









WEC AND CCEC

Test:U:230.45V I:0.1701A P:37.675W PF:0.9612 Freq:0Hz Lamp Flux:3577.47x1 lm		
NAME: LED PANNEL	TYPE:	WEIGHT:
SPEC.: 230V36W4000K	DIM.:	SERIAL No.: S16731
MFR.:	SUR.: 0.555*0.555	Shielding Angle:

<input type="checkbox"/> cc	80%	70%	50%	30%	10%	0
<input type="checkbox"/> w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
<input type="checkbox"/> fc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio			Wall Exitance Coefficients(WEC)		
0.0						
1.0	.274 .156 .049	.267 .152 .048	.254 .145 .046	.241 .139 .045	.229 .133 .043	
2.0	.260 .142 .044	.253 .140 .043	.241 .134 .042	.230 .129 .040	.220 .125 .039	
3.0	.243 .129 .039	.237 .127 .038	.227 .123 .037	.217 .119 .036	.208 .115 .036	
4.0	.226 .118 .035	.221 .116 .034	.212 .112 .034	.203 .109 .033	.195 .106 .032	
5.0	.211 .108 .031	.207 .106 .031	.198 .103 .030	.191 .101 .030	.184 .098 .029	
6.0	.197 .099 .028	.194 .098 .028	.186 .095 .028	.179 .093 .027	.173 .091 .027	
7.0	.185 .092 .026	.182 .090 .026	.175 .088 .025	.169 .087 .025	.163 .085 .025	
8.0	.174 .085 .024	.171 .084 .024	.165 .082 .024	.159 .081 .023	.154 .079 .023	
9.0	.164 .079 .022	.161 .079 .022	.156 .077 .022	.151 .076 .022	.146 .074 .021	
10.0	.155 .074 .021	.152 .074 .021	.148 .072 .020	.143 .071 .020	.139 .070 .020	

<input type="checkbox"/> cc	80%	70%	50%	30%	10%	0
<input type="checkbox"/> w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
<input type="checkbox"/> fc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)		
0.0	.198 .198 .198	.170 .170 .170	.116 .116 .116	.067 .067 .067	.021 .021 .021	
1.0	.186 .164 .145	.159 .141 .125	.109 .097 .086	.063 .056 .050	.020 .018 .016	
2.0	.176 .140 .110	.151 .121 .095	.103 .083 .066	.060 .049 .039	.019 .016 .013	
3.0	.167 .122 .086	.143 .105 .075	.099 .073 .052	.057 .043 .031	.018 .014 .010	
4.0	.159 .109 .070	.137 .094 .061	.094 .065 .043	.054 .038 .025	.018 .012 .008	
5.0	.152 .098 .058	.130 .085 .051	.090 .059 .036	.052 .035 .021	.017 .011 .007	
6.0	.145 .090 .050	.125 .078 .043	.086 .054 .031	.050 .032 .018	.016 .010 .006	
7.0	.138 .083 .043	.119 .072 .038	.082 .050 .027	.048 .030 .016	.015 .010 .005	
8.0	.132 .077 .038	.114 .067 .034	.079 .047 .024	.046 .028 .014	.015 .009 .005	
9.0	.127 .072 .035	.109 .062 .030	.076 .044 .021	.044 .026 .013	.014 .008 .004	
10.0	.121 .068 .032	.105 .059 .028	.073 .041 .020	.042 .024 .012	.014 .008 .004	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:CJS  
 Test Date:2023-12-05

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.459  
 Humidity:65.0%  
 Test Distance:26.000m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.45V I:0.1701A P:37.675W PF:0.9612 Freq:0Hz Lamp Flux:3577.47x1 lm		
NAME: LED PANNEL	TYPE:	WEIGHT:
SPEC.: 230V36W4000K	DIM.:	SERIAL No.: S16731
MFR.:	SUR.: 0.555*0.555	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	15.9	17.3	16.2	17.5	17.7	15.4	16.7	15.6	16.9	17.2
3H	16.7	18.0	17.0	18.2	18.5	16.2	17.5	16.5	17.7	18.0
4H	17.1	18.3	17.4	18.5	18.8	16.6	17.8	16.9	18.1	18.3
6H	17.4	18.5	17.8	18.8	19.1	16.9	18.1	17.3	18.4	18.6
8H	17.6	18.7	17.9	19.0	19.3	17.1	18.2	17.4	18.5	18.8
12H	17.7	18.7	18.1	19.0	19.4	17.2	18.2	17.5	18.5	18.9
4H 2H	16.3	17.5	16.6	17.8	18.0	15.8	17.0	16.2	17.3	17.6
3H	17.3	18.3	17.7	18.6	19.0	16.9	17.9	17.2	18.2	18.6
4H	17.8	18.8	18.2	19.1	19.4	17.4	18.3	17.8	18.7	19.0
6H	18.3	19.2	18.7	19.5	19.9	17.9	18.7	18.3	19.1	19.5
8H	18.6	19.3	19.0	19.7	20.1	18.1	18.9	18.5	19.3	19.7
12H	18.7	19.5	19.2	19.9	20.3	18.2	19.0	18.7	19.4	19.8
8H 4H	18.1	18.8	18.5	19.2	19.6	17.7	18.5	18.1	18.8	19.3
6H	18.8	19.4	19.2	19.8	20.3	18.4	19.0	18.8	19.4	19.9
8H	19.1	19.7	19.6	20.1	20.6	18.7	19.3	19.2	19.7	20.2
12H	19.4	19.9	19.9	20.3	20.8	18.9	19.4	19.4	19.9	20.4
12H 4H	18.1	18.8	18.5	19.2	19.6	17.7	18.4	18.2	18.8	19.3
6H	18.8	19.4	19.3	19.8	20.3	18.4	19.0	18.9	19.5	19.9
8H	19.2	19.7	19.7	20.2	20.7	18.8	19.3	19.3	19.8	20.3

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 0.4 / - 0.5	+ 0.5 / - 0.5
1.5H	+ 0.2 / - 0.6	+ 0.3 / - 0.6
2.0H	+ 0.8 / - 1.0	+ 0.9 / - 1.0

CIE Pub.117, 3577 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.4)  
Area: 0.308 m2

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
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Temperature:25.3°C  
Operators:CJS  
Test Date:2023-12-05

Range: 0 - 180DEG  
 Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.459  
Humidity:65.0%  
Test Distance:26.000m [K=1.0000]  
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.45V I:0.1701A P:37.675W PF:0.9612 Freq:0Hz Lamp Flux:3577.47x1 lm		
NAME: LED PANNEL	TYPE:	WEIGHT:
SPEC.: 230V36W4000K	DIM.:	SERIAL No.: S16731
MFR.:	SUR.: 0.555*0.555	Shielding Angle:

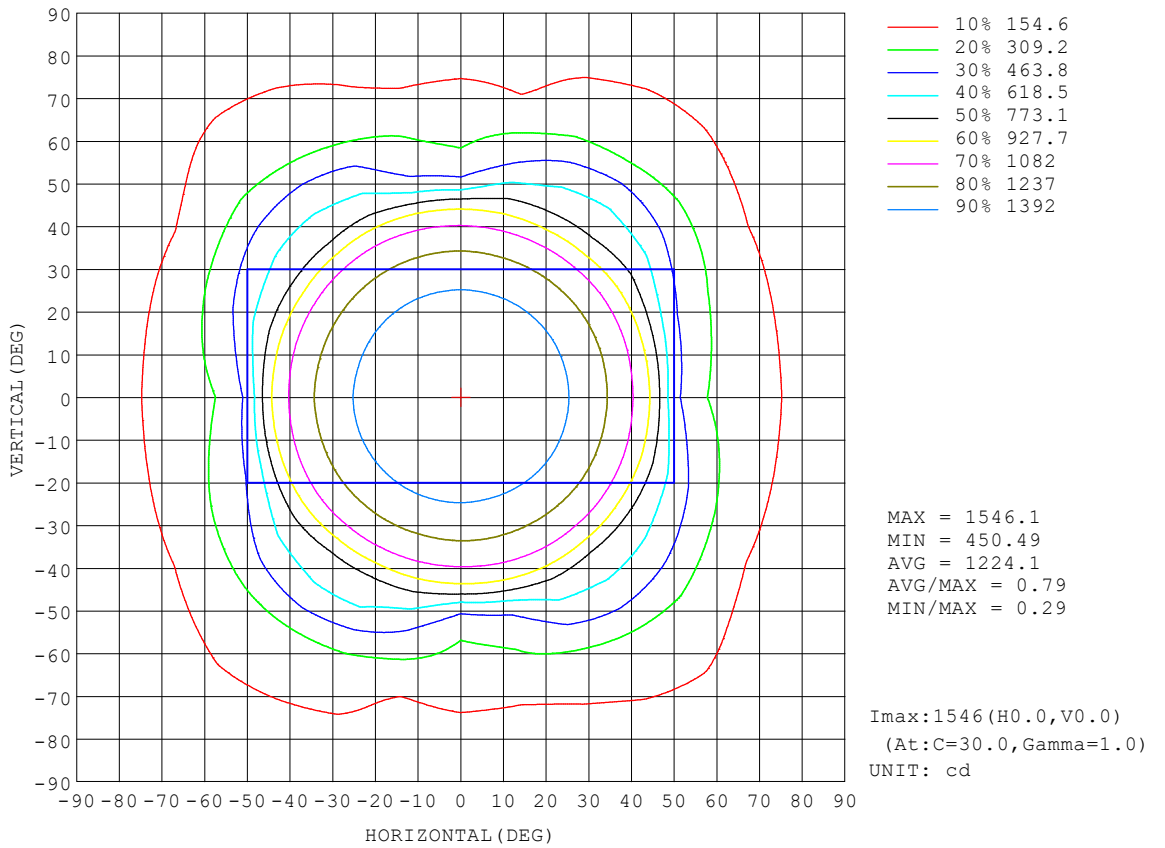
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	63	53	47	63	53	46	62	52	46	40
0.80	73	63	56	72	63	56	71	62	56	50
1.00	81	72	65	80	71	65	78	72	64	58
1.25	88	79	72	86	78	72	84	77	71	65
1.50	92	84	78	91	83	77	88	81	76	69
2.00	98	91	85	96	90	84	93	87	83	76
2.50	102	95	90	100	93	89	96	91	87	79
3.00	104	98	94	102	97	92	98	94	90	82
4.00	108	103	99	105	101	97	101	98	94	86
5.00	110	106	102	107	104	100	103	100	97	88
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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 Test Date:2023-12-05

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 Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.459  
 Humidity:65.0%  
 Test Distance:26.000m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.45V I:0.1701A P:37.675W PF:0.9612 Freq:0Hz Lamp Flux:3577.47x1 lm		
NAME: LED PANNEL	TYPE:	WEIGHT:
SPEC.: 230V36W4000K	DIM.:	SERIAL No.: S16731
MFR.:	SUR.: 0.555*0.555	Shielding Angle:



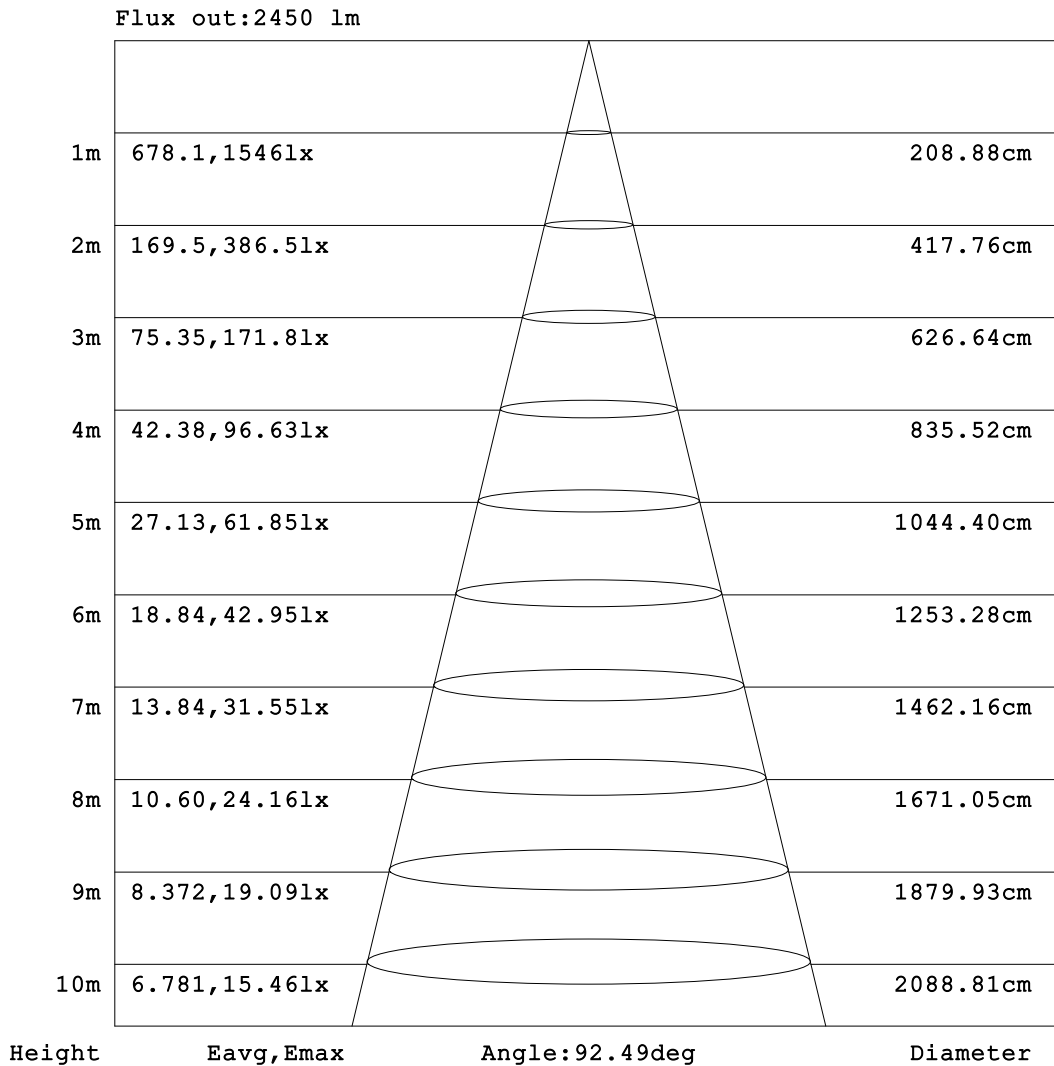
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:CJS  
 Test Date:2023-12-05

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.459  
 Humidity:65.0%  
 Test Distance:26.000m [K=1.0000]  
 Remarks:



**AAI Figure**

Test:U:230.45V I:0.1701A P:37.675W PF:0.9612 Freq:0Hz Lamp Flux:3577.47x1 lm		
NAME: LED PANNEL	TYPE:	WEIGHT:
SPEC.: 230V36W4000K	DIM.:	SERIAL No.: S16731
MFR.:	SUR.: 0.555*0.555	Shielding Angle:



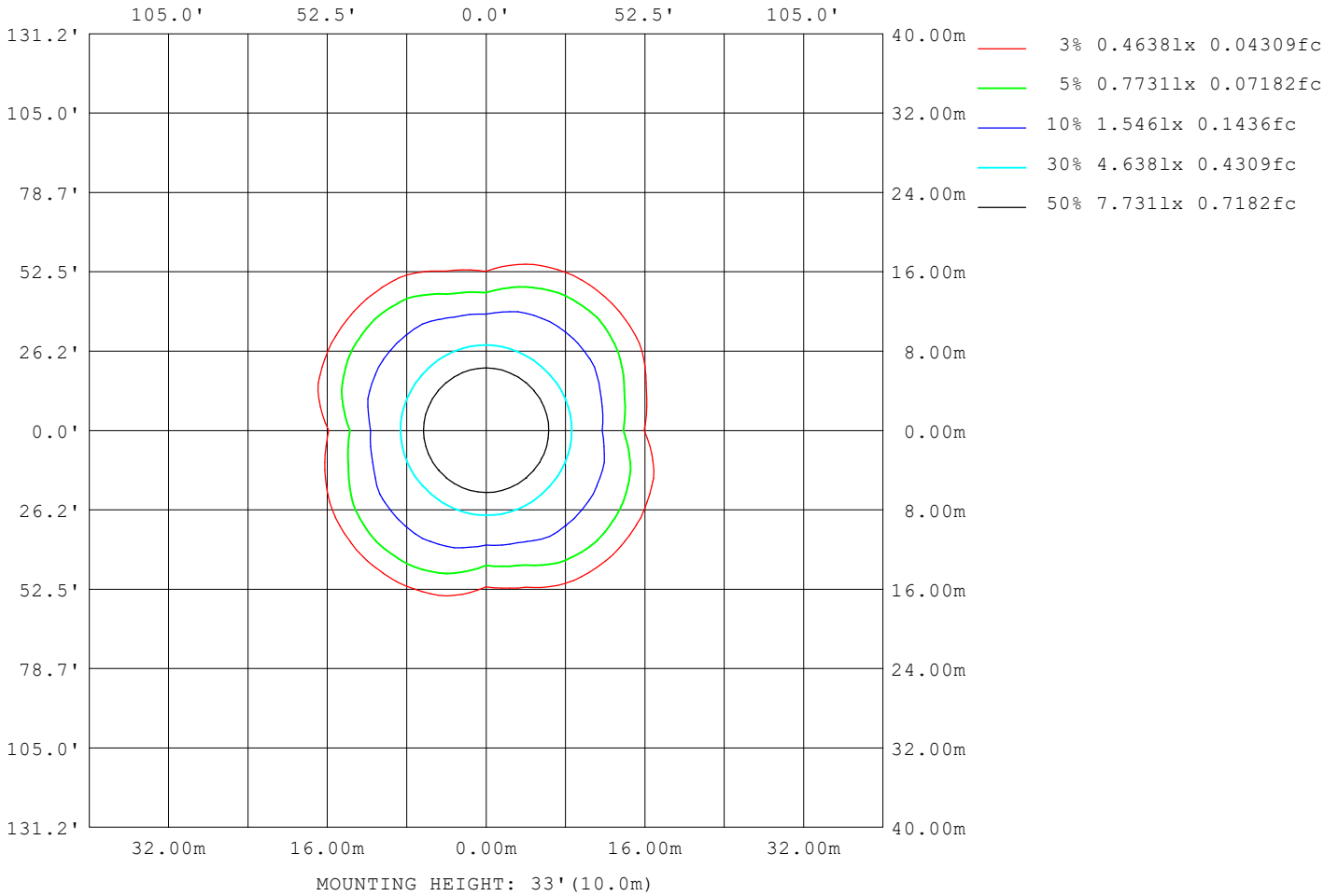
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: CJS  
 Test Date: 2023-12-05

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.459  
 Humidity: 65.0%  
 Test Distance: 26.000m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM

Test:U:230.45V I:0.1701A P:37.675W PF:0.9612 Freq:0Hz		
Lamp Flux:3577.47x1 lm		
NAME: LED PANNEL	TYPE:	WEIGHT:
SPEC.: 230V36W4000K	DIM.:	SERIAL No.: S16731
MFR.:	SUR.: 0.555*0.555	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:CJS  
 Test Date:2023-12-05

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.459  
 Humidity:65.0%  
 Test Distance:26.000m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:230.45V I:0.1701A P:37.675W PF:0.9612 Freq:0Hz Lamp Flux:3577.47x1 lm		
NAME: LED PANNEL	TYPE:	WEIGHT:
SPEC.: 230V36W4000K	DIM.:	SERIAL No.: S16731
MFR.:	SUR.: 0.555*0.555	Shielding Angle:

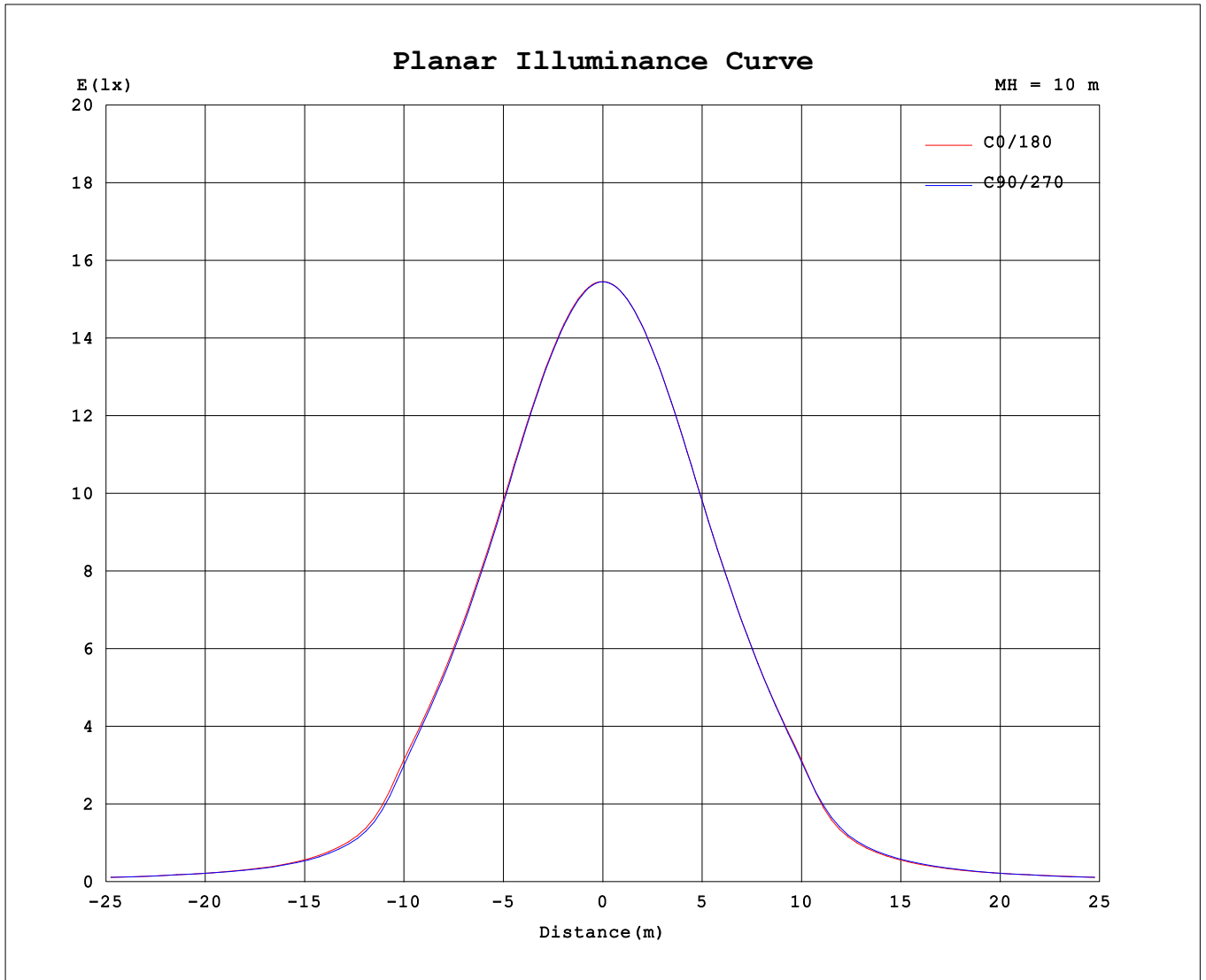
AvgL	cd/m2
L_0~180 (65) av	1862
L_0~180 (75) av	1935
L_0~180 (85) av	1806
L_90~270 (65) av	1872
L_90~270 (75) av	1803
L_90~270 (85) av	1752
L_45 (65) av	2096
L_45 (75) av	2091
L_45 (85) av	1940

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:CJS  
 Test Date:2023-12-05

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.459  
 Humidity:65.0%  
 Test Distance:26.000m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: CJS  
Test Date: 2023-12-05

Range: 0 - 180DEG  
 Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.459  
Humidity: 65.0%  
Test Distance: 26.000m [K=1.0000]  
Remarks: