

LUMINAIRE PHOTOMETRIC TEST REPORT

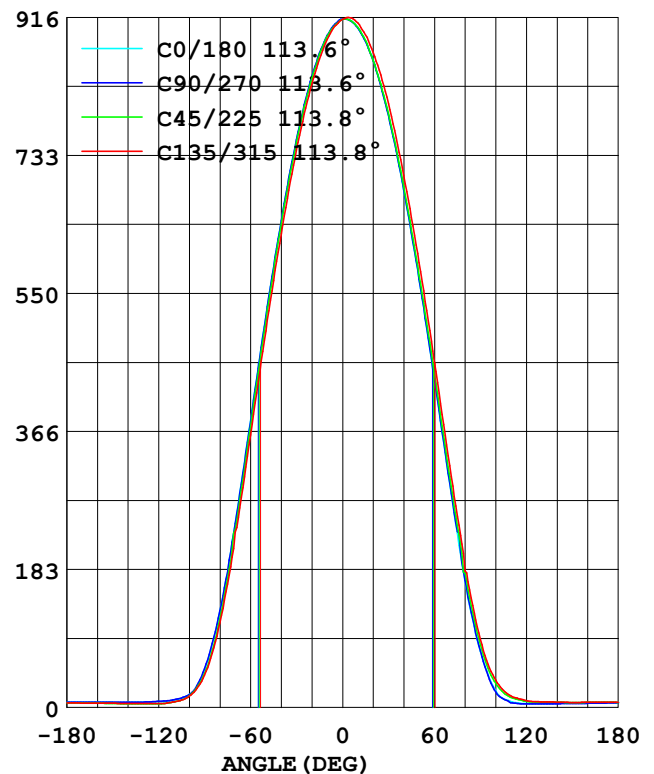
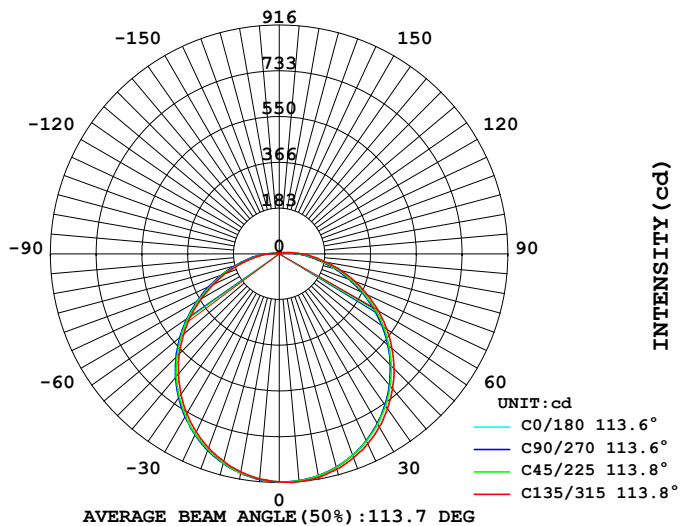
Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Ida	TYPE: IL-CL18-N0203C-110	WEIGHT:
SPECIFICATION: 2835LED-4000K-110D	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax (cd)	916.0	S/MH (C0/180)	1.23
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.23
NOMINAL POWER(W)	22	TOTAL FLUX(lm)	2808.5	Voltage(V)	231.3
RATED VOLTAGE (V)	232	EFFICIENCY (lm/W)	129.9	Current(A)	0.115
NOMINAL FLUX(lm)	2808.6	η up (%)	3.1	Power(W)	21.62
LAMPS QUANTITY	1	η down (%)	96.9	Power Factor (PF)	0.808
TEST VOLTAGE (V)	231.4	Effective Flux(lm)	0.0	EEI	0.000

LUMINOUS INTENSITY DISTRIBUTION

LUMINOUS INTENSITY DISTRIBUTION



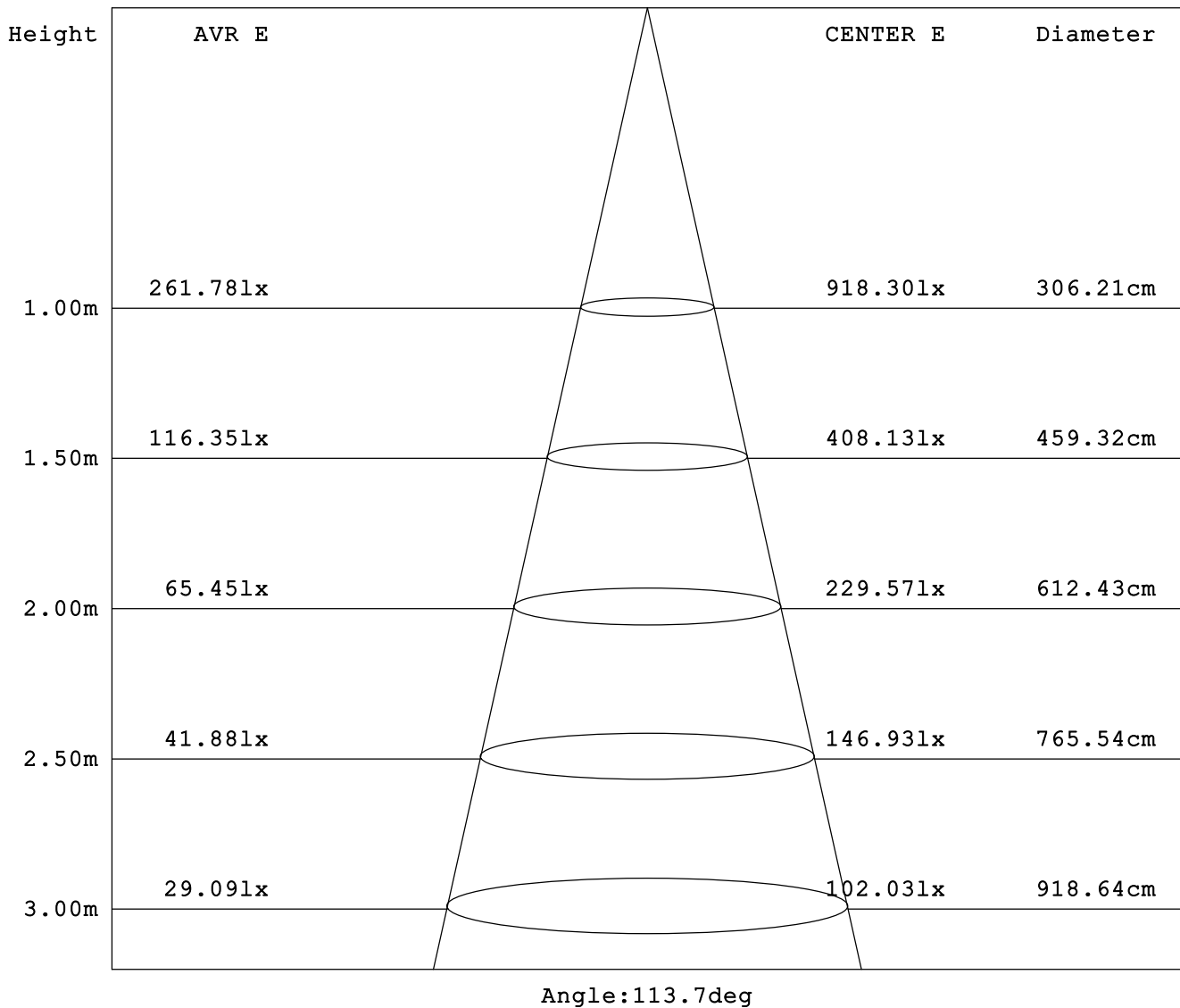
Test System:
Temperature: 25.3 DEG
Operators:
Test Date: 2025-07-30

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

AVERAGE AND CENTER E Figure

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ZONAL FLUX DIAGRAM

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

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	906.4	905.0	906.9	904.3	912.0	912.1	911.6	915.5	0- 5	21.78	21.78
10.0	891.0	890.5	891.8	886.6	902.1	902.7	901.6	908.6	5- 10	64.61	86.39
15.0	867.5	867.0	868.4	860.7	884.5	885.0	883.9	892.4	10- 15	105.1	191.5
20.0	837.2	834.2	837.8	827.0	859.5	858.6	858.0	869.0	15- 20	142.0	333.6
25.0	798.2	796.7	799.9	787.3	825.0	827.3	824.6	839.5	20- 25	174.0	507.7
30.0	752.7	750.2	753.5	740.0	785.6	787.6	785.3	801.2	25- 30	200.1	707.8
35.0	702.5	697.8	702.8	686.5	738.8	741.6	738.7	755.7	30- 35	219.4	927.3
40.0	645.7	641.9	645.9	628.7	686.7	691.4	687.5	706.2	35- 40	231.4	1159
45.0	584.3	579.3	583.9	566.4	629.1	634.3	630.1	650.3	40- 45	235.8	1395
50.0	520.2	512.6	519.3	499.8	567.9	573.3	568.5	590.2	45- 50	232.5	1627
55.0	451.5	444.6	450.2	432.1	503.3	510.6	504.5	526.8	50- 55	222.1	1849
60.0	381.1	373.2	379.3	361.6	435.0	442.9	436.3	458.7	55- 60	204.7	2054
65.0	312.4	302.1	311.1	291.5	364.7	373.6	366.4	389.1	60- 65	181.6	2236
70.0	244.9	236.2	244.2	233.2	297.2	306.4	298.6	321.0	65- 70	154.4	2390
75.0	178.3	171.1	179.3	163.8	231.3	240.8	233.3	253.9	70- 75	124.9	2515
80.0	128.5	117.6	128.6	112.4	166.5	178.0	168.4	181.2	75- 80	94.83	2610
85.0	84.34	75.56	85.03	72.10	116.3	126.1	117.6	135.4	80- 85	67.50	2677
90.0	50.42	45.32	51.78	43.24	74.19	83.15	74.81	90.00	85- 90	44.83	2722
95.0	27.54	26.65	29.14	25.14	43.36	51.81	42.36	57.12	90- 95	27.50	2750
100.0	17.00	15.67	17.32	14.98	22.37	32.14	20.43	36.50	95-100	15.88	2766
105.0	12.23	9.783	12.71	9.855	11.83	19.76	11.31	22.72	100-105	9.314	2775
110.0	9.846	7.387	10.41	7.542	8.056	13.37	6.309	15.38	105-110	6.088	2781
115.0	8.056	5.690	8.813	5.732	5.768	10.38	5.208	11.86	110-115	4.379	2785
120.0	7.658	5.091	8.212	5.229	5.171	8.086	4.807	9.251	115-120	3.461	2789
125.0	7.260	4.991	7.611	5.128	5.171	7.287	4.807	7.944	120-125	2.978	2792
130.0	7.061	5.091	7.211	5.128	5.271	7.087	4.907	7.542	125-130	2.709	2795
135.0	6.962	5.091	7.010	5.128	5.470	6.987	5.007	7.341	130-135	2.482	2797
140.0	6.862	4.991	6.910	5.229	5.569	6.888	5.007	7.140	135-140	2.257	2799
145.0	6.763	5.091	6.810	5.329	5.768	6.788	5.107	6.938	140-145	2.026	2801
150.0	6.862	5.290	6.810	5.531	5.868	6.788	5.208	6.737	145-150	1.798	2803
155.0	6.862	5.490	6.910	5.832	6.066	6.788	5.408	6.737	150-155	1.568	2805
160.0	6.962	5.690	6.910	5.732	6.166	6.888	5.608	6.838	155-160	1.322	2806
165.0	7.061	5.790	7.010	5.832	6.265	6.888	5.708	6.838	160-165	1.052	2807
170.0	6.962	5.989	7.010	5.933	6.464	6.888	5.909	6.938	165-170	0.767	2808
175.0	6.962	5.989	7.010	6.033	6.564	6.888	6.009	6.938	170-175	0.468	2808
180.0	6.862	6.089	6.910	6.134	6.862	6.788	6.309	6.838	175-180	0.157	2809
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

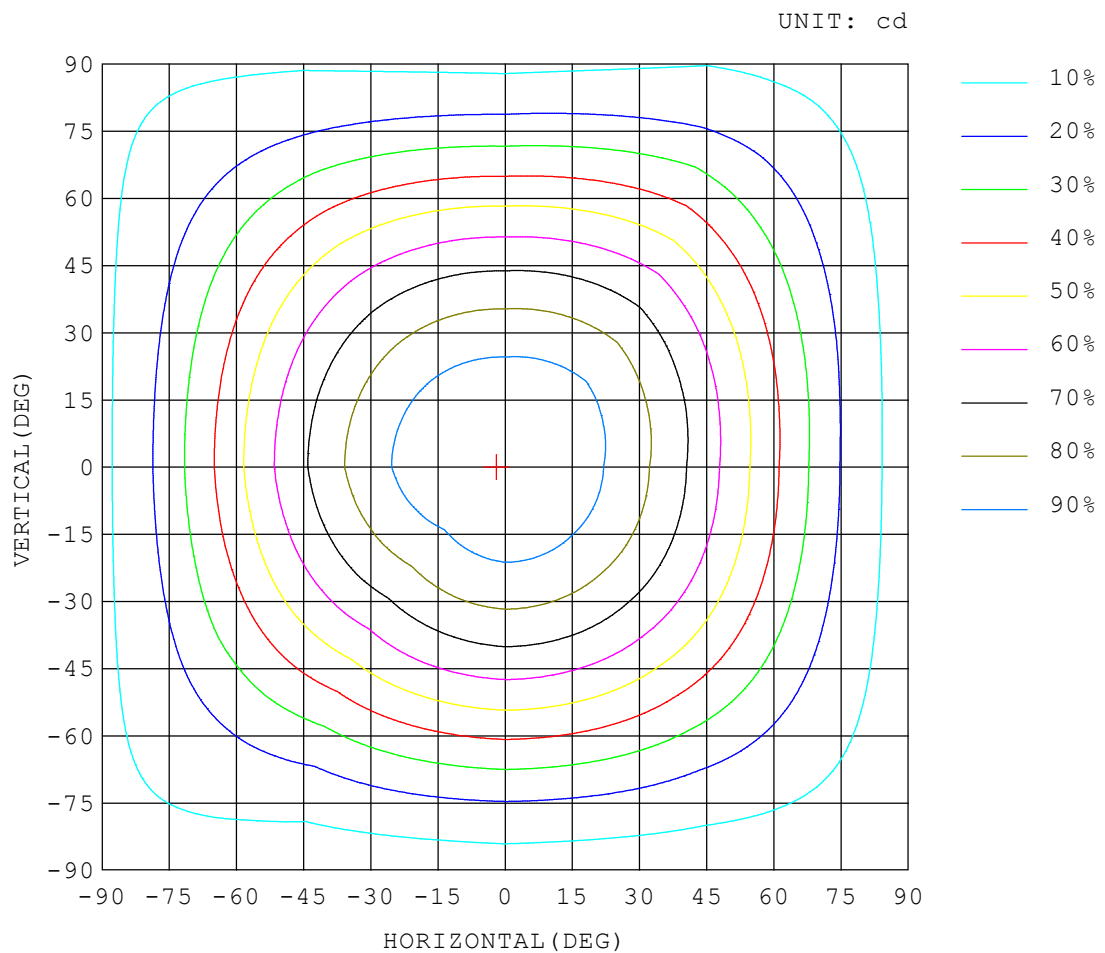
Test System:
Temperature:25.3DEG
Operators:
Test Date:2025-07-30

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

ISOCANDELA DIAGRAM

Report number:

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



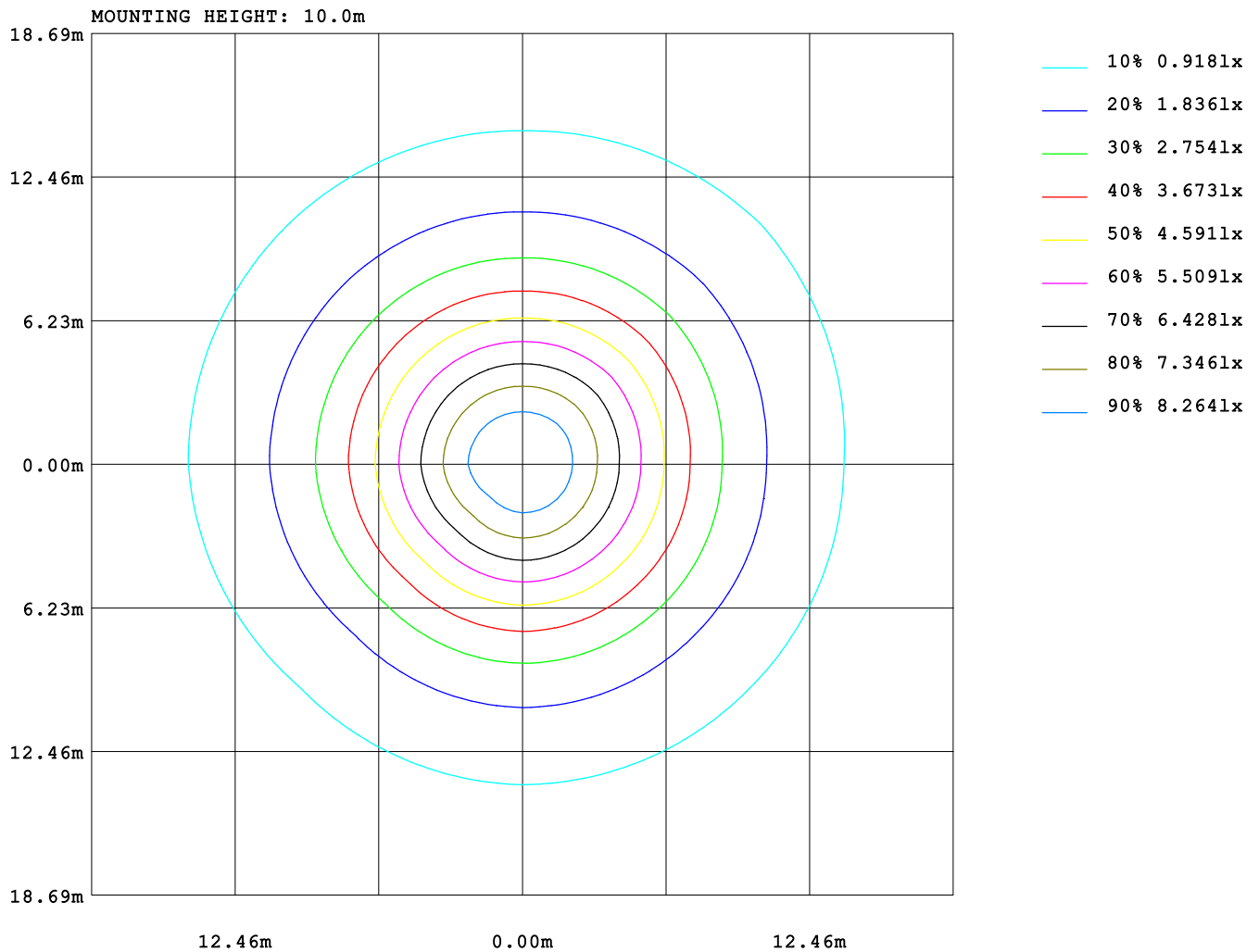
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ISOLUX DIAGRAM

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



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Uncorrected UGR Table

Report number:

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NAME: Ida	TYPE: IL-CL18-N0203C-110		WEIGHT:	
SPECIFICATION: 2835LED-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	22.0	23.5	22.3	23.7	24.0	21.9	23.4	22.2	23.7	24.0
3H	23.5	24.9	23.9	25.2	25.5	23.5	24.9	23.8	25.2	25.5
4H	24.2	25.5	24.6	25.8	26.2	24.2	25.5	24.5	25.8	26.1
6H	24.8	26.1	25.2	26.4	26.7	24.8	26.0	25.1	26.3	26.7
8H	25.1	26.3	25.5	26.6	27.0	25.0	26.2	25.4	26.6	26.9
12H	25.4	26.5	25.8	26.9	27.3	25.3	26.5	25.7	26.8	27.2
4H 2H	22.5	23.9	22.9	24.2	24.5	22.5	23.8	22.9	24.1	24.5
3H	24.3	25.5	24.7	25.8	26.2	24.2	25.4	24.6	25.8	26.1
4H	25.1	26.2	25.5	26.5	26.9	25.1	26.1	25.5	26.5	26.9
6H	25.8	26.8	26.3	27.2	27.6	25.8	26.8	26.3	27.2	27.6
8H	26.2	27.1	26.7	27.5	28.0	26.2	27.1	26.6	27.5	27.9
12H	26.6	27.4	27.1	27.9	28.3	26.6	27.4	27.0	27.8	28.3
8H 4H	25.4	26.3	25.8	26.7	27.1	25.3	26.2	25.8	26.7	27.1
6H	26.3	27.1	26.8	27.5	28.0	26.3	27.0	26.8	27.5	28.0
8H	26.8	27.5	27.3	28.0	28.5	26.8	27.4	27.3	27.9	28.4
12H	27.3	27.9	27.9	28.4	29.0	27.3	27.9	27.8	28.4	28.9
12H 4H	25.4	26.2	25.9	26.7	27.1	25.4	26.2	25.8	26.6	27.1
6H	26.4	27.1	26.9	27.6	28.1	26.4	27.0	26.9	27.5	28.0
8H	27.0	27.5	27.5	28.0	28.6	26.9	27.5	27.5	28.0	28.6

Variations with the observer position at spacings:

S = 1.0H	+ 0.1 / - 0.2	+ 0.1 / - 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 2809 lm Total Lamp Luminous Flux. (8log(F/F0) = 3.6)

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LUMINOUS DISTRIBUTION INTENSITY DATA

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NAME: Ida	TYPE: IL-CL18-N0203C-110	WEIGHT:
SPECIFICATION: 2835LED-4000K-110D	DIMENSION:	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315
0.0	913	913	913	913	913	913	913	913
5.0	906	905	907	904	912	912	912	916
10.0	891	891	892	887	902	903	902	909
15.0	868	867	868	861	885	885	884	892
20.0	837	834	838	827	860	859	858	869
25.0	798	797	800	787	825	827	825	840
30.0	753	750	754	740	786	788	785	801
35.0	703	698	703	687	739	742	739	756
40.0	646	642	646	629	687	691	688	706
45.0	584	579	584	566	629	634	630	650
50.0	520	513	519	500	568	573	569	590
55.0	452	445	450	432	503	511	505	527
60.0	381	373	379	362	435	443	436	459
65.0	312	302	311	292	365	374	366	389
70.0	245	236	244	233	297	306	299	321
75.0	178	171	179	164	231	241	233	254
80.0	129	118	129	112	167	178	168	181
85.0	84.3	75.5	85.0	72.1	116	126	118	135
90.0	50.4	45.3	51.7	43.2	74.1	83.1	74.8	90.0
95.0	27.5	26.6	29.1	25.1	43.3	51.8	42.3	57.1
100.0	17.0	15.6	17.3	14.9	22.3	32.1	20.4	36.5
105.0	12.2	9.78	12.7	9.85	11.8	19.7	11.3	22.7
110.0	9.84	7.38	10.4	7.54	8.05	13.3	6.30	15.3
115.0	8.05	5.69	8.81	5.73	5.76	10.3	5.20	11.8
120.0	7.65	5.09	8.21	5.22	5.17	8.08	4.80	9.25
125.0	7.26	4.99	7.61	5.12	5.17	7.28	4.80	7.94
130.0	7.06	5.09	7.21	5.12	5.27	7.08	4.90	7.54
135.0	6.96	5.09	7.01	5.12	5.47	6.98	5.00	7.34
140.0	6.86	4.99	6.91	5.22	5.56	6.88	5.00	7.14
145.0	6.76	5.09	6.81	5.32	5.76	6.78	5.10	6.93
150.0	6.86	5.29	6.81	5.53	5.86	6.78	5.20	6.73
155.0	6.86	5.49	6.91	5.83	6.06	6.78	5.40	6.73
160.0	6.96	5.69	6.91	5.73	6.16	6.88	5.60	6.83
165.0	7.06	5.79	7.01	5.83	6.26	6.88	5.70	6.83
170.0	6.96	5.98	7.01	5.93	6.46	6.88	5.90	6.93
175.0	6.96	5.98	7.01	6.03	6.56	6.88	6.00	6.93
180.0	6.86	6.08	6.91	6.13	6.86	6.78	6.30	6.83

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