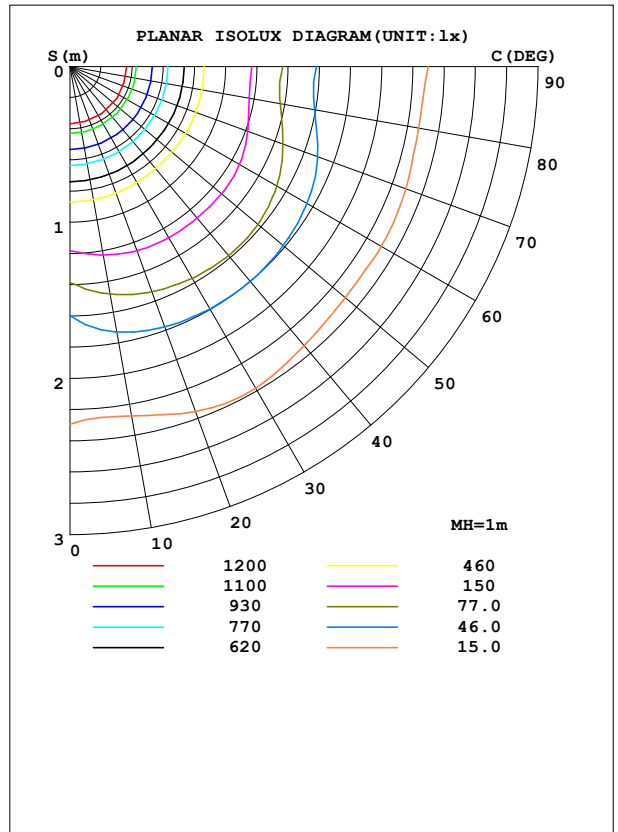
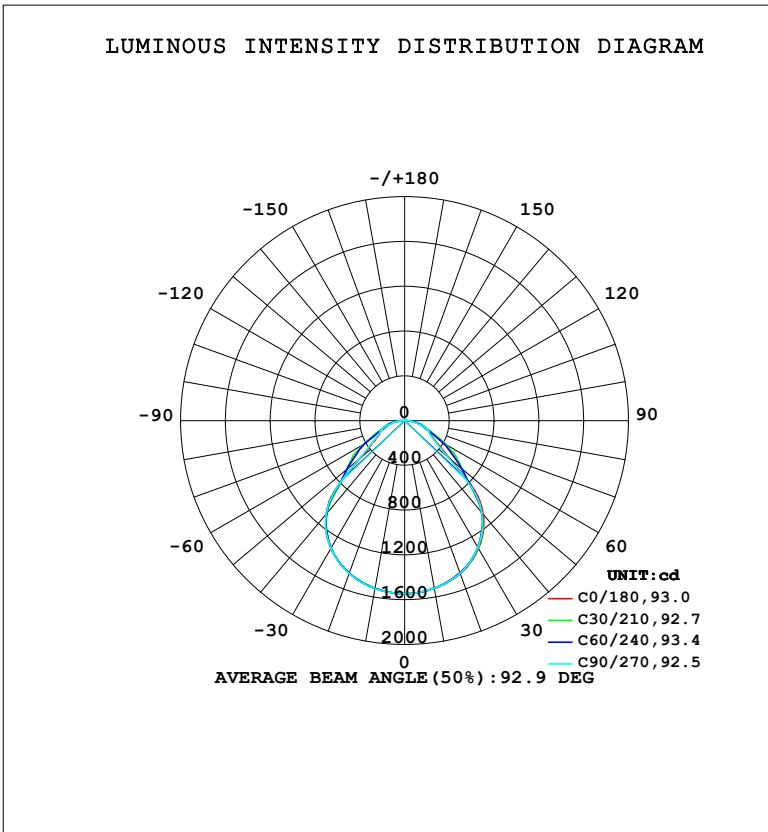


LUMINAIRE PHOTOMETRIC TEST REPORT

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:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL		Imax (cd)	1546	S/MH (C0/180)	1.26
NOMINAL POWER (W)	36	LOR (%)	100.0	S/MH (C90/270)	1.26
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	3577.5	<input type="checkbox"/> UP, DN (C0-180)	0.5,49.1
NOMINAL FLUX (lm)	3577.47	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.6,49.8
LAMPS INSIDE	1	<input type="checkbox"/> up (%)	1.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)		<input type="checkbox"/> down (%)	99.0	CIBSE SHR MAX	1.35



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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum,lamp
10	1523	1520	1520	1519	1522	1521	1524	1523	0- 10	146.4	146.4	4.09,4.09
20	1455	1447	1450	1446	1453	1448	1453	1449	10- 20	421.2	567.6	15.9,15.9
30	1319	1307	1307	1304	1319	1313	1318	1314	20- 30	640.4	1208	33.8,33.8
40	1093	1065	1073	1056	1092	1076	1090	1068	30- 40	754.7	1963	54.9,54.9
50	524.3	664.1	493.1	668.7	510.5	670.6	533.3	696.9	40- 50	656.5	2619	73.2,73.2
60	280.6	424.5	272.6	415.6	277.4	430.3	288.0	443.3	50- 60	438.6	3058	85.5,85.5
70	209.3	188.1	204.2	182.9	214.9	194.4	207.2	194.6	60- 70	269.3	3327	93,93
80	97.22	105.8	88.81	101.9	94.99	109.6	97.32	116.4	70- 80	158.6	3486	97.4,97.4
90	5.547	5.419	5.248	5.301	5.247	5.193	5.246	5.100	80- 90	54.34	3540	99,99
100	5.276	5.122	5.130	5.086	5.451	5.479	5.070	5.420	90-100	5.821	3546	99.1,99.1
110	5.213	5.122	5.130	5.069	6.266	6.313	5.845	6.135	100-110	5.698	3552	99.3,99.3
120	5.232	5.122	5.130	5.088	7.219	7.087	6.374	6.969	110-120	5.751	3557	99.4,99.4
130	5.271	5.122	5.130	5.106	8.111	7.093	7.336	7.087	120-130	5.464	3563	99.6,99.6
140	5.312	5.122	5.130	5.130	8.230	7.061	7.396	7.063	130-140	4.929	3568	99.7,99.7
150	5.367	5.122	5.273	5.223	8.230	7.102	7.860	7.039	140-150	4.054	3572	99.8,99.8
160	6.081	5.837	5.895	5.361	8.230	7.013	7.827	7.014	150-160	3.068	3575	99.9,99.9
170	6.906	6.066	6.804	5.984	8.148	6.902	7.159	6.987	160-170	1.975	3577	100,100
180	7.634	6.192	6.979	6.075	8.289	6.492	7.038	7.028	170-180	0.6676	3577	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2323.6 lm

%lum = 64.9%

%lamp = 64.9%

Conical surface Flux(130deg): 3211.7 lm

%lum = 89.8%

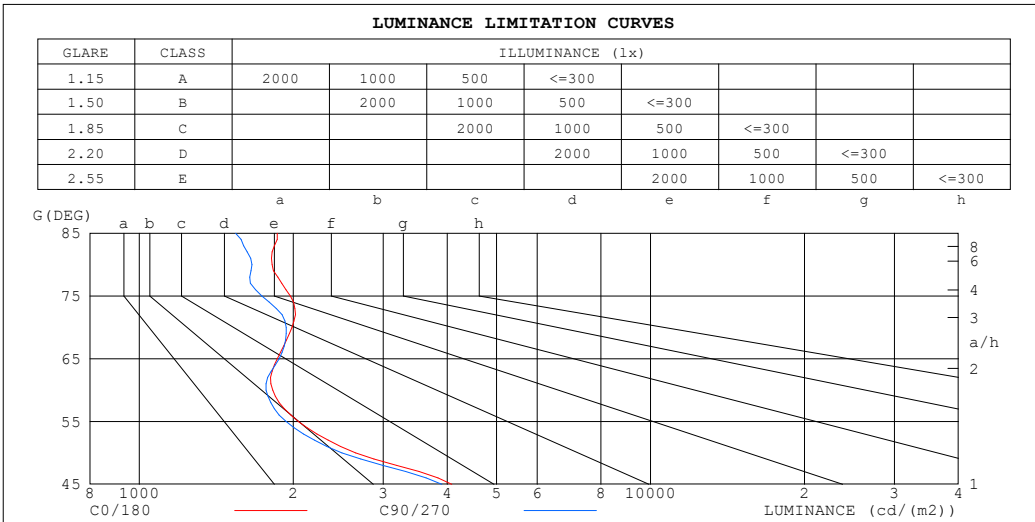
%lamp = 89.8%

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:

LUMINANCE LIMITATION CURVES

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:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1862	1543
80	1818	1660
75	1975	1736
70	1988	1938
65	1862	1876
60	1823	1770
55	2048	1936
50	2649	2490
45	4084	3904

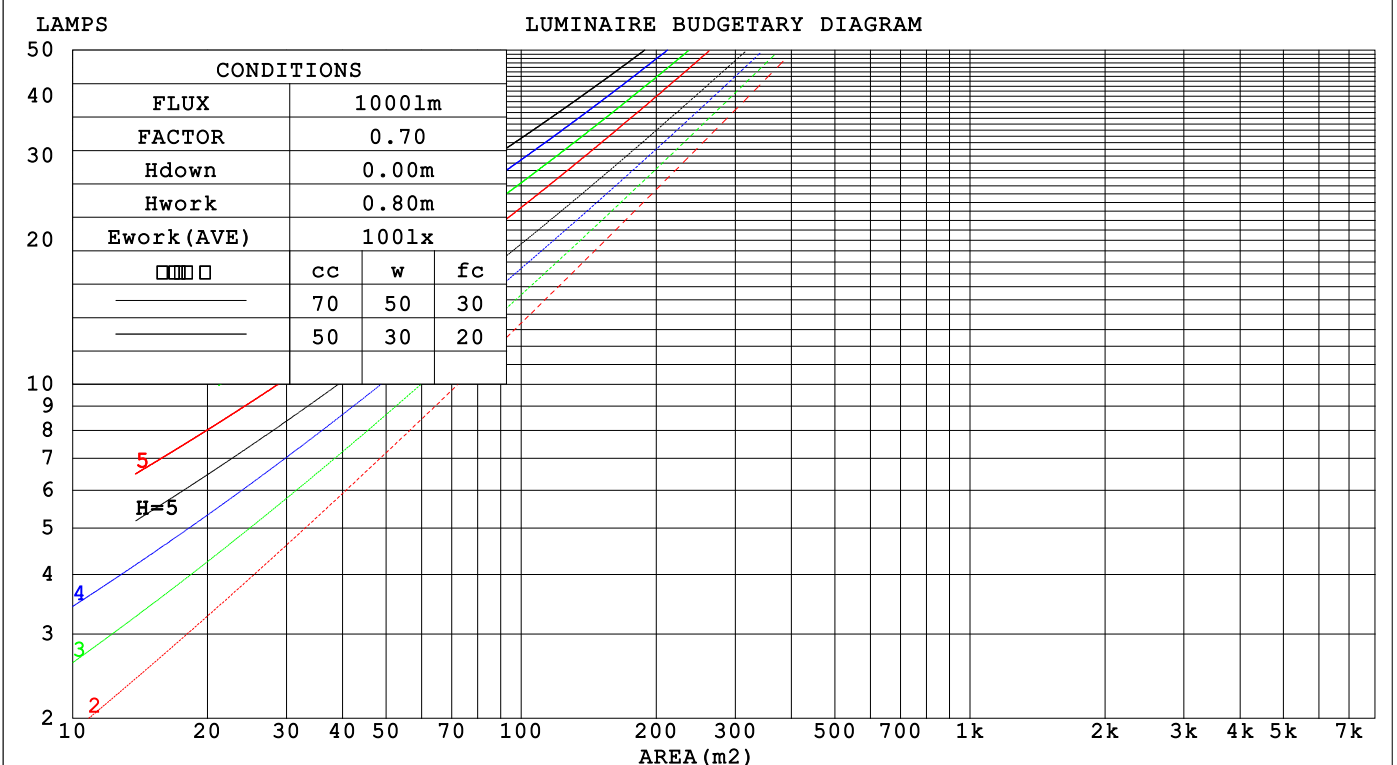
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: CJS
 Test Date: 2023-12-05

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE 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:

<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 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	1.01	1.01	1.01	.99
1.0	1.05	1.02	.98	1.03	.00	.97	.99	.96	.93	.95	.92	.90	.91	.89	.87	.85
2.0	.94	.87	.82	.92	.86	.81	.88	.83	.79	.85	.81	.77	.81	.78	.75	.73
3.0	.83	.76	.70	.82	.75	.69	.79	.73	.68	.76	.71	.67	.73	.69	.66	.63
4.0	.75	.67	.61	.73	.66	.60	.71	.64	.59	.68	.63	.58	.66	.61	.57	.55
5.0	.67	.59	.53	.66	.59	.53	.64	.57	.52	.62	.56	.51	.60	.55	.51	.49
6.0	.61	.53	.47	.60	.52	.47	.58	.51	.46	.57	.50	.46	.55	.50	.45	.43
7.0	.56	.48	.42	.55	.47	.42	.53	.46	.41	.52	.46	.41	.51	.45	.41	.39
8.0	.51	.43	.38	.51	.43	.38	.49	.42	.37	.48	.42	.37	.47	.41	.37	.35
9.0	.47	.39	.34	.47	.39	.34	.45	.39	.34	.44	.38	.34	.43	.38	.33	.32
10.0	.44	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.31	.40	.35	.31	.29



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:

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
 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:

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:

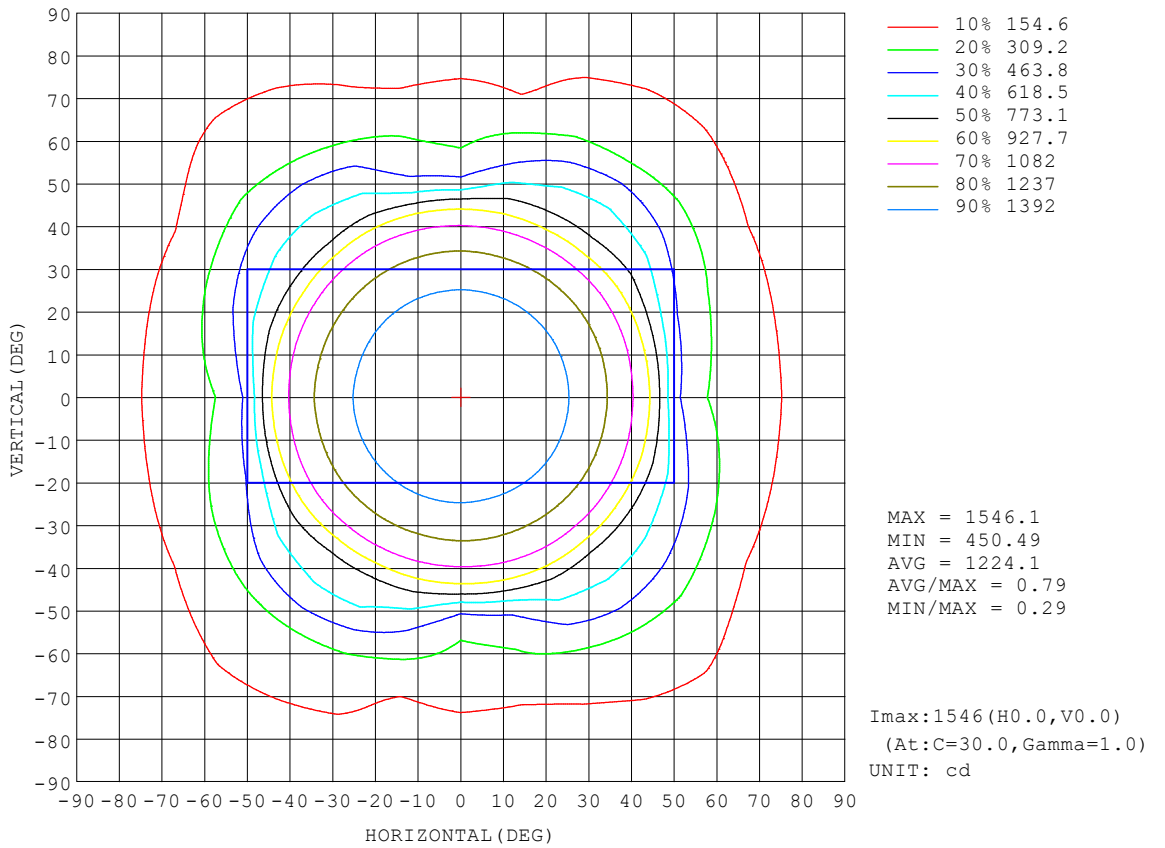
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	63	53	47	63	53	46	62	52	46	40
0.80	73	63	56	72	63	56	71	62	56	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			

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:

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:

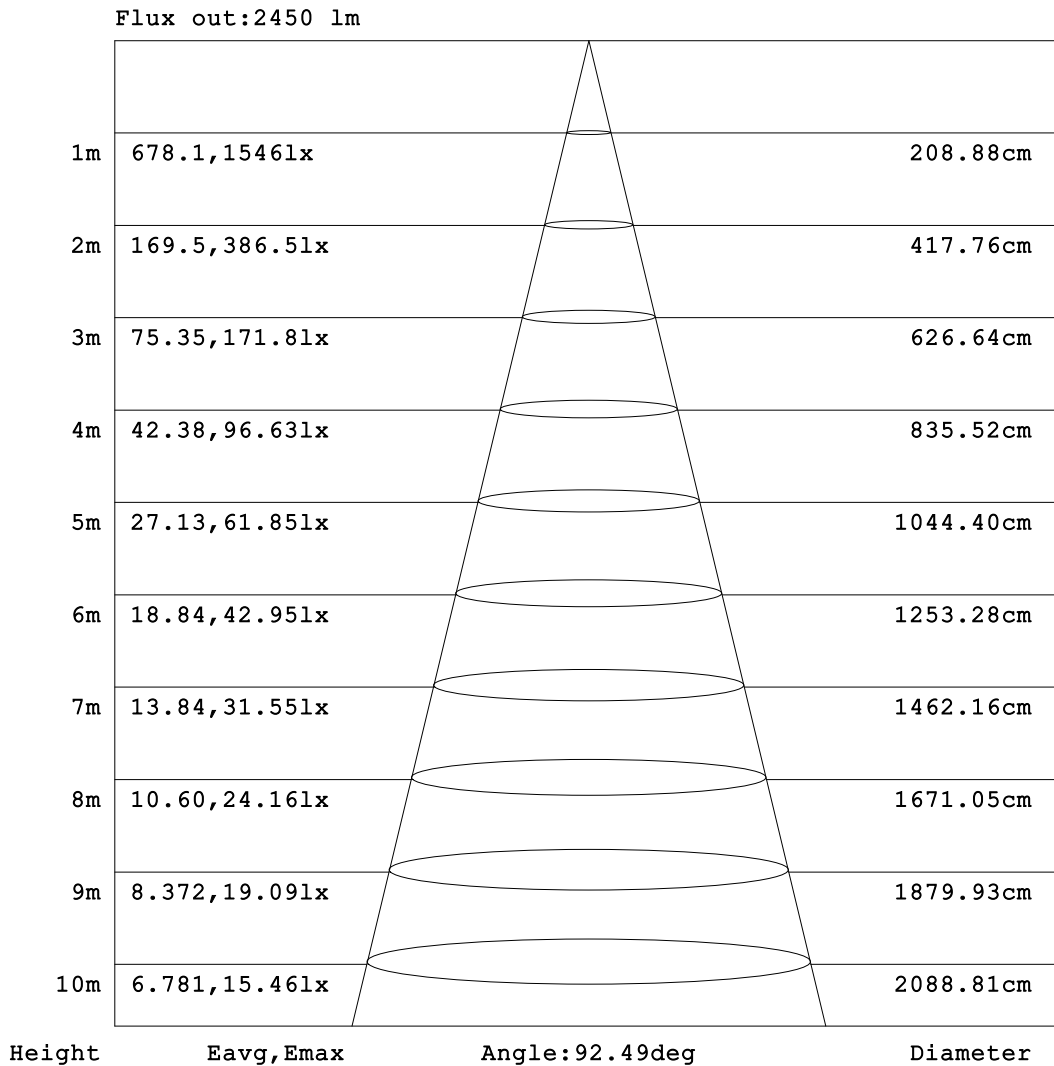


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:CJS
 Test Date:2023-12-05

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:



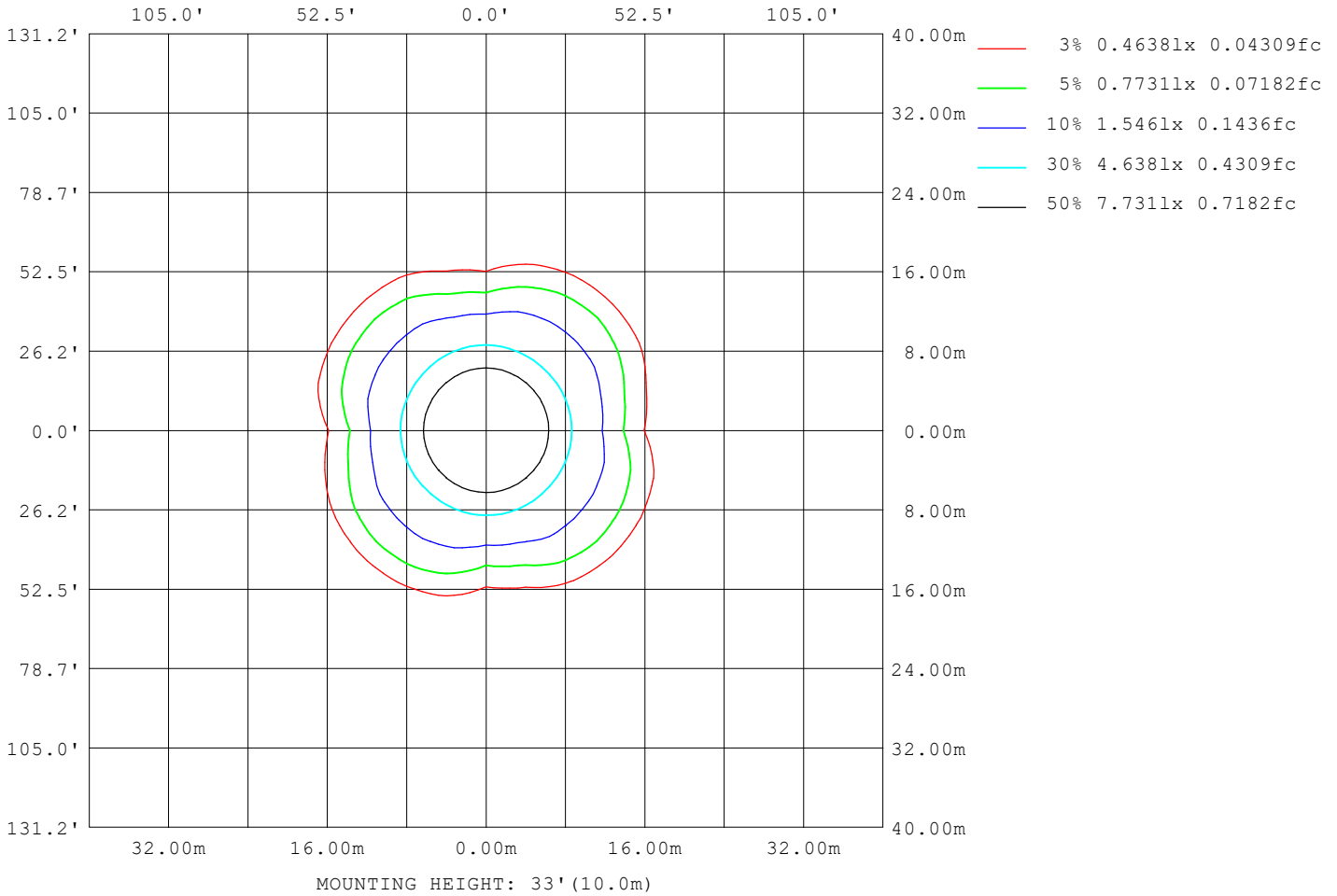
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:

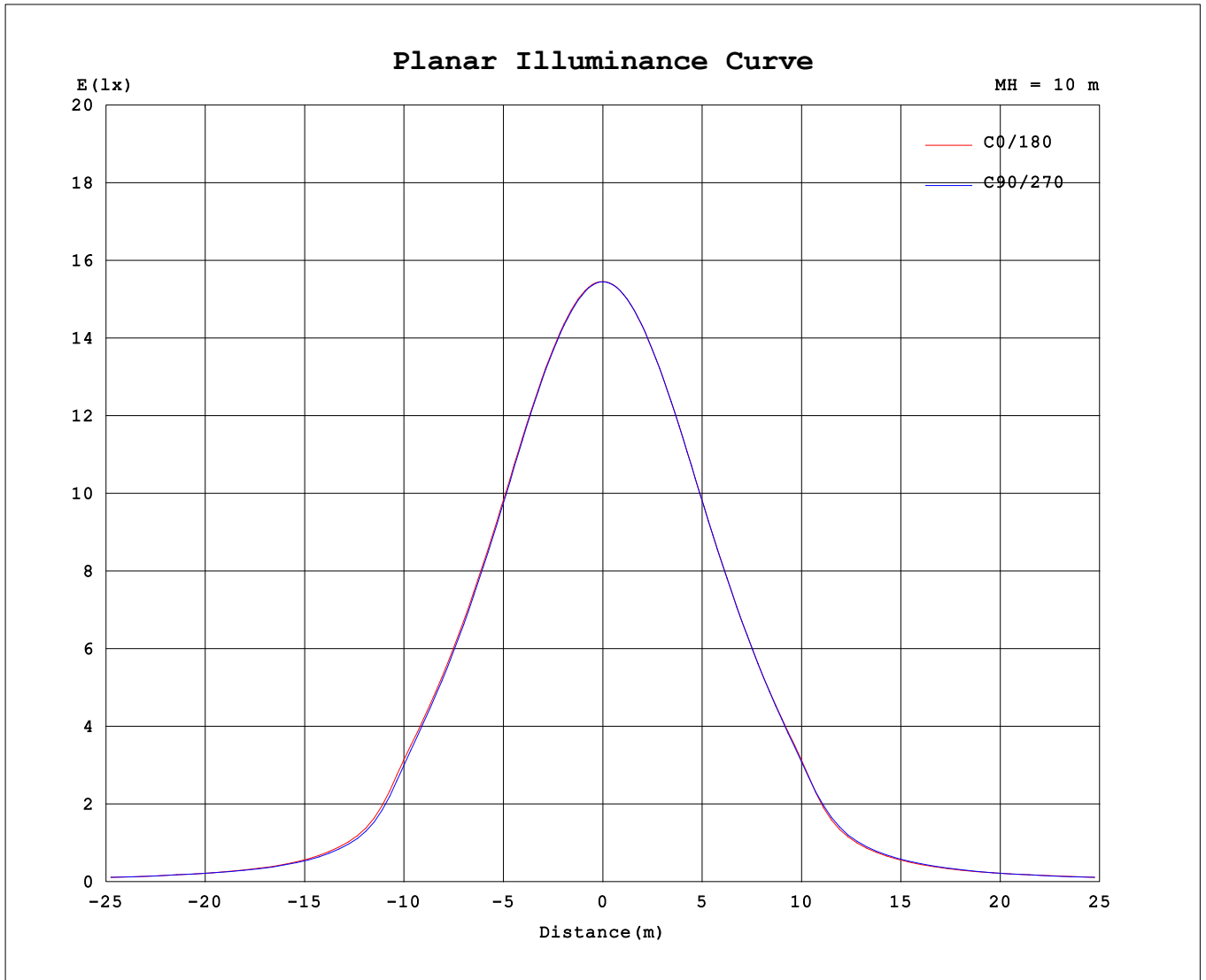
AvgL	cd/m2
L_0~180 (65) av	1862
L_0~180 (75) av	1935
L_0~180 (85) av	1806
L_90~270 (65) av	1872
L_90~270 (75) av	1803
L_90~270 (85) av	1752
L_45 (65) av	2096
L_45 (75) av	2091
L_45 (85) av	1940

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: