

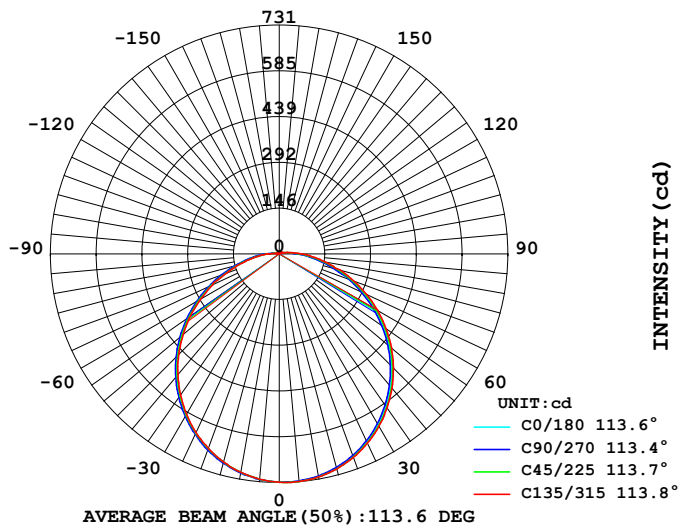
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

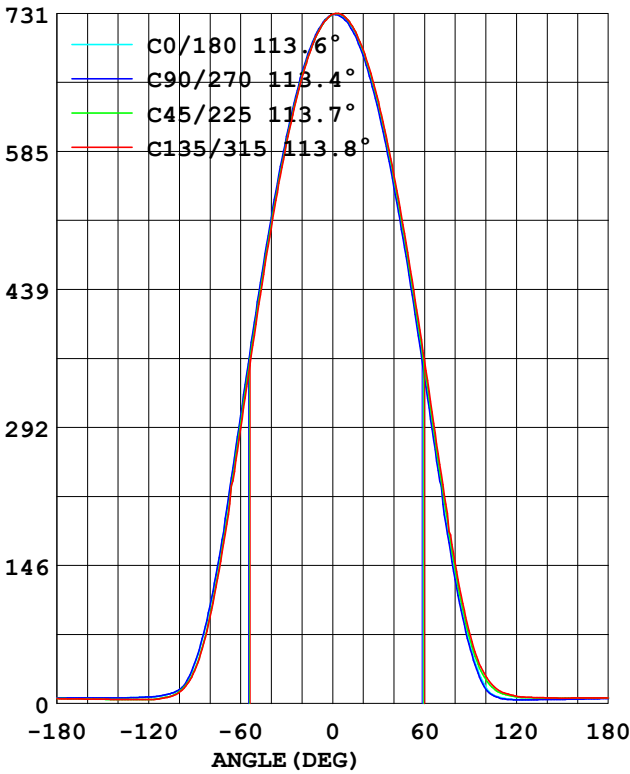
MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Ida	TYPE: IL-CL18-N0163C-110	WEIGHT:
SPECIFICATION: 2835LED-3000K-110D	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax (cd)	731.1	S/MH (C0/180)	1.22
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.23
NOMINAL POWER(W)	16	TOTAL FLUX(lm)	2242.8	Voltage(V)	231.3
RATED VOLTAGE (V)	232	EFFICIENCY (lm/W)	136.9	Current(A)	0.089
NOMINAL FLUX(lm)	2242.8	η up (%)	3.1	Power(W)	16.37
LAMPS QUANTITY	1	η down (%)	96.9	Power Factor (PF)	0.791
TEST VOLTAGE (V)	231.4	Effective Flux(lm)	2242.8	EEI	0.109

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



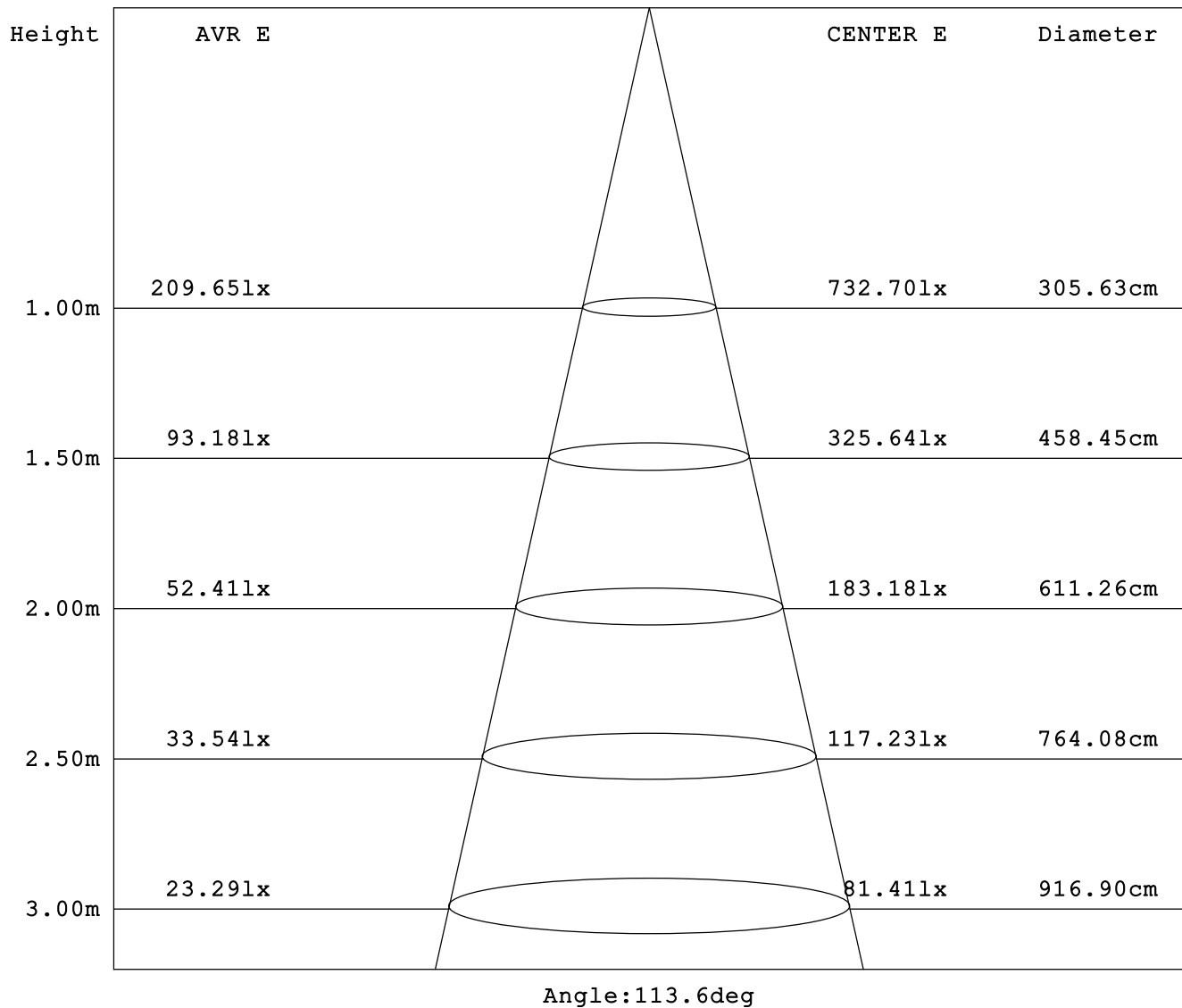
Test System:
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2025-07-30

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:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Ida	TYPE: IL-CL18-N0163C-110	WEIGHT:
SPECIFICATION: 2835LED-3000K-110D	DIMENSION:	SERIAL No.:



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Test Date: 2025-07-30

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ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Ida	TYPE: IL-CL18-N0163C-110	WEIGHT:
SPECIFICATION: 2835LED-3000K-110D	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	722.6	723.0	724.0	722.8	729.4	730.1	728.0	730.5	0- 5	17.40	17.40
10.0	708.9	709.0	711.3	708.8	722.7	723.8	721.1	724.1	5- 10	51.59	69.00
15.0	689.9	689.0	692.4	688.3	709.2	711.2	706.7	711.6	10- 15	84.00	153.0
20.0	664.2	663.6	667.8	662.4	690.1	691.3	686.1	692.5	15- 20	113.4	266.4
25.0	632.7	631.8	636.1	630.0	663.6	665.7	659.5	667.5	20- 25	139.0	405.5
30.0	597.6	595.3	600.6	592.9	632.3	634.8	627.3	637.4	25- 30	159.8	565.3
35.0	556.2	553.5	559.7	550.7	595.8	598.6	590.3	600.8	30- 35	175.2	740.6
40.0	510.9	507.5	514.4	503.9	553.5	557.2	548.1	560.7	35- 40	184.8	925.4
45.0	463.5	458.9	466.6	454.7	507.5	512.6	502.0	517.0	40- 45	188.3	1114
50.0	411.3	406.4	413.8	401.6	458.5	463.3	453.7	468.7	45- 50	185.8	1300
55.0	357.3	351.4	359.6	346.1	405.7	411.0	400.5	416.8	50- 55	177.3	1477
60.0	303.0	296.5	305.0	291.1	350.4	357.5	345.7	363.9	55- 60	163.5	1641
65.0	247.6	240.3	249.2	235.7	295.2	301.8	290.8	308.7	60- 65	145.1	1786
70.0	194.5	183.3	196.0	179.4	239.7	246.1	235.3	253.1	65- 70	123.2	1909
75.0	144.3	135.3	145.6	132.4	183.1	194.3	179.6	201.3	70- 75	99.03	2008
80.0	102.2	93.19	103.0	91.13	134.6	142.5	131.5	149.3	75- 80	75.15	2083
85.0	68.23	59.19	69.12	57.91	93.53	99.99	90.53	106.0	80- 85	53.70	2137
90.0	41.43	35.29	42.51	34.52	59.76	66.29	56.91	71.66	85- 90	35.67	2172
95.0	22.81	21.19	24.10	20.17	35.16	41.39	32.21	45.66	90- 95	21.92	2194
100.0	14.44	12.59	14.70	11.74	17.63	25.59	15.20	29.10	95-100	12.72	2207
105.0	10.85	8.099	11.00	7.627	9.164	15.99	8.402	18.56	100-105	7.522	2215
110.0	8.765	6.199	8.903	5.921	6.275	10.89	5.201	12.64	105-110	4.973	2220
115.0	7.171	4.799	7.502	4.516	4.880	8.699	4.201	9.835	110-115	3.649	2223
120.0	6.773	4.299	7.002	4.114	4.283	6.999	3.901	7.828	115-120	2.913	2226
125.0	6.474	4.299	6.602	4.114	4.382	6.299	3.901	6.824	120-125	2.531	2229
130.0	6.275	4.299	6.302	4.114	4.482	6.199	4.001	6.523	125-130	2.308	2231
135.0	6.076	4.399	6.002	4.215	4.582	5.999	4.101	6.222	130-135	2.114	2233
140.0	5.976	4.399	5.902	4.215	4.681	5.899	4.201	6.021	135-140	1.918	2235
145.0	5.976	4.399	5.801	4.315	4.880	5.799	4.301	5.821	140-145	1.721	2237
150.0	5.976	4.499	5.801	4.516	4.980	5.699	4.401	5.720	145-150	1.523	2238
155.0	5.976	4.699	5.902	4.717	5.179	5.699	4.501	5.720	150-155	1.328	2240
160.0	5.976	4.799	5.902	4.717	5.279	5.799	4.601	5.821	155-160	1.121	2241
165.0	5.976	4.999	5.902	4.817	5.478	5.899	4.801	5.821	160-165	0.890	2242
170.0	5.976	4.999	5.902	4.917	5.578	5.799	4.901	5.821	165-170	0.650	2242
175.0	5.976	5.099	5.902	5.018	5.777	5.799	5.101	5.821	170-175	0.395	2243
180.0	5.877	5.199	5.801	5.118	6.076	5.799	5.201	5.821	175-180	0.133	2243
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

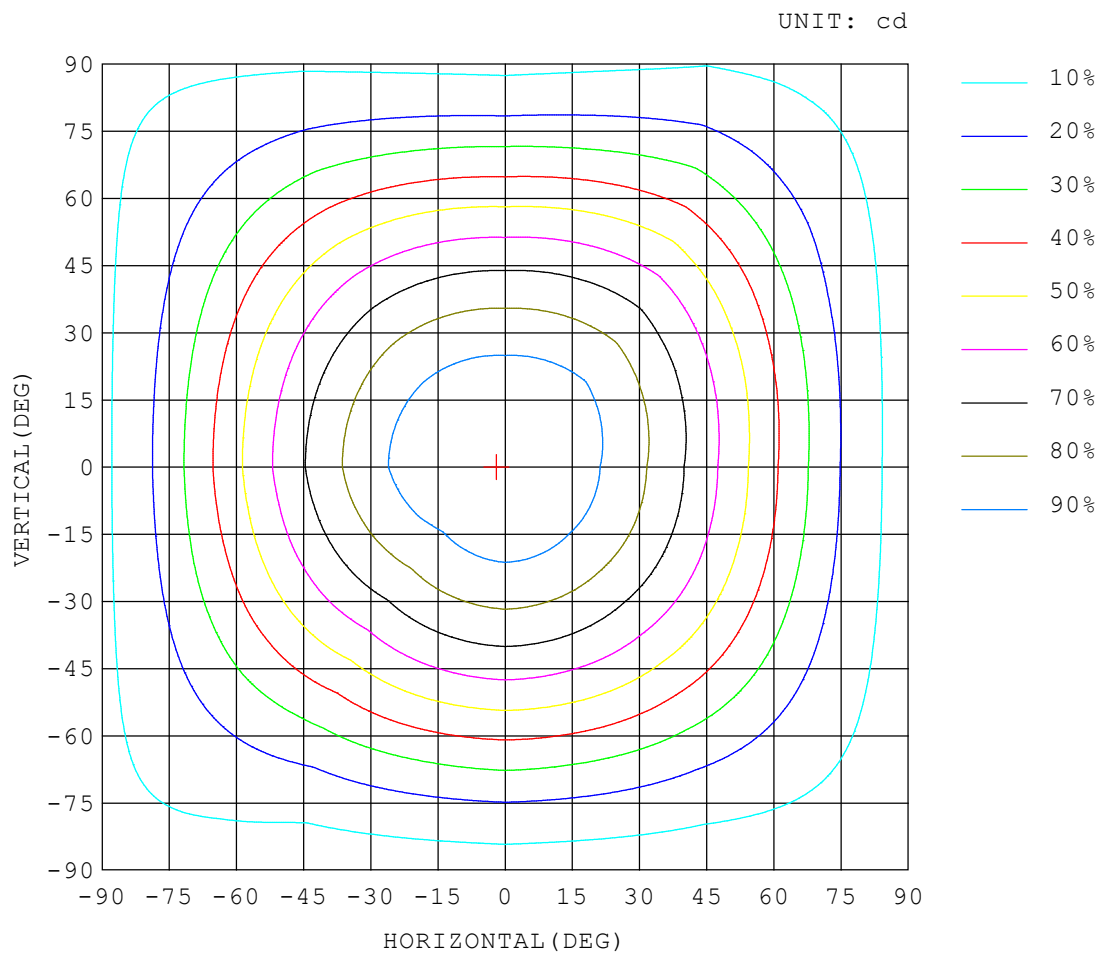
Test System:
Temperature:25.3DEG
Operators:
Test Date:2025-07-30

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



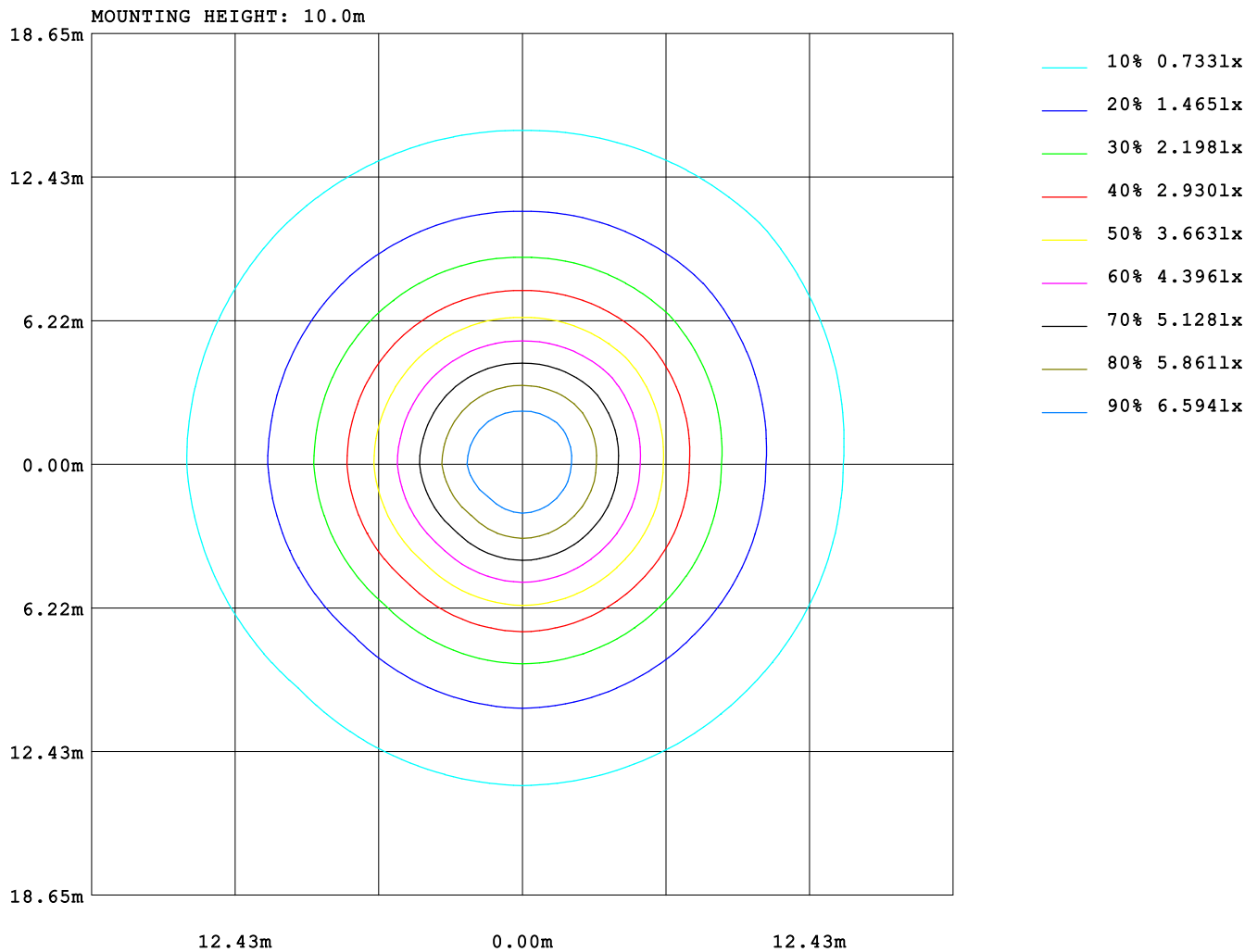
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Operators:
Test Date: 2025-07-30

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Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Ida	TYPE: IL-CL18-N0163C-110	WEIGHT:
SPECIFICATION: 2835LED-3000K-110D	DIMENSION:	SERIAL No.:



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

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

Uncorrected UGR Table

Report number:

MANUFACTURER: ILUMEN GMBH					Address:					
NAME: Ida					TYPE: IL-CL18-N0163C-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	21.1	22.6	21.4	22.9	23.2	21.1	22.6	21.4	22.9	23.2
3H	22.7	24.1	23.0	24.4	24.7	22.7	24.1	23.0	24.4	24.7
4H	23.3	24.7	23.7	25.0	25.3	23.4	24.7	23.7	25.0	25.3
6H	24.0	25.2	24.3	25.5	25.9	24.0	25.2	24.3	25.6	25.9
8H	24.2	25.4	24.6	25.8	26.1	24.3	25.5	24.6	25.8	26.2
12H	24.5	25.7	24.9	26.0	26.4	24.6	25.7	25.0	26.1	26.4
4H 2H	21.7	23.0	22.1	23.3	23.7	21.7	23.0	22.1	23.3	23.7
3H	23.4	24.6	23.8	24.9	25.3	23.4	24.6	23.8	24.9	25.3
4H	24.2	25.3	24.7	25.7	26.1	24.2	25.3	24.7	25.7	26.1
6H	25.0	25.9	25.4	26.4	26.8	25.0	26.0	25.5	26.4	26.8
8H	25.4	26.3	25.8	26.7	27.1	25.4	26.3	25.8	26.7	27.1
12H	25.7	26.6	26.2	27.0	27.5	25.8	26.6	26.2	27.0	27.5
8H 4H	24.5	25.4	25.0	25.8	26.3	24.5	25.4	25.0	25.8	26.3
6H	25.5	26.2	26.0	26.7	27.2	25.5	26.2	26.0	26.7	27.2
8H	26.0	26.6	26.5	27.1	27.6	26.0	26.6	26.5	27.1	27.6
12H	26.5	27.1	27.0	27.6	28.1	26.5	27.1	27.1	27.6	28.2
12H 4H	24.5	25.4	25.0	25.8	26.3	24.5	25.4	25.0	25.8	26.3
6H	25.6	26.2	26.1	26.7	27.2	25.6	26.2	26.1	26.7	27.2
8H	26.1	26.7	26.6	27.2	27.7	26.1	26.7	26.7	27.2	27.8
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 / - 0.2				

CIE Pub.117 Corrected 2243 lm Total Lamp Luminous Flux. (8log(F/F0) = 2.8)

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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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Ida	TYPE: IL-CL18-N0163C-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	730	730	730	730	730	730	730	730
5.0	723	723	724	723	729	730	728	731
10.0	709	709	711	709	723	724	721	724
15.0	690	689	692	688	709	711	707	712
20.0	664	664	668	662	690	691	686	693
25.0	633	632	636	630	664	666	660	668
30.0	598	595	601	593	632	635	627	637
35.0	556	554	560	551	596	599	590	601
40.0	511	508	514	504	554	557	548	561
45.0	464	459	467	455	508	513	502	517
50.0	411	406	414	402	459	463	454	469
55.0	357	351	360	346	406	411	401	417
60.0	303	297	305	291	350	358	346	364
65.0	248	240	249	236	295	302	291	309
70.0	195	183	196	179	240	246	235	253
75.0	144	135	146	132	183	194	180	201
80.0	102	93.1	103	91.1	135	143	132	149
85.0	68.2	59.1	69.1	57.9	93.5	99.9	90.5	106
90.0	41.4	35.2	42.5	34.5	59.7	66.2	56.9	71.6
95.0	22.8	21.1	24.1	20.1	35.1	41.3	32.2	45.6
100.0	14.4	12.5	14.7	11.7	17.6	25.5	15.2	29.1
105.0	10.8	8.09	11.0	7.62	9.16	15.9	8.40	18.5
110.0	8.76	6.19	8.90	5.92	6.27	10.8	5.20	12.6
115.0	7.17	4.79	7.50	4.51	4.88	8.69	4.20	9.83
120.0	6.77	4.29	7.00	4.11	4.28	6.99	3.90	7.82
125.0	6.47	4.29	6.60	4.11	4.38	6.29	3.90	6.82
130.0	6.27	4.29	6.30	4.11	4.48	6.19	4.00	6.52
135.0	6.07	4.39	6.00	4.21	4.58	5.99	4.10	6.22
140.0	5.97	4.39	5.90	4.21	4.68	5.89	4.20	6.02
145.0	5.97	4.39	5.80	4.31	4.88	5.79	4.30	5.82
150.0	5.97	4.49	5.80	4.51	4.98	5.69	4.40	5.72
155.0	5.97	4.69	5.90	4.71	5.17	5.69	4.50	5.72
160.0	5.97	4.79	5.90	4.71	5.27	5.79	4.60	5.82
165.0	5.97	4.99	5.90	4.81	5.47	5.89	4.80	5.82
170.0	5.97	4.99	5.90	4.91	5.57	5.79	4.90	5.82
175.0	5.97	5.09	5.90	5.01	5.77	5.79	5.10	5.82
180.0	5.87	5.19	5.80	5.11	6.07	5.79	5.20	5.82

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