

LUMINAIRE PHOTOMETRIC TEST REPORT

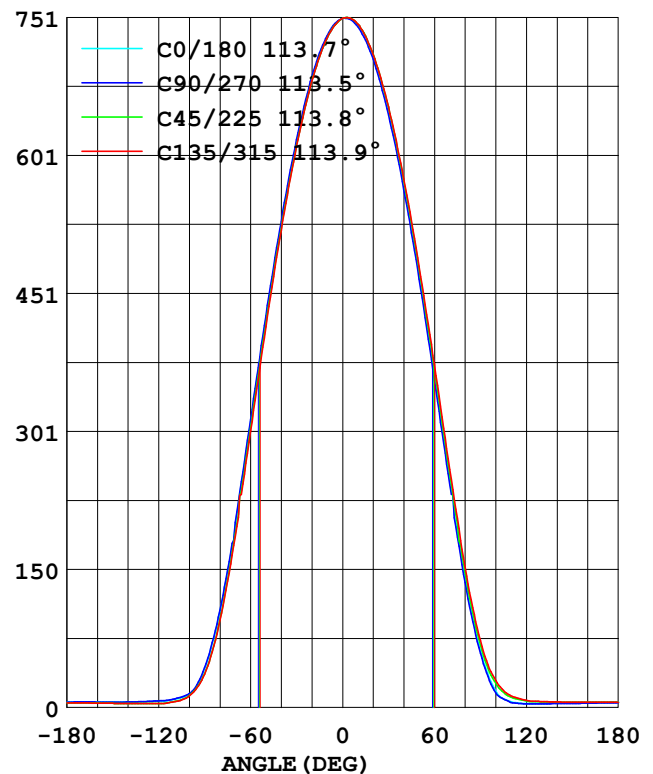
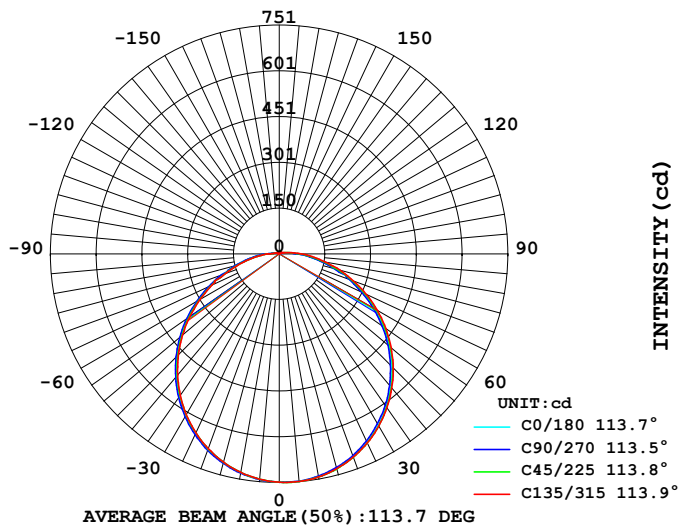
Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Ida	TYPE: IL-CL18-N0163C-110	WEIGHT:
SPECIFICATION: 2835LES-4000K-110D	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	751.3	S/MH (C0/180)	1.22
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.23
NOMINAL POWER(W)	18	TOTAL FLUX(lm)	2307.4	Voltage(V)	231.3
RATED VOLTAGE (V)	232	EFFICIENCY (lm/W)	135.3	Current(A)	0.092
NOMINAL FLUX(lm)	2307.4	η up (%)	3.1	Power(W)	17.05
LAMPS QUANTITY	1	η down (%)	96.9	Power Factor (PF)	0.793
TEST VOLTAGE (V)	231.4	Effective Flux(lm)	0.0	EEI	0.000

LUMINOUS INTENSITY DISTRIBUTION

LUMINOUS INTENSITY DISTRIBUTION



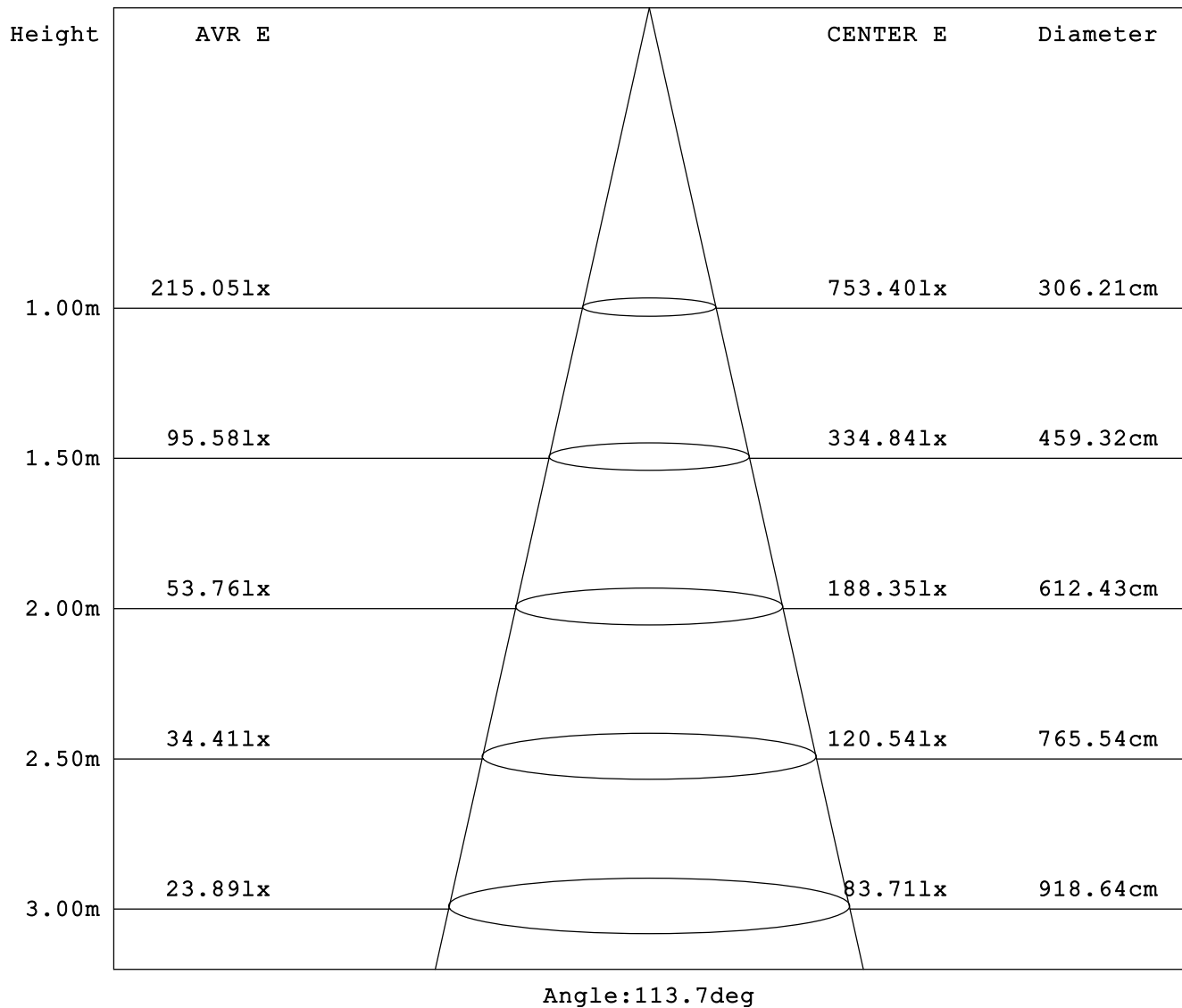
Test System:
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2025-07-30

Test Set: 5.0 deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 10.000 m
 Remarks:

AVERAGE AND CENTER E Figure

Report number:

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ZONAL FLUX DIAGRAM

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SPECIFICATION: 2835LES-4000K-110D	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	742.8	742.7	744.4	742.9	750.3	750.4	749.1	750.3	0- 5	17.89	17.89
10.0	728.8	728.6	731.3	728.4	743.6	743.7	741.0	744.0	5- 10	53.04	70.94
15.0	708.9	708.4	712.5	708.1	729.8	731.2	726.4	730.8	10- 15	86.36	157.3
20.0	682.8	682.2	686.7	681.7	709.7	711.2	705.7	710.8	15- 20	116.6	273.9
25.0	650.4	648.9	654.5	648.4	683.4	684.2	678.4	685.1	20- 25	142.9	416.9
30.0	613.9	612.0	618.1	610.7	650.5	653.4	644.9	653.8	25- 30	164.3	581.3
35.0	571.1	568.7	575.9	567.3	613.4	615.5	607.3	617.3	30- 35	180.2	761.5
40.0	525.3	521.7	529.3	519.2	570.3	573.5	564.2	575.4	35- 40	190.1	951.6
45.0	475.8	472.0	480.2	468.7	522.7	527.6	516.6	530.5	40- 45	193.8	1145
50.0	423.1	418.1	426.2	414.3	472.4	477.1	466.5	480.4	45- 50	191.1	1337
55.0	367.1	361.4	370.0	357.3	418.0	423.0	412.6	427.4	50- 55	182.5	1519
60.0	311.2	305.0	313.7	301.1	360.9	368.0	356.0	373.3	55- 60	168.2	1687
65.0	254.2	247.4	256.4	243.5	304.5	310.6	299.8	316.1	60- 65	149.3	1837
70.0	199.5	188.9	201.6	186.0	247.0	253.5	242.7	259.1	65- 70	127.0	1964
75.0	148.0	139.2	149.7	137.4	188.9	200.0	185.4	205.9	70- 75	102.0	2066
80.0	104.6	95.87	105.7	94.76	138.9	147.0	136.1	152.9	75- 80	77.42	2143
85.0	69.79	61.08	70.96	60.43	96.37	102.9	93.58	108.5	80- 85	55.31	2199
90.0	42.21	36.58	43.53	36.23	61.62	68.27	58.95	73.08	85- 90	36.73	2235
95.0	23.19	22.09	24.62	21.48	36.23	42.48	33.53	46.27	90- 95	22.56	2258
100.0	14.63	13.09	15.11	12.44	18.02	26.19	15.91	29.41	95-100	13.08	2271
105.0	10.85	8.497	11.41	8.131	9.557	16.39	9.208	18.67	100-105	7.740	2279
110.0	8.761	6.498	9.308	6.324	6.570	11.29	5.404	12.64	105-110	5.135	2284
115.0	7.168	4.898	7.807	4.818	4.878	8.897	4.403	9.938	110-115	3.746	2288
120.0	6.869	4.498	7.306	4.316	4.281	7.097	4.003	7.729	115-120	2.972	2291
125.0	6.471	4.498	6.806	4.316	4.281	6.398	4.003	6.826	120-125	2.572	2293
130.0	6.272	4.498	6.405	4.316	4.380	6.198	4.103	6.525	125-130	2.341	2296
135.0	6.073	4.498	6.205	4.316	4.480	6.098	4.103	6.223	130-135	2.141	2298
140.0	5.973	4.398	6.005	4.316	4.679	5.898	4.203	6.023	135-140	1.934	2300
145.0	5.873	4.398	5.905	4.416	4.778	5.798	4.303	5.922	140-145	1.729	2301
150.0	5.973	4.598	5.905	4.617	4.878	5.698	4.403	5.721	145-150	1.529	2303
155.0	5.973	4.798	5.905	4.818	5.077	5.798	4.504	5.822	150-155	1.336	2304
160.0	5.973	4.898	5.905	4.718	5.177	5.798	4.704	5.822	155-160	1.123	2305
165.0	5.973	4.998	6.005	4.918	5.376	5.798	4.804	5.822	160-165	0.896	2306
170.0	6.073	5.098	6.005	5.019	5.575	5.798	5.004	5.822	165-170	0.653	2307
175.0	5.973	5.098	6.005	5.119	5.674	5.898	5.104	5.922	170-175	0.397	2307
180.0	5.873	5.198	5.805	5.220	5.973	5.798	5.304	5.822	175-180	0.134	2307
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:
Temperature:25.3DEG
Operators:
Test Date:2025-07-30

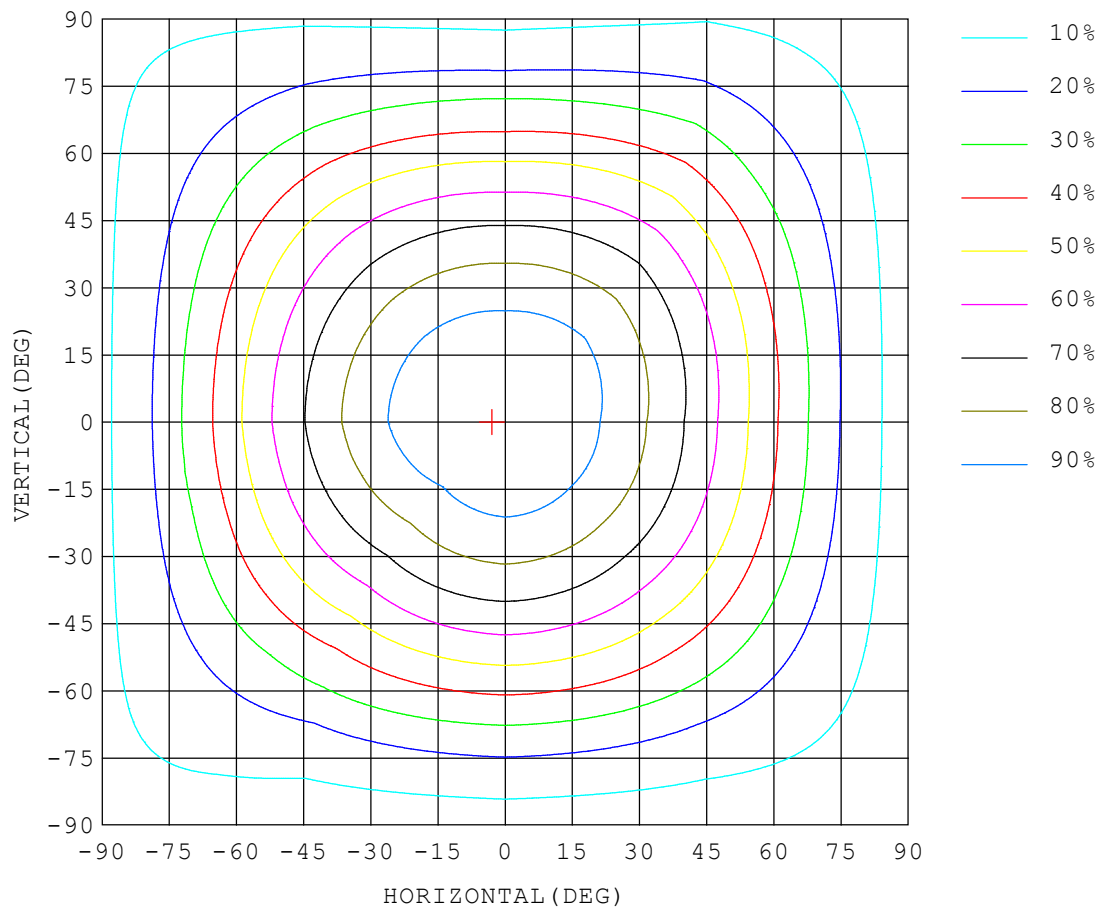
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Ida	TYPE: IL-CL18-N0163C-110	WEIGHT:
SPECIFICATION: 2835LES-4000K-110D	DIMENSION:	SERIAL No.:

UNIT: cd



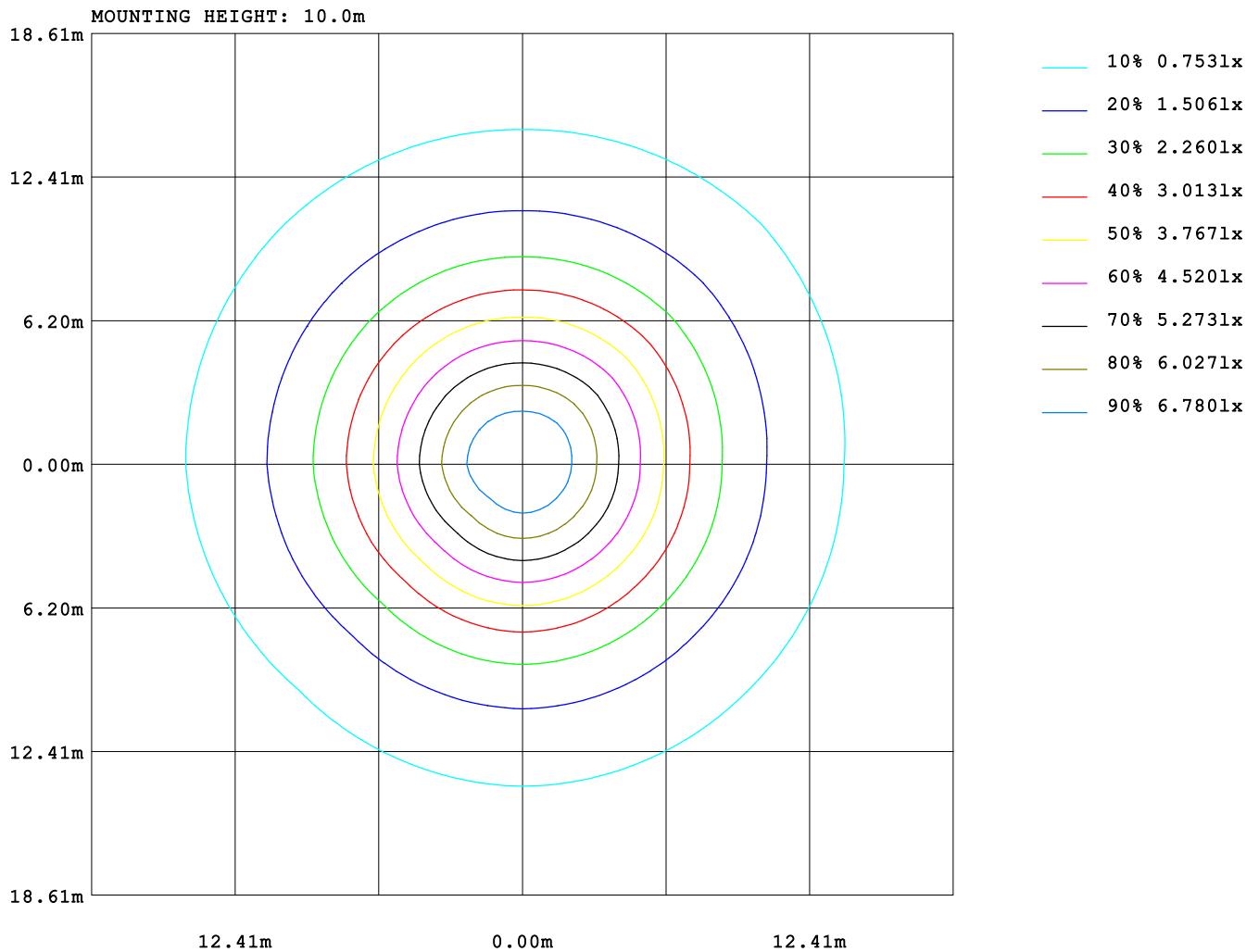
Test System:
Temperature: 25.3 DEG
Operators:
Test Date: 2025-07-30

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Humidity: 65.0%
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ISOLUX DIAGRAM

Report number:

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NAME: Ida	TYPE: IL-CL18-N0163C-110	WEIGHT:
SPECIFICATION: 2835LES-4000K-110D	DIMENSION:	SERIAL No.:



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Operators:
Test Date: 2025-07-30

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Remarks:

Uncorrected UGR Table

Report number:

MANUFACTURER: ILUMEN GMBH	Address:			
NAME: Ida	TYPE: IL-CL18-N0163C-110			WEIGHT:
SPECIFICATION: 2835LES-4000K-110D	DIMENSION:			SERIAL No.:

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	21.2	22.7	21.5	23.0	23.3	21.2	22.7	21.5	23.0	23.3
3H	22.8	24.2	23.1	24.4	24.8	22.8	24.2	23.1	24.5	24.8
4H	23.4	24.8	23.8	25.1	25.4	23.5	24.8	23.8	25.1	25.4
6H	24.0	25.3	24.4	25.6	26.0	24.1	25.3	24.4	25.6	26.0
8H	24.3	25.5	24.7	25.9	26.2	24.3	25.6	24.7	25.9	26.3
12H	24.6	25.8	25.0	26.1	26.5	24.6	25.8	25.0	26.2	26.5
4H 2H	21.8	23.1	22.2	23.4	23.8	21.8	23.1	22.2	23.4	23.8
3H	23.5	24.7	23.9	25.0	25.4	23.5	24.7	23.9	25.0	25.4
4H	24.3	25.4	24.7	25.8	26.2	24.3	25.4	24.8	25.8	26.2
6H	25.1	26.0	25.5	26.4	26.9	25.1	26.1	25.6	26.5	26.9
8H	25.5	26.3	25.9	26.8	27.2	25.5	26.4	25.9	26.8	27.2
12H	25.8	26.7	26.3	27.1	27.6	25.9	26.7	26.3	27.1	27.6
8H 4H	24.6	25.5	25.1	25.9	26.4	24.6	25.5	25.1	25.9	26.4
6H	25.6	26.3	26.0	26.8	27.3	25.6	26.3	26.1	26.8	27.3
8H	26.1	26.7	26.6	27.2	27.7	26.1	26.7	26.6	27.2	27.7
12H	26.6	27.2	27.1	27.7	28.2	26.6	27.2	27.1	27.7	28.2
12H 4H	24.6	25.4	25.1	25.9	26.4	24.6	25.5	25.1	25.9	26.4
6H	25.6	26.3	26.2	26.8	27.3	25.7	26.3	26.2	26.8	27.3
8H	26.2	26.8	26.7	27.3	27.8	26.2	26.8	26.8	27.3	27.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.1 / - 0.3					+ 0.1 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.2				

CIE Pub.117 Corrected 2307 lm Total Lamp Luminous Flux. (8log(F/F0) = 2.9)

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Operators:
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LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Ida	TYPE: IL-CL18-N0163C-110	WEIGHT:
SPECIFICATION: 2835LES-4000K-110D	DIMENSION:	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315
0.0	750	750	750	750	750	750	750	750
5.0	743	743	744	743	750	750	749	750
10.0	729	729	731	728	744	744	741	744
15.0	709	708	713	708	730	731	726	731
20.0	683	682	687	682	710	711	706	711
25.0	650	649	655	648	683	684	678	685
30.0	614	612	618	611	651	653	645	654
35.0	571	569	576	567	613	616	607	617
40.0	525	522	529	519	570	574	564	575
45.0	476	472	480	469	523	528	517	531
50.0	423	418	426	414	472	477	467	480
55.0	367	361	370	357	418	423	413	427
60.0	311	305	314	301	361	368	356	373
65.0	254	247	256	244	305	311	300	316
70.0	200	189	202	186	247	254	243	259
75.0	148	139	150	137	189	200	185	206
80.0	105	95.8	106	94.7	139	147	136	153
85.0	69.7	61.0	70.9	60.4	96.3	103	93.5	109
90.0	42.2	36.5	43.5	36.2	61.6	68.2	58.9	73.0
95.0	23.1	22.0	24.6	21.4	36.2	42.4	33.5	46.2
100.0	14.6	13.0	15.1	12.4	18.0	26.1	15.9	29.4
105.0	10.8	8.49	11.4	8.13	9.55	16.3	9.20	18.6
110.0	8.76	6.49	9.30	6.32	6.57	11.2	5.40	12.6
115.0	7.16	4.89	7.80	4.81	4.87	8.89	4.40	9.93
120.0	6.86	4.49	7.30	4.31	4.28	7.09	4.00	7.72
125.0	6.47	4.49	6.80	4.31	4.28	6.39	4.00	6.82
130.0	6.27	4.49	6.40	4.31	4.38	6.19	4.10	6.52
135.0	6.07	4.49	6.20	4.31	4.48	6.09	4.10	6.22
140.0	5.97	4.39	6.00	4.31	4.67	5.89	4.20	6.02
145.0	5.87	4.39	5.90	4.41	4.77	5.79	4.30	5.92
150.0	5.97	4.59	5.90	4.61	4.87	5.69	4.40	5.72
155.0	5.97	4.79	5.90	4.81	5.07	5.79	4.50	5.82
160.0	5.97	4.89	5.90	4.71	5.17	5.79	4.70	5.82
165.0	5.97	4.99	6.00	4.91	5.37	5.79	4.80	5.82
170.0	6.07	5.09	6.00	5.01	5.57	5.79	5.00	5.82
175.0	5.97	5.09	6.00	5.11	5.67	5.89	5.10	5.92
180.0	5.87	5.19	5.80	5.22	5.97	5.79	5.30	5.82

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