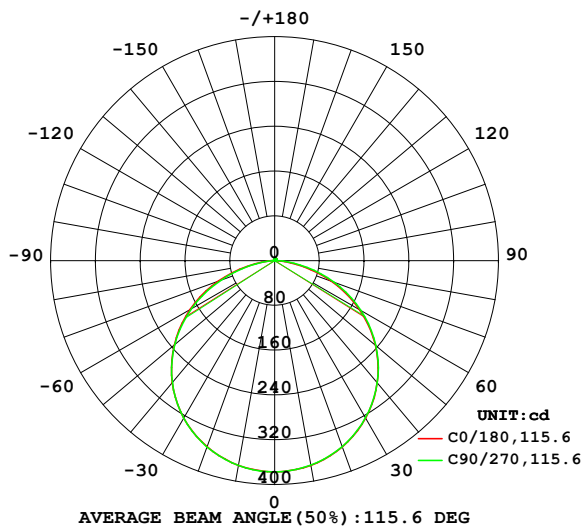


LUMINAIRE PHOTOMETRIC TEST REPORT

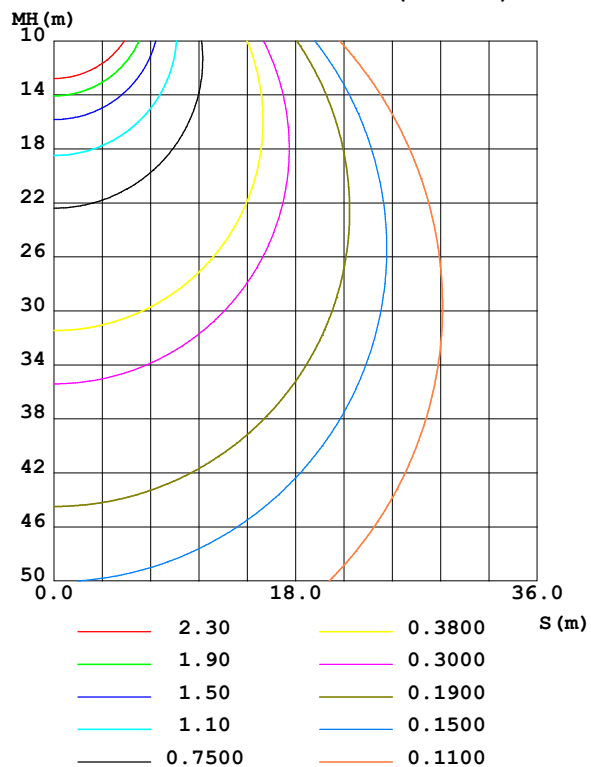
NAME: 2835 IP20	TYPE: 2835 160LED 24V	WEIGHT:
SPEC.: 202-00489-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 159.95 lm/W
MODEL	3000K	I _{max} (cd)	377.2	S/MH (C0/180)	1.28	
NOMINAL POWER(W)	7.2	LOR (%)	100.0	S/MH (C90/270)	1.28	
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1122.0	□ UP, DN (C0-180)	0.7, 50.0	
NOMINAL FLUX(lm)	14.0249	CIE CLASS	DIRECT	□ UP, DN (C180-360)	0.6, 48.7	
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	371.5	371.3	371.0	371.1	371.4	371.6	371.7	371.7	0- 10	35.73	35.73	3.18,3.18
20	354.1	353.8	353.3	353.3	353.7	354.0	354.2	354.4	10- 20	102.8	138.5	12.3,12.3
30	325.2	325.0	324.5	324.3	324.7	324.8	325.0	325.4	20- 30	157.1	295.6	26.3,26.3
40	285.3	285.7	285.1	284.7	284.6	284.3	284.4	285.1	30- 40	191.6	487.2	43.4,43.4
50	235.1	236.3	236.0	235.2	234.2	233.0	232.9	234.0	40- 50	201.2	688.4	61.4,61.4
60	175.3	177.9	178.0	176.7	174.3	172.0	171.4	172.9	50- 60	183.7	872.1	77.7,77.7
70	107.9	112.1	112.9	111.0	106.9	103.2	102.1	104.2	60- 70	140.1	1012	90.2,90.2
80	40.52	45.25	46.68	44.43	36.17	35.31	33.99	36.00	70- 80	77.15	1089	97.1,97.1
90	0.4073	2.178	2.388	1.972	0.3559	0.6870	0.5915	0.7687	80- 90	17.83	1107	98.7,98.7
100	0.9558	0.8939	0.8952	0.9043	0.8142	0.8334	0.8796	0.8273	90-100	0.8154	1108	98.8,98.8
110	1.748	1.634	1.629	1.643	1.509	1.471	1.486	1.457	100-110	1.274	1109	98.9,98.9
120	2.530	2.364	2.368	2.389	2.248	2.130	2.139	2.120	110-120	1.900	1111	99,99
130	3.215	3.023	3.014	3.061	2.904	2.761	2.724	2.730	120-130	2.330	1114	99.2,99.2
140	3.762	3.573	3.547	3.636	3.441	3.305	3.218	3.257	130-140	2.472	1116	99.5,99.5
150	4.189	4.054	4.010	4.104	3.880	3.765	3.643	3.740	140-150	2.318	1118	99.7,99.7
160	4.535	4.451	4.497	4.473	4.285	4.195	4.149	4.186	150-160	1.908	1120	99.8,99.8
170	4.878	4.849	4.925	4.848	4.746	4.688	4.703	4.685	160-170	1.286	1122	100,100
180	5.230	5.213	5.272	5.231	5.225	5.211	5.272	5.233	170-180	0.4724	1122	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 608.46 lm

%lum = 54.2%

%lamp = 54.2%

Conical surface Flux(120deg): 872.12 lm

%lum = 77.7%

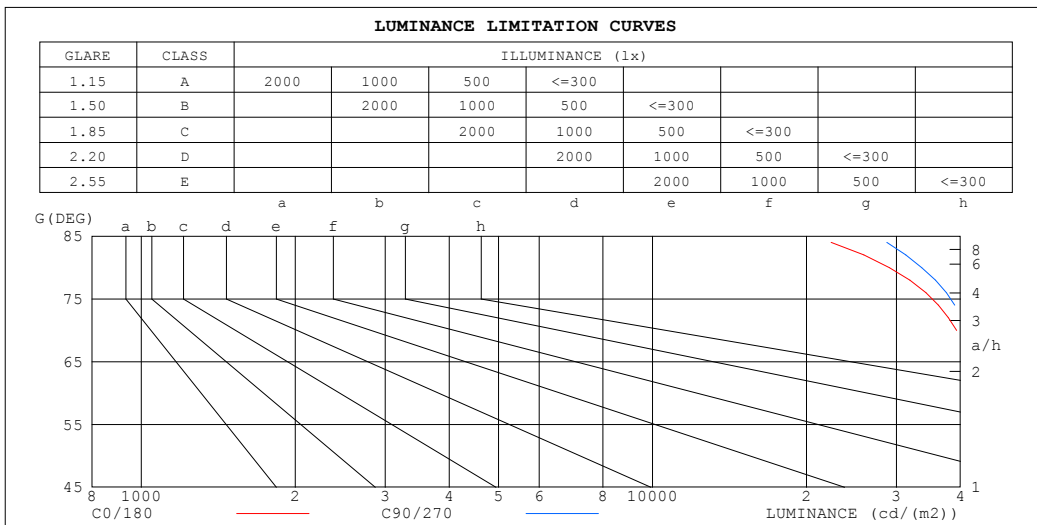
%lamp = 77.7%

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

□ 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.: 202-00489-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	26810	34452
80	29073	33630
75	38586	41536
70	39319	41312
65	43953	45196
60	43687	44548
55	46101	46629
50	45564	45934
45	46946	47168

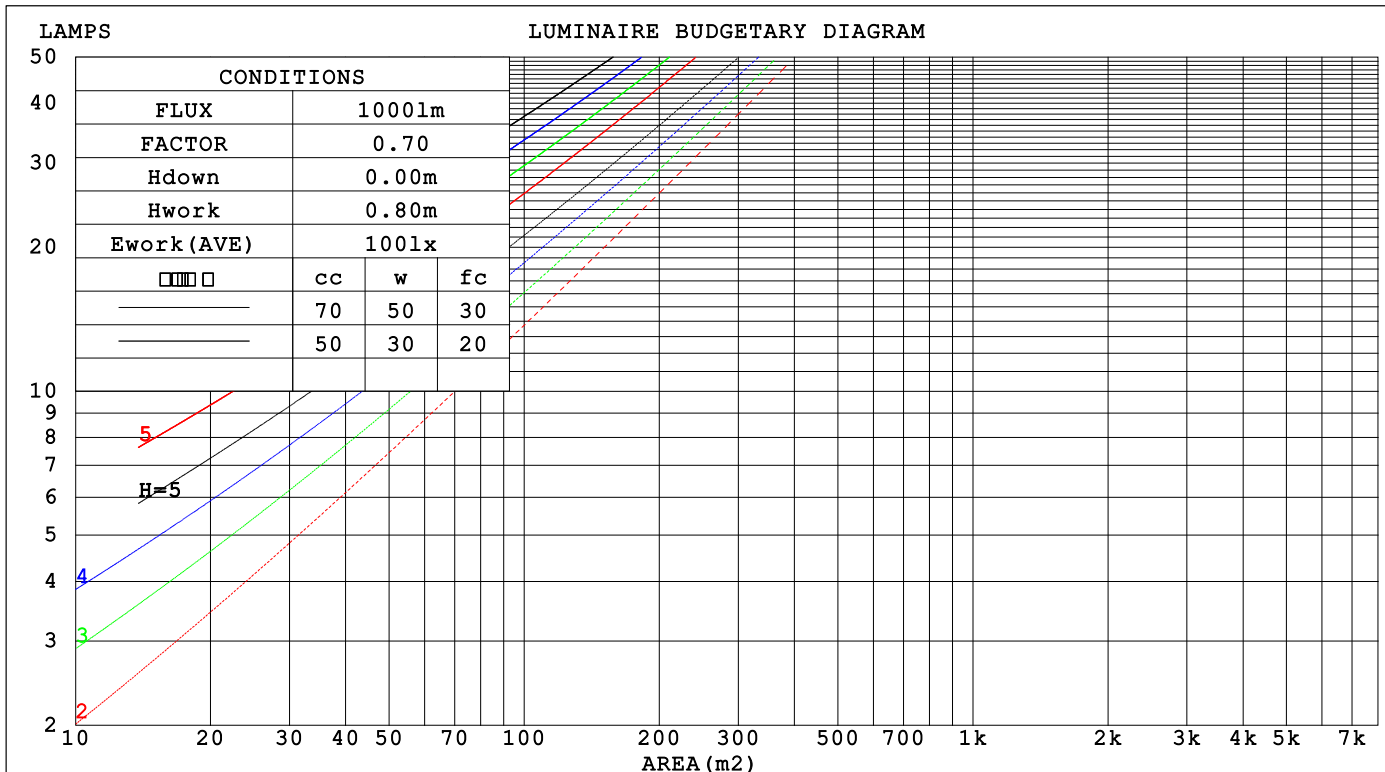
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-03-18

☐ 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.: 202-00489-00	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.: 202-00489-00	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	.262 .152 .049	
2.0	.291 .160 .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 .118 .034	.226 .116 .034	.217 .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 .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	.171 .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 .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	.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	.126 .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.: 202-00489-00					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	25.8	27.3	26.1	27.5	27.8	
	27.3	28.7	27.6	28.9	29.2	27.4	28.8	27.7	29.0	29.3	
	27.8	29.2	28.2	29.4	29.7	28.0	29.3	28.4	29.6	29.9	
	28.2	29.4	28.5	29.7	30.0	28.4	29.7	28.8	30.0	30.3	
	28.3	29.5	28.6	29.8	30.1	28.6	29.8	28.9	30.1	30.4	
	28.3	29.4	28.7	29.8	30.1	28.6	29.8	29.0	30.1	30.4	
4H	2H	26.4	27.7	26.7	28.0	28.3	26.4	27.8	26.8	28.0	28.3
	3H	28.1	29.2	28.5	29.6	29.9	28.2	29.4	28.6	29.7	30.0
	4H	28.8	29.8	29.2	30.2	30.5	28.9	30.0	29.3	30.3	30.7
	6H	29.2	30.2	29.7	30.6	31.0	29.5	30.4	29.9	30.8	31.2
	8H	29.4	30.2	29.8	30.6	31.0	29.7	30.5	30.1	30.9	31.3
	12H	29.4	30.2	29.9	30.6	31.1	29.8	30.6	30.2	31.0	31.4
8H	4H	29.1	29.9	29.5	30.3	30.7	29.2	30.1	29.6	30.5	30.9
	6H	29.7	30.4	30.1	30.8	31.3	29.9	30.6	30.4	31.0	31.5
	8H	29.9	30.5	30.3	30.9	31.4	30.1	30.8	30.6	31.2	31.7
	12H	30.0	30.5	30.5	31.0	31.5	30.3	30.9	30.8	31.3	31.8
12H	4H	29.1	29.9	29.5	30.3	30.7	29.2	30.0	29.7	30.4	30.8
	6H	29.7	30.3	30.2	30.8	31.3	2				

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:

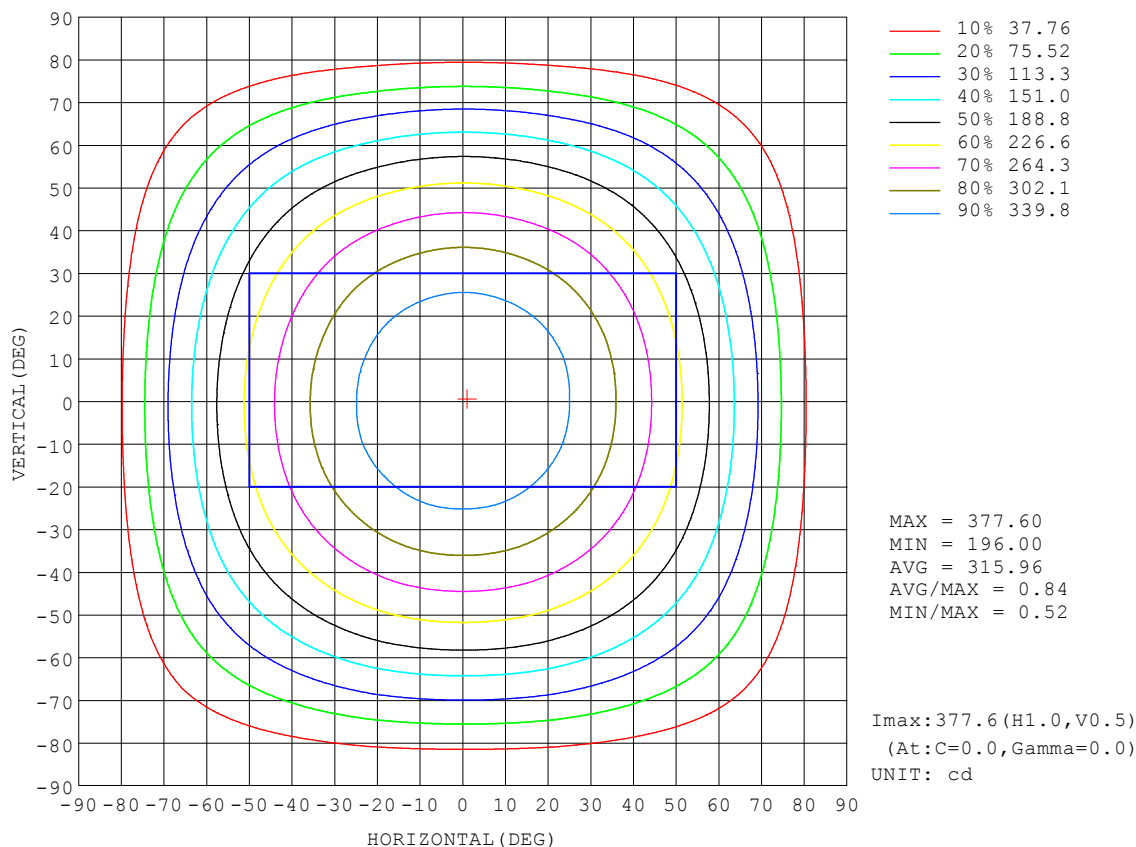
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Range: 0 - 180DEG
Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.450
Humidity:65.0%
Test Distance:5.749m [K=1.0000]
Remarks:

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ISOCANDELA DIAGRAM

NAME: 2835 IP20	TYPE: 2835 160LED 24V	WEIGHT:
SPEC.: 202-00489-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:

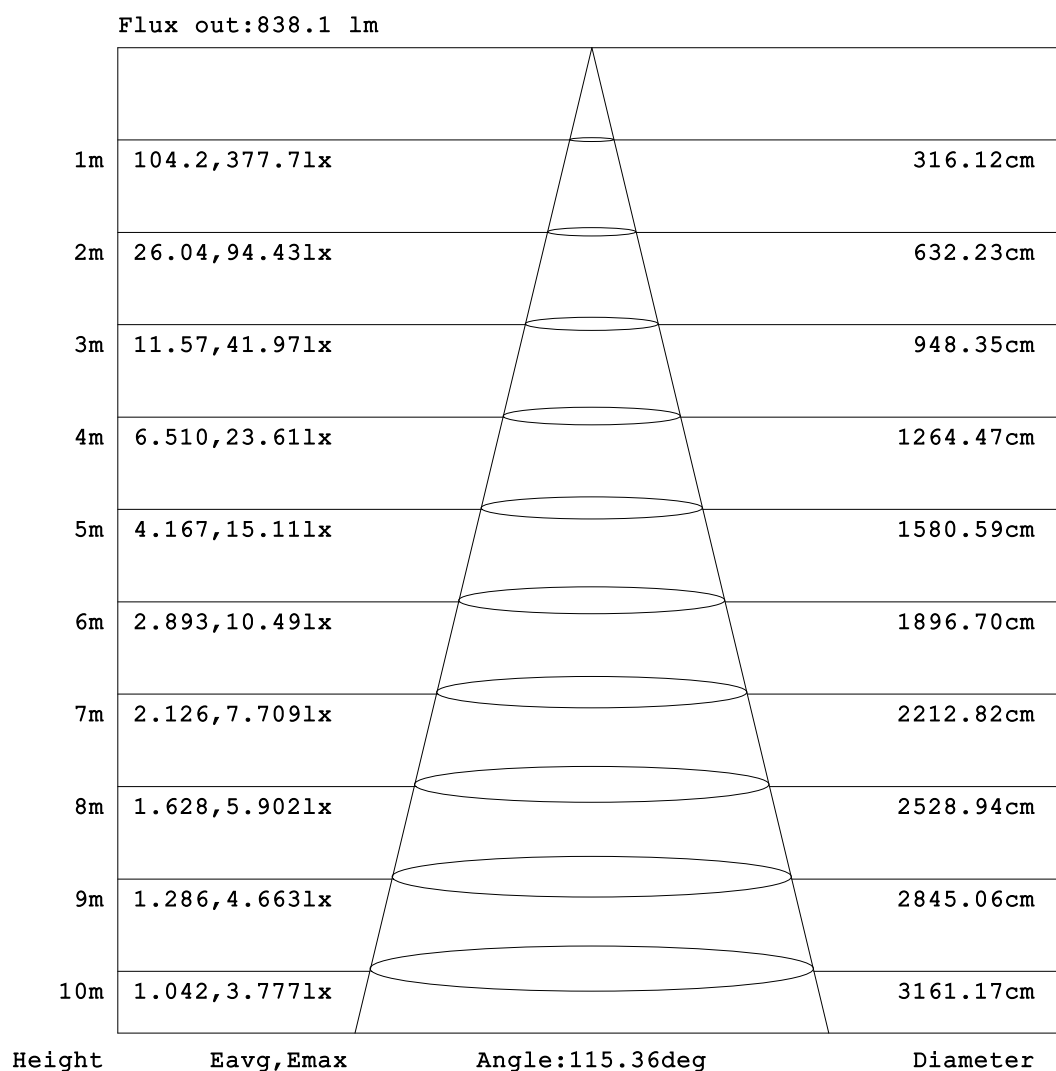


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-03-18

☐ 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.: 202-00489-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:



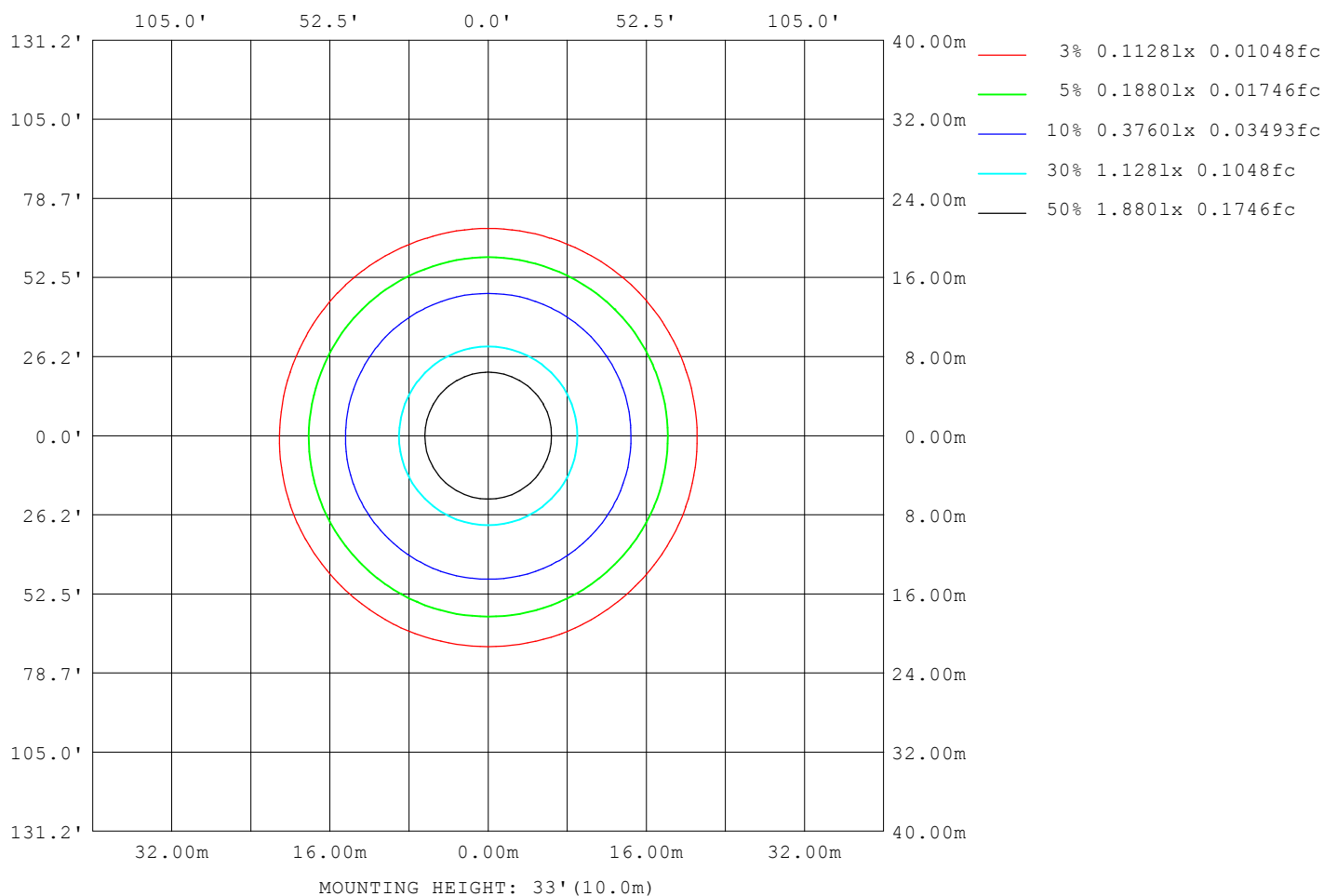
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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.: 202-00489-00	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.: 202-00489-00	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*0.5	Shielding Angle:

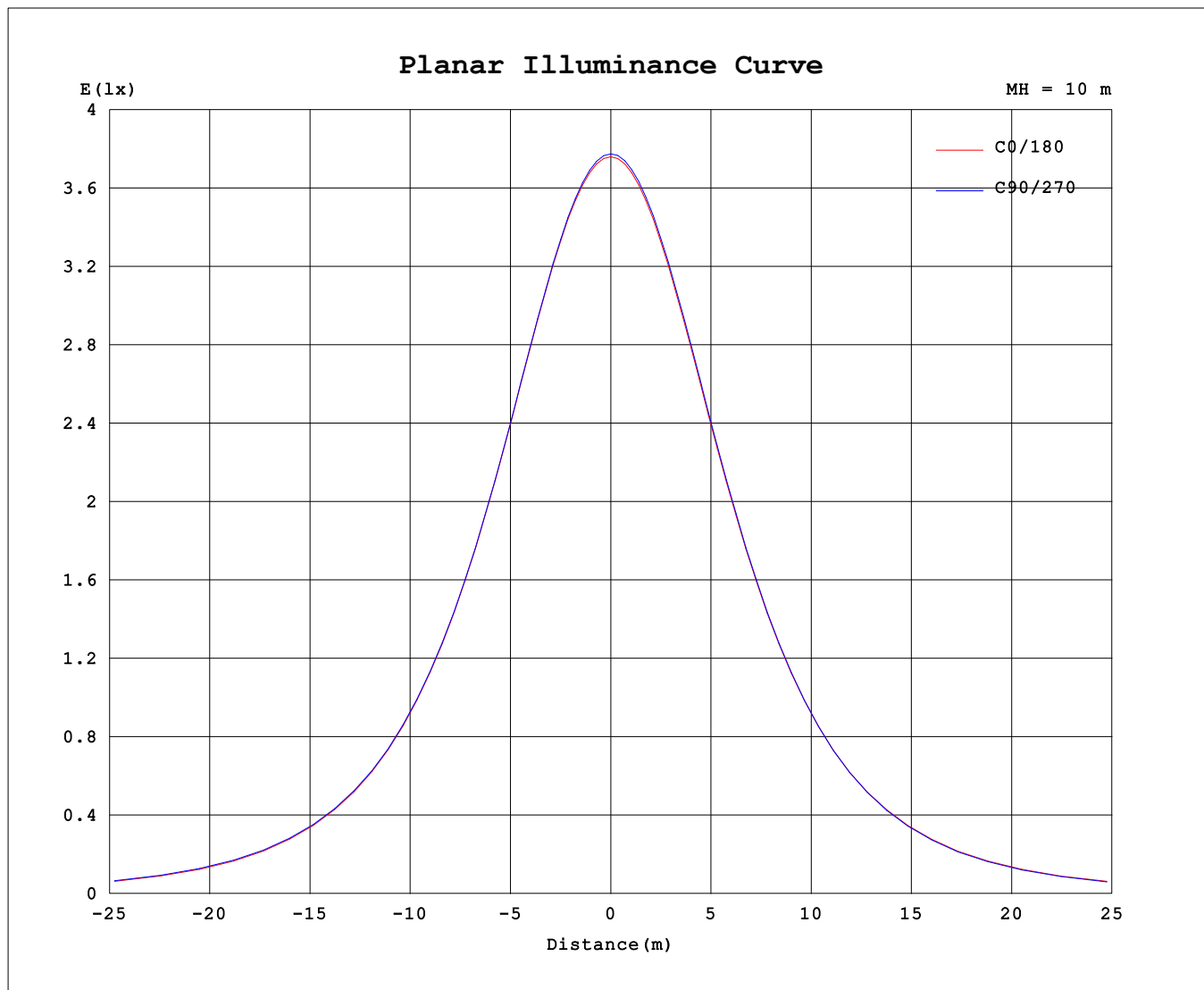
AvgL	cd/m2
L_0~180 (65) av	41968
L_0~180 (75) av	35145
L_0~180 (85) av	17824
L_90~270 (65) av	41928
L_90~270 (75) av	35234
L_90~270 (85) av	20478
L_45 (65) av	41972
L_45 (75) av	35247
L_45 (85) av	20466

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.: 202-00489-00	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	377	377	377	377	377	377	377	377	377	377	377	377	377	377	377	377			
5	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376			
10	371	371	371	371	371	371	371	371	371	371	372	372	372	372	372	372			
15	366	366	366	366	365	365	365	366	366	366	366	366	366	366	366	366			
20	354	354	354	354	353	354	353	354	354	354	354	354	354	354	354	354			
25	344	344	344	344	343	343	343	343	343	343	344	344	344	344	344	344			
30	325	325	325	325	324	325	324	325	325	324	325	325	325	325	325	325			
35	311	311	311	311	310	310	310	310	310	309	310	310	310	310	311	310			
40	285	286	286	286	285	285	285	285	285	284	284	284	284	284	285	285			
45	266	267	267	267	267	267	266	266	266	264	265	264	265	265	266	266			
50	235	236	236	237	236	236	235	235	234	233	233	232	233	233	234	234			
55	212	214	214	215	214	214	213	212	211	209	210	209	209	209	211	211			
60	175	177	178	179	178	178	177	176	174	172	172	171	171	171	173	174			
65	149	152	152	154	153	153	151	150	148	145	145	144	144	144	146	147			
70	108	111	112	114	113	113	111	110	107	104	103	101	102	102	104	105			
75	80.2	83.5	84.8	86.6	85.9	86.1	83.8	82.1	79.2	76.1	74.9	73.2	73.6	73.6	75.8	77.1			
80	40.5	43.7	45.2	47.1	46.7	46.6	44.4	42.6	36.2	36.4	35.3	33.5	34.0	33.9	36.0	37.5			
85	18.8	21.3	22.6	24.3	24.0	23.9	22.1	20.4	14.1	15.5	14.7	13.2	13.3	13.4	15.1	16.3			
90	0.41	1.78	2.18	2.59	2.39	2.45	1.97	1.51	0.36	0.74	0.69	0.59	0.59	0.64	0.77	0.83			
95	0.57	0.56	0.64	0.65	0.64	0.65	0.65	0.56	0.50	0.52	0.61	0.64	0.63	0.65	0.62	0.52			
100	0.96	0.90	0.89	0.88	0.90	0.89	0.90	0.91	0.81	0.81	0.83	0.86	0.88	0.86	0.83	0.80			
105	1.26	1.18	1.18	1.17	1.17	1.17	1.19	1.20	1.07	1.06	1.08	1.09	1.09	1.09	1.06	1.04			
110	1.75	1.64	1.63	1.62	1.63	1.63	1.64	1.65	1.51	1.46	1.47	1.48	1.49	1.48	1.46	1.44			
115	2.07	1.94	1.93	1.92	1.93	1.93	1.94	1.96	1.81	1.74	1.74	1.75	1.75	1.74	1.73	1.71			
120	2.53	2.37	2.36	2.36	2.37	2.37	2.39	2.41	2.25	2.16	2.13	2.14	2.14	2.13	2.12	2.13			
125	2.82	2.67	2.64	2.63	2.64	2.65	2.67	2.69	2.52	2.44	2.39	2.38	2.38	2.38	2.37	2.40			
130	3.22	3.06	3.02	3.01	3.01	3.05	3.06	3.11	2.90	2.83	2.76	2.73	2.72	2.73	2.73	2.79			
135	3.45	3.30	3.25	3.23	3.24	3.28	3.30	3.35	3.13	3.06	2.99	2.95	2.93	2.95	2.95	3.03			
140	3.76	3.63	3.57	3.54	3.55	3.62	3.64	3.68	3.44	3.37	3.31	3.26	3.22	3.23	3.26	3.35			
145	3.95	3.83	3.78	3.72	3.74	3.82	3.84	3.87	3.62	3.56	3.50	3.46	3.39	3.41	3.46	3.55			
150	4.19	4.11	4.05	3.99	4.01	4.11	4.10	4.12	3.88	3.81	3.76	3.74	3.64	3.69	3.74	3.82			
155	4.33	4.27	4.22	4.16	4.21	4.28	4.26	4.28	4.04	3.98	3.94	3.92	3.84	3.86	3.92	3.99			
160	4.53	4.49	4.45	4.40	4.50	4.50	4.47	4.49	4.29	4.24	4.20	4.19	4.15	4.13	4.19	4.26			
165	4.67	4.65	4.61	4.56	4.69	4.65	4.62	4.64	4.46	4.42	4.38	4.37	4.37	4.32	4.37				