

```

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	401.4	399.6	398.5	398.6	400.1	401.9	403.0	402.8	0- 10	38.53	38.53	3.16,3.16
20	383.9	380.5	378.3	378.5	381.3	384.7	386.8	386.6	10- 20	111.0	149.6	12.3,12.3
30	354.1	349.4	346.2	346.5	350.2	355.0	358.2	358.0	20- 30	170.1	319.6	26.2,26.2
40	312.2	306.6	302.7	303.0	307.2	313.0	317.0	316.9	30- 40	208.0	527.6	43.2,43.2
50	258.6	252.7	248.4	248.4	252.8	258.9	263.5	263.6	40- 50	219.2	746.8	61.2,61.2
60	194.1	188.5	184.0	183.7	187.3	193.4	198.2	198.7	50- 60	200.6	947.4	77.6,77.6
70	120.7	116.0	111.9	111.0	113.5	118.6	123.3	124.2	60- 70	153.1	1100	90.2,90.2
80	46.82	43.42	40.47	39.41	40.69	43.68	47.37	48.36	70- 80	84.15	1185	97.1,97.1
90	0.4432	1.237	0.8825	0.8130	0.4364	0.7673	1.062	1.439	80- 90	19.50	1204	98.7,98.7
100	1.019	1.041	1.090	1.090	0.9207	0.8597	0.8514	0.8155	90-100	0.8095	1205	98.8,98.8
110	1.870	1.853	1.907	1.911	1.681	1.550	1.510	1.495	100-110	1.401	1206	98.9,98.9
120	2.725	2.648	2.699	2.717	2.479	2.268	2.223	2.215	110-120	2.080	1208	99,99
130	3.472	3.342	3.386	3.427	3.190	2.961	2.872	2.882	120-130	2.545	1211	99.2,99.2
140	4.065	3.928	3.935	4.026	3.761	3.556	3.418	3.471	130-140	2.693	1214	99.5,99.5
150	4.523	4.430	4.408	4.504	4.226	4.055	3.894	3.996	140-150	2.518	1216	99.7,99.7
160	4.900	4.840	4.910	4.877	4.650	4.515	4.452	4.483	150-160	2.067	1218	99.8,99.8
170	5.269	5.251	5.340	5.254	5.139	5.055	5.056	5.030	160-170	1.390	1220	100,100
180	5.648	5.628	5.687	5.635	5.646	5.628	5.685	5.635	170-180	0.5101	1220	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 659.66 lm

%lum = 54.1%

%lamp = 54.1%

Conical surface Flux(120deg): 947.37 lm

%lum = 77.6%

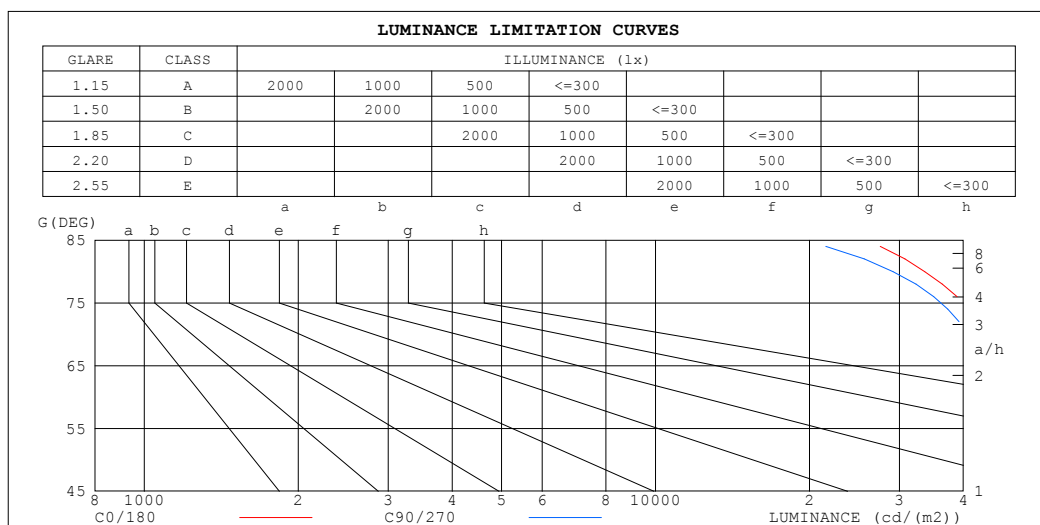
%lamp = 77.6%

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.: 202-00490-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	32979	25841
80	33631	29152
75	43495	39736
70	44016	40904
65	48889	46125
60	48427	46031
55	50887	48776
50	50180	48327
45	51530	49915

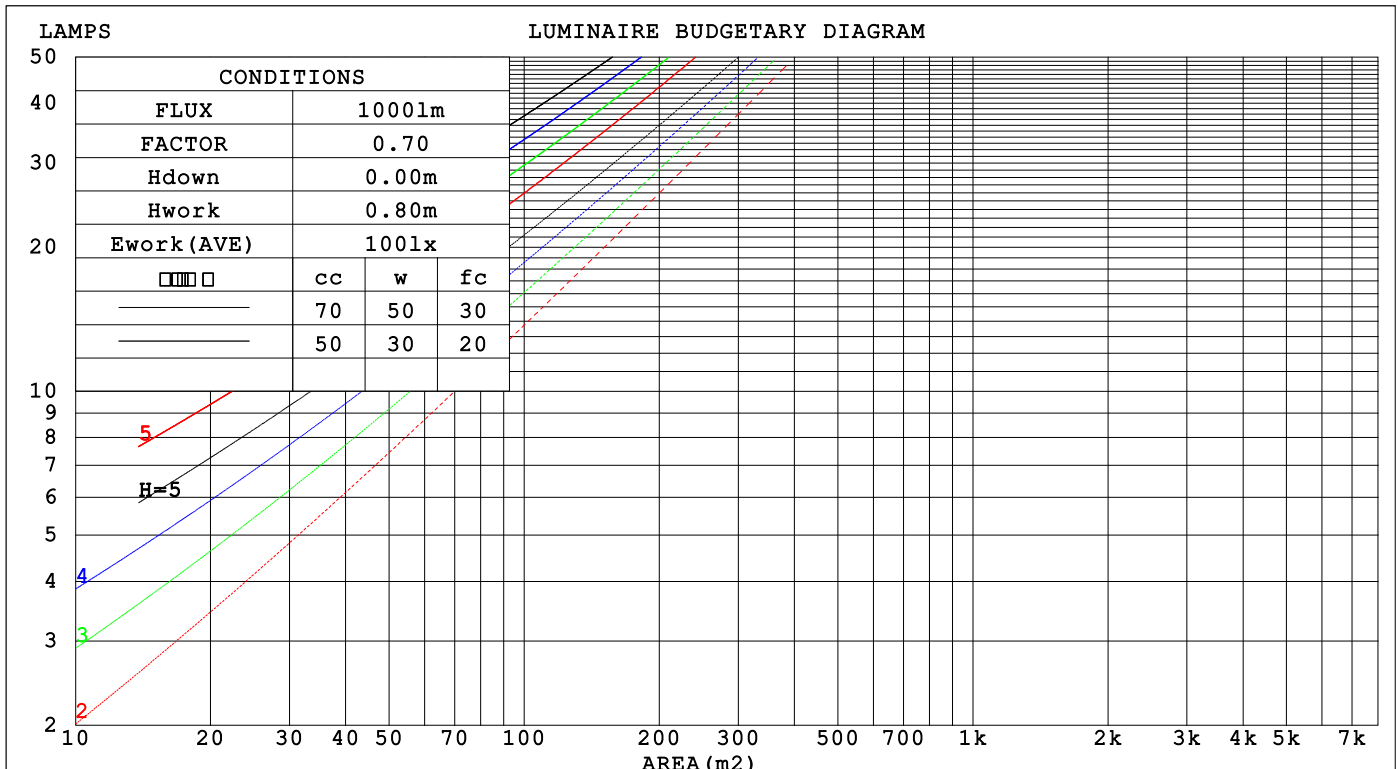
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-03-18

☐ 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.: 202-00490-00	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			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.99
1.0	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.78	.88	.82	.76	.84	.79	.74	.81	.76	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.71	.66	.61	.68	.64	.60	.57
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.44	.39	.49	.43	.39	.37
7.0	.51	.42	.36	.50	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.34	.32
8.0	.46	.38	.32	.45	.37	.32	.44	.37	.31	.43	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



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.: 202-00490-00	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	.056	.301	.172	.054	.287	.165	.053	.274	.158	.051	.262	.152	.049		
2.0	.292	.160	.049	.285	.157												

<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									

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.: 202-00490-00					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	25.7	27.3	26.0	27.5	27.7	25.6	27.1	25.8	27.3	27.5	
	27.3	28.7	27.6	28.9	29.2	27.0	28.4	27.3	28.7	28.9	
	27.9	29.2	28.2	29.5	29.8	27.6	28.9	27.9	29.2	29.5	
	28.2	29.5	28.6	29.8	30.1	27.9	29.1	28.2	29.4	29.7	
	28.3	29.5	28.7	29.9	30.2	27.9	29.2	28.3	29.5	29.8	
	28.4	29.5	28.8	29.9	30.2	28.0	29.1	28.3	29.4	29.8	
4H	2H	26.3	27.7	26.7	27.9	28.2	26.2	27.5	26.5	27.8	28.1
	3H	28.0	29.2	28.4	29.5	29.9	27.8	29.0	28.2	29.3	29.6
	4H	28.8	29.8	29.1	30.2	30.5	28.5	29.5	28.9	29.9	30.2
	6H	29.2	30.2	29.7	30.5	30.9	28.9	29.8	29.3	30.2	30.6
	8H	29.4	30.2	29.8	30.6	31.1	29.0	29.9	29.4	30.3	30.7
	12H	29.4	30.3	29.9	30.7	31.1	29.0	29.8	29.5</		

CIE Pub.117, 1220 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.7)  
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:

### UTILIZATION FACTORS TABLE

NAME: 2835 IP20	TYPE: 2835 160LED 24V	WEIGHT:
SPEC.: 202-00490-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:

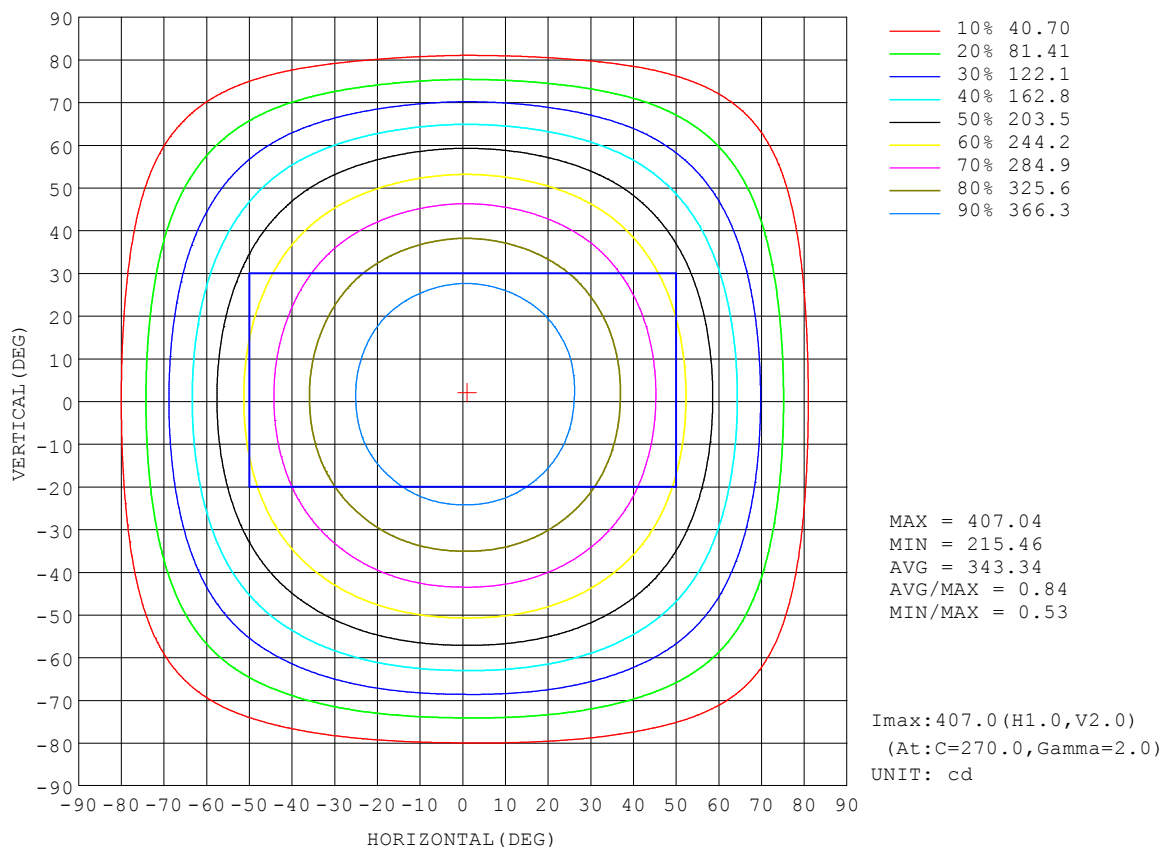
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	47	64	54	47	40
1.00	75	64	57	74	63	56	72	65	56	48
1.25	82	72	65	81	71	64	78	69	63	56
1.50	87	77	70	86	77	70	83	75	69	61
2.00	94	86	79	92	85	78	89	82	77	69
2.50	98	91	84	96	89	84	92	86	81	73
3.00	102	95	89	100	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	98	94	85
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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:

### ISOCANDELA DIAGRAM

NAME: 2835 IP20	TYPE: 2835 160LED 24V	WEIGHT:
SPEC.: 202-00490-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:

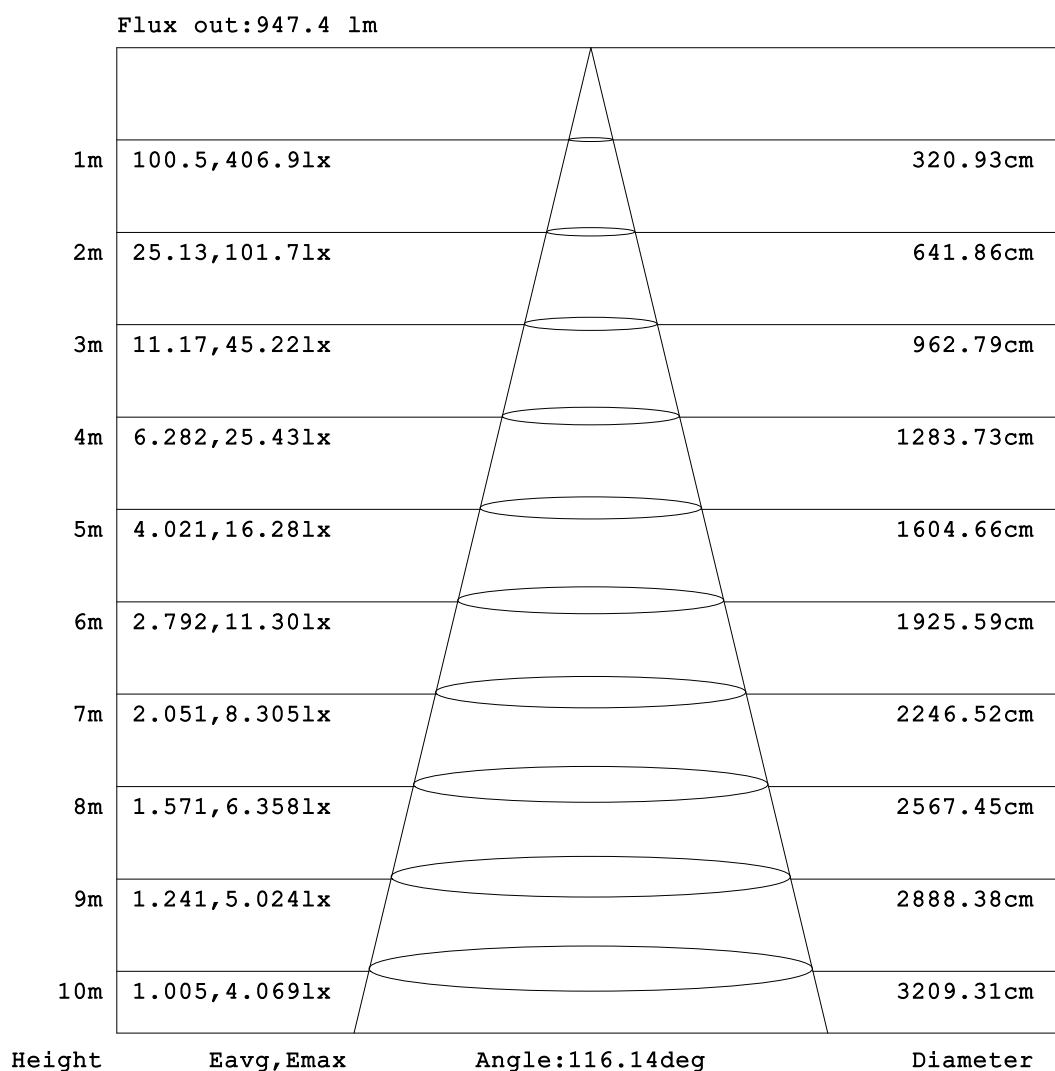


C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2022-03-18

☐ 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.: 202-00490-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:



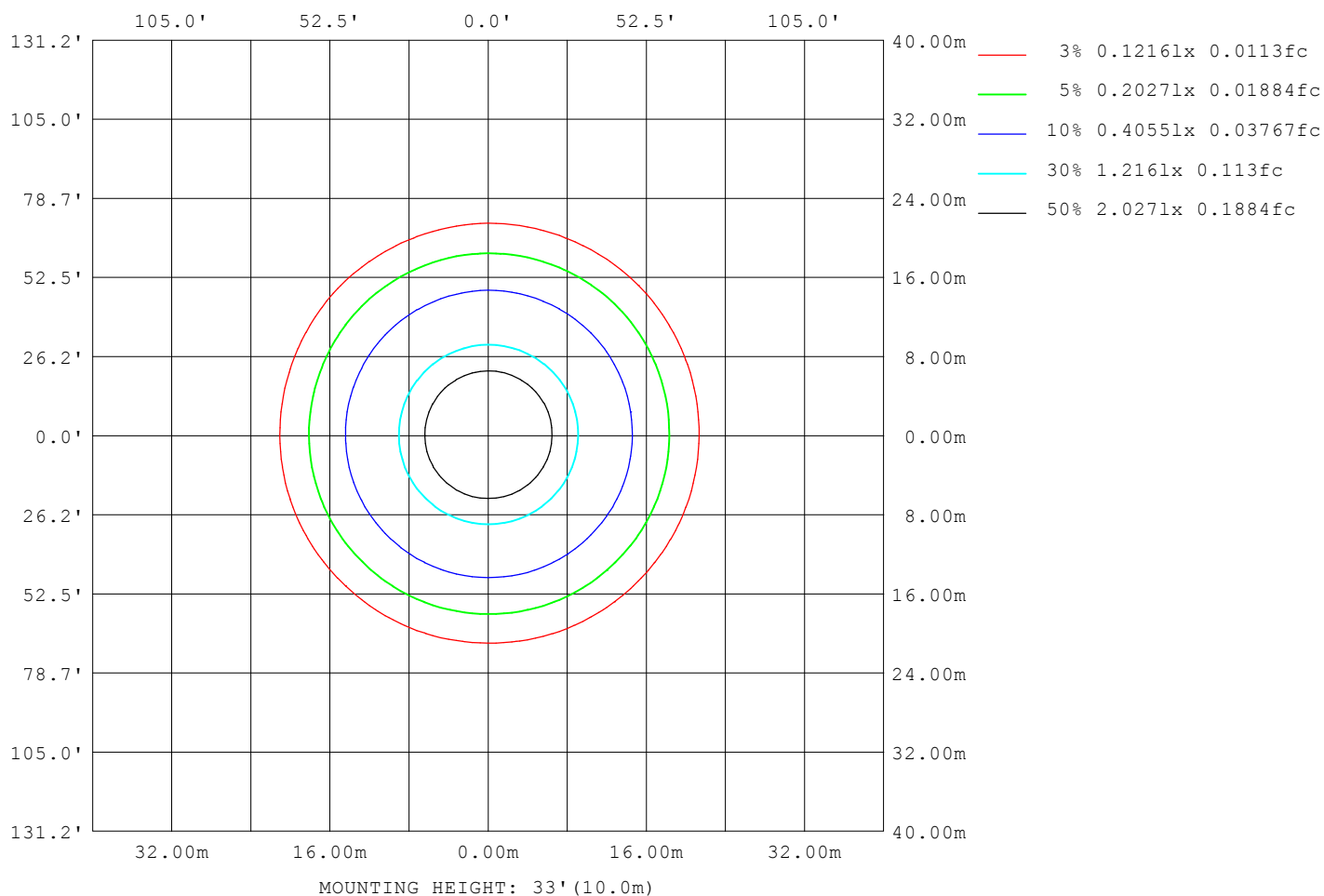
**Note:** The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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.: 202-00490-00	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.: 202-00490-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:

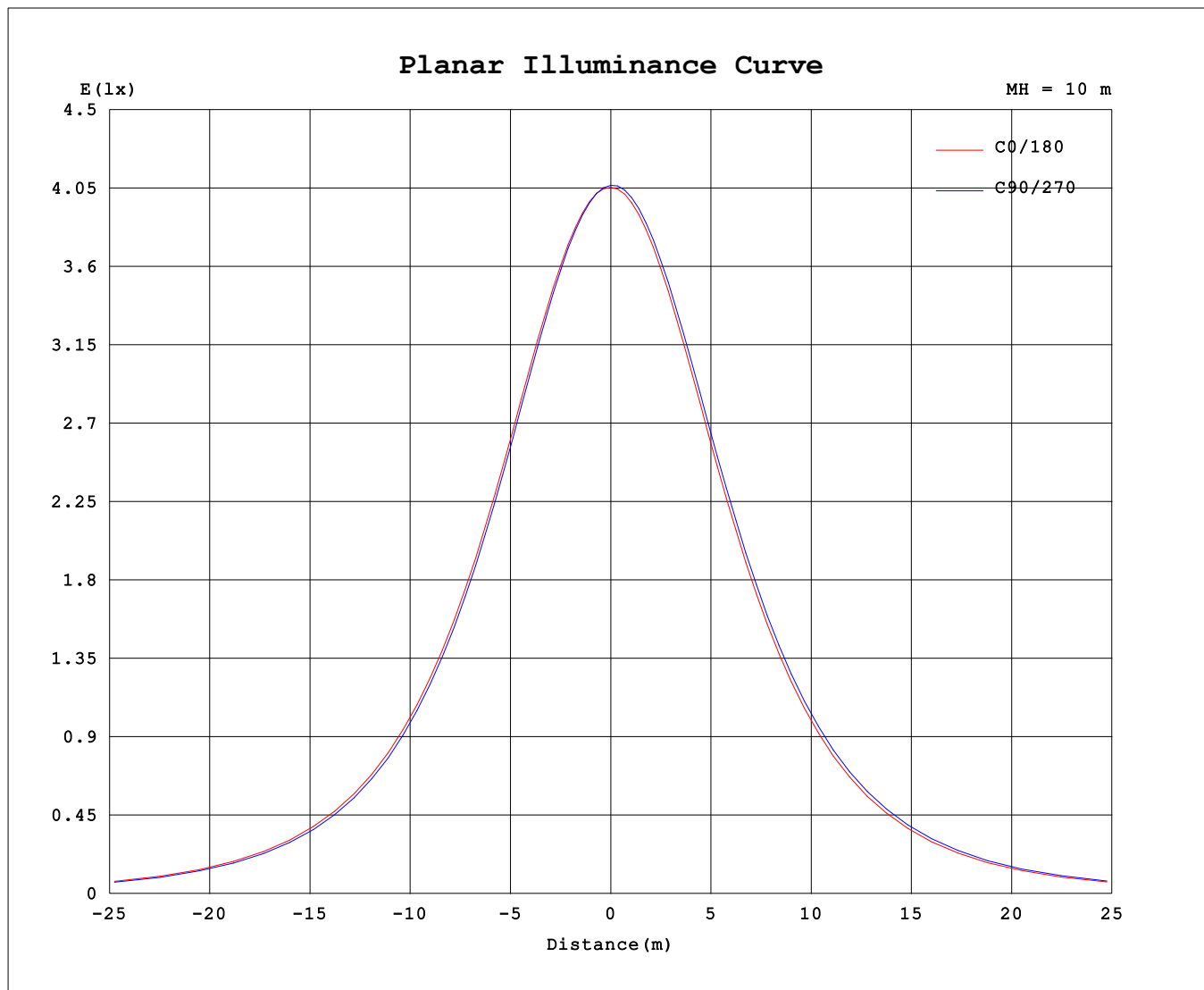
AvgL	cd/m2
L_0~180 (65) av	45774
L_0~180 (75) av	38279
L_0~180 (85) av	20190
L_90~270 (65) av	45919
L_90~270 (75) av	38453
L_90~270 (85) av	21730
L_45 (65) av	45884
L_45 (75) av	38412
L_45 (85) av	22832

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
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 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.: 202-00490-00	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	406	406	406	406	406	406	406	406	406	406	406	406	406	406	406	406			
5	406	405	405	405	405	405	405	405	405	406	406	406	407	407	406	406			
10	401	401	400	399	398	399	399	399	400	401	402	402	403	403	403	402			
15	396	395	393	393	392	392	392	393	394	395	396	397	398	398	398	397			
20	384	382	380	379	378	378	379	380	381	383	385	386	387	387	387	385			
25	373	372	369	368	367	367	367	369	370	372	374	376	377	377	377	375			
30	354	352	349	348	346	346	346	348	350	352	355	357	358	358	358	356			
35	339	337	334	332	330	330	330	332	334	337	340	341	343	343	343	341			
40	312	310	307	305	303	303	303	305	307	310	313	315	317	317	317	315			
45	292	290	286	284	282	282	282	284	287	289	293	295	297	297	297	295			
50	259	256	253	251	248	248	248	250	253	255	259	261	264	264	264	261			
55	234	232	228	226	224	224	224	226	228	230	234	236	239	239	239	237			
60	194	192	188	187	184	184	184	186	187	189	193	195	198	198	199	196			
65	166	164	160	159	156	156	155	157	159	160	164	166	169	169	170	168			
70	121	119	116	115	112	112	111	112	113	115	119	120	123	123	124	122			
75	90.3	89.1	86.1	84.7	82.2	82.1	81.2	82.4	83.1	84.1	87.6	89.1	92.1	92.1	93.2	91.3			
80	46.8	45.8	43.4	42.3	40.5	40.2	39.4	39.8	40.7	41.4	43.7	44.9	47.4	47.6	48.4	47.3			
85	23.0	22.4	20.6	19.5	18.0	17.9	17.7	18.1	14.7	18.8	20.3	20.6	22.2	22.7	24.0	23.3			
90	0.44	1.46	1.24	1.10	0.88	0.88	0.81	0.81	0.44	0.68	0.77	0.85	1.06	1.20	1.44	1.31			
95	0.60	0.62	0.68	0.71	0.72	0.73	0.72	0.67	0.57	0.57	0.60	0.59	0.58	0.58	0.57	0.54			
100	1.02	1.01	1.04	1.06	1.09	1.09	1.09	1.07	0.92	0.88	0.86	0.86	0.85	0.84	0.82	0.85			
105	1.35	1.32	1.36	1.38	1.41	1.41	1.41	1.39	1.21	1.14	1.12	1.10	1.08	1.08	1.07	1.12			
110	1.87	1.82	1.85	1.88	1.91	1.91	1.91	1.88	1.68	1.58	1.55	1.53	1.51	1.50	1.49	1.51			
115	2.22	2.14	2.18	2.20	2.23	2.24	2.24	2.22	2.01	1.89	1.84	1.82	1.80	1.79	1.78	1.80			
120	2.73	2.62	2.65	2.68	2.70	2.71	2.72	2.70	2.48	2.34	2.27	2.25	2.22	2.21	2.21	2.25			
125	3.04	2.94	2.94	2.96	3.00	3.01	3.02	3.02	2.78	2.64	2.55	2.52	2.49	2.49	2.50	2.55			
130	3.47	3.37	3.34	3.36	3.39	3.42	3.43	3.45	3.19	3.07	2.96	2.90	2.87	2.87	2.88	2.98			
135	3.73	3.63	3.59	3.60	3.62	3.68	3.68	3.71	3.43	3.31	3.21	3.14	3.10	3.11	3.13	3.23			
140	4.07	3.99	3.93	3.91	3.94	4.02	4.03	4.06	3.76	3.65	3.56	3.49	3.42	3.43	3.47	3.59			
145	4.27	4.20	4.14	4.10	4.13	4.22	4.24	4.25	3.96	3.85	3.77	3.70	3.61	3.63	3.69	3.81			
150	4.52	4.47	4.43	4.38	4.41	4.52	4.50	4.51	4.23	4.13	4.06	4.01	3.89	3.93	4.00	4.10			
155	4.68	4.65	4.60	4.55	4.61	4.69	4.66	4.66	4.40	4.31	4.24	4.21	4.12	4.13	4.19	4.29			
160	4.90	4.88	4.84	4.79															