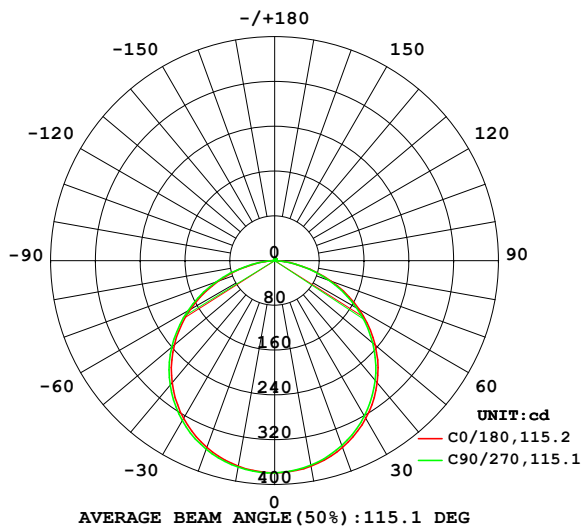


LUMINAIRE PHOTOMETRIC TEST REPORT

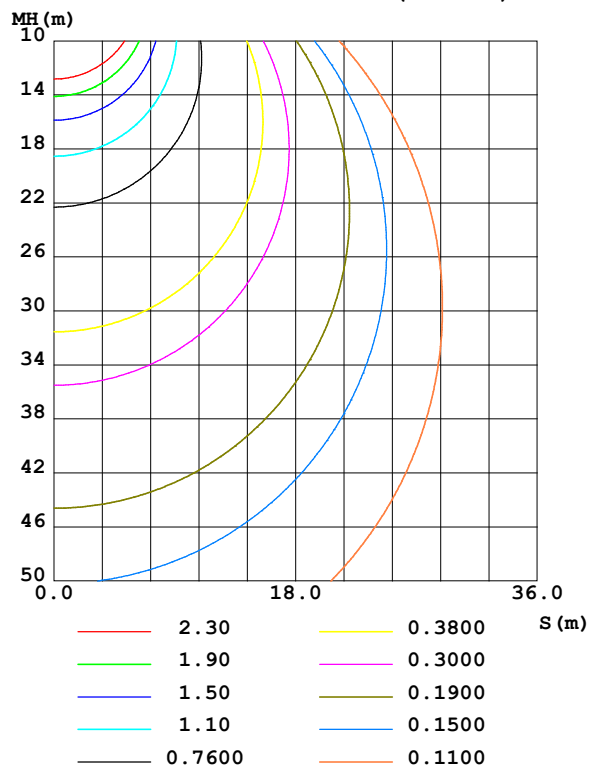
NAME: 2835 IP20	TYPE: 2835 160LED 24V	WEIGHT:
SPEC.: 202-00488-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 160.34 lm/W			
MODEL	2700K	I _{max} (cd)	379.1	S/MH(C0/180)	1.28
NOMINAL POWER(W)	7.2	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1121.7	□ UP,DN(C0-180)	0.7,48.7
NOMINAL FLUX(lm)	14.0209	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.6,49.9
LAMPS INSIDE	80	□ up (%)	1.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	□ 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:2022-03-18

□ 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	373.0	371.7	371.1	371.6	373.0	374.2	374.8	374.3	0- 10	35.89	35.89	3.2,3.2
20	355.1	352.7	351.4	352.4	355.0	357.3	358.4	357.7	10- 20	103.2	139.1	12.4,12.4
30	325.6	322.3	320.6	321.8	325.4	328.6	330.2	329.2	20- 30	157.5	296.5	26.4,26.4
40	285.1	281.4	279.3	280.7	284.9	288.6	290.5	289.3	30- 40	191.8	488.3	43.5,43.5
50	234.3	230.6	228.4	229.9	234.1	238.0	239.9	238.7	40- 50	201.1	689.4	61.5,61.5
60	174.3	171.2	169.2	170.4	174.0	177.5	179.4	178.3	50- 60	183.3	872.8	77.8,77.8
70	107.0	104.9	103.3	104.2	106.8	109.5	111.1	110.2	60- 70	139.7	1012	90.3,90.3
80	39.94	38.92	38.17	38.57	39.76	41.00	42.02	41.58	70- 80	76.89	1089	97.1,97.1
90	0.4014	1.003	0.8244	1.020	0.3578	0.9873	1.031	1.163	80- 90	17.62	1107	98.7,98.7
100	0.9571	0.9581	0.9858	0.9639	0.8037	0.7739	0.7943	0.7681	90-100	0.7630	1108	98.8,98.8
110	1.746	1.703	1.727	1.710	1.500	1.400	1.391	1.388	100-110	1.273	1109	98.9,98.9
120	2.530	2.431	2.454	2.449	2.238	2.059	2.047	2.049	110-120	1.898	1111	99,99
130	3.214	3.083	3.098	3.117	2.901	2.701	2.646	2.664	120-130	2.329	1113	99.2,99.2
140	3.764	3.628	3.614	3.680	3.437	3.258	3.164	3.213	130-140	2.474	1116	99.5,99.5
150	4.198	4.104	4.071	4.148	3.885	3.738	3.604	3.705	140-150	2.322	1118	99.7,99.7
160	4.553	4.489	4.546	4.507	4.302	4.183	4.129	4.166	150-160	1.913	1120	99.8,99.8
170	4.899	4.880	4.957	4.870	4.764	4.693	4.702	4.674	160-170	1.290	1121	100,100
180	5.252	5.230	5.290	5.239	5.245	5.230	5.288	5.237	170-180	0.4738	1122	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 609.58 lm

%lum = 54.3%

%lamp = 54.3%

Conical surface Flux(120deg): 872.77 lm

%lum = 77.8%

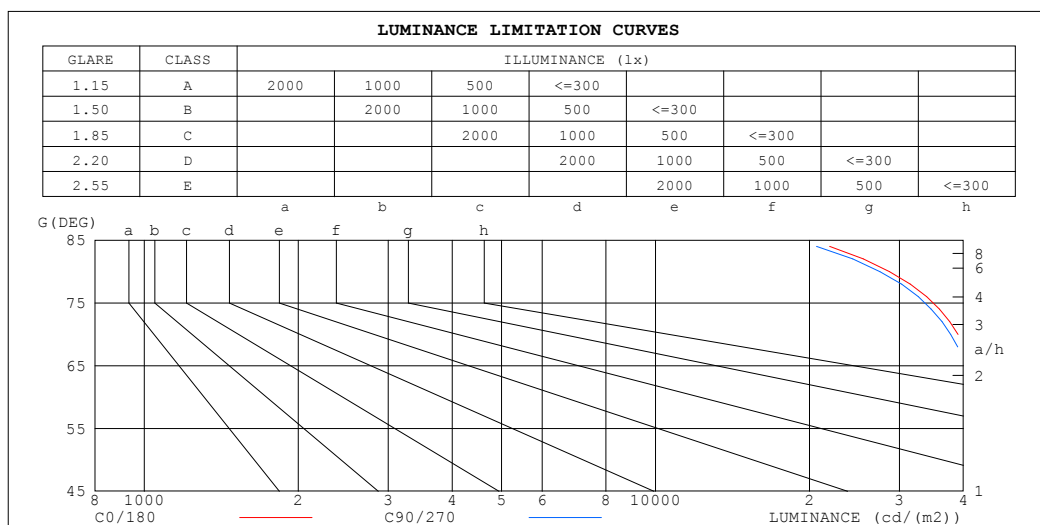
%lamp = 77.8%

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 160LED 24V	WEIGHT:
SPEC.: 202-00488-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	26294	24774
80	28691	27491
75	38258	36870
70	39042	37791
65	43714	42455
60	43498	42323
55	45970	44843
50	45473	44447
45	46923	45996

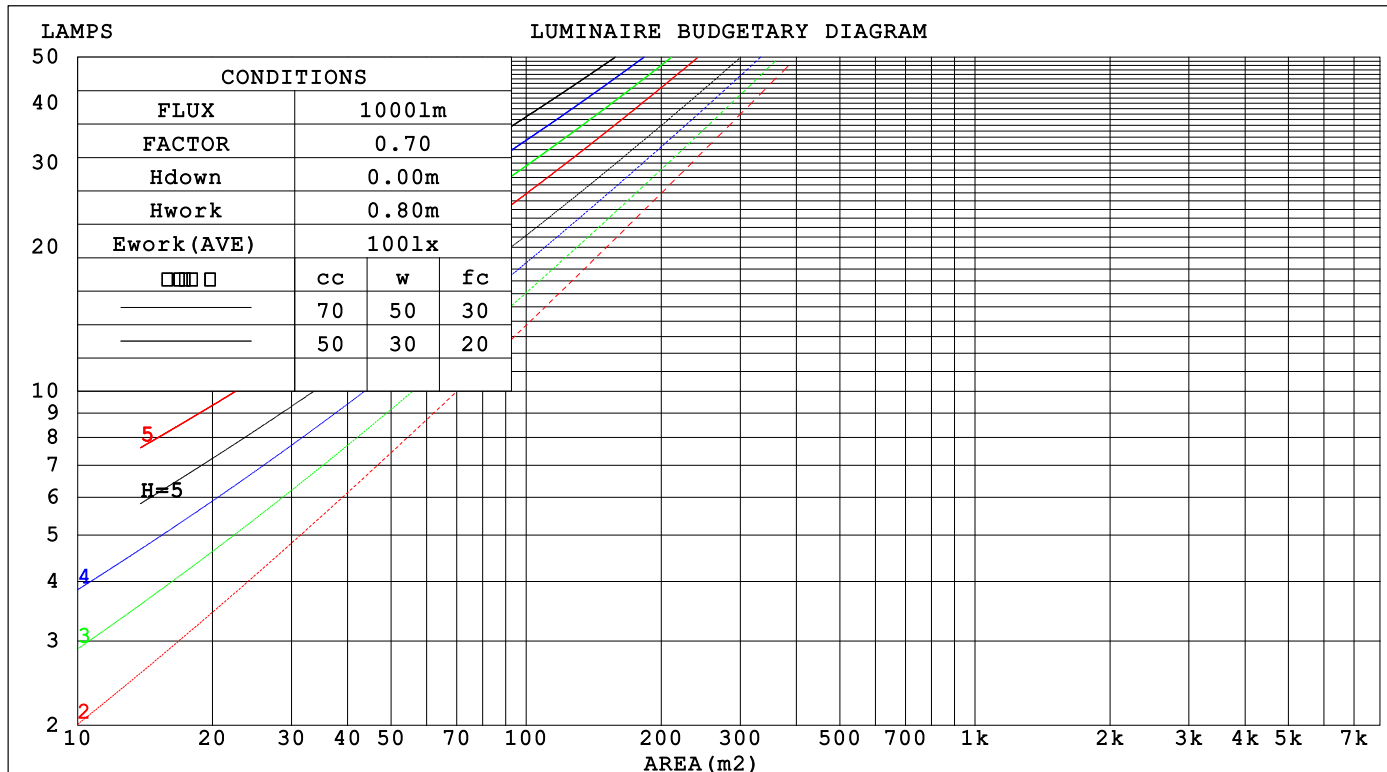
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2022-03-18

☐ 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 160LED 24V	WEIGHT:
SPEC.: 202-00488-00	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 160LED 24V	WEIGHT:
SPEC.: 202-00488-00	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	.307 .175 .055	.300 .171 .054	.286 .164 .052	.273 .157 .051	.261 .151 .049	
2.0	.291 .159 .049	.284 .156 .048	.272 .151 .047	.260 .146 .046	.250 .141 .045	
3.0	.270 .143 .043	.264 .141 .043	.253 .137 .042	.243 .133 .041	.233 .129 .040	
4.0	.249 .129 .038	.244 .128 .038	.234 .124 .037	.225 .121 .036	.217 .118 .036	
5.0	.230 .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	.200 .200 .200	.171 .171 .171	.117 .117 .117	.067 .067 .067	.021 .021 .021	
1.0	.190 .166 .145	.163 .143 .124	.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	.094 .061 .035	.055 .036 .021	.018 .012 .007	
6.0	.153 .093 .049	.131 .080 .043	.090 .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:2022-03-18

☐ 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 160LED 24V			WEIGHT:			
SPEC.: 202-00488-00					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	25.5	27.0	25.8	27.3	27.5	
	27.1	28.5	27.5	28.8	29.1	27.0	28.4	27.3	28.7	28.9	
	27.7	29.0	28.0	29.3	29.6	27.6	28.9	27.9	29.2	29.4	
	28.0	29.3	28.4	29.6	29.9	27.9	29.1	28.2	29.4	29.7	
	28.1	29.3	28.5	29.6	30.0	28.0	29.2	28.3	29.5	29.8	
	28.1	29.3	28.5	29.6	29.9	28.0	29.1	28.3	29.4	29.8	
4H	2H	26.2	27.5	26.6	27.8	28.1	26.1	27.5	26.5	27.7	28.0
	3H	27.9	29.1	28.3	29.4	29.7	27.8	29.0	28.2	29.3	29.6
	4H	28.6	29.6	29.0	30.0	30.3	28.5	29.5	28.9	29.9	30.2
	6H	29.0	30.0	29.5	30.3	30.7	28.9	29.8	29.3	30.2	30.6
	8H	29.2	30.0	29.6	30.4	30.8	29.0	29.9	29.4	30.3	30.7
	12H	29.2	30.0	29.7	30.4	30.8	29.1	29.9	29.5	30.3	30.7
8H	4H	28.8	29.7	29.2	30.1	30.5	28.7	29.6	29.1	30.0	30.4
	6H	29.4	30.1	29.8	30.5	31.0	29.3	30.0	29.7	30.4	30.9
	8H	29.6	30.2	30.0	30.6	31.1	29.4	30.1	29.9	30.5	31.0
	12H	29.7	30.2	30.2	30.7	31.2	29.5	30.1	30.0	30.5	31.0
12H	4H	28.8	29.6	29.2	30.0	30.4	28.7	29.5	29.1	29.9	30.3
	6H	29.4	30.0	29.9	30.5	31.0	29.3	29.9	29.8	30.4	30.9
	8H	29.6	30.2	30.1	30.6	31.1	29.5	30.0	30.0	30.5	31.0
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, 1122 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.4)
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:

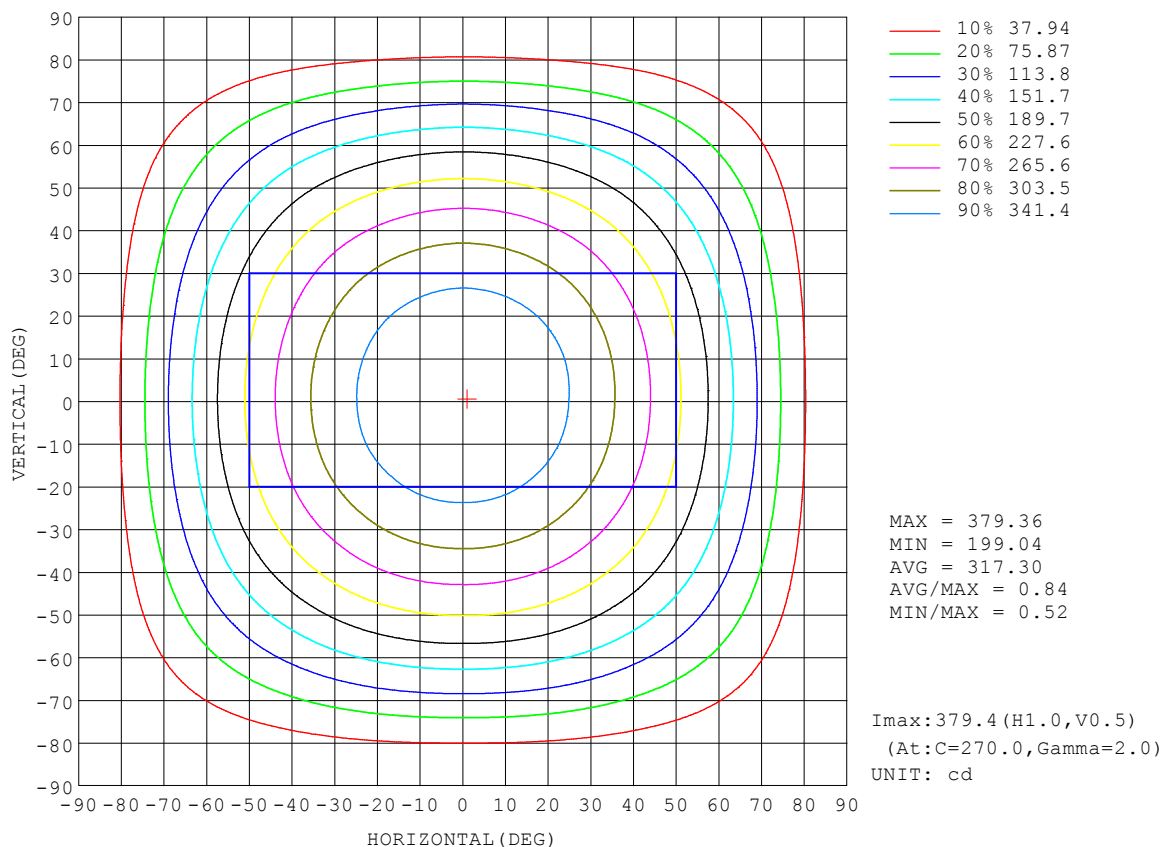
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Range: 0 - 180DEG
Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.450
Humidity:65.0%
Test Distance:5.749m [K=1.0000]
Remarks:

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ISOCANDELA DIAGRAM

NAME: 2835 IP20	TYPE: 2835 160LED 24V	WEIGHT:
SPEC.: 202-00488-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:

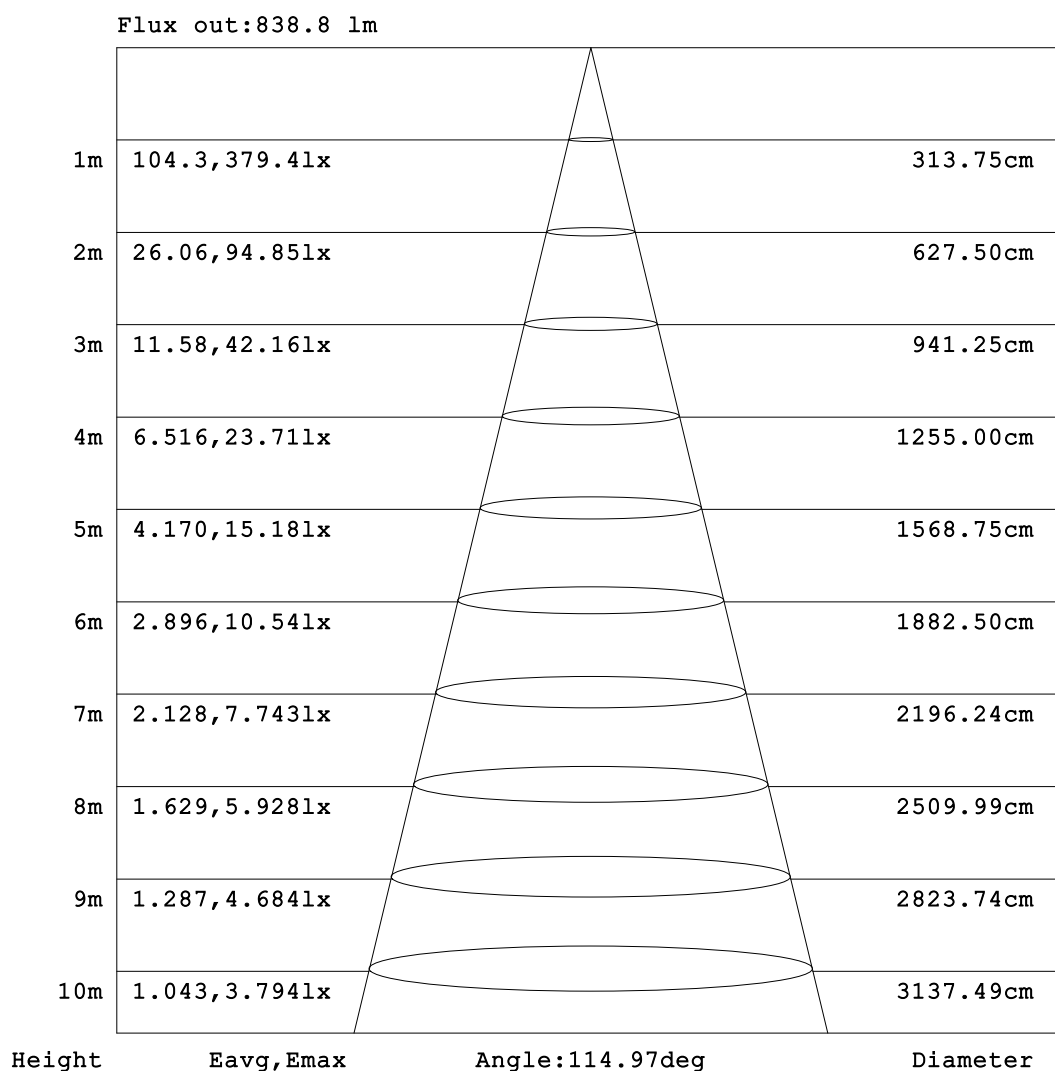


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2022-03-18

☐ 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 160LED 24V	WEIGHT:
SPEC.: 202-00488-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:



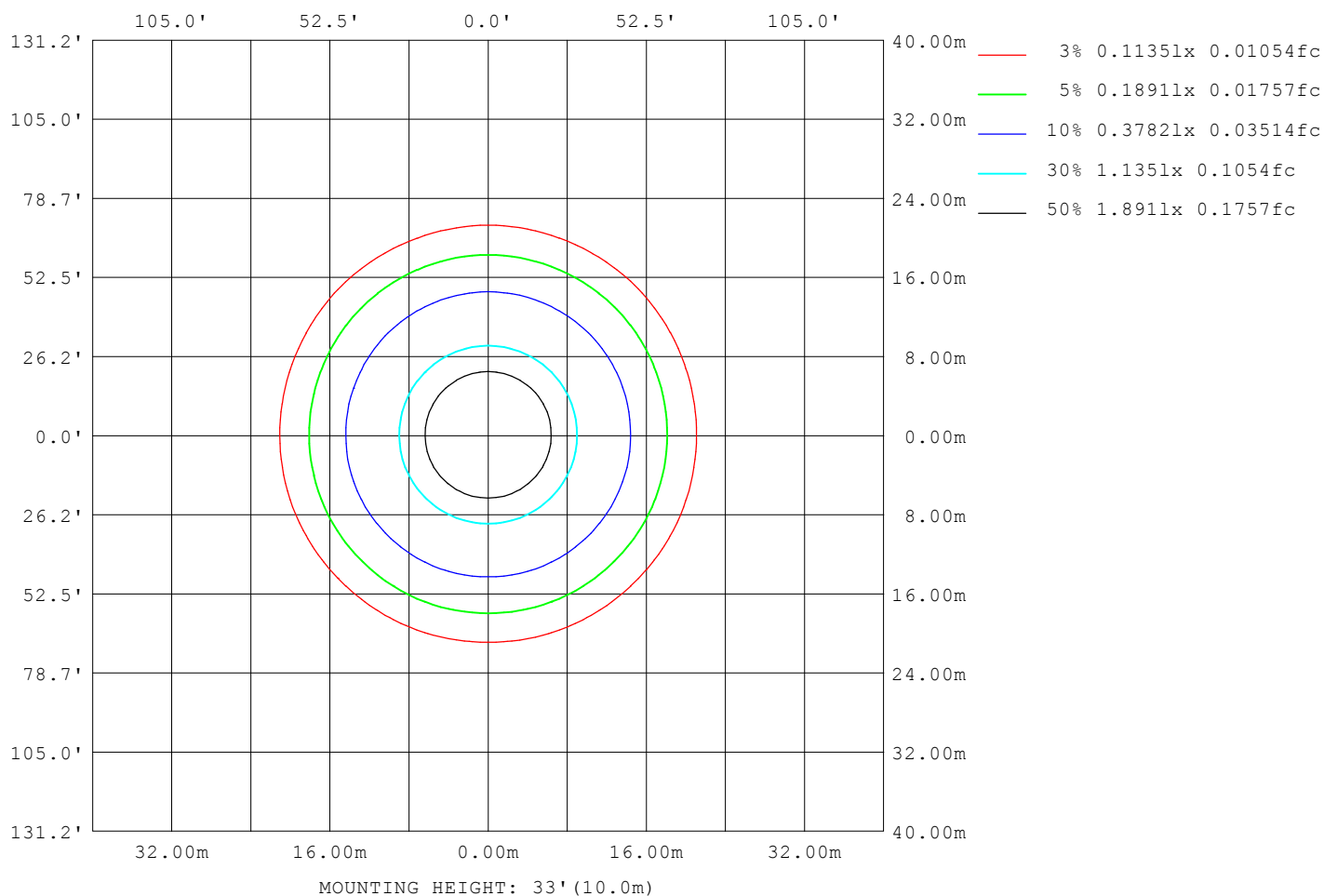
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 160LED 24V	WEIGHT:
SPEC.: 202-00488-00	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 160LED 24V	WEIGHT:
SPEC.: 202-00488-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:

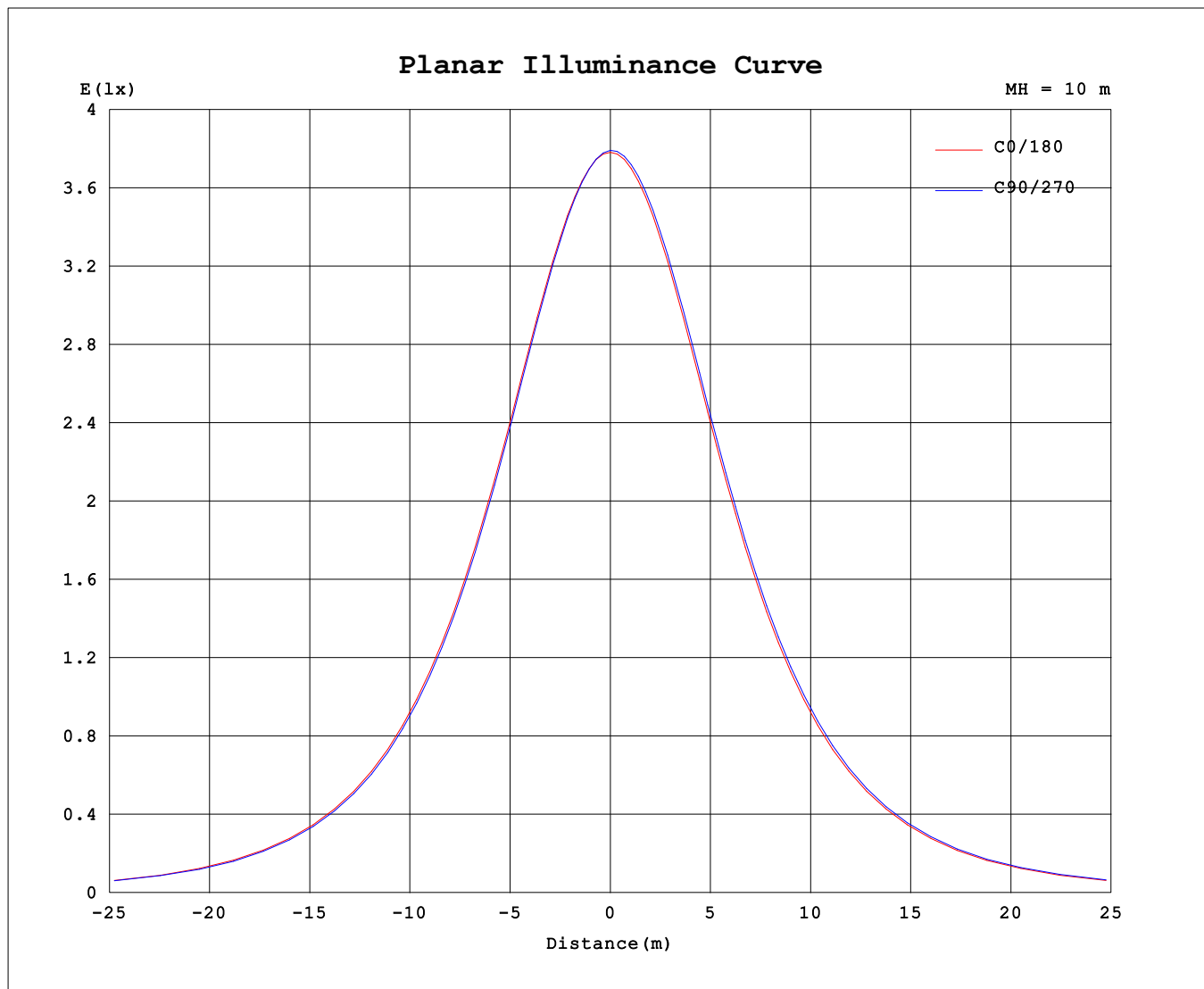
AvgL	cd/m2
L_0~180 (65) av	41796
L_0~180 (75) av	34980
L_0~180 (85) av	18856
L_90~270 (65) av	41830
L_90~270 (75) av	35114
L_90~270 (85) av	19869
L_45 (65) av	41844
L_45 (75) av	35100
L_45 (85) av	20105

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 160LED 24V	WEIGHT:
SPEC.: 202-00488-00	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	379	379	379	379	379	379	379	379	379	379	379	379	379	379	379	379			
5	378	378	378	377	377	377	377	378	378	378	379	379	379	379	379	378			
10	373	372	372	371	371	371	372	372	373	373	374	375	375	375	374	374			
15	367	366	365	365	365	365	365	366	367	368	369	369	370	369	369	368			
20	355	354	353	352	351	352	352	354	355	356	357	358	358	358	358	356			
25	345	343	342	341	340	341	341	343	344	346	347	348	349	348	348	346			
30	326	324	322	321	321	321	322	324	325	327	329	329	330	330	329	327			
35	311	309	307	306	305	306	307	309	310	312	314	315	316	315	314	313			
40	285	284	281	280	279	280	281	283	285	286	289	289	290	290	289	287			
45	266	264	262	261	260	261	262	264	266	267	270	270	272	271	270	268			
50	234	233	231	230	228	229	230	232	234	236	238	239	240	239	239	236			
55	211	210	208	207	206	207	207	209	211	212	215	216	217	216	216	213			
60	174	173	171	171	169	170	170	173	174	175	178	178	179	179	178	176			
65	148	148	145	145	143	144	145	147	148	149	151	152	153	152	152	150			
70	107	107	105	105	103	104	104	106	107	107	109	110	111	110	110	108			
75	79.4	79.2	77.6	77.5	76.3	77.2	77.1	78.5	79.1	79.3	81.3	81.4	82.7	81.7	82.0	80.1			
80	39.9	39.9	38.9	39.0	38.2	38.8	38.6	39.5	39.8	39.7	41.0	41.0	42.0	41.3	41.6	40.3			
85	18.4	18.4	17.7	17.8	17.3	17.8	17.6	17.9	17.4	17.9	18.8	18.7	19.4	19.0	19.3	18.5			
90	0.40	1.04	1.00	0.95	0.82	0.95	1.02	1.08	0.36	0.94	0.99	0.93	1.03	1.07	1.16	1.02			
95	0.57	0.58	0.66	0.69	0.70	0.69	0.67	0.58	0.50	0.50	0.57	0.60	0.59	0.60	0.59	0.50			
100	0.96	0.94	0.96	0.97	0.99	0.97	0.96	0.94	0.80	0.78	0.77	0.78	0.79	0.78	0.77	0.77			
105	1.26	1.23	1.25	1.26	1.27	1.26	1.25	1.23	1.07	1.02	1.01	1.01	1.00	1.01	1.00	1.01			
110	1.75	1.68	1.70	1.71	1.73	1.72	1.71	1.68	1.50	1.42	1.40	1.40	1.39	1.39	1.39	1.40			
115	2.07	1.98	2.00	2.01	2.03	2.01	2.01	1.98	1.80	1.70	1.66	1.66	1.65	1.65	1.65	1.68			
120	2.53	2.43	2.43	2.44	2.45	2.45	2.45	2.43	2.24	2.12	2.06	2.05	2.05	2.04	2.05	2.08			
125	2.82	2.71	2.70	2.72	2.73	2.73	2.73	2.72	2.52	2.40	2.32	2.30	2.29	2.30	2.31	2.36			
130	3.21	3.12	3.08	3.09	3.10	3.12	3.12	3.14	2.90	2.79	2.70	2.66	2.65	2.65	2.66	2.75			
135	3.45	3.36	3.31	3.30	3.31	3.35	3.35	3.38	3.13	3.03	2.93	2.89	2.86	2.87	2.89	3.00			
140	3.76	3.69	3.63	3.60	3.61	3.68	3.68	3.71	3.44	3.34	3.26	3.21	3.16	3.18	3.21	3.32			
145	3.96	3.89	3.83	3.79	3.80	3.88	3.88	3.89	3.63	3.54	3.46	3.41	3.33	3.36	3.41	3.53			
150	4.20	4.15	4.10	4.05	4.07	4.16	4.15	4.15	3.88	3.80	3.74	3.70	3.60	3.64	3.70	3.80			
155	4.35	4.32	4.26	4.22	4.27	4.33	4.30	4.30	4.05	3.98	3.91	3.89	3.81	3.83	3.89	3.98			
160	4.55	4.53	4.49	4.45	4.55	4.55	4.51	4.51	4.30	4.24	4.18	4.17	4.13	4.11	4.17	4.25			
165	4.69	4.68	4.64	4.61	4.74	4.68	4.65	4.66	4.48	4.42	4.38	4.36	4.36	4.30	4.36	4.44			
170	4.90	4.90	4.88	4.86	4.96	4.90	4.87	4.89	4.76	4.72	4.69	4.69	4.70	4.64	4.67	4.75			
175	5.05	5.05	5.04	5.04	5.12	5.06	5.04	5.06	4.96	4.94	4.92	4.93	4.94	4.88	4.91	4.97			
180	5.25	5.23	5.23	5.25	5.29	5.24	5.24	5.26	5.24	5.23	5.23	5.25	5.29	5.25	5.24	5.26			

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: