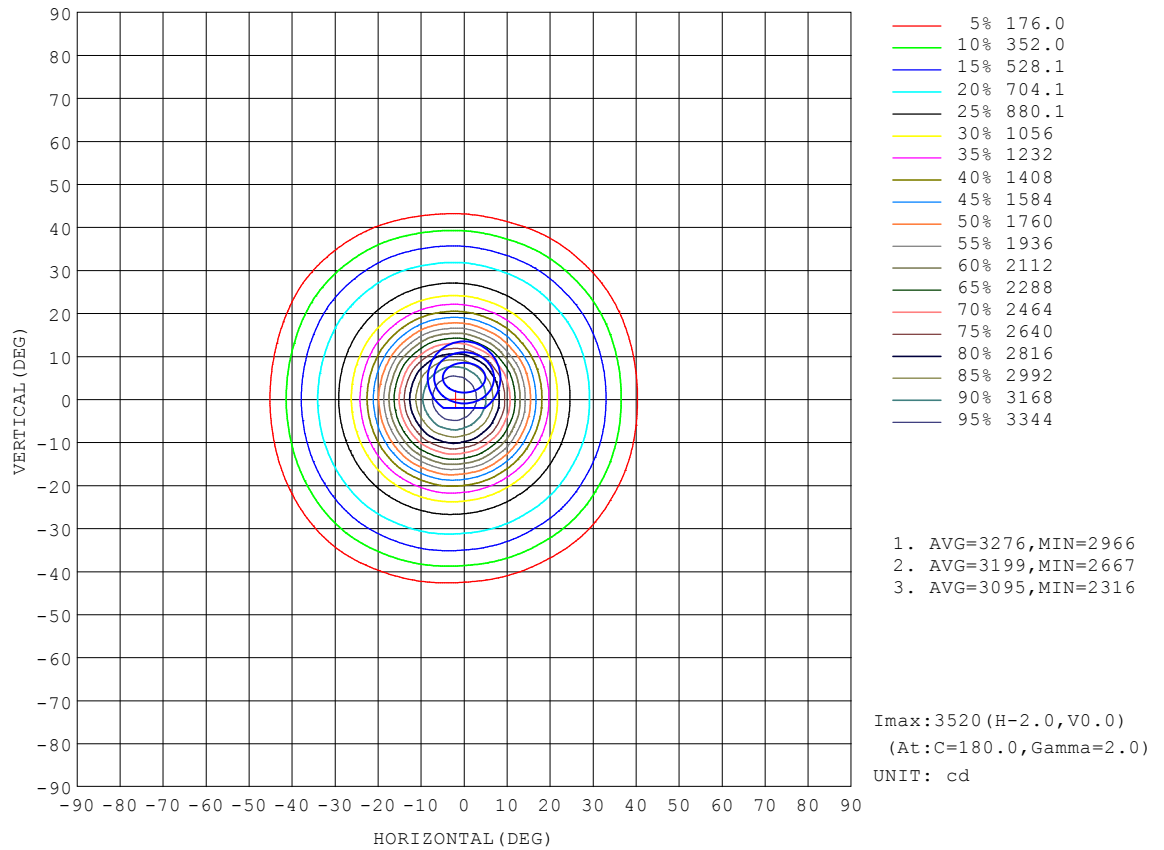
CIE Pub.117, 1880 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 2.2$)

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 3500K	WEIGHT:
SPEC.:RAD35R-20-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:

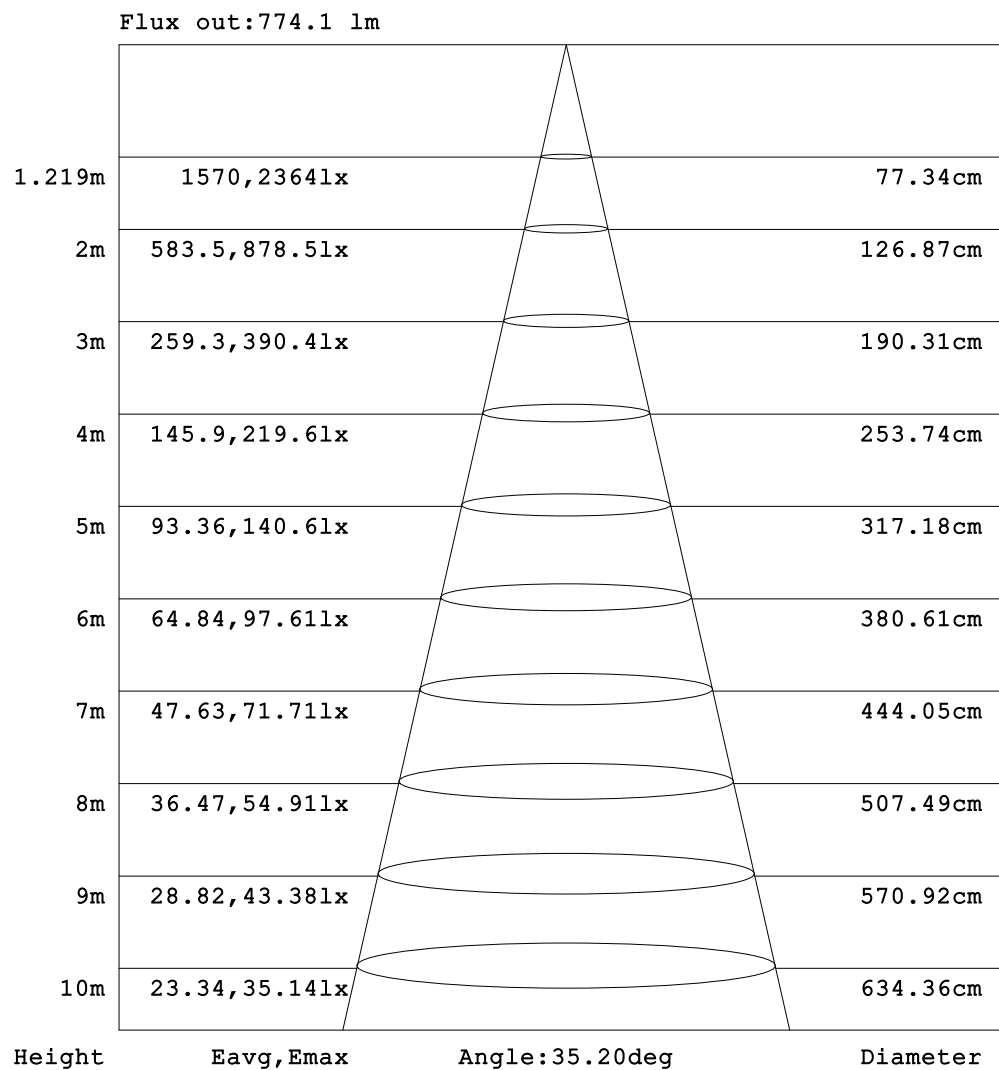


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-10-12

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 3500K	WEIGHT:
SPEC.:RAD35R-20-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:



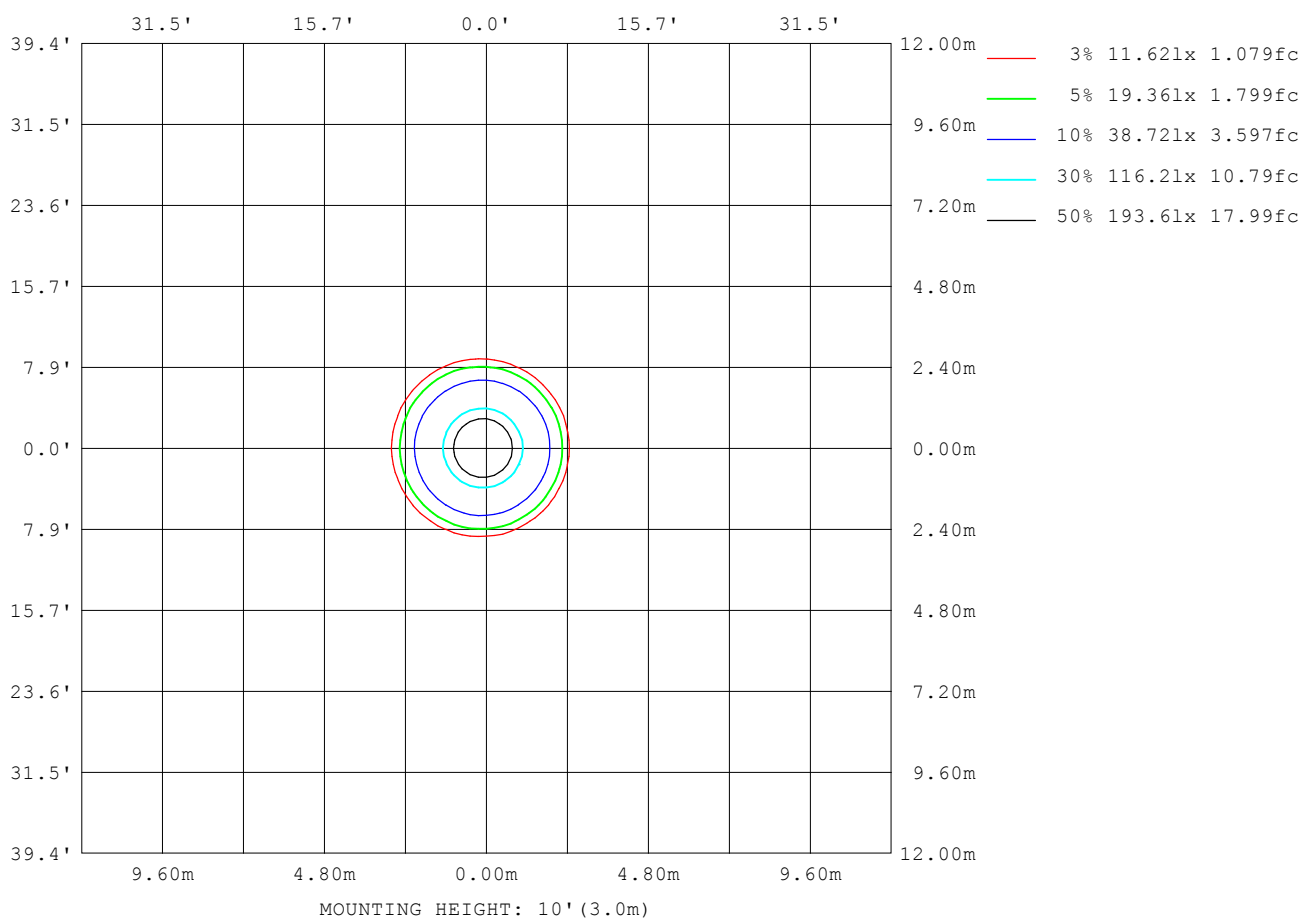
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 3500K	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 3500K	WEIGHT:
SPEC.:RAD35R-20-CCT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:

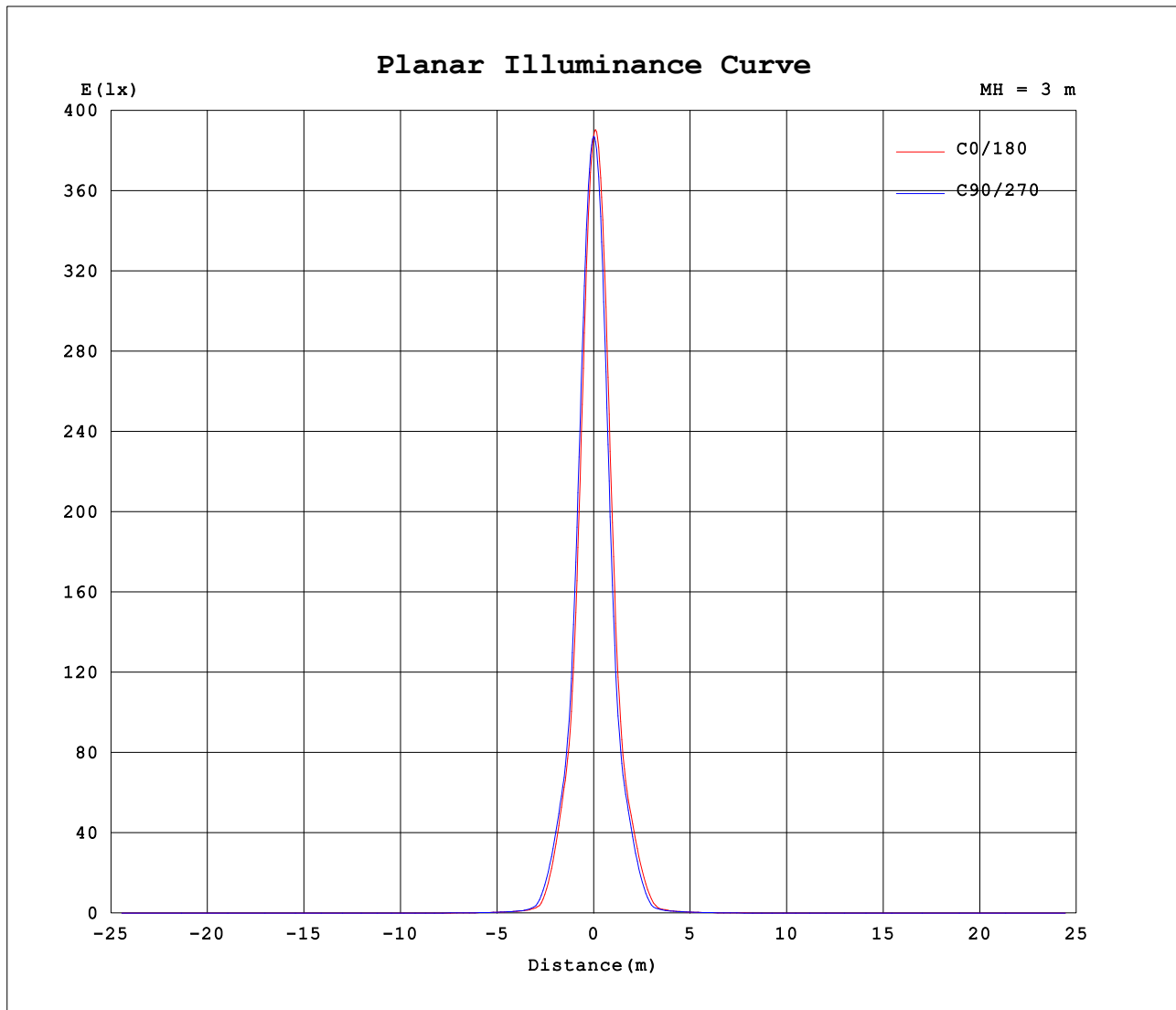
AvgL	cd/m2
L_0~180 (65) av	17117
L_0~180 (75) av	16135
L_0~180 (85) av	3687
L_90~270 (65) av	17049
L_90~270 (75) av	17029
L_90~270 (85) av	2458
L_45 (65) av	17065
L_45 (75) av	16545
L_45 (85) av	3045

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:

