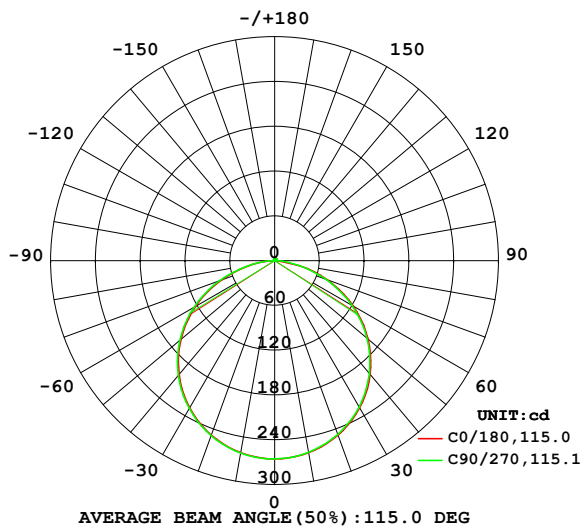


LUMINAIRE PHOTOMETRIC TEST REPORT

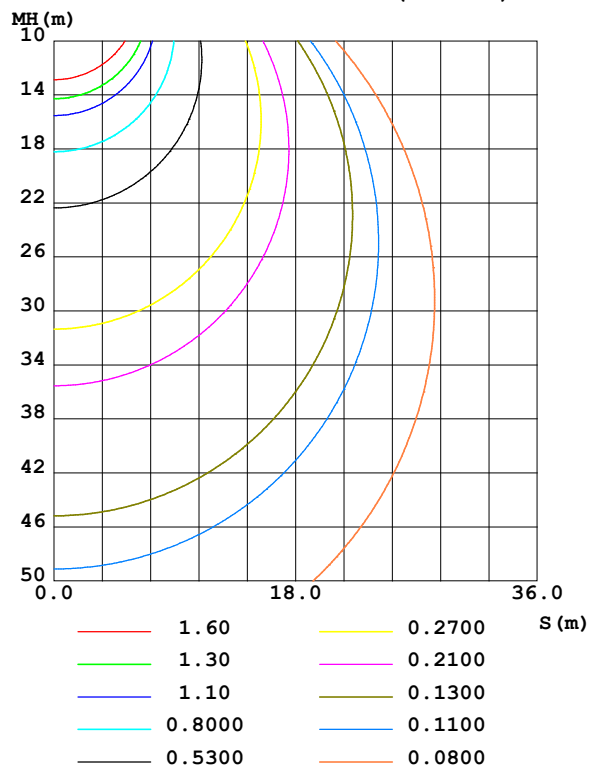
NAME: 2835 IP20	TYPE: 2835 2400LED 12V	WEIGHT:
SPEC.: 202-00312-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 128.45 lm/W			
MODEL	3000K	I _{max} (cd)	265.7	S/MH(C0/180)	1.27
NOMINAL POWER(W)	7.2	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	12	TOTAL FLUX(lm)	785.41	□ UP,DN(C0-180)	0.7,48.8
NOMINAL FLUX(lm)	3.27253	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.6,49.8
LAMPS INSIDE	240	□ up (%)	1.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	12	□ down (%)	98.7	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:2022-03-23

□ 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	261.4	261.0	260.9	261.1	261.4	261.8	261.8	261.5	0- 10	25.15	25.15	3.2,3.2
20	248.7	247.8	247.7	248.1	248.6	249.4	249.4	249.0	10- 20	72.27	97.42	12.4,12.4
30	227.7	226.4	226.3	227.0	227.7	228.8	228.8	228.3	20- 30	110.2	207.6	26.4,26.4
40	199.2	197.6	197.4	198.4	199.3	200.8	200.8	200.1	30- 40	134.1	341.7	43.5,43.5
50	163.4	161.5	161.5	162.7	163.9	165.8	165.9	164.8	40- 50	140.5	482.3	61.4,61.4
60	121.4	119.3	119.4	120.8	122.1	124.6	124.7	123.1	50- 60	128.2	610.4	77.7,77.7
70	74.51	72.29	72.56	74.32	75.50	78.21	78.36	76.45	60- 70	97.85	708.3	90.2,90.2
80	16.35	25.97	26.09	27.95	29.24	31.35	31.29	29.69	70- 80	54.28	762.6	97.1,97.1
90	0.2546	0.9917	0.6906	1.483	0.2336	1.957	1.222	1.540	80- 90	12.48	775.0	98.7,98.7
100	0.6472	0.6823	0.7235	0.6699	0.5411	0.5215	0.5360	0.5377	90-100	0.6803	775.7	98.8,98.8
110	1.212	1.196	1.197	1.178	1.029	0.9522	0.9598	0.9751	100-110	0.8826	776.6	98.9,98.9
120	1.769	1.705	1.701	1.690	1.541	1.409	1.429	1.436	110-120	1.317	777.9	99,99
130	2.269	2.165	2.142	2.153	2.001	1.844	1.855	1.862	120-130	1.617	779.5	99.3,99.3
140	2.662	2.541	2.511	2.541	2.377	2.232	2.188	2.235	130-140	1.718	781.2	99.5,99.5
150	2.962	2.864	2.799	2.866	2.682	2.563	2.493	2.570	140-150	1.611	782.9	99.7,99.7
160	3.203	3.143	3.139	3.123	2.968	2.863	2.855	2.898	150-160	1.326	784.2	99.8,99.8
170	3.436	3.404	3.432	3.373	3.285	3.220	3.238	3.255	160-170	0.8939	785.1	100,100
180	3.644	3.619	3.675	3.651	3.646	3.619	3.675	3.649	170-180	0.3286	785.4	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 426.47 lm

%lum = 54.3%

%lamp = 54.3%

Conical surface Flux(120deg): 610.43 lm

%lum = 77.7%

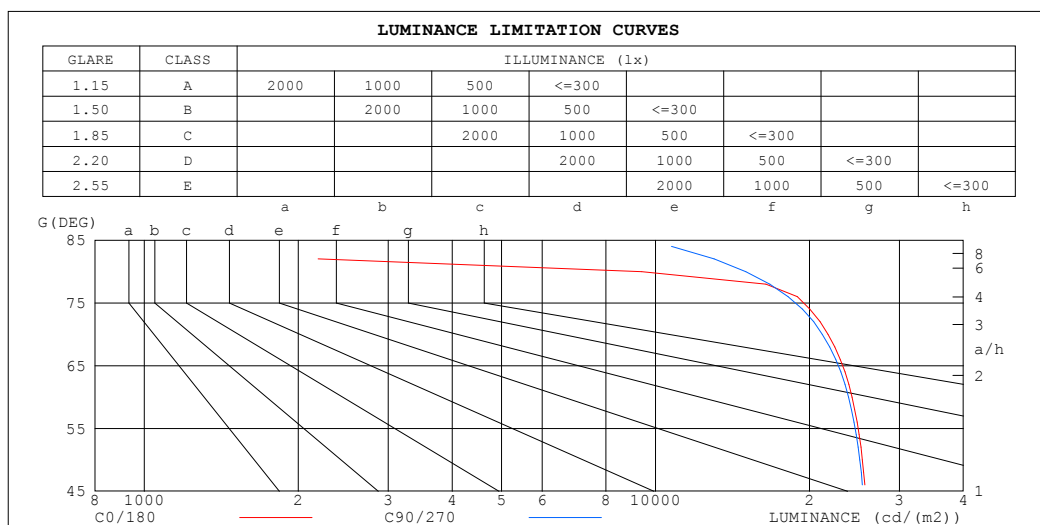
%lamp = 77.7%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-03-23

□ 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 2400LED 12V	WEIGHT:
SPEC.: 202-00312-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	314	12895
80	9402	15008
75	21351	20638
70	21755	21193
65	24346	23889
60	24237	23855
55	25639	25316
50	25384	25096
45	26212	25972

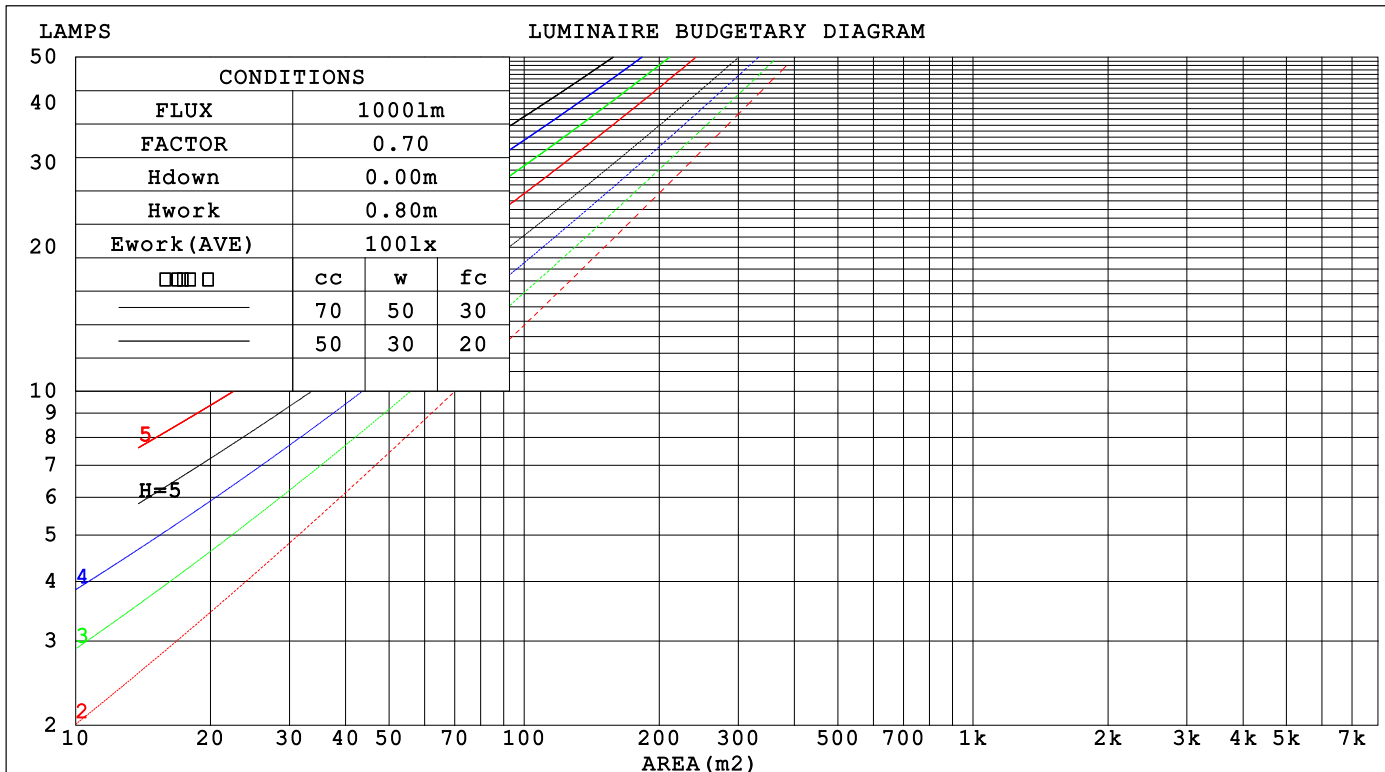
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2022-03-23

☐ 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 2400LED 12V	WEIGHT:
SPEC.: 202-00312-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	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															



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-03-23

☐ 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 2400LED 12V	WEIGHT:
SPEC.: 202-00312-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	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	.308 .175 .055	.300 .171 .054	.286 .164 .052	.273 .158 .051	.261 .152 .049	
2.0	.291 .159 .049	.284 .157 .048	.272 .151 .047	.261 .146 .046	.250 .141 .045	
3.0	.270 .144 .043	.264 .141 .043	.253 .137 .042	.243 .133 .041	.233 .129 .040	
4.0	.249 .130 .038	.244 .128 .038	.234 .124 .037	.225 .121 .036	.217 .118 .036	
5.0	.231 .117 .034	.226 .116 .034	.217 .113 .033	.209 .110 .033	.201 .108 .032	
6.0	.214 .107 .031	.210 .106 .030	.202 .103 .030	.195 .101 .030	.188 .099 .029	
7.0	.199 .098 .028	.195 .097 .028	.188 .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 .083 .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	

<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	.201 .201 .201	.171 .171 .171	.117 .117 .117	.067 .067 .067	.021 .021 .021	
1.0	.190 .166 .145	.163 .143 .125	.111 .098 .086	.064 .057 .050	.021 .018 .016	
2.0	.182 .142 .108	.156 .122 .094	.107 .085 .065	.062 .049 .038	.020 .016 .012	
3.0	.175 .125 .085	.150 .107 .073	.103 .075 .051	.059 .044 .030	.019 .014 .010	
4.0	.167 .111 .069	.143 .096 .060	.099 .067 .042	.057 .039 .025	.018 .013 .008	
5.0	.160 .101 .057	.137 .087 .050	.095 .061 .035	.055 .036 .021	.018 .012 .007	
6.0	.153 .093 .049	.131 .080 .043	.091 .056 .030	.053 .033 .018	.017 .011 .006	
7.0	.146 .086 .044	.125 .074 .038	.087 .052 .027	.050 .031 .016	.016 .010 .005	
8.0	.139 .080 .039	.120 .069 .034	.083 .049 .024	.048 .029 .014	.016 .009 .005	
9.0	.133 .075 .036	.115 .065 .031	.080 .046 .022	.046 .027 .013	.015 .009 .004	
10.0	.128 .071 .033	.110 .061 .029	.076 .043 .020	.045 .026 .012	.014 .008 .004	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-03-23

☐ 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 2400LED 12V			WEIGHT:			
SPEC.: 202-00312-00					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	2H	24.8	26.3	25.1	26.6	26.8	24.8	26.3	25.1	26.5	26.7
	3H	26.3	27.7	26.6	28.0	28.2	26.2	27.6	26.6	27.9	28.2
	4H	26.9	28.2	27.2	28.5	28.8	26.8	28.1	27.1	28.4	28.7
	6H	27.1	28.4	27.5	28.7	29.0	27.1	28.3	27.4	28.6	28.9
	8H	27.1	28.3	27.5	28.6	28.9	27.2	28.4	27.5	28.7	29.0
	12H	27.0	28.2	27.4	28.5	28.9	27.2	28.3	27.5	28.6	29.0
4H	2H	25.4	26.7	25.8	27.0	27.3	25.4	26.7	25.7	27.0	27.3
	3H	27.1	28.2	27.5	28.6	28.9	27.0	28.2	27.4	28.5	28.8
	4H	27.8	28.8	28.1	29.2	29.5	27.7	28.7	28.1	29.1	29.4
	6H	28.1	29.0	28.5	29.4	29.8	28.1	29.0	28.5	29.4	29.8
	8H	28.1	29.0	28.5	29.4	29.8	28.2	29.0	28.6	29.4	29.8
	12H	28.1	28.9	28.5	29.3	29.7	28.2	29.0	28.7	29.4	29.8
8H	4H	28.0	28.8	28.4	29.2	29.6	27.9	28.8	28.3	29.1	29.6
	6H	28.4	29.2	28.9	29.6	30.1	28.4	29.1	28.9	29.6	30.0
	8H	28.5	29.1	29.0	29.6	30.1	28.6	29.2	29.0	29.6	30.1
	12H	28.5	29.1	29.0	29.5	30.0	28.6	29.2	29.1	29.7	30.2
12H	4H	28.0	28.8	28.4	29.2	29.6	27.9	28.7	28.3	29.1	29.5
	6H	28.5	29.1	28.9	29.6	30.0	28.4	29.1	28.9	29.5	30.0
	8H	28.6	29.1	29.1	29.6	30.1	28.6	29.2	29.1	29.6	30.1
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 0.1 / - 0.2					+ 0.2 / - 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, 785.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.8)
Area: 0.01 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-03-23

☐ 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:

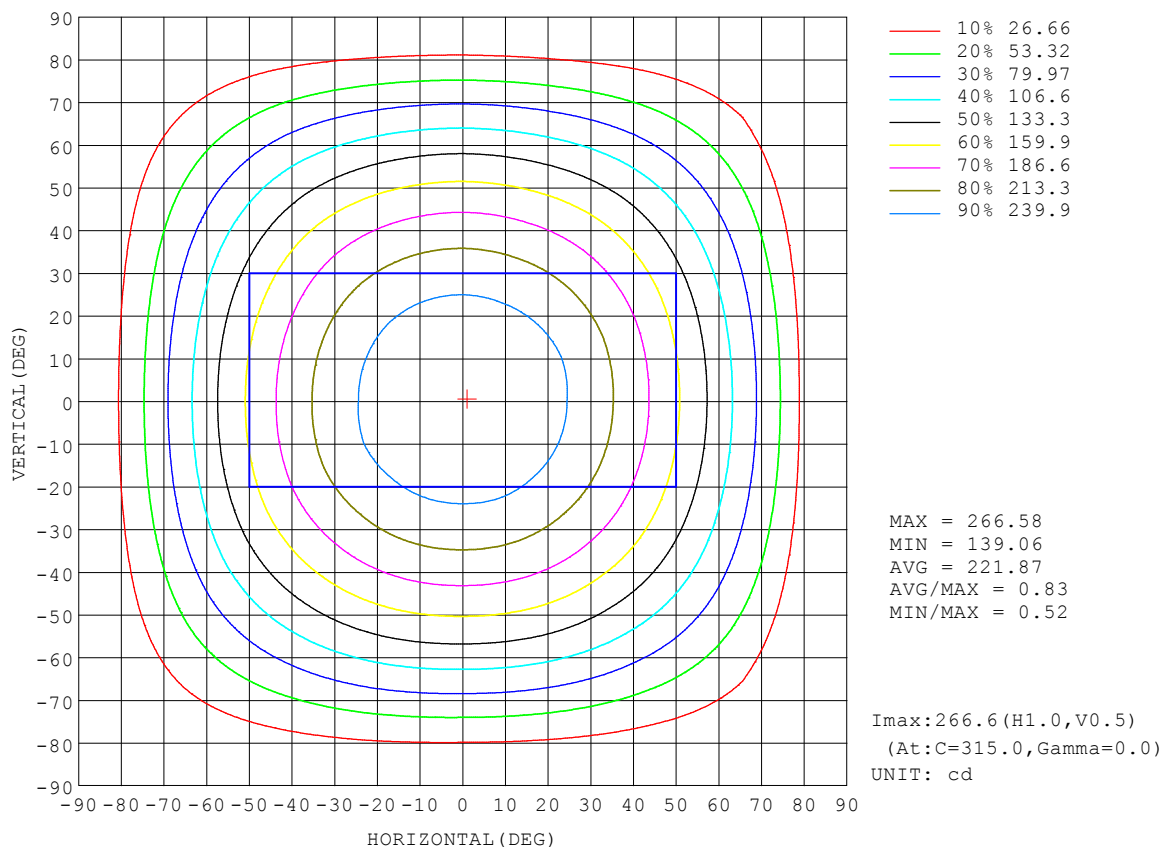
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Range: 0 - 180DEG
Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.450
Humidity:65.0%
Test Distance:5.749m [K=1.0000]
Remarks:

```

ISOCANDELA DIAGRAM

NAME: 2835 IP20	TYPE: 2835 2400LED 12V	WEIGHT:
SPEC.: 202-00312-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:

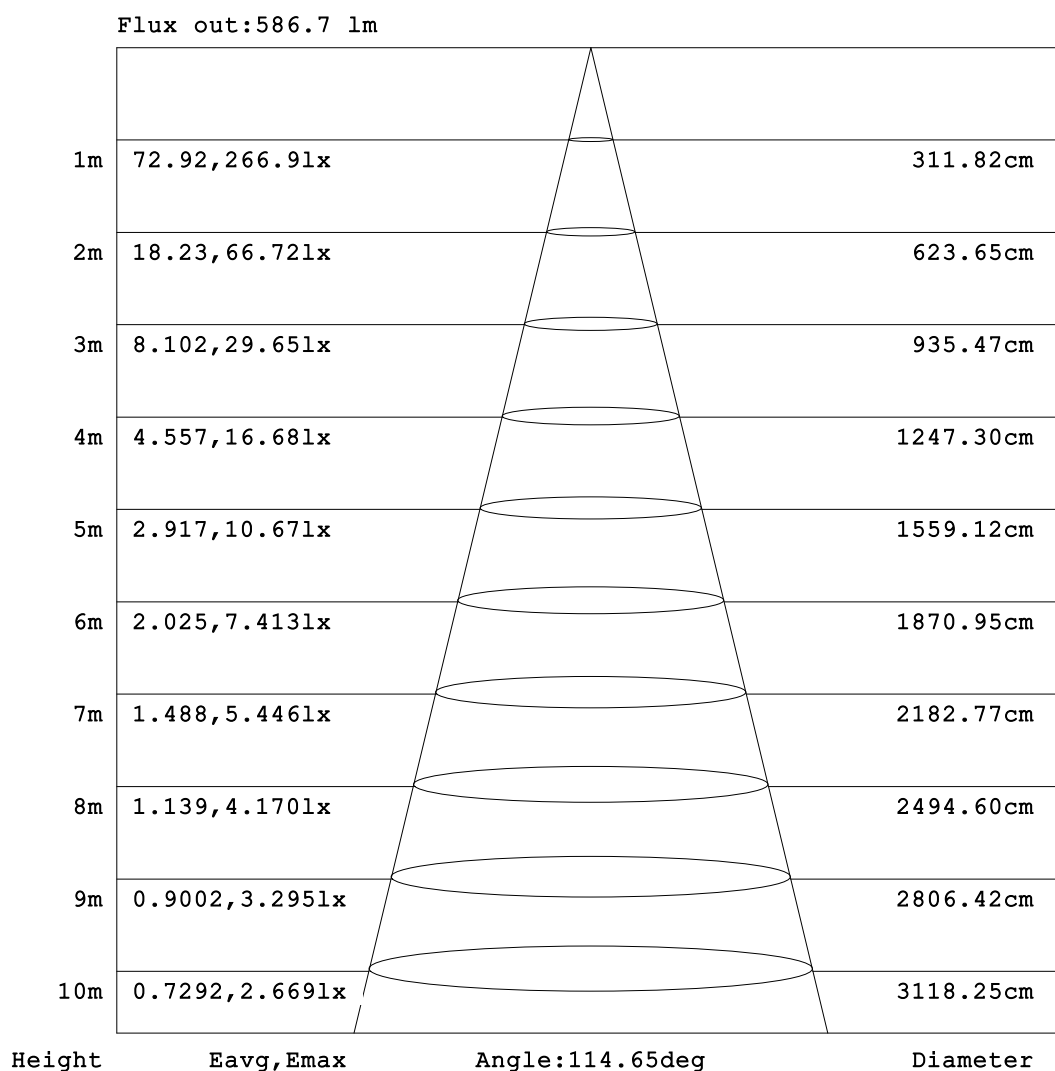


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2022-03-23

☐ 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 2400LED 12V	WEIGHT:
SPEC.: 202-00312-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:



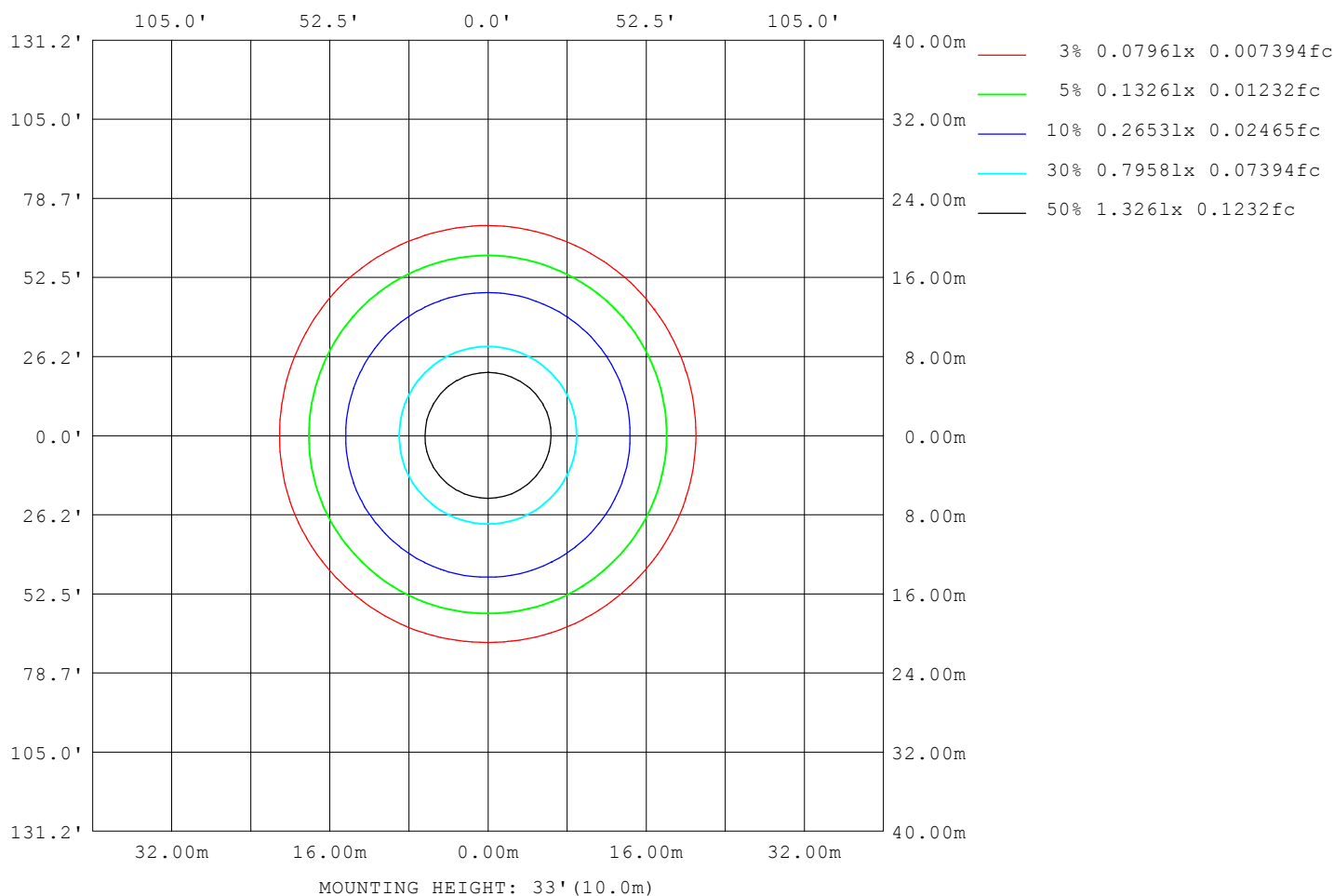
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-03-23

☐ 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 2400LED 12V	WEIGHT:
SPEC.: 202-00312-00	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: 2022-03-23

☐ 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 2400LED 12V	WEIGHT:
SPEC.: 202-00312-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:

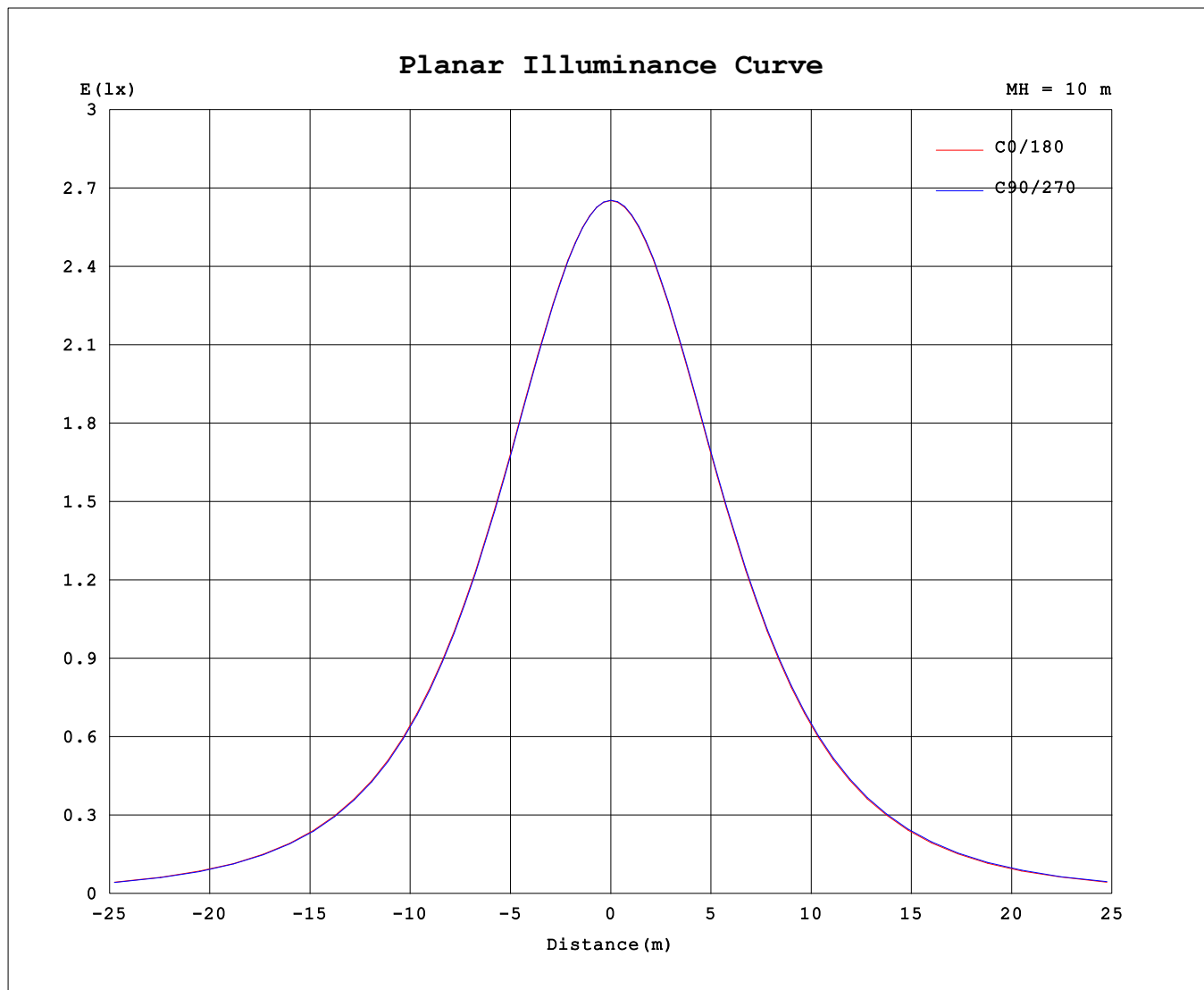
AvgL	cd/m2
L_0~180 (65) av	23382
L_0~180 (75) av	19788
L_0~180 (85) av	6062
L_90~270 (65) av	23477
L_90~270 (75) av	19913
L_90~270 (85) av	11593
L_45 (65) av	23451
L_45 (75) av	19865
L_45 (85) av	12094

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2022-03-23

☐ 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: 2022-03-23

☐ 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 2400LED 12V	WEIGHT:
SPEC.: 202-00312-00	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	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266			
5	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265			
10	261	261	261	261	261	261	261	261	261	261	262	262	262	262	262	261			
15	257	257	257	257	257	257	257	257	257	257	258	258	258	257	258	257			
20	249	248	248	248	248	248	248	248	249	249	249	249	249	249	249	249			
25	241	241	240	240	240	241	241	241	241	241	242	242	242	242	242	241			
30	228	227	226	226	226	227	227	228	228	228	229	229	229	228	228	228			
35	217	217	216	216	216	216	216	217	217	218	219	218	219	218	218	217			
40	199	199	198	198	197	198	198	199	199	200	201	201	201	200	200	199			
45	186	185	184	184	184	185	185	186	186	186	188	187	188	187	187	186			
50	163	163	161	162	161	163	163	164	164	165	166	166	166	165	165	164			
55	147	147	145	146	145	147	147	148	148	149	150	150	150	149	149	148			
60	121	121	119	120	119	121	121	122	122	123	125	124	125	123	123	122			
65	103	102	101	101	101	102	103	104	104	105	107	106	107	105	105	103			
70	74.5	73.7	72.3	72.7	72.6	74.0	74.3	75.5	75.5	76.5	78.2	78.1	78.4	76.9	76.5	74.8			
75	55.3	54.4	53.1	53.4	53.5	54.8	55.3	56.3	56.4	57.4	59.1	59.0	59.2	57.8	57.3	55.6			
80	16.3	27.2	26.0	26.1	26.1	27.4	27.9	29.0	29.2	30.0	31.4	31.2	31.3	30.1	29.7	28.4			
85	0.27	12.6	11.5	11.3	11.2	12.4	13.0	14.0	14.2	14.7	15.6	15.3	15.3	14.4	14.3	13.5			
90	0.25	1.10	0.99	0.81	0.69	1.01	1.48	1.75	0.23	1.72	1.96	1.51	1.22	1.27	1.54	1.36			
95	0.38	0.42	0.55	0.61	0.61	0.61	0.65	0.66	0.32	0.50	0.62	0.56	0.51	0.53	0.52	0.34			
100	0.65	0.66	0.68	0.70	0.72	0.70	0.67	0.65	0.54	0.52	0.52	0.53	0.54	0.54	0.54	0.54			
105	0.86	0.86	0.88	0.88	0.88	0.87	0.86	0.84	0.73	0.69	0.69	0.69	0.69	0.70	0.71	0.71			
110	1.21	1.18	1.20	1.20	1.20	1.19	1.18	1.16	1.03	0.95	0.95	0.96	0.96	0.97	0.98	0.98			
115	1.44	1.39	1.41	1.41	1.40	1.39	1.39	1.38	1.24	1.15	1.14	1.14	1.15	1.16	1.16	1.17			
120	1.77	1.70	1.71	1.71	1.70	1.69	1.69	1.69	1.54	1.44	1.41	1.41	1.43	1.43	1.44	1.45			
125	1.98	1.90	1.90	1.89	1.89	1.89	1.88	1.88	1.73	1.63	1.59	1.59	1.61	1.61	1.61	1.64			
130	2.27	2.18	2.16	2.15	2.14	2.15	2.15	2.16	2.00	1.90	1.84	1.85	1.85	1.86	1.86	1.91			
135	2.44	2.36	2.32	2.31	2.29	2.31	2.32	2.33	2.16	2.07	2.00	2.00	2.00	2.00	2.02	2.08			
140	2.66	2.59	2.54	2.52	2.51	2.54	2.54	2.57	2.38	2.29	2.23	2.21	2.19	2.21	2.23	2.32			
145	2.79	2.73	2.68	2.64	2.63	2.68	2.68	2.71	2.50	2.42	2.37	2.34	2.31	2.34	2.38	2.45			
150	2.96	2.92	2.86	2.81	2.80	2.86	2.87	2.88	2.68	2.60	2.56	2.54	2.49	2.52	2.57	2.66			
155	3.06	3.03	2.98	2.92	2.93	2.99	2.98	2.99	2.79	2.72	2.68	2.67	2.63	2.64	2.70	2.79			
160	3.20	3.18	3.14	3.09	3.14	3.15	3.12	3.13	2.97	2.90	2.86	2.86	2.85	2.84	2.90	2.98			
165	3.29	3.28	3.24	3.20	3.26	3.23	3.22	3.22	3.09	3.04	3.00	2.99	3.01	2.97	3.03	3.11			
170	3.44	3.43	3.40	3.37	3.43	3.39	3.37	3.39	3.28	3.25	3.22	3.21	3.24	3.21	3.25	3.32			
175	3.53	3.53	3.52	3.50	3.55	3.51	3.49	3.51	3.43	3.40	3.38	3.38	3.41	3.39	3.42	3.47			
180	3.64	3.63	3.62	3.62	3.68	3.65	3.65	3.67	3.65	3.63	3.62	3.62	3.68	3.65	3.65	3.67			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-03-23

□ 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: