

LUMINAIRE PHOTOMETRIC TEST REPORT

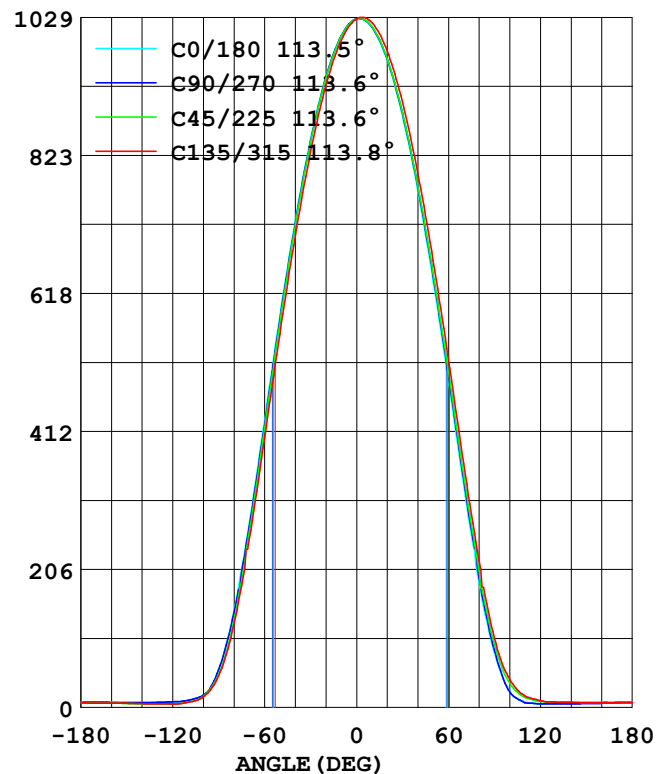
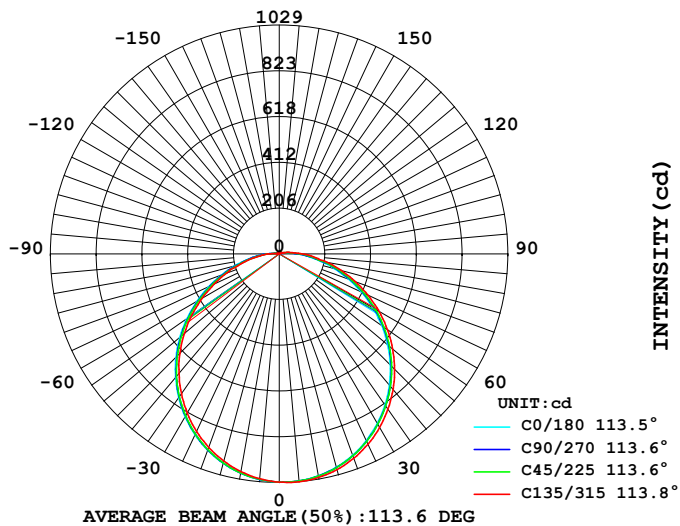
Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Ida	TYPE: IL-CL18-N0253C-110	WEIGHT:
SPECIFICATION: 2835LED-3000K-110D	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	1029	S/MH (C0/180)	1.23
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.23
NOMINAL POWER(W)	24	TOTAL FLUX(lm)	3152.9	Voltage(V)	231.3
RATED VOLTAGE (V)	232	EFFICIENCY (lm/W)	129.9	Current(A)	0.128
NOMINAL FLUX(lm)	3153.0	η up (%)	3.0	Power(W)	24.28
LAMPS QUANTITY	1	η down (%)	97.0	Power Factor (PF)	0.816
TEST VOLTAGE (V)	231.4	Effective Flux(lm)	0.0	EEI	0.000

LUMINOUS INTENSITY DISTRIBUTION

LUMINOUS INTENSITY DISTRIBUTION



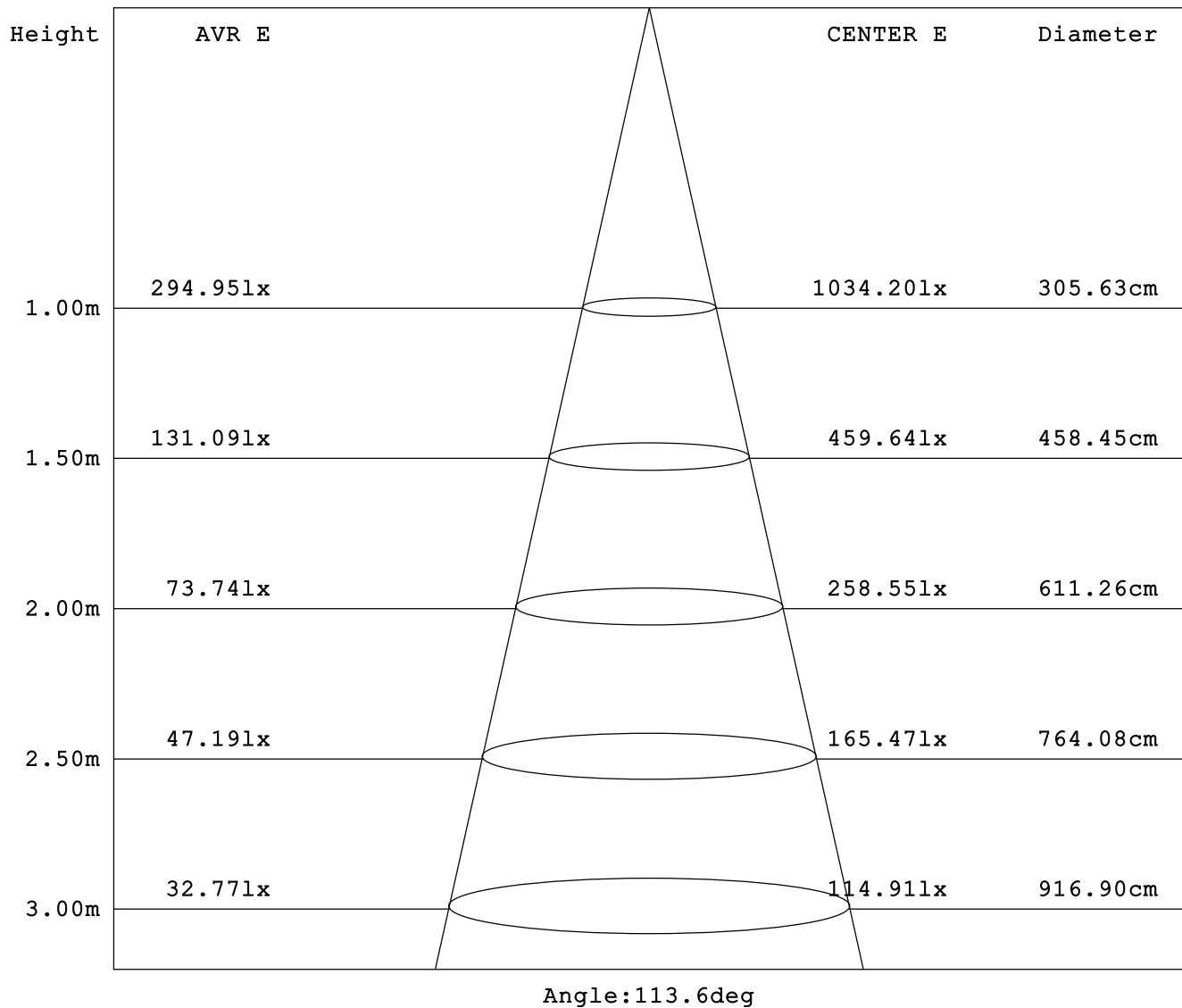
Test System:
Temperature: 25.3 DEG
Operators:
Test Date: 2025-07-30

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:

MANUFACTURER: ILUMEN GMBH	Address:	
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ZONAL FLUX DIAGRAM

Report number:

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NAME: Ida	TYPE: IL-CL18-N0253C-110	WEIGHT:
SPECIFICATION: 2835LED-3000K-110D	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	1019	1018	1019	1015	1025	1026	1026	1029	0- 5	24.49	24.49
10.0	1002	1001	1001	994.7	1014	1016	1015	1021	5- 10	72.62	97.12
15.0	975.1	973.7	974.3	965.4	993.8	995.9	995.4	1005	10- 15	118.2	215.3
20.0	941.0	937.8	939.4	926.9	964.5	967.3	967.0	978.9	15- 20	159.7	375.0
25.0	897.6	894.4	895.2	881.7	926.8	931.2	930.0	945.1	20- 25	195.6	570.7
30.0	846.6	842.5	843.5	827.9	882.1	886.6	886.3	902.6	25- 30	224.9	795.6
35.0	790.0	783.3	786.4	767.8	829.4	835.4	834.4	852.6	30- 35	246.5	1042
40.0	726.1	719.3	721.4	703.1	771.4	778.7	777.2	797.2	35- 40	260.0	1302
45.0	656.8	648.7	651.4	632.0	706.4	715.1	713.1	734.5	40- 45	265.0	1567
50.0	584.7	573.4	578.4	556.8	636.6	647.1	644.1	666.4	45- 50	261.3	1829
55.0	507.3	496.7	500.3	480.8	564.2	575.9	572.4	595.3	50- 55	249.4	2078
60.0	428.0	416.3	420.7	401.5	487.1	499.9	495.6	518.8	55- 60	229.8	2308
65.0	350.7	336.2	344.0	323.2	408.2	422.2	417.0	440.4	60- 65	203.8	2512
70.0	274.8	261.8	269.4	251.2	331.9	346.3	340.5	363.7	65- 70	173.2	2685
75.0	205.6	189.4	201.9	181.1	257.6	272.0	265.9	288.0	70- 75	140.1	2825
80.0	143.9	129.6	141.1	123.7	185.3	204.1	193.3	218.2	75- 80	106.8	2932
85.0	93.92	82.92	92.79	79.17	129.0	142.9	135.0	155.1	80- 85	75.54	3008
90.0	55.60	49.39	55.91	47.14	81.81	94.10	85.67	103.4	85- 90	50.18	3058
95.0	29.88	28.93	31.06	27.19	47.35	58.57	48.09	65.87	90- 95	30.66	3088
100.0	18.56	16.66	18.33	15.81	24.12	36.42	23.14	42.20	95-100	17.60	3106
105.0	13.30	10.37	13.42	10.17	12.80	22.45	13.02	26.18	100-105	10.29	3116
110.0	10.62	7.883	10.82	7.756	8.340	15.16	7.014	17.32	105-110	6.666	3123
115.0	8.637	5.887	9.018	5.741	6.354	11.37	6.212	13.09	110-115	4.716	3128
120.0	8.240	5.388	8.517	5.338	5.758	9.080	5.511	10.17	115-120	3.735	3131
125.0	7.843	5.388	8.016	5.338	5.758	8.482	5.511	8.461	120-125	3.240	3135
130.0	7.744	5.488	7.715	5.338	5.857	8.182	5.511	8.158	125-130	2.954	3138
135.0	7.545	5.488	7.515	5.439	6.056	7.983	5.511	7.856	130-135	2.711	3140
140.0	7.446	5.488	7.415	5.741	6.255	7.783	5.611	7.655	135-140	2.472	3143
145.0	7.446	5.787	7.415	5.942	6.354	7.683	5.711	7.453	140-145	2.236	3145
150.0	7.545	5.987	7.515	6.245	6.552	7.583	5.912	7.453	145-150	1.993	3147
155.0	7.545	6.386	7.615	6.547	6.652	7.484	6.012	7.453	150-155	1.747	3149
160.0	7.645	6.486	7.615	6.245	6.850	7.583	6.212	7.554	155-160	1.468	3150
165.0	7.744	6.486	7.715	6.446	7.049	7.583	6.413	7.554	160-165	1.166	3151
170.0	7.744	6.586	7.715	6.648	7.148	7.583	6.613	7.655	165-170	0.849	3152
175.0	7.744	6.685	7.715	6.648	7.247	7.583	6.713	7.655	170-175	0.518	3153
180.0	7.645	6.785	7.615	6.849	7.645	7.583	7.014	7.554	175-180	0.174	3153
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

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

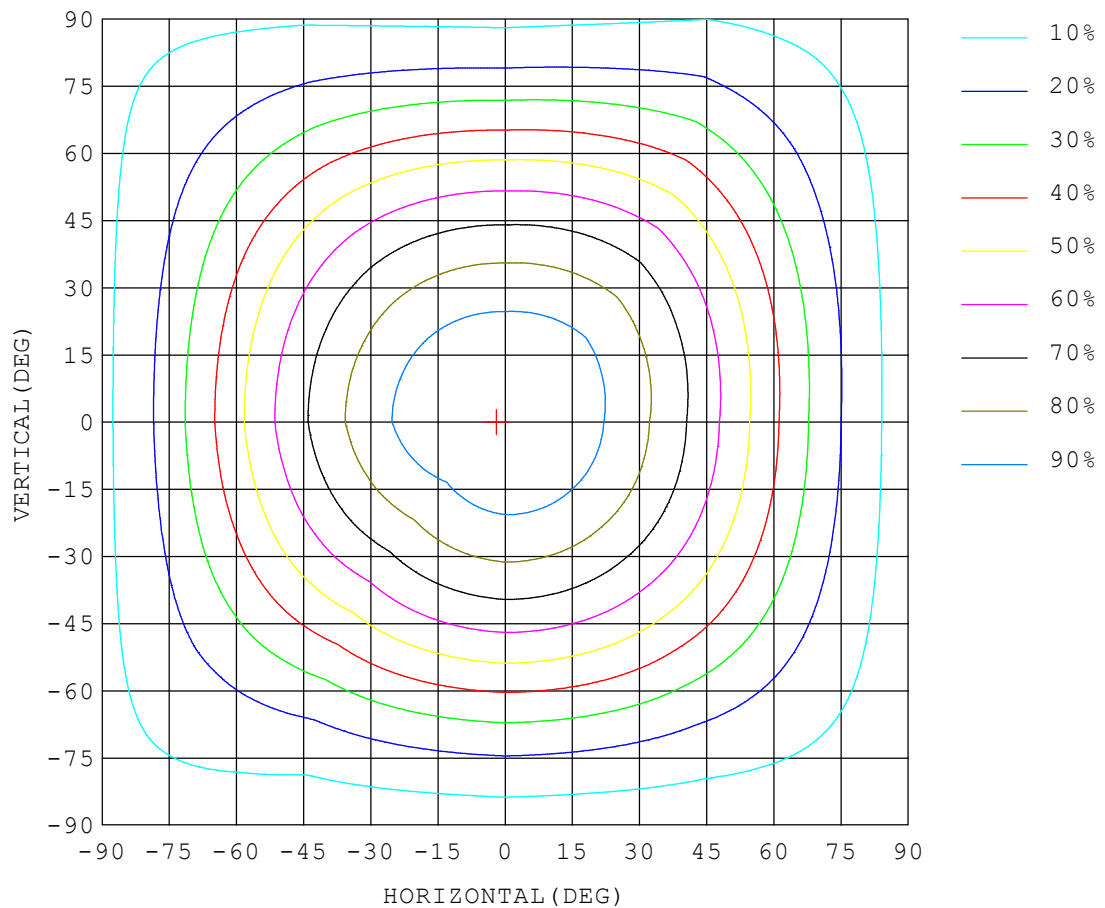
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Ida	TYPE: IL-CL18-N0253C-110	WEIGHT:
SPECIFICATION: 2835LED-3000K-110D	DIMENSION:	SERIAL No.:

UNIT: cd



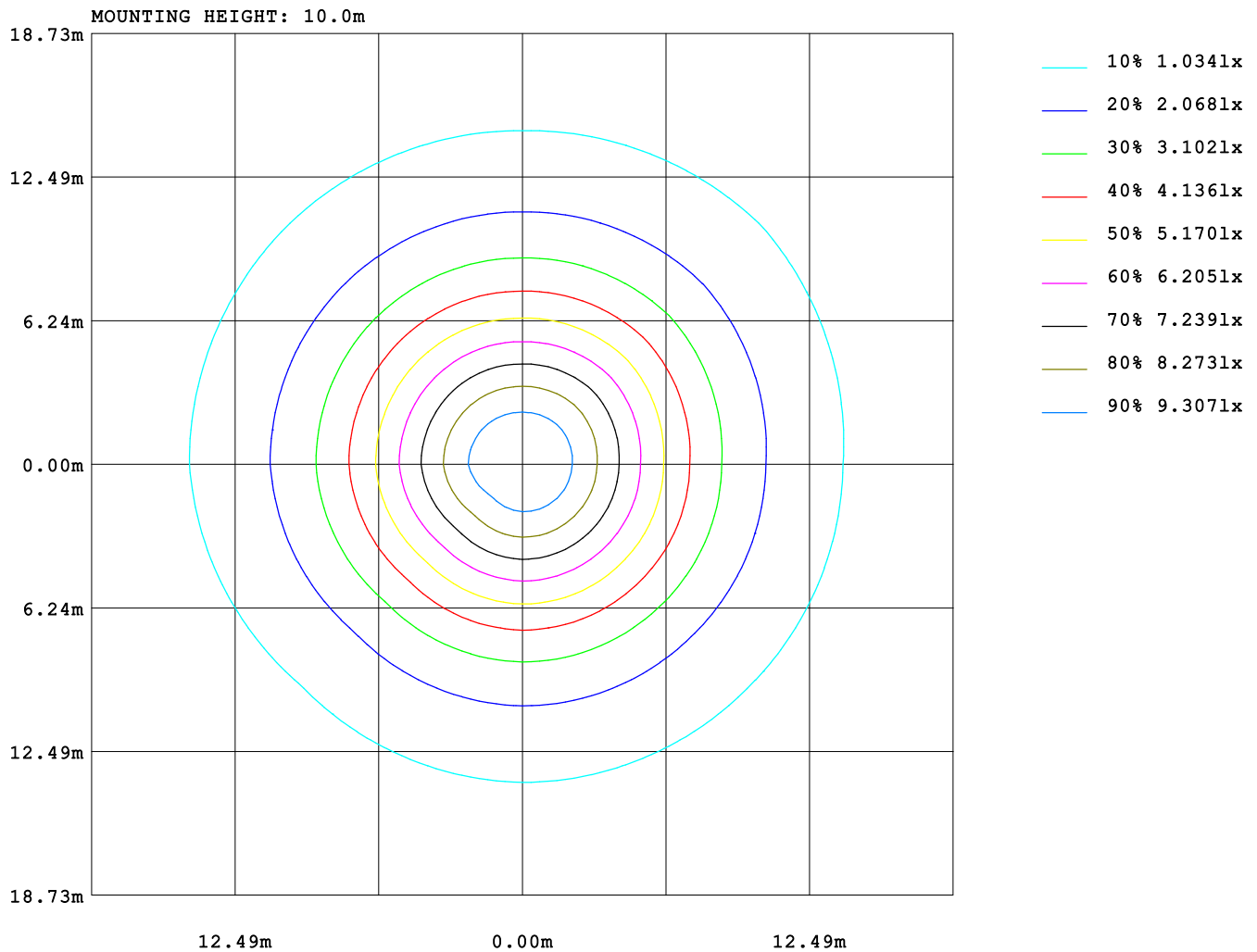
Test System:
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Operators:
Test Date: 2025-07-30

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ISOLUX DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Ida	TYPE: IL-CL18-N0253C-110	WEIGHT:
SPECIFICATION: 2835LED-3000K-110D	DIMENSION:	SERIAL No.:



Test System:
Temperature: 25.3DEG
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-N0253C-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	22.4	23.9	22.7	24.1	24.4	22.3	23.8	22.6	24.0	24.3
3H	23.9	25.3	24.3	25.6	25.9	23.8	25.2	24.1	25.5	25.8
4H	24.6	25.9	25.0	26.2	26.6	24.5	25.8	24.8	26.1	26.4
6H	25.2	26.5	25.6	26.8	27.1	25.1	26.3	25.4	26.6	27.0
8H	25.5	26.7	25.9	27.0	27.4	25.3	26.5	25.7	26.9	27.2
12H	25.8	26.9	26.2	27.3	27.7	25.6	26.8	26.0	27.1	27.5
4H 2H	22.9	24.3	23.3	24.6	24.9	22.9	24.2	23.2	24.5	24.8
3H	24.7	25.8	25.1	26.2	26.6	24.6	25.7	25.0	26.1	26.5
4H	25.5	26.6	25.9	26.9	27.3	25.4	26.4	25.8	26.8	27.2
6H	26.2	27.2	26.7	27.6	28.0	26.1	27.1	26.6	27.5	27.9
8H	26.6	27.5	27.1	27.9	28.4	26.5	27.4	26.9	27.8	28.2
12H	27.0	27.8	27.4	28.2	28.7	26.8	27.7	27.3	28.1	28.6
8H 4H	25.8	26.6	26.2	27.1	27.5	25.6	26.5	26.1	27.0	27.4
6H	26.7	27.4	27.2	27.9	28.4	26.6	27.3	27.1	27.8	28.3
8H	27.2	27.9	27.7	28.3	28.8	27.1	27.7	27.6	28.2	28.7
12H	27.7	28.3	28.2	28.8	29.3	27.6	28.2	28.1	28.7	29.2
12H 4H	25.8	26.6	26.3	27.0	27.5	25.7	26.5	26.2	26.9	27.4
6H	26.8	27.5	27.3	27.9	28.4	26.7	27.3	27.2	27.8	28.3
8H	27.3	27.9	27.9	28.4	29.0	27.2	27.8	27.8	28.3	28.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.2				

CIE Pub.117 Corrected 3153 lm Total Lamp Luminous Flux. (8log(F/F0) = 4.0)

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%
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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Ida	TYPE:IL-CL18-N0253C-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	1027	1027	1027	1027	1027	1027	1027	1027
5.0	1019	1018	1019	1015	1025	1026	1026	1029
10.0	1002	1001	1001	995	1014	1016	1015	1021
15.0	975	974	974	965	994	996	995	1005
20.0	941	938	939	927	965	967	967	979
25.0	898	894	895	882	927	931	930	945
30.0	847	843	844	828	882	887	886	903
35.0	790	783	786	768	829	835	834	853
40.0	726	719	721	703	771	779	777	797
45.0	657	649	651	632	706	715	713	735
50.0	585	573	578	557	637	647	644	666
55.0	507	497	500	481	564	576	572	595
60.0	428	416	421	402	487	500	496	519
65.0	351	336	344	323	408	422	417	440
70.0	275	262	269	251	332	346	341	364
75.0	206	189	202	181	258	272	266	288
80.0	144	130	141	124	185	204	193	218
85.0	93.9	82.9	92.7	79.1	129	143	135	155
90.0	55.6	49.3	55.9	47.1	81.8	94.1	85.6	103
95.0	29.8	28.9	31.0	27.1	47.3	58.5	48.0	65.8
100.0	18.5	16.6	18.3	15.8	24.1	36.4	23.1	42.2
105.0	13.3	10.3	13.4	10.1	12.8	22.4	13.0	26.1
110.0	10.6	7.88	10.8	7.75	8.34	15.1	7.01	17.3
115.0	8.63	5.88	9.01	5.74	6.35	11.3	6.21	13.0
120.0	8.24	5.38	8.51	5.33	5.75	9.08	5.51	10.1
125.0	7.84	5.38	8.01	5.33	5.75	8.48	5.51	8.46
130.0	7.74	5.48	7.71	5.33	5.85	8.18	5.51	8.15
135.0	7.54	5.48	7.51	5.43	6.05	7.98	5.51	7.85
140.0	7.44	5.48	7.41	5.74	6.25	7.78	5.61	7.65
145.0	7.44	5.78	7.41	5.94	6.35	7.68	5.71	7.45
150.0	7.54	5.98	7.51	6.24	6.55	7.58	5.91	7.45
155.0	7.54	6.38	7.61	6.54	6.65	7.48	6.01	7.45
160.0	7.64	6.48	7.61	6.24	6.85	7.58	6.21	7.55
165.0	7.74	6.48	7.71	6.44	7.04	7.58	6.41	7.55
170.0	7.74	6.58	7.71	6.64	7.14	7.58	6.61	7.65
175.0	7.74	6.68	7.71	6.64	7.24	7.58	6.71	7.65
180.0	7.64	6.78	7.61	6.84	7.64	7.58	7.01	7.55

Test System:
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Operators:
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Remarks: