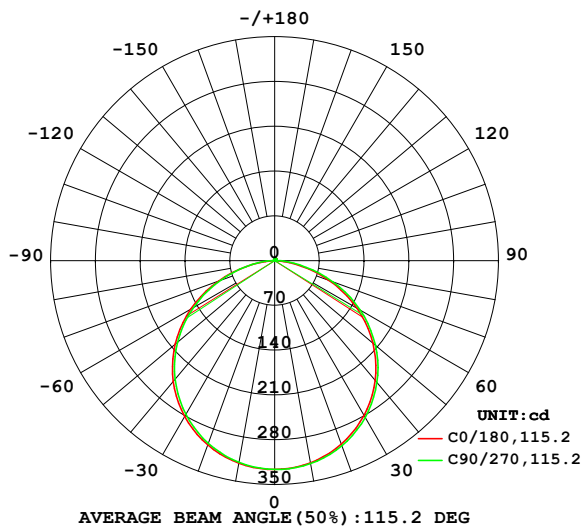


LUMINAIRE PHOTOMETRIC TEST REPORT

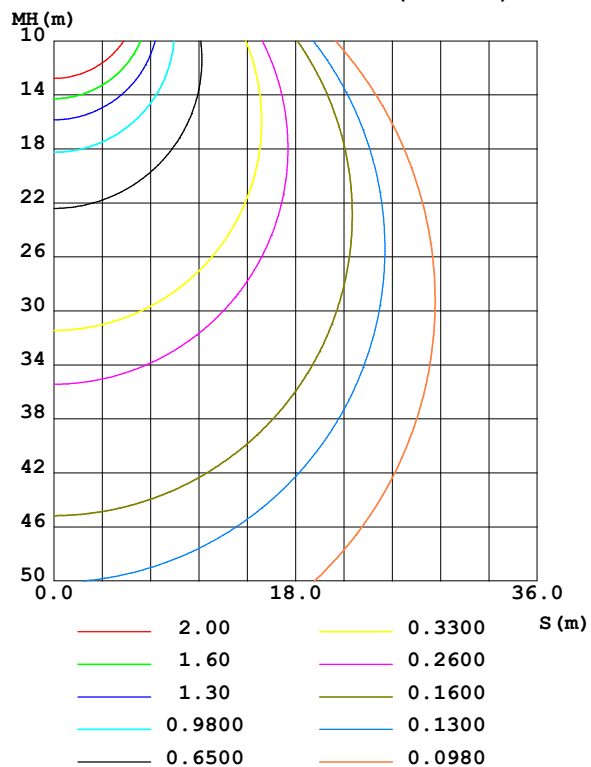
NAME: 2835 IP20	TYPE: 2835 192LED 24V	WEIGHT:
SPEC.: 202-00104-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 129.34 lm/W			
MODEL	4000K	I <sub>max</sub> (cd)	326.5	S/MH(C0/180)	1.28
NOMINAL POWER(W)	7.2	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	971.55	□ UP,DN(C0-180)	0.8,49.9
NOMINAL FLUX(lm)	10.1203	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.6,48.6
LAMPS INSIDE	96	□ up (%)	1.4	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	□ down (%)	98.6	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-03-18

□ Range: 0 - 180DEG  
 □ Interval: 2.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
 Humidity:65.0%  
 Test Distance:5.749m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	320.9	321.4	322.2	322.5	321.6	321.1	320.2	320.0	0- 10	30.92	30.92	3.18,3.18
20	305.2	306.2	307.7	308.3	306.4	305.4	303.8	303.5	10- 20	88.88	119.8	12.3,12.3
30	279.5	280.7	283.1	284.0	281.3	279.8	277.6	277.2	20- 30	135.7	255.5	26.3,26.3
40	244.3	245.8	248.9	250.1	246.7	244.9	242.1	241.5	30- 40	165.2	420.7	43.3,43.3
50	200.4	202.0	205.6	207.2	203.1	201.2	198.1	197.3	40- 50	173.3	593.9	61.1,61.1
60	148.6	150.2	154.3	156.2	151.6	149.7	146.5	145.2	50- 60	158.0	751.9	77.4,77.4
70	90.71	92.33	96.81	98.83	93.62	92.40	89.89	87.98	60- 70	120.6	872.5	89.8,89.8
80	33.18	35.16	39.98	41.26	34.36	36.39	36.45	33.09	70- 80	67.42	939.9	96.7,96.7
90	0.3468	3.850	7.433	5.921	0.2952	2.363	2.876	1.841	80- 90	17.80	957.7	98.6,98.6
100	0.8319	0.8140	2.110	0.9098	0.6809	0.6876	0.7612	0.7451	90-100	1.764	959.5	98.8,98.8
110	1.514	1.431	1.407	1.386	1.273	1.227	1.282	1.290	100-110	1.137	960.6	98.9,98.9
120	2.195	2.049	2.011	2.014	1.896	1.803	1.855	1.868	110-120	1.634	962.3	99,99
130	2.787	2.608	2.560	2.595	2.470	2.354	2.366	2.396	120-130	2.003	964.3	99.2,99.2
140	3.251	3.088	3.021	3.099	2.943	2.832	2.801	2.846	130-140	2.129	966.4	99.5,99.5
150	3.618	3.502	3.433	3.506	3.326	3.234	3.165	3.255	140-150	1.999	968.4	99.7,99.7
160	3.920	3.849	3.870	3.841	3.683	3.610	3.598	3.638	150-160	1.646	970.0	99.8,99.8
170	4.215	4.191	4.243	4.181	4.092	4.042	4.068	4.059	160-170	1.110	971.1	100,100
180	4.510	4.498	4.550	4.522	4.510	4.494	4.553	4.522	170-180	0.4081	971.5	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 525.15 lm

%lum = 54.1%

%lamp = 54.1%

Conical surface Flux(120deg): 751.93 lm

%lum = 77.4%

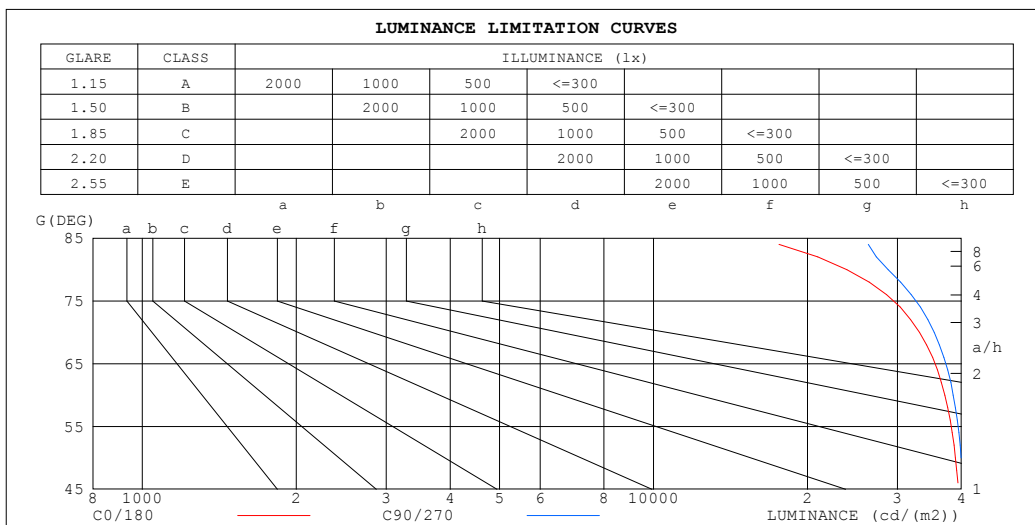
%lamp = 77.4%

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-03-18

□ Range: 0 - 180DEG  
□ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity:65.0%  
Test Distance:5.749m [K=1.0000]  
Remarks:

## LUMINANCE LIMITATION CURVES

NAME: 2835 IP20	TYPE: 2835 192LED 24V	WEIGHT:
SPEC.: 202-00104-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	21100	31572
80	23880	28790
75	32350	35449
70	33142	35393
65	37255	39023
60	37139	38581
55	39328	40540
50	38962	39998
45	40244	41125

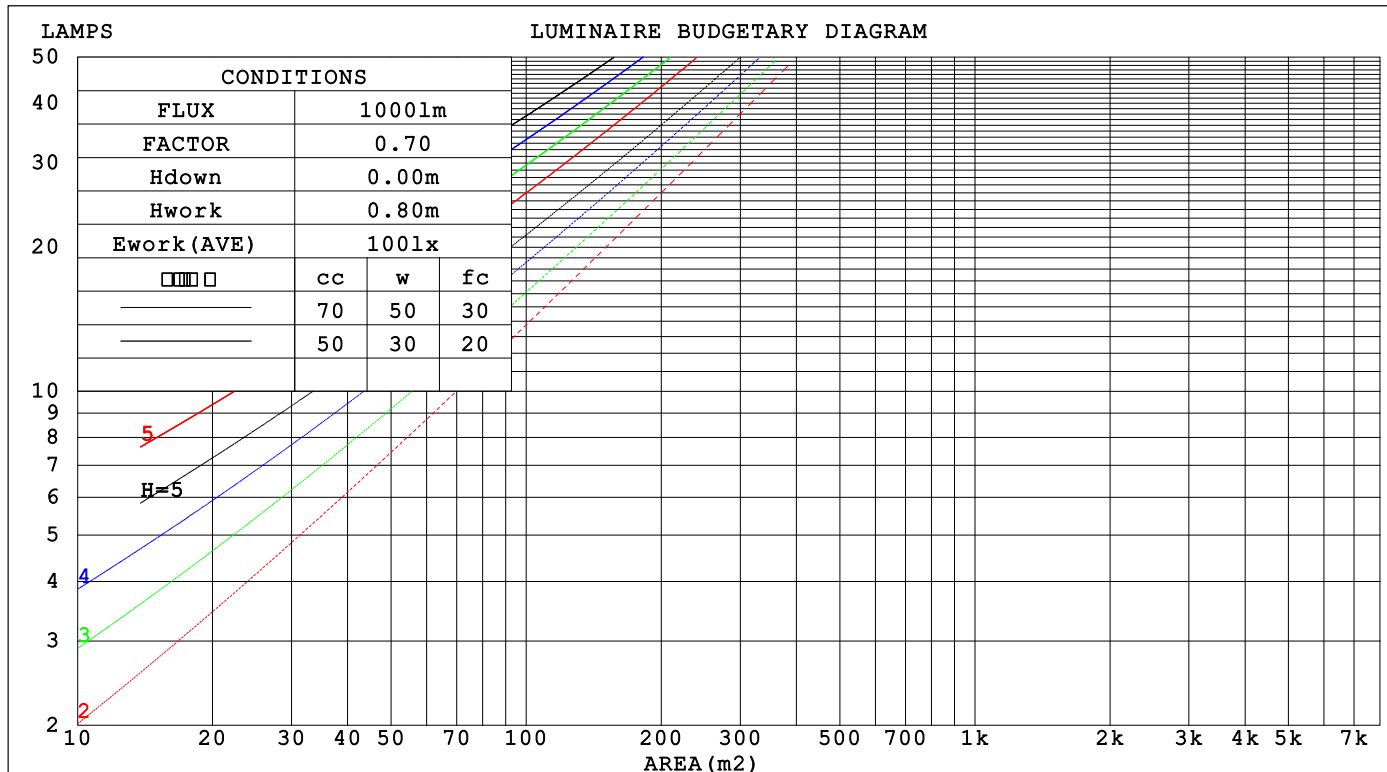
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-03-18

☐ Range: 0 - 180DEG  
☐ Interval: 2.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
 Humidity: 65.0%  
 Test Distance: 5.749m [K=1.0000]  
 Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: 2835 IP20	TYPE: 2835 192LED 24V	WEIGHT:
SPEC.: 202-00104-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-03-18

□ Range: 0 - 180DEG  
□ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity:65.0%  
Test Distance:5.749m [K=1.0000]  
Remarks:

### WEC AND CCEC

NAME: 2835 IP20	TYPE: 2835 192LED 24V	WEIGHT:
SPEC.: 202-00104-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:

□cc	80%	70%	50%	30%	10%	0
□w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
□fc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)					
0.0						
1.0	.310 .176 .056	.303 .173 .055	.289 .166 .053	.276 .159 .051	.264 .153 .049	
2.0	.292 .160 .049	.286 .157 .048	.273 .152 .047	.262 .147 .046	.251 .142 .045	
3.0	.271 .144 .043	.265 .142 .043	.254 .137 .042	.243 .133 .041	.234 .130 .040	
4.0	.250 .130 .038	.245 .128 .038	.235 .124 .037	.226 .121 .037	.217 .118 .036	
5.0	.231 .118 .034	.226 .116 .034	.218 .113 .033	.209 .110 .033	.202 .108 .032	
6.0	.214 .107 .031	.210 .106 .031	.202 .104 .030	.195 .101 .030	.188 .099 .029	
7.0	.199 .099 .028	.196 .097 .028	.189 .095 .027	.182 .093 .027	.176 .091 .027	
8.0	.186 .091 .026	.183 .090 .025	.176 .088 .025	.170 .086 .025	.165 .085 .025	
9.0	.174 .084 .024	.171 .084 .023	.166 .082 .023	.160 .080 .023	.155 .079 .023	
10.0	.164 .079 .022	.161 .078 .022	.156 .076 .022	.151 .075 .021	.147 .074 .021	

□cc	80%	70%	50%	30%	10%	0
□w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
□fc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)					
0.0	.201 .201 .201	.172 .172 .172	.117 .117 .117	.067 .067 .067	.022 .022 .022	
1.0	.191 .167 .145	.164 .143 .125	.112 .099 .086	.064 .057 .050	.021 .018 .016	
2.0	.183 .143 .109	.157 .123 .094	.108 .085 .066	.062 .050 .039	.020 .016 .013	
3.0	.176 .125 .085	.151 .108 .074	.103 .075 .052	.060 .044 .031	.019 .014 .010	
4.0	.168 .112 .069	.144 .097 .060	.099 .068 .042	.057 .040 .025	.018 .013 .008	
5.0	.161 .102 .058	.138 .088 .051	.095 .062 .036	.055 .036 .021	.018 .012 .007	
6.0	.154 .093 .050	.132 .081 .044	.091 .057 .031	.053 .033 .018	.017 .011 .006	
7.0	.147 .087 .044	.126 .075 .039	.087 .053 .027	.051 .031 .016	.016 .010 .005	
8.0	.140 .081 .040	.121 .070 .035	.084 .049 .025	.049 .029 .015	.016 .010 .005	
9.0	.134 .076 .036	.116 .066 .032	.080 .046 .023	.047 .027 .013	.015 .009 .004	
10.0	.129 .072 .034	.111 .062 .029	.077 .044 .021	.045 .026 .012	.015 .008 .004	

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-03-18

□ Range: 0 - 180DEG  
□ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity:65.0%  
Test Distance:5.749m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

NAME: 2835 IP20					TYPE: 2835 192LED 24V			WEIGHT:			
SPEC.: 202-00104-00					DIM.:			SERIAL No.:			
MFR.:					SUR.: 0.01*0.5			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	25.6	27.1	25.9	27.4	27.6	25.7	27.3	26.0	27.5	27.7	
	27.1	28.5	27.4	28.7	29.0	27.3	28.7	27.6	28.9	29.2	
	27.6	29.0	28.0	29.2	29.5	27.9	29.2	28.2	29.5	29.8	
	28.0	29.2	28.3	29.5	29.8	28.3	29.6	28.7	29.9	30.2	
	28.0	29.2	28.4	29.5	29.9	28.4	29.6	28.8	29.9	30.3	
	28.0	29.2	28.4	29.5	29.9	28.5	29.7	28.9	30.0	30.3	
4H	2H	26.2	27.6	26.6	27.8	28.1	26.3	27.7	26.7	27.9	28.2
	3H	27.9	29.0	28.3	29.4	29.7	28.1	29.2	28.4	29.5	29.9
	4H	28.5	29.6	28.9	29.9	30.3	28.8	29.8	29.2	30.2	30.5
	6H	29.0	29.9	29.4	30.3	30.7	29.3	30.2	29.7	30.6	31.0
	8H	29.1	30.0	29.5	30.3	30.8	29.5	30.3	29.9	30.7	31.1
	12H	29.1	29.9	29.6	30.3	30.8	29.6	30.4	30.0	30.8	31.2
8H	4H	28.8	29.7	29.2	30.1	30.5	29.0	29.9	29.4	30.3	30.7
	6H	29.3	30.1	29.8	30.5	31.0	29.6	30.4	30.1	30.8	31.3
	8H	29.5	30.1	30.0	30.6	31.1	29.9	30.5	30.4	31.0	31.5
	12H	29.6	30.1	30.1	30.6	31.1	30.1	30.6	30.6	31.1	31.6
12H	4H	28.8	29.6	29.2	30.0	30.4	29.0	29.8	29.4	30.2	30.6
	6H	29.4	30.0	29.9	30.5	31.0	29.7	30.3	30.2	30.8	31.2
	8H	29.6	30.1	30.1	30.6	31.1	29.9	30.5	30.4	31.0	31.5
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117, 971.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.1)  
Area: 0.008 m2

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-03-18

☐ Range: 0 - 180DEG  
☐ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity:65.0%  
Test Distance:5.749m [K=1.0000]  
Remarks:

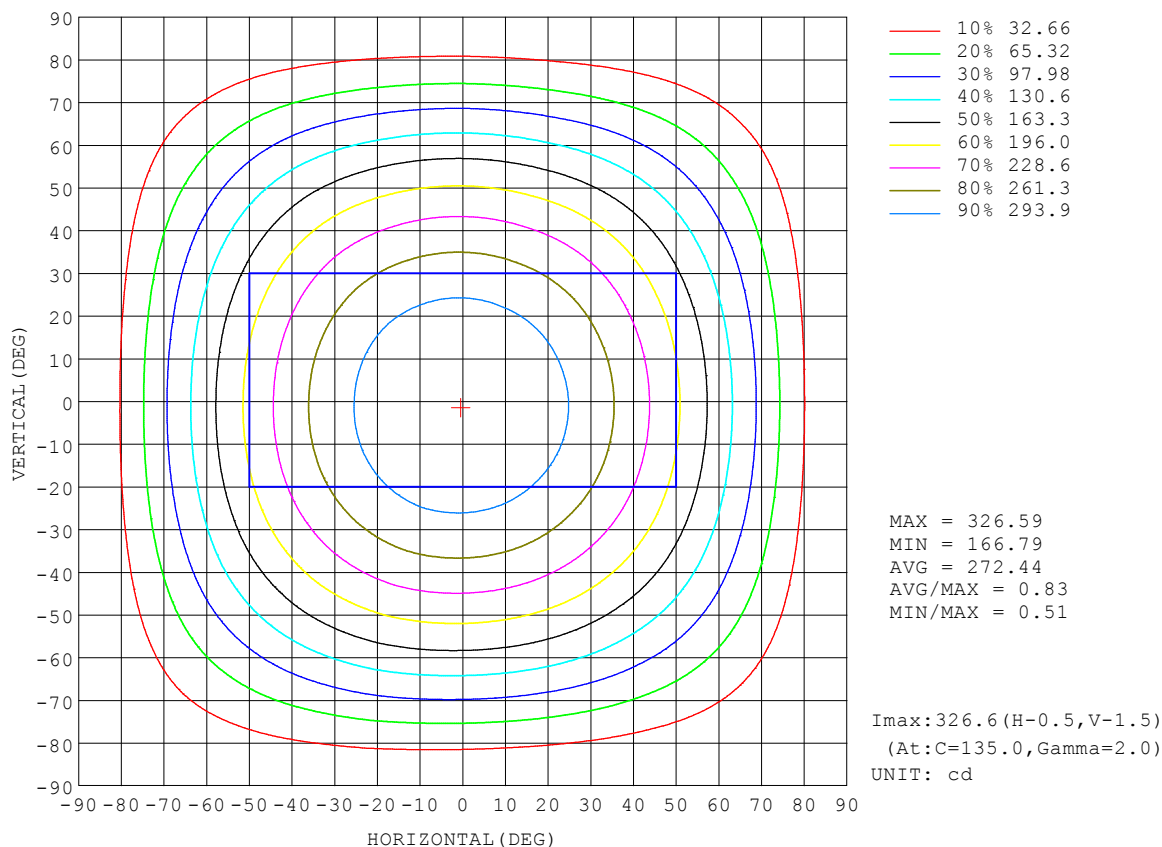
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Range: 0 - 180DEG
Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.450
Humidity:65.0%
Test Distance:5.749m [K=1.0000]
Remarks:

```

### ISOCANDELA DIAGRAM

NAME: 2835 IP20	TYPE: 2835 192LED 24V	WEIGHT:
SPEC.: 202-00104-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:



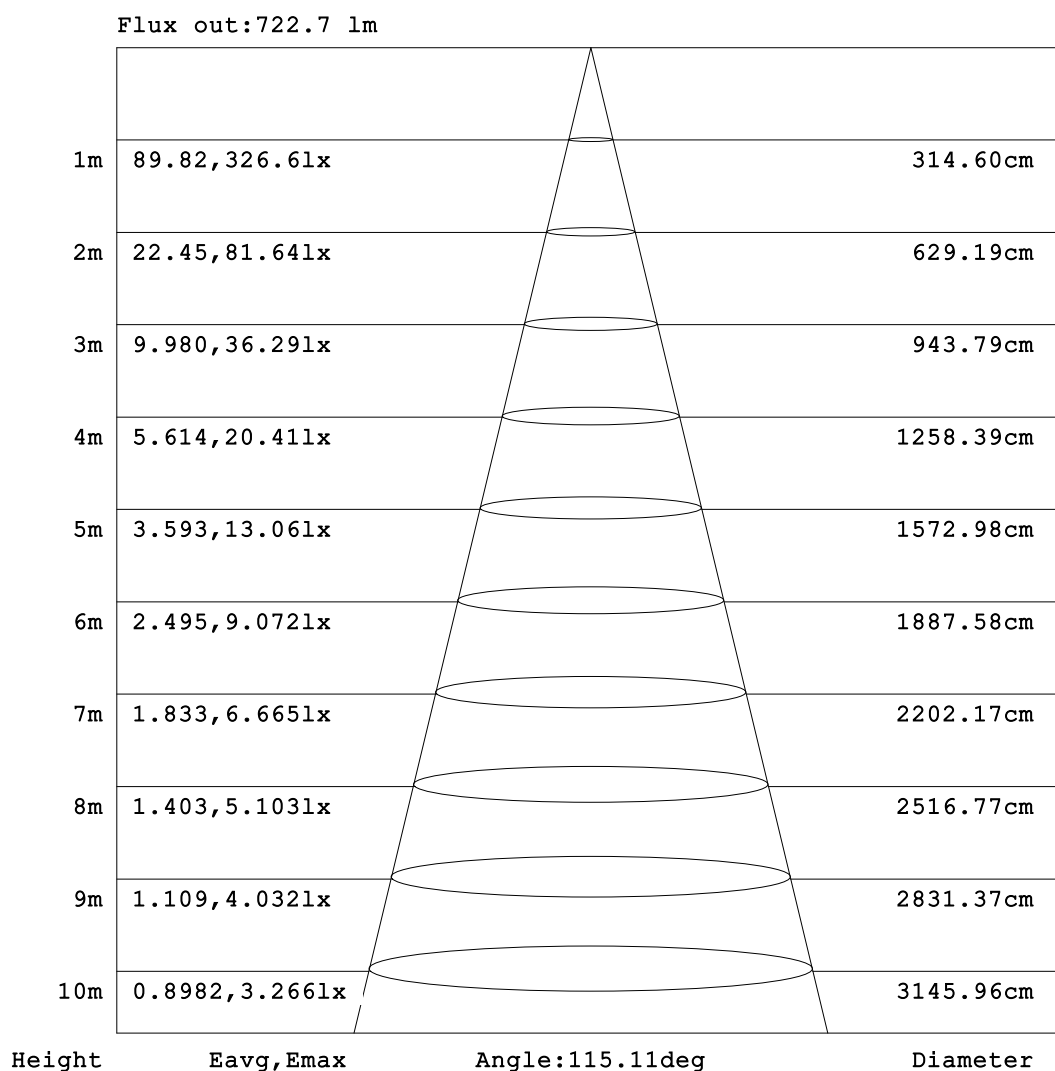
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-03-18

☐ Range: 0 - 180DEG  
☐ Interval: 2.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
 Humidity: 65.0%  
 Test Distance: 5.749m [K=1.0000]  
 Remarks:



AAI Figure

NAME: 2835 IP20	TYPE: 2835 192LED 24V	WEIGHT:
SPEC.: 202-00104-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:



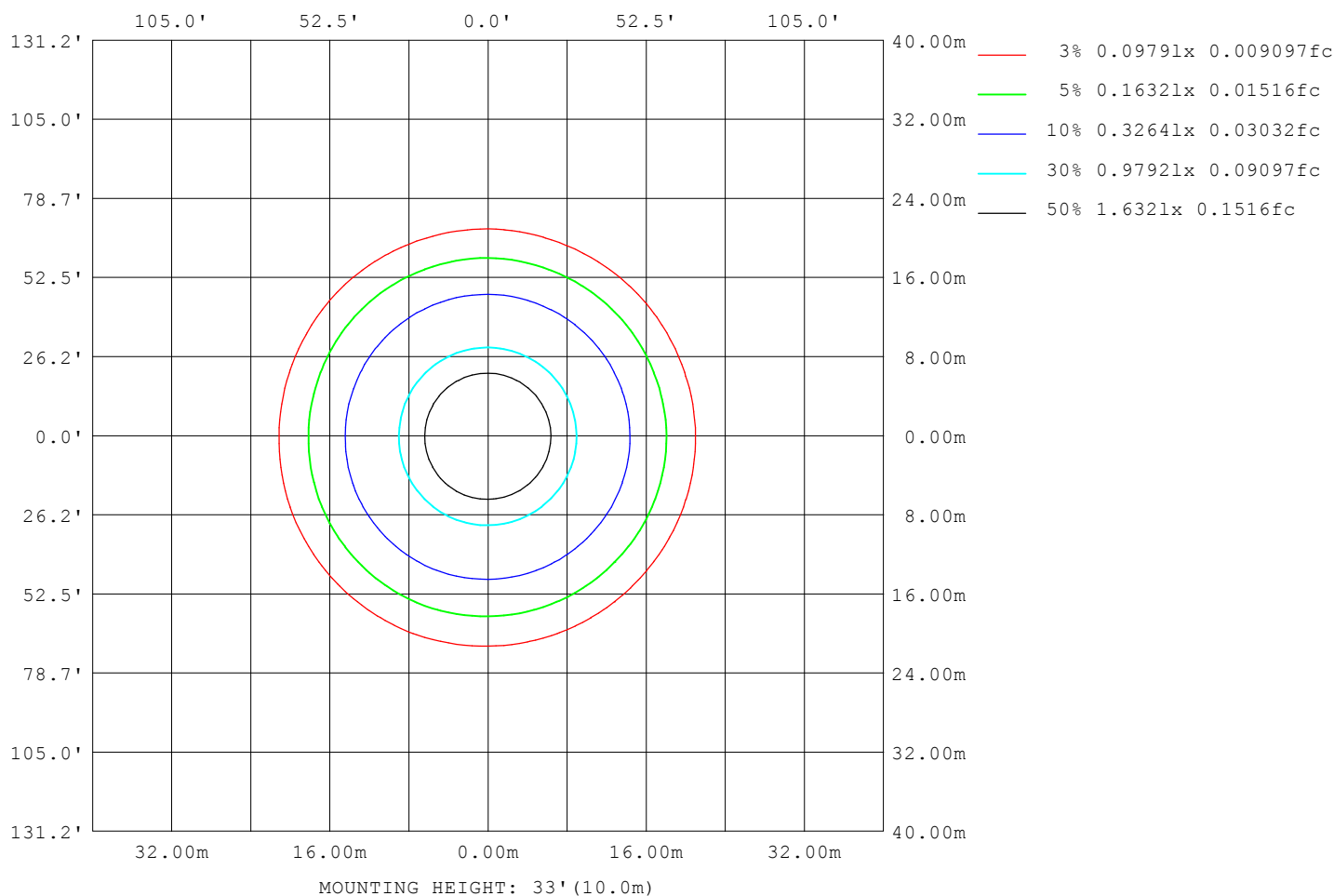
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-03-18

☐ Range: 0 - 180DEG  
☐ Interval: 2.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
 Humidity: 65.0%  
 Test Distance: 5.749m [K=1.0000]  
 Remarks:

### ISOLUX DIAGRAM

NAME: 2835 IP20	TYPE: 2835 192LED 24V	WEIGHT:
SPEC.: 202-00104-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2022-03-18

☐ Range: 0 - 180DEG  
☐ Interval: 2.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity: 65.0%  
Test Distance: 5.749m [K=1.0000]  
Remarks:

## LED Avg.L Report

NAME: 2835 IP20	TYPE: 2835 192LED 24V	WEIGHT:
SPEC.: 202-00104-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:

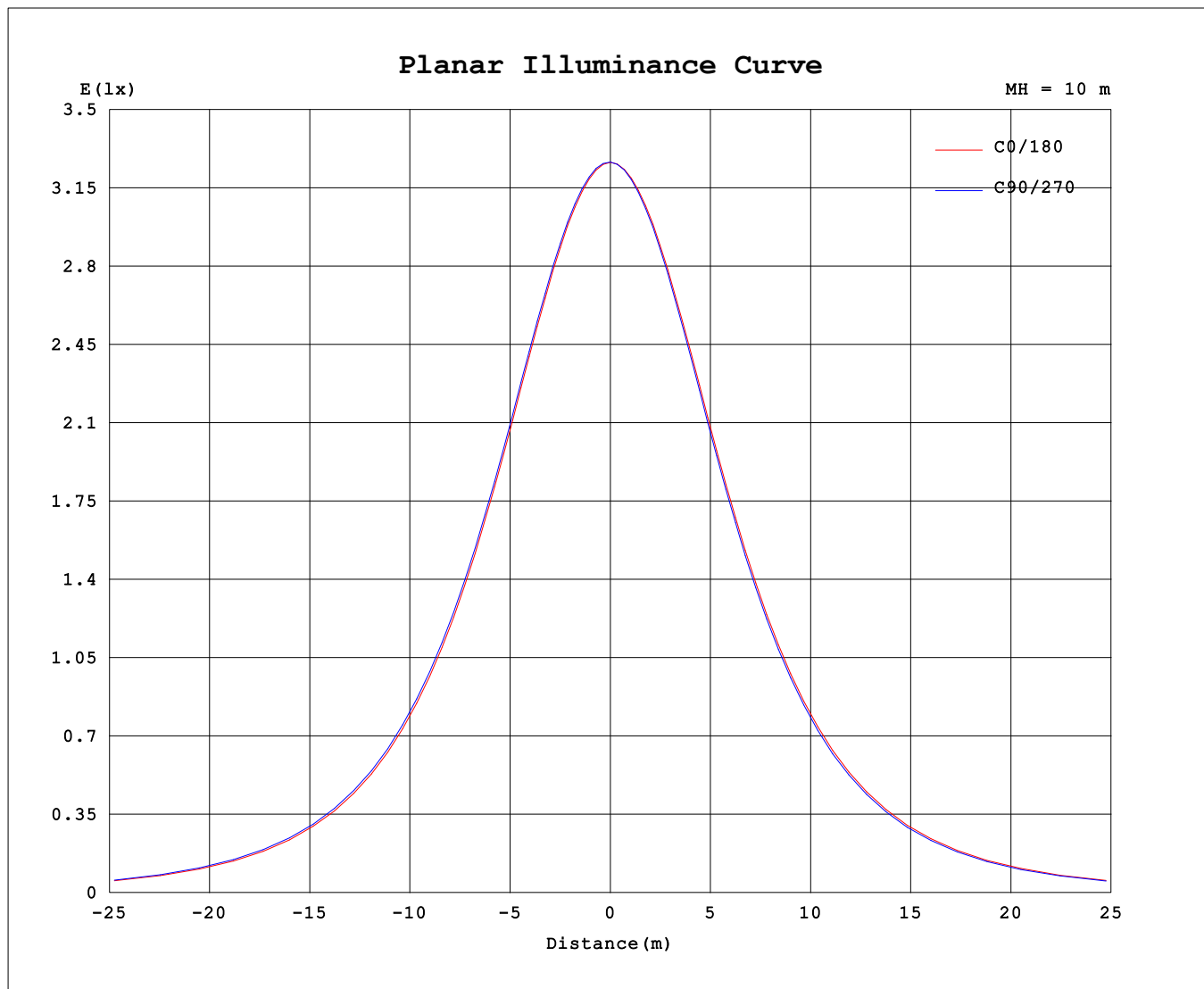
AvgL	cd/m2
L_0~180 (65) av	35998
L_0~180 (75) av	30184
L_0~180 (85) av	16039
L_90~270 (65) av	36168
L_90~270 (75) av	31323
L_90~270 (85) av	24048
L_45 (65) av	36130
L_45 (75) av	30775
L_45 (85) av	21281

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2022-03-18

☐ Range: 0 - 180DEG  
☐ Interval: 2.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity: 65.0%  
Test Distance: 5.749m [K=1.0000]  
Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-03-18

☐ Range: 0 - 180DEG  
☐ Interval: 2.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
 Humidity: 65.0%  
 Test Distance: 5.749m [K=1.0000]  
 Remarks:

### LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 2835 IP20	TYPE: 2835 192LED 24V	WEIGHT:
SPEC.: 202-00104-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:

Table--1

UNIT: cd

C (DEG) □ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	326	326	326	326	326	326	326	326	326	326	326	326	326	326	326	326			
5	325	326	326	326	326	326	326	326	326	326	326	325	325	325	325	325			
10	321	321	321	322	322	323	323	322	322	321	321	321	320	320	320	320			
15	316	316	317	317	318	318	318	318	317	316	316	315	315	314	315	315			
20	305	306	306	307	308	309	308	308	306	306	305	304	304	303	303	304			
25	296	297	297	298	299	300	300	299	298	297	296	295	294	294	294	295			
30	279	280	281	282	283	284	284	283	281	280	280	278	278	277	277	278			
35	266	267	268	269	271	272	272	270	269	267	267	265	264	263	264	265			
40	244	245	246	248	249	251	250	249	247	245	245	243	242	241	242	242			
45	228	229	229	231	233	234	234	233	230	229	228	226	225	224	225	226			
50	200	201	202	204	206	208	207	206	203	202	201	199	198	196	197	198			
55	181	182	182	184	186	188	188	186	183	182	181	179	178	176	177	178			
60	149	150	150	153	154	157	156	155	152	150	150	147	147	145	145	146			
65	126	127	128	130	132	134	134	132	129	127	127	125	124	122	123	123			
70	90.7	91.7	92.3	94.8	96.8	99.5	98.8	97.2	93.6	92.3	92.4	90.7	89.9	87.7	88.0	88.2			
75	67.0	67.9	68.7	71.1	73.4	75.8	75.3	73.3	69.8	68.5	69.0	68.1	67.6	65.3	65.0	64.7			
80	33.2	34.0	35.2	37.7	40.0	42.0	41.3	39.0	34.4	34.8	36.4	36.8	36.4	34.2	33.1	31.7			
85	14.7	15.7	17.3	19.8	22.0	23.4	22.3	19.8	15.0	16.4	18.5	19.1	18.8	16.9	15.8	14.2			
90	0.35	1.70	3.85	5.95	7.43	7.48	5.92	2.93	0.30	1.40	2.36	2.83	2.88	2.37	1.84	1.05			
95	0.50	0.63	1.92	3.58	4.77	4.55	3.07	0.90	0.41	0.44	0.67	0.84	0.87	0.81	0.68	0.46			
100	0.83	0.81	0.81	1.44	2.11	1.91	0.91	0.77	0.68	0.67	0.69	0.73	0.76	0.76	0.75	0.71			
105	1.10	1.06	1.06	1.05	1.08	1.02	1.01	1.01	0.90	0.87	0.89	0.92	0.94	0.96	0.95	0.92			
110	1.51	1.44	1.43	1.42	1.41	1.39	1.39	1.39	1.27	1.21	1.23	1.26	1.28	1.30	1.29	1.27			
115	1.79	1.70	1.69	1.67	1.65	1.64	1.64	1.65	1.52	1.45	1.46	1.49	1.52	1.53	1.52	1.51			
120	2.19	2.08	2.05	2.04	2.01	2.01	2.01	2.04	1.90	1.82	1.80	1.83	1.85	1.87	1.87	1.86			
125	2.44	2.33	2.28	2.26	2.24	2.24	2.26	2.30	2.14	2.06	2.03	2.05	2.07	2.09	2.09	2.09			
130	2.79	2.68	2.61	2.58	2.56	2.58	2.59	2.65	2.47	2.40	2.35	2.35	2.37	2.39	2.40	2.43			
135	2.99	2.89	2.80	2.78	2.76	2.78	2.80	2.87	2.67	2.60	2.56	2.54	2.55	2.58	2.58	2.64			
140	3.25	3.18	3.09	3.04	3.02	3.07	3.10	3.15	2.94	2.88	2.83	2.82	2.80	2.83	2.85	2.92			
145	3.41	3.34	3.26	3.20	3.19	3.25	3.27	3.31	3.10	3.04	3.00	2.99	2.95	2.99	3.02	3.09			
150	3.62	3.57	3.50	3.44	3.43	3.51	3.51	3.54	3.33	3.26	3.23	3.23	3.16	3.21	3.25	3.32			
155	3.74	3.71	3.64	3.59	3.61	3.66	3.65	3.67	3.47	3.41	3.38	3.39	3.33	3.36	3.41	3.47			
160	3.92	3.90	3.85	3.80	3.87	3.87	3.84	3.86	3.68	3.64	3.61	3.62	3.60	3.59	3.64	3.70			
165	4.04	4.03	3.98	3.94	4.04	4.00	3.97	4.00	3.84	3.80	3.77	3.78	3.78	3.75	3.79	3.86			
170	4.21	4.22	4.19	4.18	4.24	4.20	4.18	4.21	4.09	4.06	4.04	4.05	4.07	4.02	4.06	4.12			
175	4.35	4.34	4.34	4.33	4.39	4.35	4.34	4.36	4.27	4.24	4.24	4.25	4.27	4.22	4.26	4.31			
180	4.51	4.50	4.50	4.51	4.55	4.51	4.52	4.54	4.51	4.50	4.49	4.51	4.55	4.52	4.52	4.54			

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-03-18

□ Range: 0 - 180DEG  
□ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.450  
Humidity:65.0%  
Test Distance:5.749m [K=1.0000]  
Remarks: