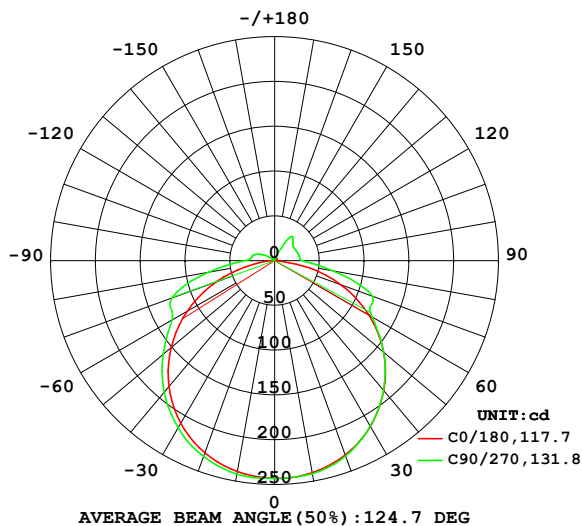


LUMINAIRE PHOTOMETRIC TEST REPORT

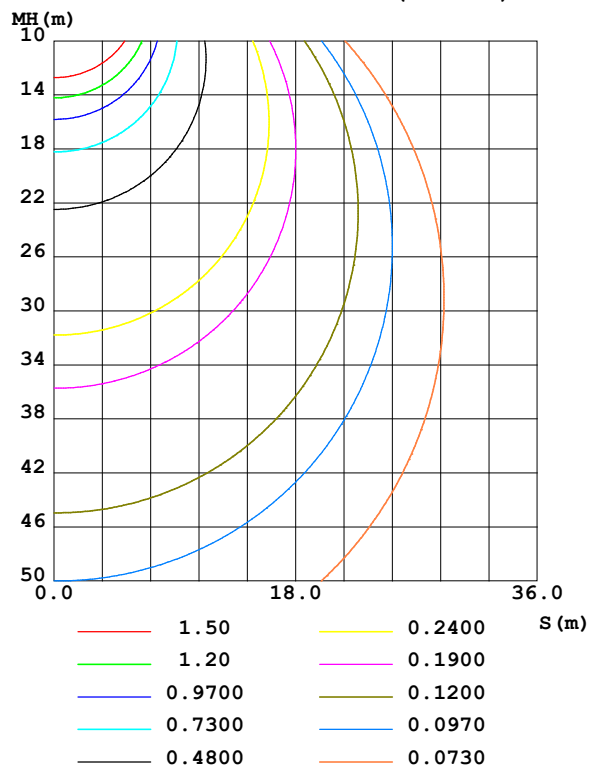
NAME: 2835 IP67	TYPE: 2835 160LED 12V	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.012*0.5	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 122.42 lm/W
MODEL	6500K RA90 12MM 14.4W	Imax (cd)	243.4	S/MH(C0/180)	1.28	
NOMINAL POWER(W)	7.2	LOR(%)	100.0	S/MH(C90/270)	1.32	
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	885.74	□ UP,DN(C0-180)	5.4,45.5	
NOMINAL FLUX(lm)	11.0718	CIE CLASS	DIRECT	□ UP,DN(C180-360)	2.8,46.3	
LAMPS INSIDE	80	□ up (%)	8.3	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	24	□ down (%)	91.7	CIBSE SHR MAX	1.50	

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:2022-04-18

□ 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	240.5	241.3	241.6	240.4	239.1	240.9	242.0	241.9	0- 10	23.12	23.12	2.61,2.61
20	230.7	232.8	232.1	231.3	228.3	231.4	232.5	233.0	10- 20	67.02	90.14	10.2,10.2
30	213.6	215.8	213.6	213.8	209.6	214.4	215.6	216.8	20- 30	103.3	193.4	21.8,21.8
40	189.5	190.9	189.1	188.1	183.6	189.6	191.9	193.3	30- 40	126.9	320.3	36.2,36.2
50	158.8	160.4	158.9	156.7	150.9	159.0	162.5	164.0	40- 50	135.1	455.5	51.4,51.4
60	121.7	124.4	125.6	120.6	112.4	124.3	132.3	130.0	50- 60	126.9	582.4	65.8,65.8
70	78.47	93.59	116.3	92.27	68.89	98.36	122.3	104.1	60- 70	108.5	691.0	78,78
80	24.32	58.61	66.20	58.87	24.69	63.30	74.79	66.06	70- 80	83.12	774.1	87.4,87.4
90	0.3433	23.13	30.97	24.66	0.3604	24.52	33.31	25.80	80- 90	38.45	812.5	91.7,91.7
100	0.6912	22.48	28.25	23.23	0.6778	17.28	26.06	20.67	90-100	20.70	833.2	94.1,94.1
110	1.192	21.04	27.04	21.22	1.138	10.06	21.02	12.16	100-110	16.91	850.1	96,96
120	1.693	18.73	26.28	19.01	1.599	1.993	12.59	2.321	110-120	12.08	862.2	97.3,97.3
130	2.134	17.83	27.15	18.70	2.004	1.912	1.967	1.873	120-130	8.422	870.6	98.3,98.3
140	2.492	15.68	32.22	17.36	2.331	2.216	2.151	2.165	130-140	7.018	877.7	99.1,99.1
150	2.767	3.779	22.81	5.696	2.586	2.495	2.383	2.441	140-150	5.143	882.8	99.7,99.7
160	2.993	2.951	3.219	2.970	2.836	2.752	2.688	2.719	150-160	1.786	884.6	99.9,99.9
170	3.225	3.191	3.214	3.186	3.123	3.061	3.044	3.051	160-170	0.8445	885.4	100,100
180	3.444	3.408	3.440	3.428	3.439	3.408	3.438	3.418	170-180	0.3092	885.7	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 401.5 lm

%lum = 45.3%

%lamp = 45.3%

Conical surface Flux(120deg): 582.42 lm

%lum = 65.8%

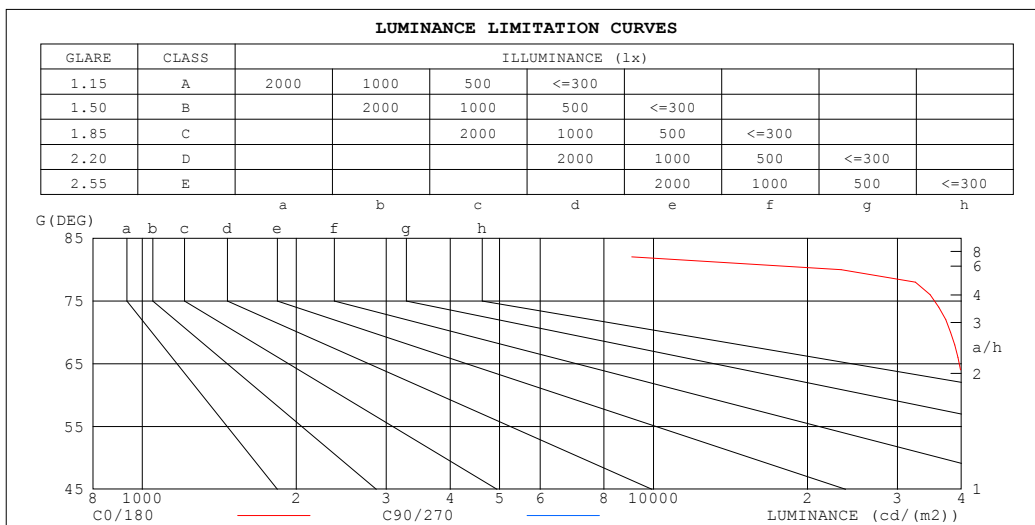
%lamp = 65.8%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-04-18

□ 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 IP67	TYPE: 2835 160LED 12V	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.012*0.5	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	722	90606
80	23269	63596
75	38500	64311
70	38126	56735
65	41347	46841
60	40445	41904
55	41933	42319
50	41046	41236
45	41815	41920

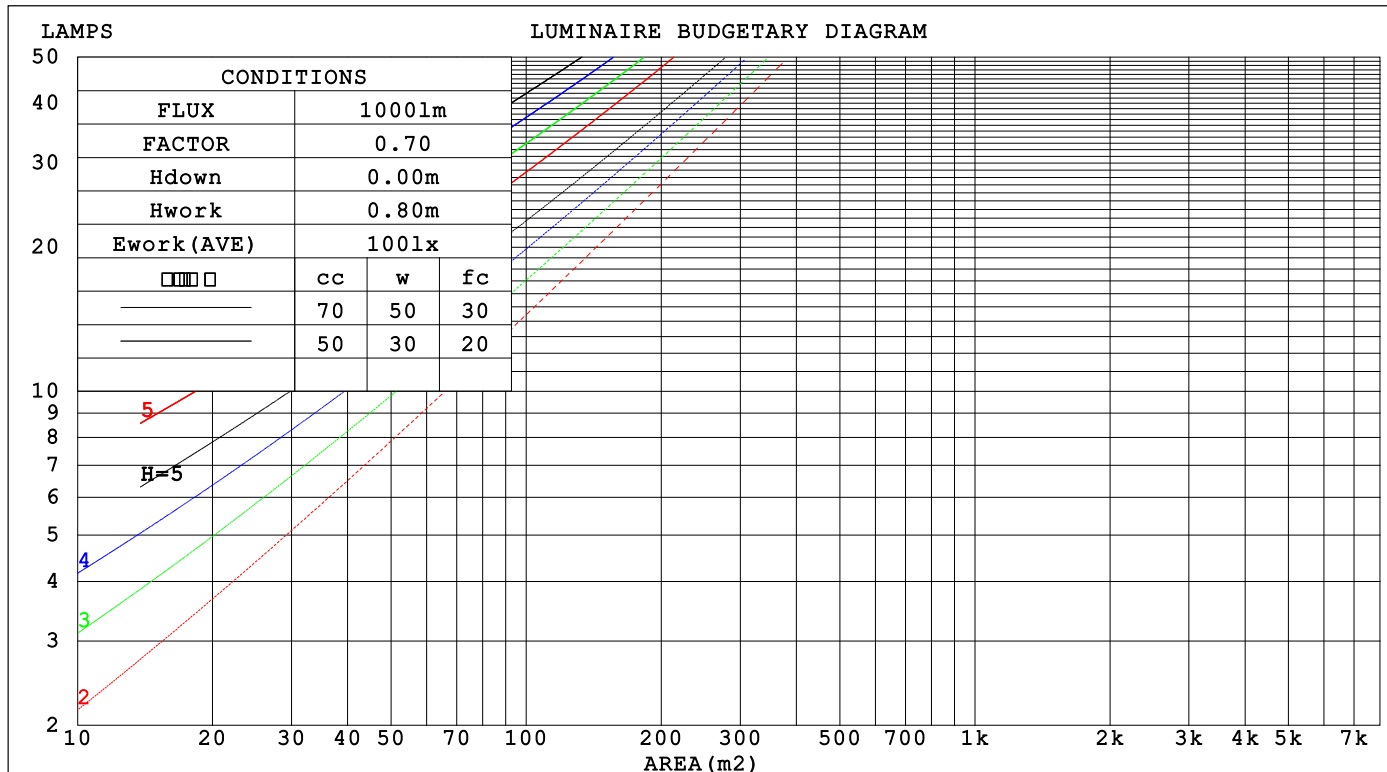
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2022-04-18

☐ 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 IP67	TYPE: 2835 160LED 12V	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.012*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:2022-04-18

□ 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 IP67	TYPE: 2835 160LED 12V	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.012*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	.351 .199 .063	.341 .194 .062	.323 .185 .059	.306 .177 .057	.291 .169 .054	
2.0	.316 .173 .053	.308 .170 .052	.292 .162 .050	.277 .155 .049	.263 .149 .047	
3.0	.286 .152 .046	.279 .149 .045	.264 .143 .043	.251 .137 .042	.238 .132 .041	
4.0	.261 .135 .040	.254 .133 .039	.241 .128 .038	.228 .123 .037	.217 .118 .036	
5.0	.239 .122 .035	.232 .119 .035	.221 .115 .034	.210 .111 .033	.199 .106 .032	
6.0	.220 .110 .032	.214 .108 .031	.203 .104 .030	.193 .100 .030	.184 .097 .029	
7.0	.203 .101 .028	.198 .099 .028	.189 .095 .027	.179 .092 .027	.171 .089 .026	
8.0	.189 .092 .026	.184 .091 .026	.176 .088 .025	.167 .085 .024	.160 .082 .024	
9.0	.177 .085 .024	.172 .084 .024	.164 .081 .023	.157 .079 .023	.150 .076 .022	
10.0	.166 .079 .022	.162 .078 .022	.154 .076 .021	.147 .073 .021	.141 .071 .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	.253 .253 .253	.217 .217 .217	.148 .148 .148	.085 .085 .085	.027 .027 .027	
1.0	.247 .219 .195	.211 .188 .168	.144 .129 .116	.083 .075 .067	.027 .024 .022	
2.0	.239 .196 .159	.205 .168 .137	.141 .117 .096	.081 .068 .056	.026 .022 .018	
3.0	.232 .179 .136	.199 .154 .118	.137 .107 .083	.079 .063 .049	.025 .020 .016	
4.0	.224 .166 .121	.192 .143 .105	.132 .100 .074	.077 .058 .044	.025 .019 .014	
5.0	.217 .156 .111	.186 .135 .096	.128 .094 .068	.074 .055 .040	.024 .018 .013	
6.0	.209 .148 .103	.180 .128 .090	.124 .089 .064	.072 .053 .038	.023 .017 .012	
7.0	.202 .141 .098	.174 .122 .085	.120 .086 .060	.070 .050 .036	.023 .017 .012	
8.0	.196 .135 .094	.168 .117 .082	.117 .082 .058	.068 .049 .034	.022 .016 .011	
9.0	.189 .130 .090	.163 .113 .079	.113 .079 .056	.066 .047 .033	.021 .015 .011	
10.0	.184 .126 .088	.158 .109 .077	.110 .077 .054	.064 .046 .032	.021 .015 .011	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-04-18

☐ 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 IP67					TYPE: 2835 160LED 12V			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.:					SUR.: 0.012*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	25.7	27.1	26.0	27.5	27.9	25.8	27.2	26.1	27.6	28.0	
	27.3	28.7	27.7	29.0	29.4	28.3	29.7	28.7	30.1	30.5	
	28.0	29.3	28.4	29.7	30.1	29.6	30.9	30.0	31.3	31.7	
	28.4	29.6	28.9	30.1	30.5	30.6	31.8	31.0	32.2	32.7	
	28.4	29.6	28.9	30.0	30.5	31.0	32.1	31.4	32.6	33.0	
	28.4	29.5	28.8	29.9	30.4	31.3	32.5	31.8	32.9	33.4	
4H	2H	26.3	27.6	26.8	28.0	28.5	26.4	27.7	26.9	28.1	28.6
	3H	28.2	29.4	28.7	29.8	30.3	29.2	30.4	29.7	30.8	31.3
	4H	29.1	30.1	29.6	30.6	31.1	30.6	31.7	31.1	32.2	32.7
	6H	29.7	30.7	30.2	31.2	31.7	31.8	32.7	32.3	33.2	33.7
	8H	29.8	30.6	30.3	31.2	31.7	32.3	33.1	32.8	33.6	34.2
	12H	29.8	30.6	30.3	31.1	31.7	32.7	33.5	33.3	34.1	34.6
8H	4H	29.7	30.6	30.3	31.1	31.7	31.0	31.9	31.6	32.4	33.0
	6H	30.6	31.4	31.2	31.9	32.5	32.4	33.1	32.9	33.6	34.2
	8H	30.8	31.5	31.4	32.1	32.7	33.0	33.6	33.6	34.2	34.8
	12H	31.0	31.5	31.6	32.1	32.8	33.6	34.2	34.2	34.8	35.4
12H	4H	29.8	30.6	30.4	31.1	31.7	31.0	31.8	31.6	32.4	33.0
	6H	30.8	31.5	31.4	32.0	32.7	32.4	33.1	33.0	33.7	34.3
	8H	31.2	31.7	31.8	32.3	33.0	33.1	33.7	33.7	34.3	34.9
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.2					

CIE Pub.117, 885.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.4)
Area: 0.006 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-04-18

☐ 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:

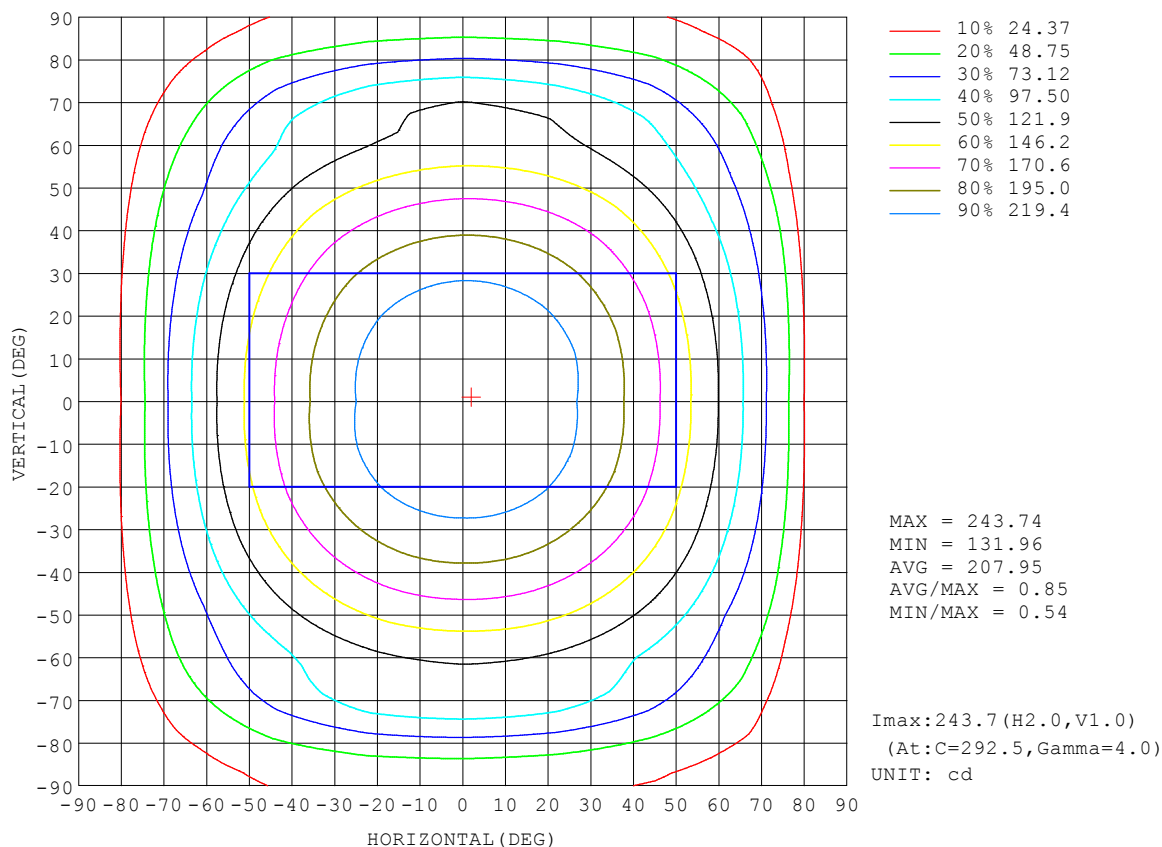
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Range: 0 - 180DEG
Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.450
Humidity:65.0%
Test Distance:5.749m [K=1.0000]
Remarks:

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ISOCANDELA DIAGRAM

NAME: 2835 IP67	TYPE: 2835 160LED 12V	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.012*0.5	Shielding Angle:

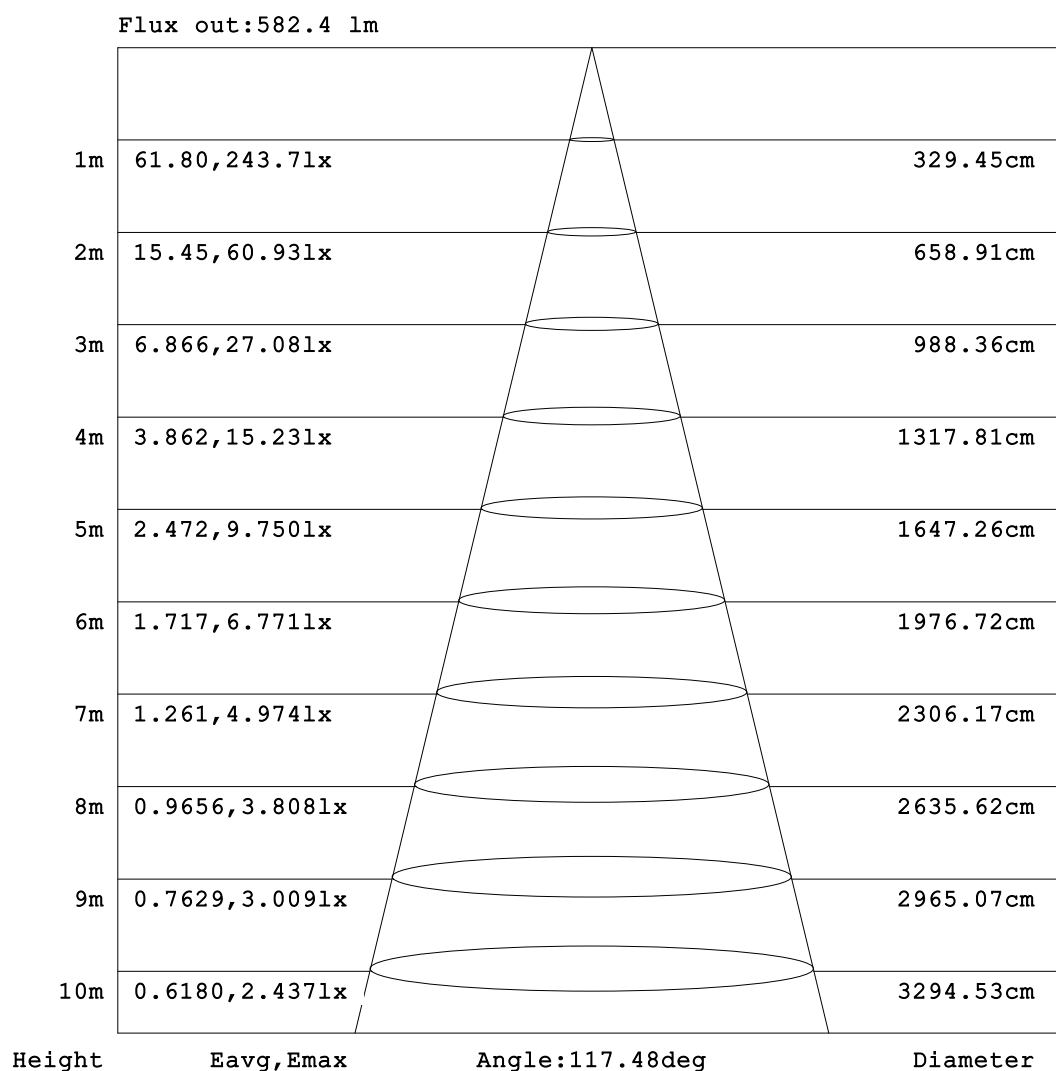


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2022-04-18

☐ 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 IP67	TYPE: 2835 160LED 12V	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.012*0.5	Shielding Angle:



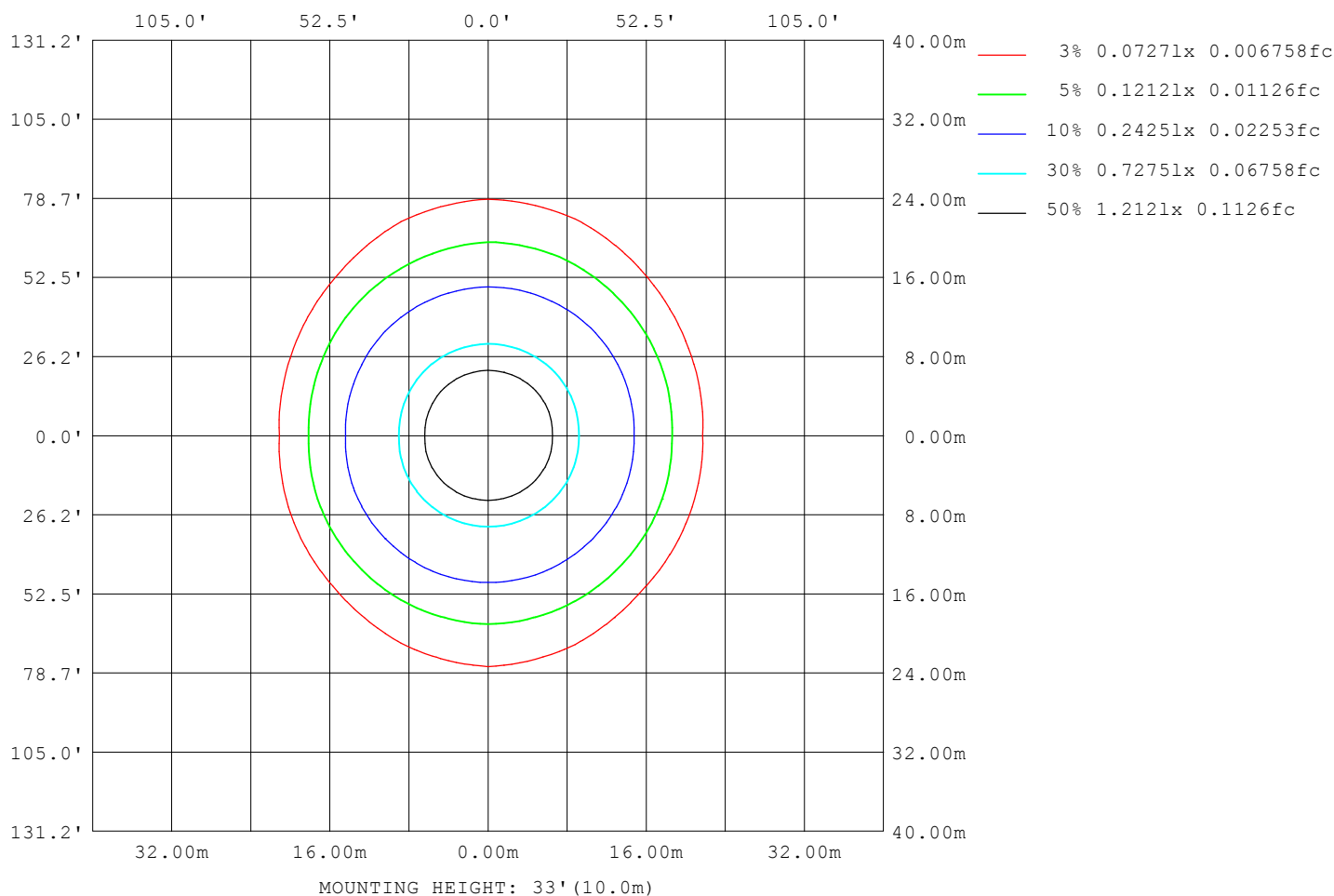
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-18

☐ 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 IP67	TYPE: 2835 160LED 12V	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.012*0.5	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2022-04-18

☐ 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 IP67	TYPE: 2835 160LED 12V	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.012*0.5	Shielding Angle:

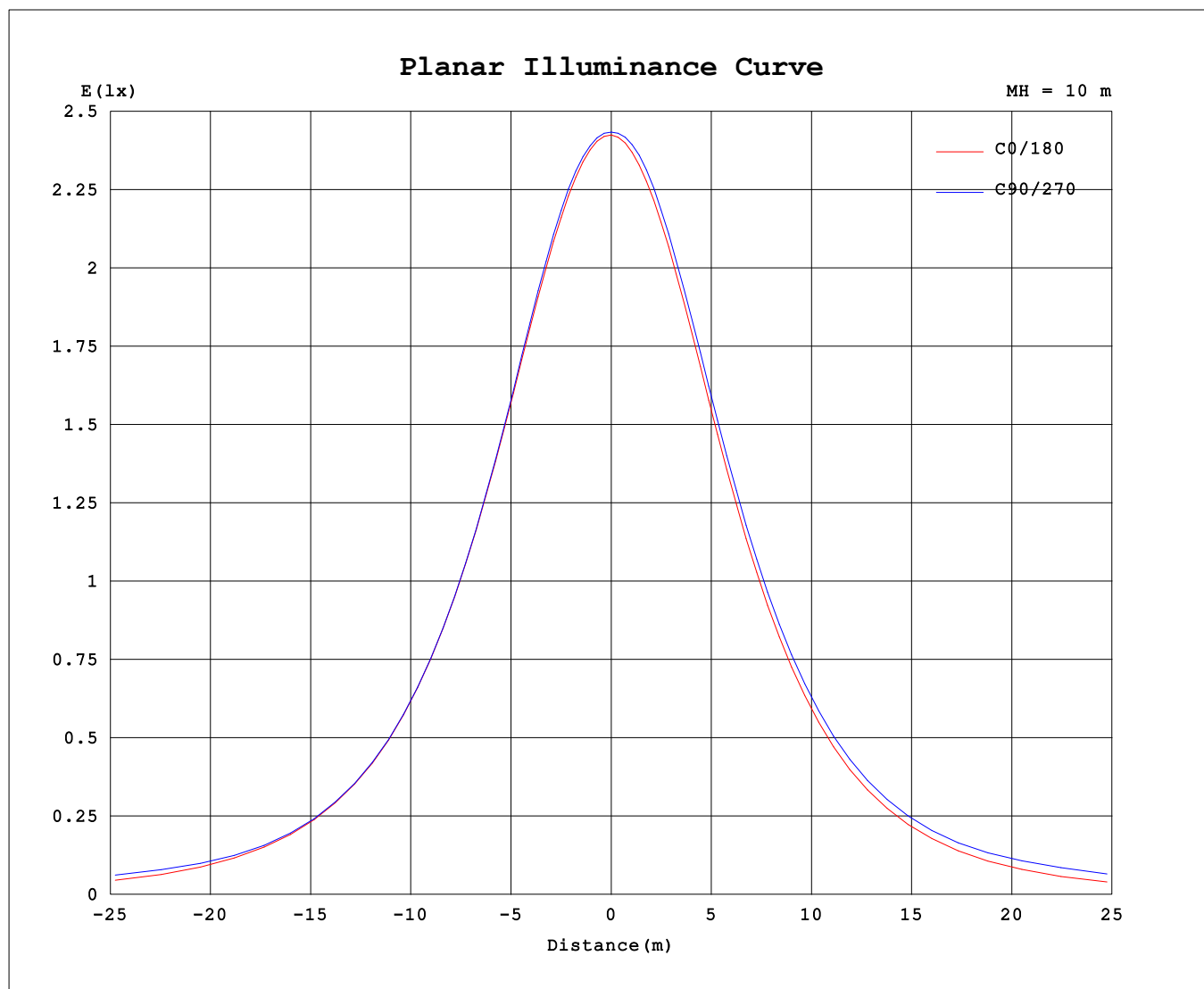
AvgL	cd/m2
L_0~180 (65) av	37870
L_0~180 (75) av	32694
L_0~180 (85) av	6754
L_90~270 (65) av	48585
L_90~270 (75) av	63214
L_90~270 (85) av	89217
L_45 (65) av	42274
L_45 (75) av	55181
L_45 (85) av	72969

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2022-04-18

☐ 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: 2022-04-18

☐ 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 IP67	TYPE: 2835 160LED 12V	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.012*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	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243			
5	243	243	243	243	243	243	243	242	242	242	243	243	243	243	243	243			
10	240	241	241	242	242	241	240	240	239	240	241	242	242	242	242	241			
15	237	238	239	239	239	239	238	236	236	237	238	239	239	239	239	238			
20	231	232	233	233	232	232	231	230	228	230	231	232	233	233	233	232			
25	225	226	227	226	226	226	225	224	222	224	226	226	227	227	227	227			
30	214	216	216	215	214	214	214	212	210	212	214	215	216	216	217	216			
35	205	207	207	206	205	204	204	203	200	203	205	206	207	207	208	207			
40	189	192	191	190	189	189	188	187	184	186	190	191	192	193	193	192			
45	178	180	179	179	178	177	176	175	171	174	178	179	181	181	182	181			
50	159	161	160	160	159	158	157	155	151	155	159	161	163	163	164	162			
55	145	147	147	147	146	145	143	140	136	140	146	148	150	151	151	148			
60	122	124	124	126	126	124	121	117	112	117	124	128	132	132	130	126			
65	105	108	109	115	119	113	106	101	95.6	101	110	120	128	125	117	110			
70	78.5	82.2	93.6	112	116	111	92.3	76.1	68.9	77.3	98.4	117	122	118	104	86.1			
75	60.0	66.5	87.9	97.4	99.8	98.5	86.0	62.4	50.7	64.8	89.9	103	107	103	93.8	72.9			
80	24.3	48.1	58.6	64.4	66.2	65.6	58.9	44.6	24.7	43.7	63.3	71.8	74.8	72.3	66.1	51.2			
85	0.38	29.4	39.6	45.1	47.3	46.5	40.5	27.8	10.0	27.1	43.4	51.5	54.3	51.9	45.8	32.9			
90	0.34	12.9	23.1	28.8	31.0	30.0	24.7	14.3	0.36	12.7	24.5	31.1	33.3	31.6	25.8	14.8			
95	0.46	12.1	21.8	27.0	28.5	27.6	22.8	13.5	0.46	11.5	21.8	26.7	28.1	26.7	22.1	12.2			
100	0.69	12.2	22.5	26.9	28.2	27.2	23.2	13.3	0.68	7.04	17.3	24.8	26.1	24.9	20.7	8.82			
105	0.88	11.1	22.4	26.7	27.8	26.8	22.7	12.5	0.85	3.05	15.7	22.5	25.1	23.8	18.3	4.46			
110	1.19	9.14	21.0	25.8	27.0	25.6	21.2	10.3	1.14	1.13	10.1	14.6	21.0	19.1	12.2	1.08			
115	1.40	7.80	20.1	25.4	26.6	25.2	20.3	9.01	1.32	1.29	6.62	11.6	17.6	15.7	8.29	1.23			
120	1.69	6.05	18.7	24.8	26.3	24.8	19.0	7.36	1.60	1.54	1.99	8.17	12.6	10.2	2.32	1.48			
125	1.88	4.72	18.2	24.4	26.1	24.6	18.7	6.32	1.77	1.70	1.71	4.46	7.99	5.22	1.67	1.64			
130	2.13	2.97	17.8	25.2	27.1	25.8	18.7	4.45	2.00	1.93	1.91	1.93	1.97	1.92	1.87	1.87			
135	2.29	2.43	17.9	26.2	28.7	27.3	19.1	3.68	2.15	2.07	2.04	2.03	2.00	2.01	2.00	2.01			
140	2.49	2.45	15.7	29.1	32.2	29.6	17.4	2.69	2.33	2.26	2.22	2.19	2.15	2.17	2.17	2.21			
145	2.61	2.57	9.52	28.9	33.9	29.5	12.4	2.63	2.44	2.38	2.33	2.30	2.25	2.26	2.27	2.33			
150	2.77	2.74	3.78	14.9	22.8	15.9	5.70	2.77	2.59	2.53	2.49	2.46	2.38	2.41	2.44	2.51			
155	2.86	2.84	2.82	6.56	10.5	8.04	3.17	2.86	2.69	2.63	2.59	2.58	2.49	2.51	2.55	2.61			
160	2.99	2.98	2.95	2.91	3.22	2.99	2.97	2.98	2.84	2.79	2.75	2.74	2.69	2.67	2.72	2.79			
165	3.08	3.07	3.04	3.00	3.07	3.06	3.05	3.06	2.95	2.90	2.86	2.85	2.83	2.80	2.84	2.91			
170	3.22	3.22	3.19	3.16	3.21	3.19	3.19	3.21	3.12	3.09	3.06	3.05	3.04	3.01	3.05	3.12			
175	3.32	3.32	3.30	3.27	3.31	3.29	3.29	3.32	3.24	3.23	3.20	3.20	3.20	3.18	3.20	3.25			
180	3.44	3.41	3.41	3.41	3.44	3.40	3.43	3.45	3.44	3.42	3.41	3.41	3.44	3.41	3.42	3.45			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-04-18

□ 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: