

LUMINAIRE PHOTOMETRIC TEST REPORT

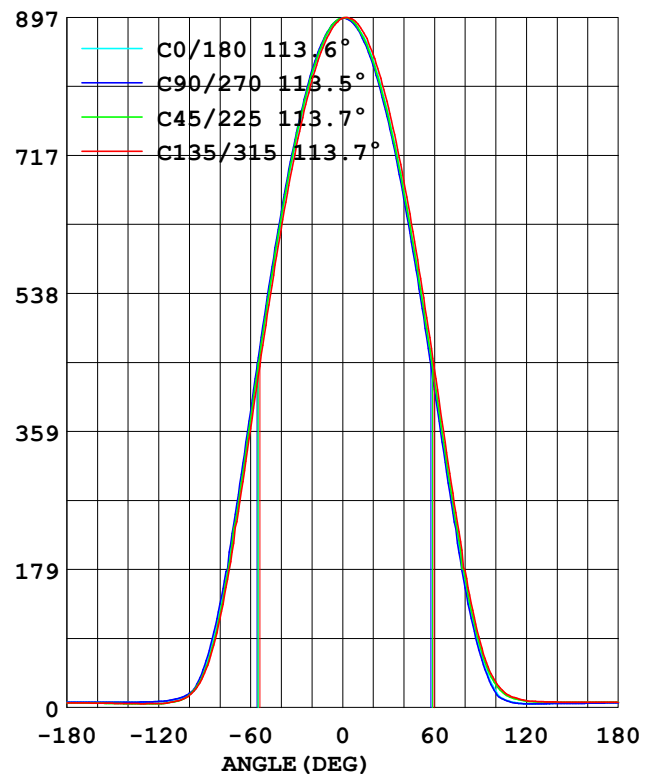
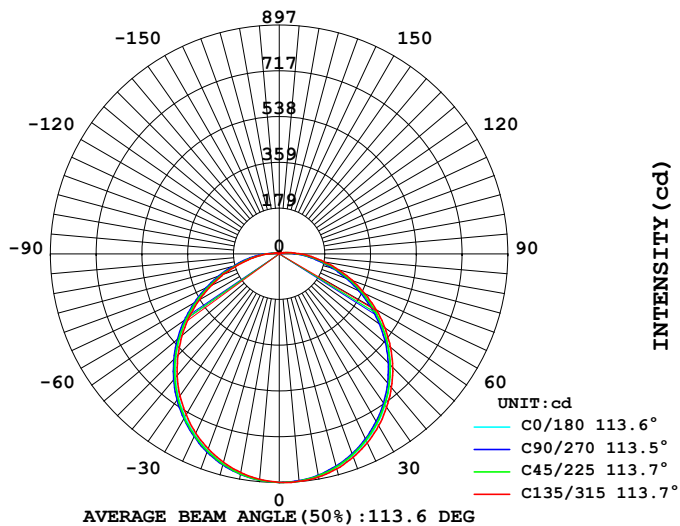
Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Ida	TYPE: IL-CL18-N0203C-110	WEIGHT:
SPECIFICATION: 2835LED-3000K-110D	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	896.5	S/MH (C0/180)	1.23
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.24
NOMINAL POWER(W)	20	TOTAL FLUX(lm)	2748.4	Voltage(V)	231.1
RATED VOLTAGE (V)	232	EFFICIENCY (lm/W)	133.5	Current(A)	0.110
NOMINAL FLUX(lm)	2748.4	η up (%)	3.1	Power(W)	20.58
LAMPS QUANTITY	1	η down (%)	96.9	Power Factor (PF)	0.807
TEST VOLTAGE (V)	231.2	Effective Flux(lm)	0.0	EEI	0.000

LUMINOUS INTENSITY DISTRIBUTION

LUMINOUS INTENSITY DISTRIBUTION



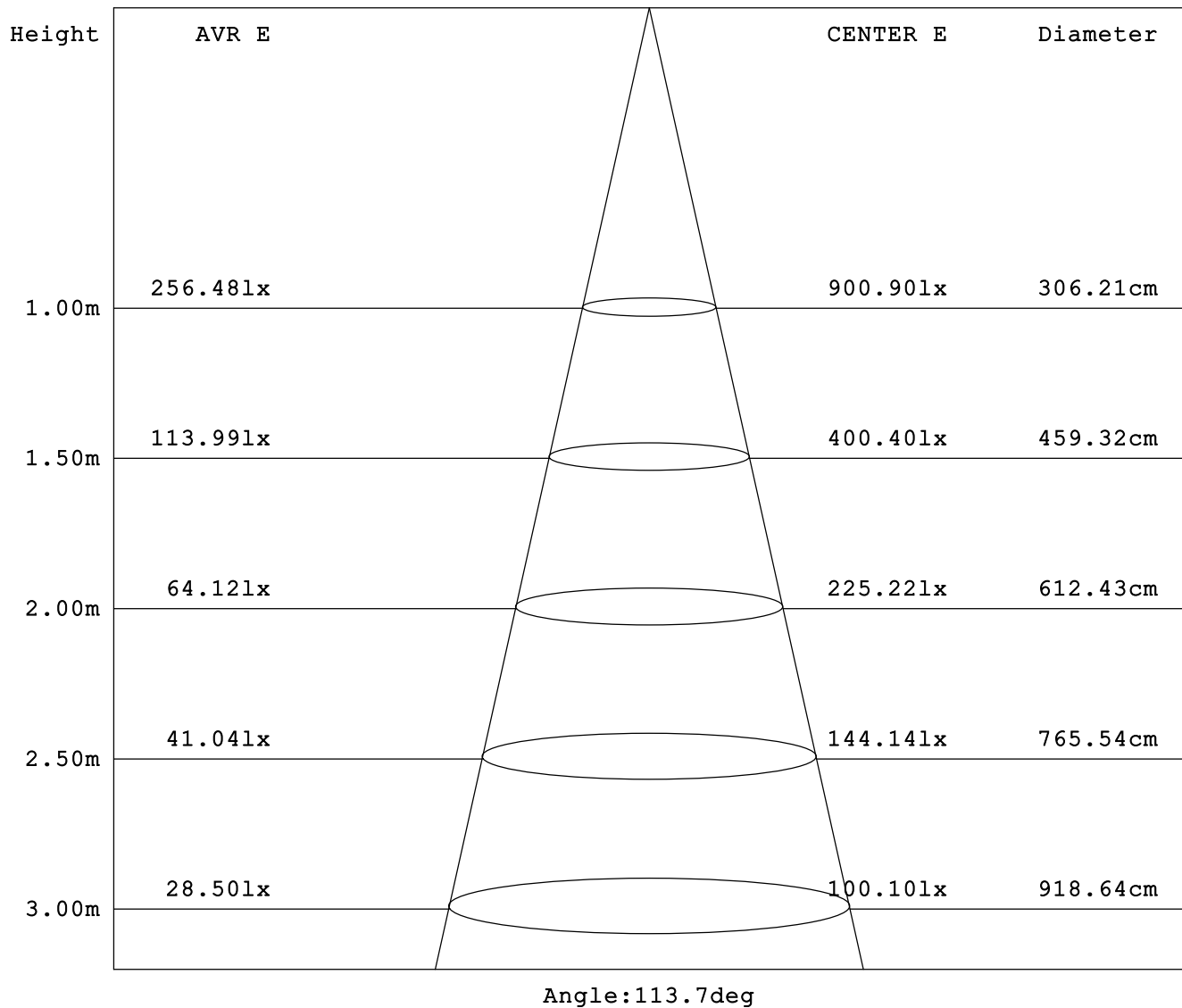
Test System:
Temperature: 25.3 DEG
Operators:
Test Date: 2025-07-30

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

AVERAGE AND CENTER E Figure

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ZONAL FLUX DIAGRAM

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SPECIFICATION: 2835LED-3000K-110D	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	888.9	890.1	890.4	886.7	893.7	894.0	892.0	894.7	0- 5	21.36	21.36
10.0	873.6	876.0	877.3	870.2	883.8	882.6	880.7	888.0	5- 10	63.34	84.70
15.0	850.7	853.0	855.9	845.6	866.4	864.2	860.8	872.3	10- 15	103.0	187.7
20.0	820.8	823.0	827.4	813.6	840.9	838.0	833.7	847.9	15- 20	139.2	327.0
25.0	782.8	786.3	789.9	775.3	808.0	805.4	799.6	817.1	20- 25	170.5	497.5
30.0	738.6	743.0	746.6	729.6	768.9	765.4	759.8	778.7	25- 30	196.0	693.6
35.0	689.4	692.3	698.9	678.1	723.0	719.6	712.9	734.0	30- 35	215.0	908.6
40.0	633.7	637.5	644.0	622.9	672.6	670.2	661.8	684.6	35- 40	226.7	1135
45.0	573.4	576.5	584.1	561.5	616.0	614.2	604.7	629.1	40- 45	231.0	1367
50.0	510.5	511.4	521.5	496.7	555.3	553.7	543.6	568.8	45- 50	227.8	1594
55.0	443.2	444.9	454.1	430.8	492.3	491.4	480.4	506.3	50- 55	217.5	1812
60.0	374.2	374.8	384.8	361.8	425.2	424.3	413.3	439.3	55- 60	200.4	2012
65.0	306.9	305.0	317.3	293.2	356.7	357.1	345.1	371.0	60- 65	177.7	2190
70.0	240.8	239.6	250.9	234.0	290.3	291.6	279.5	304.2	65- 70	151.0	2341
75.0	177.9	174.5	180.3	166.5	230.0	228.0	213.4	239.7	70- 75	121.8	2463
80.0	126.3	120.7	134.3	114.8	162.1	167.6	155.1	177.5	75- 80	92.13	2555
85.0	82.78	78.02	89.38	74.15	113.1	118.0	107.7	126.2	80- 85	65.71	2621
90.0	49.49	47.15	54.45	44.67	72.05	77.32	68.16	83.71	85- 90	43.50	2664
95.0	27.03	27.87	30.42	26.15	42.04	47.85	38.83	52.42	90- 95	26.61	2691
100.0	16.79	16.28	18.41	15.69	21.66	29.87	19.11	33.20	95-100	15.36	2706
105.0	12.42	9.890	13.11	10.06	11.23	18.58	10.51	20.92	100-105	9.002	2715
110.0	9.938	7.393	10.61	7.646	7.652	12.98	6.706	14.48	105-110	5.936	2721
115.0	8.149	5.494	8.708	5.735	5.764	10.19	5.305	11.36	110-115	4.337	2726
120.0	7.652	4.695	7.907	5.030	4.969	7.992	4.704	8.854	115-120	3.380	2729
125.0	7.354	4.795	7.407	5.030	4.969	7.393	4.804	7.948	120-125	2.919	2732
130.0	7.155	4.795	7.106	4.930	5.168	7.193	4.904	7.646	125-130	2.675	2735
135.0	6.957	4.795	7.006	5.030	5.366	6.993	4.904	7.344	130-135	2.457	2737
140.0	6.857	4.795	6.806	5.131	5.466	6.793	5.004	7.143	135-140	2.236	2739
145.0	6.857	4.995	6.806	5.231	5.665	6.793	5.104	6.942	140-145	2.011	2741
150.0	6.857	5.195	6.806	5.433	5.764	6.793	5.205	6.741	145-150	1.785	2743
155.0	6.857	5.395	6.806	5.634	5.863	6.793	5.405	6.741	150-155	1.554	2745
160.0	6.857	5.594	6.906	5.634	6.062	6.893	5.505	6.841	155-160	1.309	2746
165.0	6.957	5.694	6.906	5.835	6.261	6.793	5.705	6.841	160-165	1.044	2747
170.0	6.957	5.794	6.906	5.936	6.360	6.793	5.805	6.841	165-170	0.759	2748
175.0	6.857	5.894	6.906	6.036	6.559	6.793	6.005	6.841	170-175	0.462	2748
180.0	6.857	5.994	6.806	6.036	6.758	6.693	6.206	6.841	175-180	0.155	2748
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

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

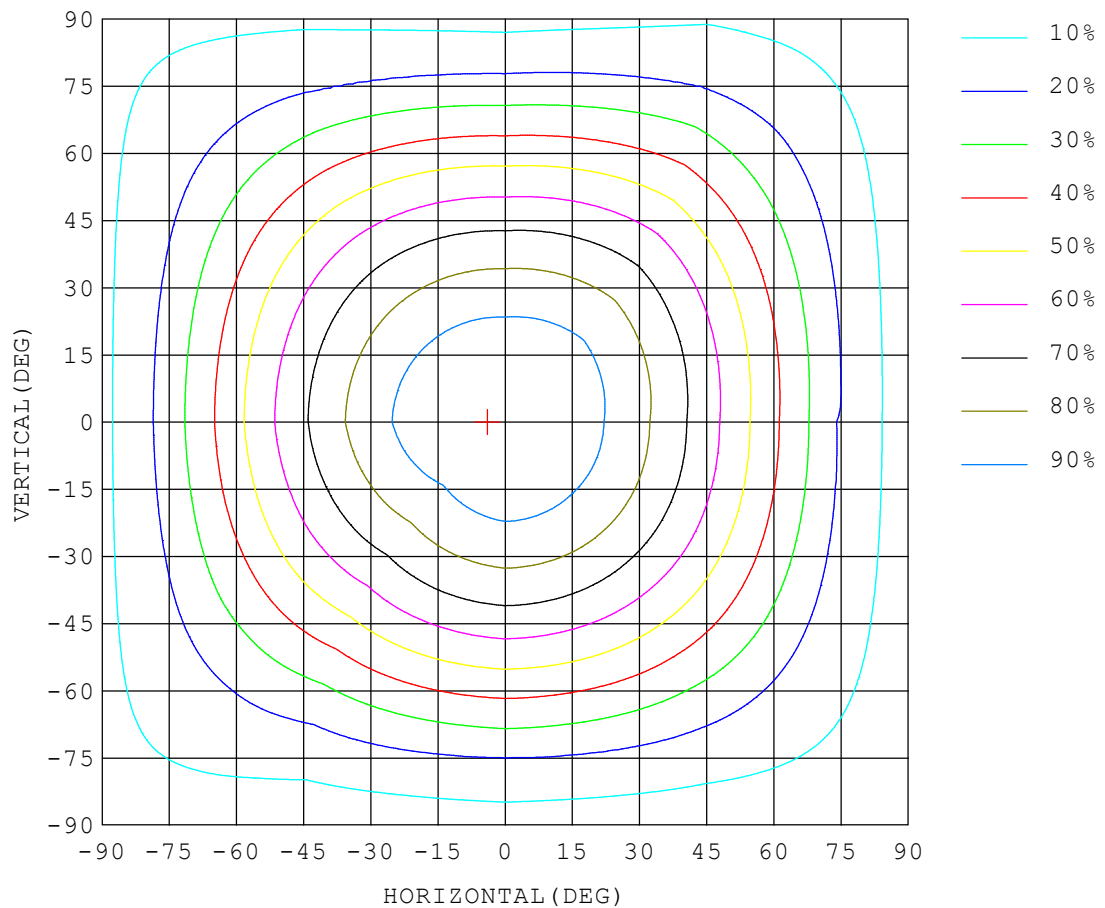
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Ida	TYPE: IL-CL18-N0203C-110	WEIGHT:
SPECIFICATION: 2835LED-3000K-110D	DIMENSION:	SERIAL No.:

UNIT: cd



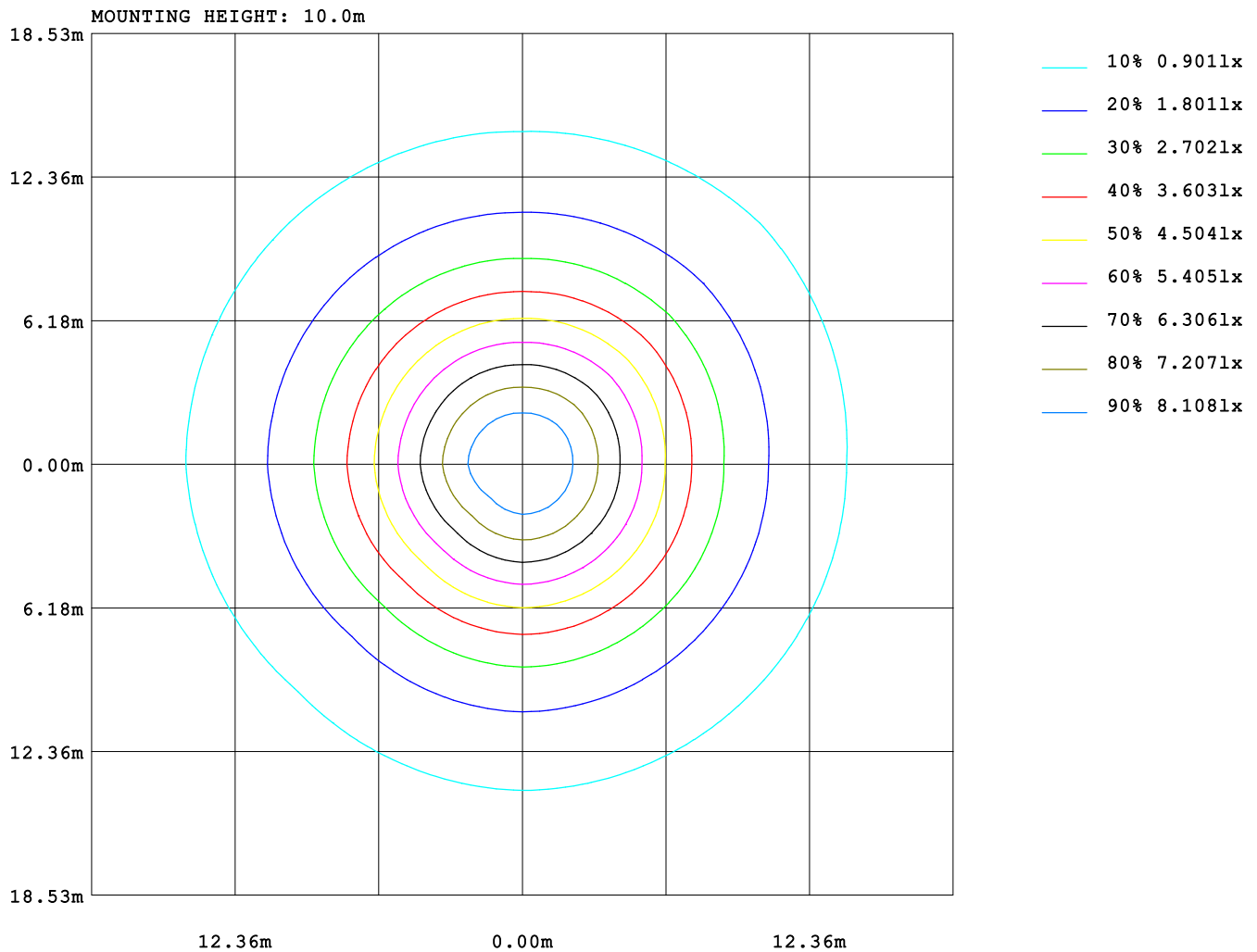
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ISOLUX DIAGRAM

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NAME: Ida	TYPE: IL-CL18-N0203C-110	WEIGHT:
SPECIFICATION: 2835LED-3000K-110D	DIMENSION:	SERIAL No.:



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Uncorrected UGR Table

Report number:

MANUFACTURER: ILUMEN GMBH	Address:			
NAME: Ida	TYPE: IL-CL18-N0203C-110			WEIGHT:
SPECIFICATION: 2835LED-3000K-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	22.0	23.5	22.3	23.7	24.0	22.1	23.6	22.4	23.8	24.1
3H	23.5	24.9	23.9	25.2	25.5	23.6	25.0	24.0	25.3	25.6
4H	24.2	25.5	24.6	25.8	26.2	24.3	25.7	24.7	26.0	26.3
6H	24.8	26.0	25.2	26.4	26.7	25.0	26.2	25.3	26.6	26.9
8H	25.1	26.3	25.5	26.6	27.0	25.3	26.5	25.7	26.8	27.2
12H	25.4	26.5	25.8	26.9	27.2	25.6	26.7	26.0	27.1	27.5
4H 2H	22.6	23.9	22.9	24.2	24.5	22.6	24.0	23.0	24.3	24.6
3H	24.3	25.5	24.7	25.8	26.2	24.4	25.6	24.8	25.9	26.3
4H	25.1	26.2	25.5	26.6	27.0	25.2	26.3	25.7	26.7	27.1
6H	25.9	26.8	26.3	27.2	27.7	26.0	27.0	26.5	27.4	27.8
8H	26.2	27.1	26.7	27.5	28.0	26.4	27.3	26.9	27.7	28.2
12H	26.6	27.4	27.1	27.9	28.3	26.8	27.6	27.3	28.1	28.5
8H 4H	25.4	26.3	25.9	26.7	27.2	25.5	26.4	26.0	26.8	27.3
6H	26.4	27.1	26.9	27.6	28.1	26.5	27.3	27.0	27.7	28.2
8H	26.9	27.5	27.4	28.0	28.5	27.0	27.7	27.5	28.2	28.7
12H	27.4	28.0	27.9	28.5	29.0	27.6	28.2	28.1	28.7	29.2
12H 4H	25.4	26.3	25.9	26.7	27.2	25.6	26.4	26.0	26.8	27.3
6H	26.5	27.1	27.0	27.6	28.1	26.6	27.3	27.1	27.7	28.3
8H	27.0	27.6	27.6	28.1	28.6	27.2	27.8	27.7	28.3	28.8

Variations with the observer position at spacings:

S = 1.0H	+ 0.1 / - 0.2	+ 0.2 / - 0.2
1.5H	+ 0.2 / - 0.3	+ 0.2 / - 0.3
2.0H	+ 0.1 / - 0.3	+ 0.1 / - 0.3

CIE Pub.117 Corrected 2748 lm Total Lamp Luminous Flux. (8log(F/F0) = 3.5)

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LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Ida	TYPE: IL-CL18-N0203C-110	WEIGHT:
SPECIFICATION: 2835LED-3000K-110D	DIMENSION:	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315
0.0	895	895	895	895	895	895	895	895
5.0	889	890	890	887	894	894	892	895
10.0	874	876	877	870	884	883	881	888
15.0	851	853	856	846	866	864	861	872
20.0	821	823	827	814	841	838	834	848
25.0	783	786	790	775	808	805	800	817
30.0	739	743	747	730	769	765	760	779
35.0	689	692	699	678	723	720	713	734
40.0	634	638	644	623	673	670	662	685
45.0	573	577	584	562	616	614	605	629
50.0	511	511	522	497	555	554	544	569
55.0	443	445	454	431	492	491	480	506
60.0	374	375	385	362	425	424	413	439
65.0	307	305	317	293	357	357	345	371
70.0	241	240	251	234	290	292	280	304
75.0	178	175	180	167	230	228	213	240
80.0	126	121	134	115	162	168	155	178
85.0	82.7	78.0	89.3	74.1	113	118	108	126
90.0	49.4	47.1	54.4	44.6	72.0	77.3	68.1	83.7
95.0	27.0	27.8	30.4	26.1	42.0	47.8	38.8	52.4
100.0	16.7	16.2	18.4	15.6	21.6	29.8	19.1	33.2
105.0	12.4	9.89	13.1	10.0	11.2	18.5	10.5	20.9
110.0	9.93	7.39	10.6	7.64	7.65	12.9	6.70	14.4
115.0	8.14	5.49	8.70	5.73	5.76	10.1	5.30	11.3
120.0	7.65	4.69	7.90	5.03	4.96	7.99	4.70	8.85
125.0	7.35	4.79	7.40	5.03	4.96	7.39	4.80	7.94
130.0	7.15	4.79	7.10	4.93	5.16	7.19	4.90	7.64
135.0	6.95	4.79	7.00	5.03	5.36	6.99	4.90	7.34
140.0	6.85	4.79	6.80	5.13	5.46	6.79	5.00	7.14
145.0	6.85	4.99	6.80	5.23	5.66	6.79	5.10	6.94
150.0	6.85	5.19	6.80	5.43	5.76	6.79	5.20	6.74
155.0	6.85	5.39	6.80	5.63	5.86	6.79	5.40	6.74
160.0	6.85	5.59	6.90	5.63	6.06	6.89	5.50	6.84
165.0	6.95	5.69	6.90	5.83	6.26	6.79	5.70	6.84
170.0	6.95	5.79	6.90	5.93	6.36	6.79	5.80	6.84
175.0	6.85	5.89	6.90	6.03	6.55	6.79	6.00	6.84
180.0	6.85	5.99	6.80	6.03	6.75	6.69	6.20	6.84

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