

LUMINAIRE PHOTOMETRIC TEST REPORT

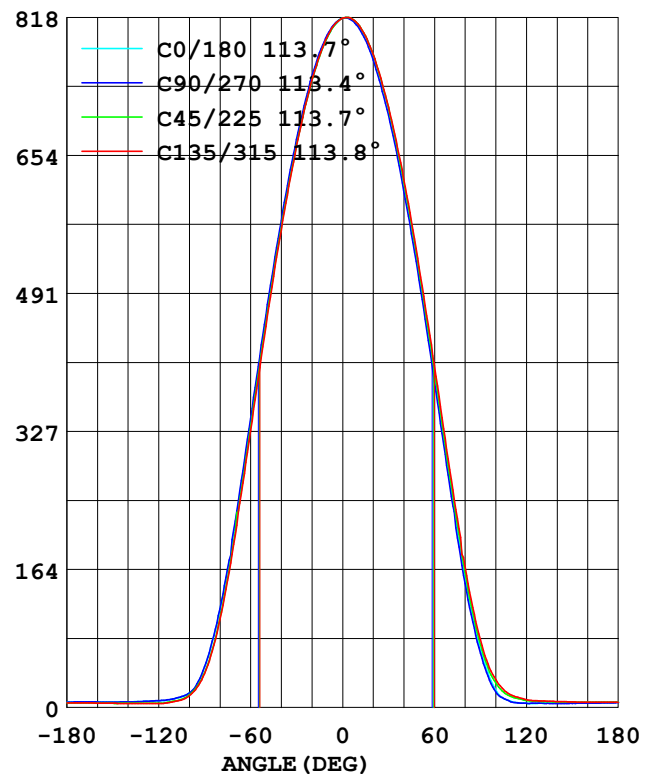
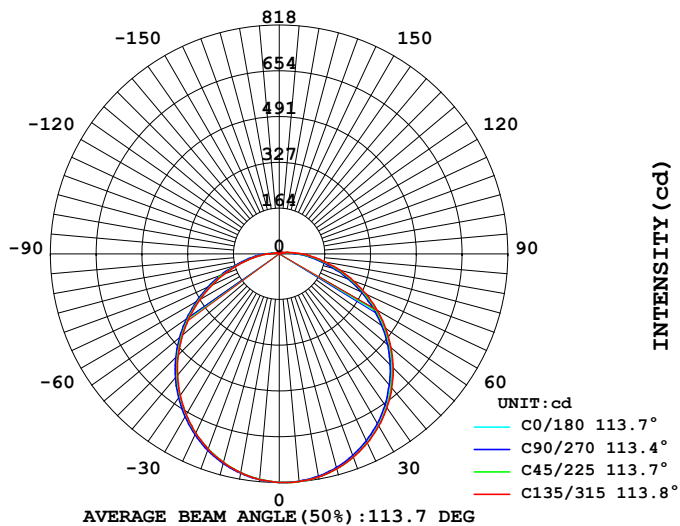
Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Ida	TYPE: IL-CL18-N0203C-110	WEIGHT:
SPECIFICATION: 2835LED-2700K-110D	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	818.0	S/MH (C0/180)	1.22
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.23
NOMINAL POWER(W)	22	TOTAL FLUX(lm)	2516.5	Voltage(V)	231.3
RATED VOLTAGE (V)	232	EFFICIENCY (lm/W)	118.9	Current(A)	0.113
NOMINAL FLUX(lm)	2516.6	η up (%)	3.2	Power(W)	21.17
LAMPS QUANTITY	1	η down (%)	96.8	Power Factor (PF)	0.808
TEST VOLTAGE (V)	231.4	Effective Flux(lm)	0.0	EEI	0.000

LUMINOUS INTENSITY DISTRIBUTION

LUMINOUS INTENSITY DISTRIBUTION



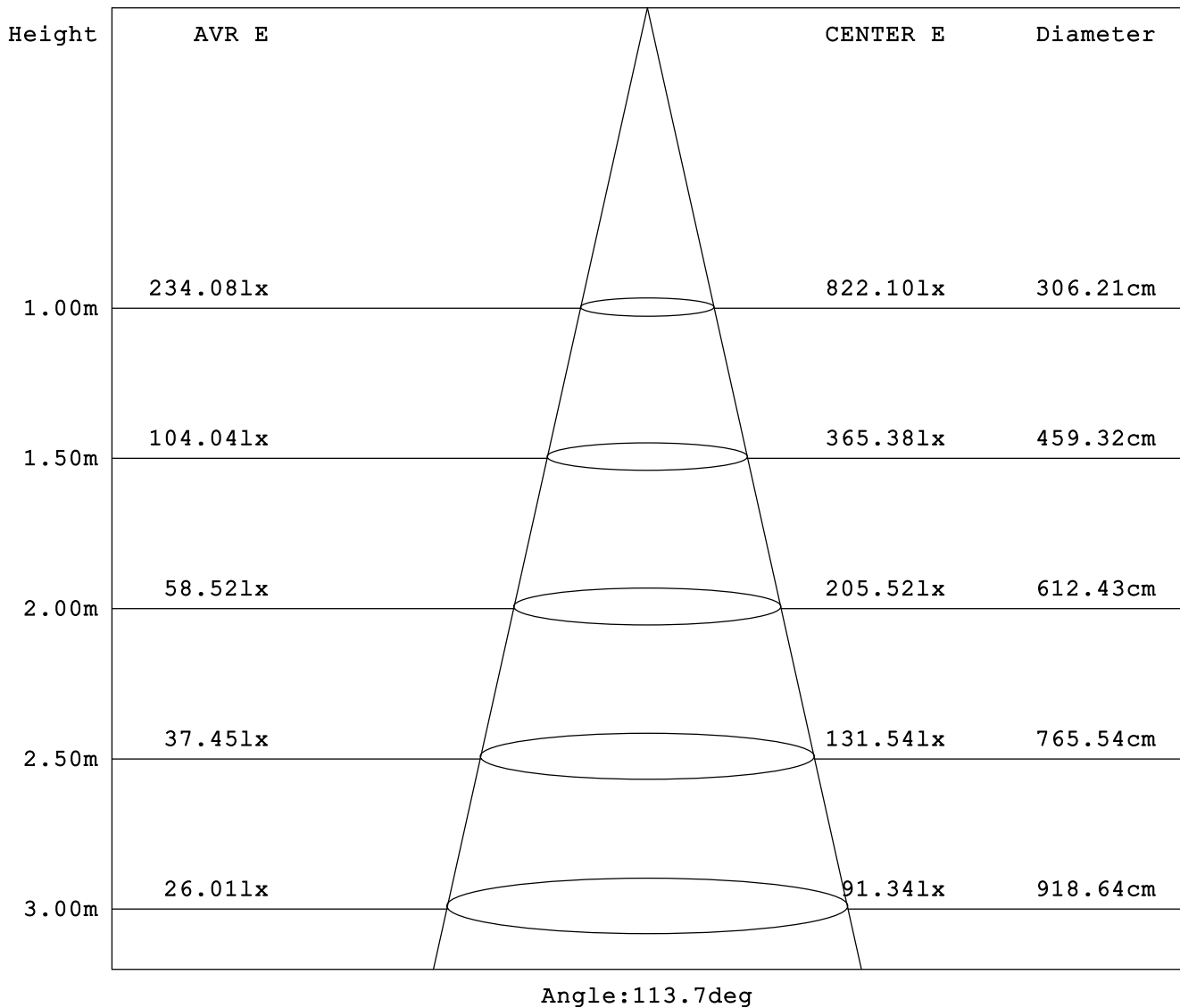
Test System:
Temperature: 25.3 DEG
Operators:
Test Date: 2025-07-30

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

AVERAGE AND CENTER E Figure

Report number:

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ZONAL FLUX DIAGRAM

Report number:

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NAME: Ida	TYPE: IL-CL18-N0203C-110	WEIGHT:
SPECIFICATION: 2835LED-2700K-110D	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	809.2	809.2	810.5	810.0	817.0	817.3	815.7	817.3	0- 5	19.48	19.48
10.0	793.8	793.7	796.8	794.3	809.7	810.1	807.1	810.2	5- 10	57.78	77.27
15.0	773.0	771.3	776.1	771.9	794.2	795.7	790.9	795.9	10- 15	94.06	171.3
20.0	743.0	742.6	747.9	743.0	773.4	773.9	767.4	774.1	15- 20	127.0	298.4
25.0	707.8	707.2	713.1	706.9	743.5	744.9	737.3	745.7	20- 25	155.6	454.0
30.0	667.8	666.6	673.4	665.3	708.7	710.4	701.8	711.5	25- 30	178.9	632.9
35.0	621.7	619.9	627.5	617.8	668.0	669.3	660.5	671.8	30- 35	196.2	829.1
40.0	571.3	568.6	576.9	565.7	620.2	622.8	612.6	626.1	35- 40	206.9	1036
45.0	517.4	514.5	523.4	510.9	569.0	573.1	561.3	577.0	40- 45	210.8	1247
50.0	460.1	456.0	465.1	451.8	514.3	517.7	506.8	521.9	45- 50	208.0	1455
55.0	399.4	394.2	403.8	389.7	454.8	459.1	447.6	464.0	50- 55	198.6	1654
60.0	338.9	333.0	342.9	328.2	393.0	399.1	386.2	405.3	55- 60	183.1	1837
65.0	277.1	270.3	280.7	266.1	331.4	336.6	324.7	343.4	60- 65	162.6	1999
70.0	217.9	207.3	221.0	203.8	268.9	274.6	262.6	281.5	65- 70	138.3	2138
75.0	162.7	153.5	164.8	150.7	206.7	216.8	200.8	223.9	70- 75	111.5	2249
80.0	115.7	106.1	116.8	104.2	152.5	159.7	146.9	166.7	75- 80	84.78	2334
85.0	78.01	67.95	78.60	66.67	106.2	112.3	101.3	118.7	80- 85	60.67	2395
90.0	47.99	41.17	48.46	40.12	68.27	74.75	64.28	80.34	85- 90	40.50	2435
95.0	27.03	24.98	27.73	23.73	40.64	46.76	37.14	51.38	90- 95	25.08	2460
100.0	17.09	14.99	17.02	13.87	20.76	29.08	18.22	33.08	95-100	14.70	2475
105.0	12.72	9.793	12.91	9.050	10.93	18.58	10.71	21.41	100-105	8.810	2484
110.0	10.33	7.595	10.61	7.039	7.552	12.99	6.608	14.88	105-110	5.921	2490
115.0	8.447	5.796	8.911	5.329	5.664	10.29	5.507	11.76	110-115	4.364	2494
120.0	7.950	5.296	8.210	4.827	4.968	8.294	5.006	9.352	115-120	3.474	2498
125.0	7.453	5.196	7.610	4.726	4.869	7.495	5.006	8.246	120-125	2.997	2501
130.0	7.155	5.096	7.209	4.726	4.968	7.195	5.006	7.743	125-130	2.709	2503
135.0	6.856	5.096	6.808	4.726	4.968	6.895	4.906	7.441	130-135	2.443	2506
140.0	6.658	4.996	6.608	4.827	5.167	6.695	4.906	7.139	135-140	2.193	2508
145.0	6.459	4.996	6.508	4.927	5.266	6.495	4.906	6.838	140-145	1.946	2510
150.0	6.459	4.996	6.408	5.028	5.366	6.395	4.906	6.637	145-150	1.700	2512
155.0	6.459	5.196	6.408	5.229	5.465	6.395	5.006	6.436	150-155	1.465	2513
160.0	6.459	5.296	6.508	5.229	5.565	6.395	5.106	6.436	155-160	1.224	2514
165.0	6.459	5.396	6.508	5.329	5.763	6.395	5.306	6.335	160-165	0.973	2515
170.0	6.558	5.396	6.508	5.430	5.863	6.395	5.407	6.335	165-170	0.707	2516
175.0	6.459	5.496	6.508	5.530	6.061	6.295	5.507	6.436	170-175	0.431	2516
180.0	6.360	5.596	6.408	5.631	6.360	6.295	5.807	6.335	175-180	0.145	2517
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

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

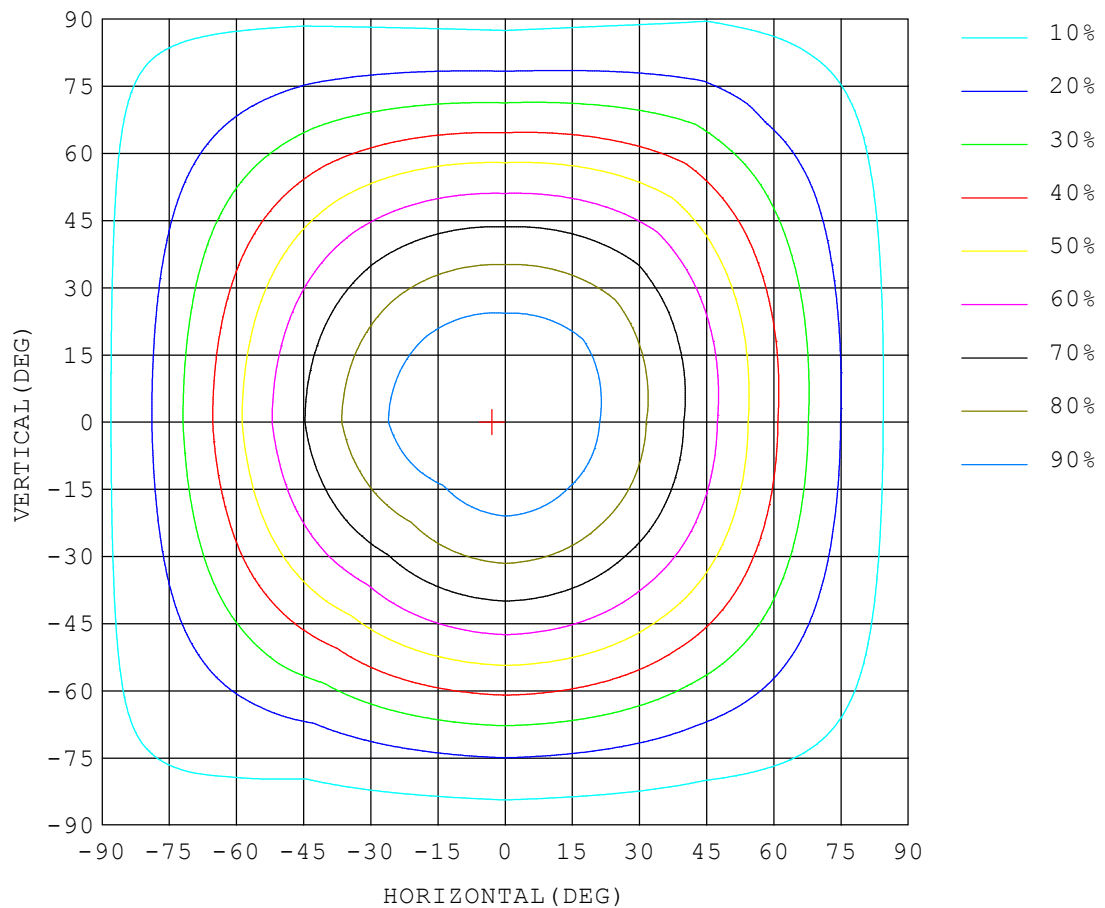
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Ida	TYPE: IL-CL18-N0203C-110	WEIGHT:
SPECIFICATION: 2835LED-2700K-110D	DIMENSION:	SERIAL No.:

UNIT: cd



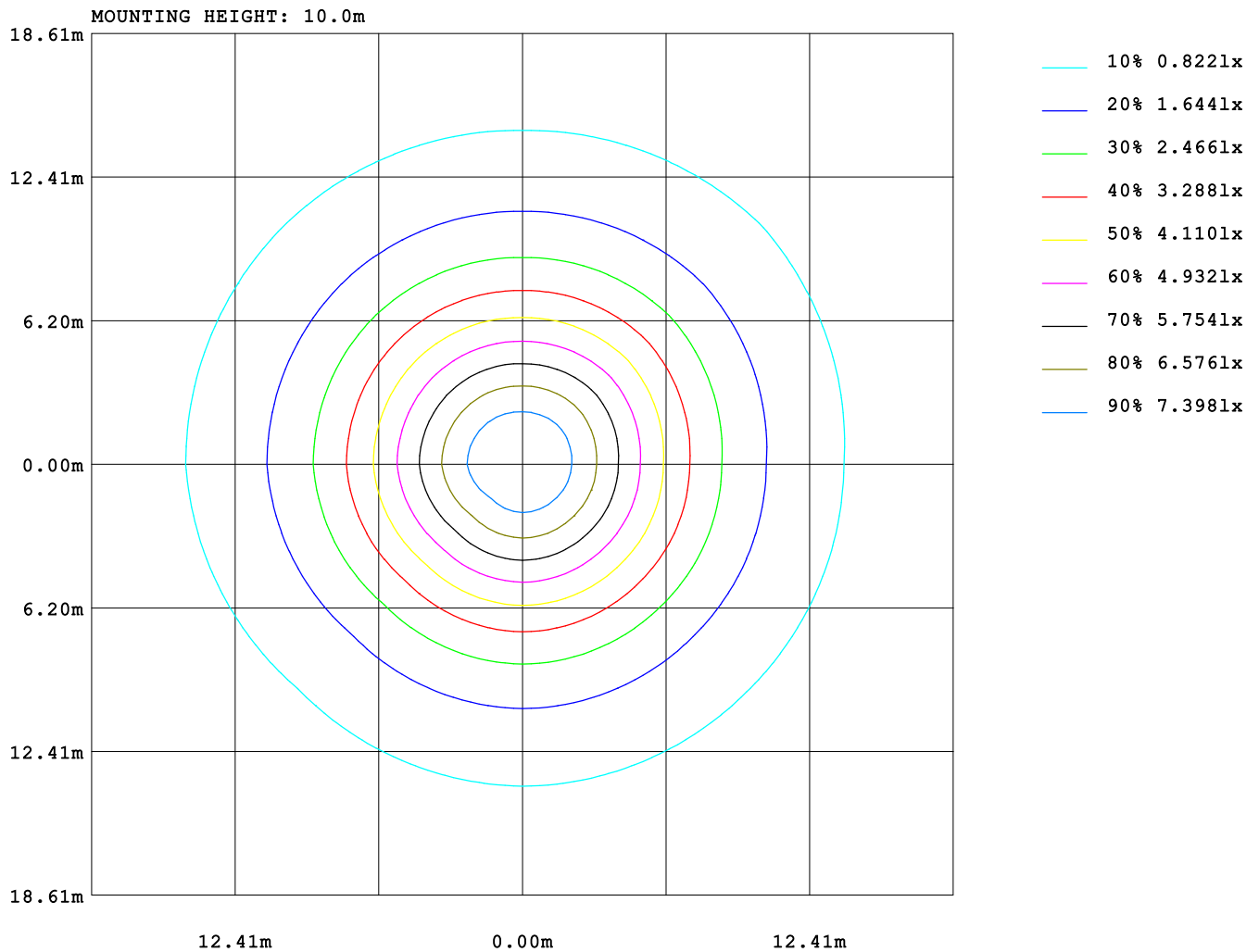
Test System:
Temperature: 25.3 DEG
Operators:
Test Date: 2025-07-30

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

ISOLUX DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Ida	TYPE: IL-CL18-N0203C-110	WEIGHT:
SPECIFICATION: 2835LED-2700K-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%
Test Distance: 10.000 m
Remarks:

Uncorrected UGR Table

Report number:

MANUFACTURER: ILUMEN GMBH					Address:						
NAME: Ida					TYPE: IL-CL18-N0203C-110			WEIGHT:			
SPECIFICATION: 2835LED-2700K-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	21.5	23.0	21.8	23.3	23.6	21.5	23.0	21.9	23.3	23.6	
3H	23.1	24.5	23.4	24.8	25.1	23.1	24.5	23.5	24.8	25.1	
4H	23.8	25.1	24.1	25.4	25.7	23.8	25.1	24.1	25.4	25.7	
6H	24.4	25.6	24.8	26.0	26.3	24.4	25.6	24.8	26.0	26.3	
8H	24.7	25.9	25.1	26.2	26.6	24.7	25.9	25.1	26.2	26.6	
12H	25.0	26.1	25.4	26.5	26.9	25.0	26.2	25.4	26.5	26.9	
4H	2H	22.1	23.4	22.5	23.7	24.1	22.1	23.4	22.5	23.8	24.1
	3H	23.8	25.0	24.2	25.4	25.7	23.9	25.0	24.3	25.4	25.8
	4H	24.7	25.7	25.1	26.1	26.5	24.7	25.7	25.1	26.1	26.5
	6H	25.4	26.4	25.9	26.8	27.2	25.4	26.4	25.9	26.8	27.2
	8H	25.8	26.7	26.3	27.1	27.6	25.8	26.7	26.3	27.1	27.6
12H	26.2	27.0	26.7	27.5	27.9	26.2	27.0	26.7	27.5	28.0	
8H	4H	24.9	25.8	25.4	26.3	26.7	25.0	25.8	25.4	26.3	26.7
	6H	25.9	26.7	26.4	27.1	27.6	25.9	26.7	26.4	27.1	27.6
	8H	26.4	27.1	26.9	27.6	28.1	26.4	27.1	26.9	27.6	28.1
	12H	27.0	27.5	27.5	28.1	28.6	27.0	27.6	27.5	28.1	28.6
12H	4H	25.0	25.8	25.4	26.2	26.7	25.0	25.8	25.5	26.2	26.7
	6H	26.0	26.7	26.5	27.1	27.7	26.0	26.7	26.5	27.2	27.7
	8H	26.6	27.2	27.1	27.7	28.2	26.6	27.2	27.1	27.7	28.2
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 2517 lm Total Lamp Luminous Flux. (8log(F/F0) = 3.2)

Test System:
Temperature: 25.3 DEG
Operators:
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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-N0203C-110	WEIGHT:
SPECIFICATION: 2835LED-2700K-110D	DIMENSION:	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315
0.0	817	817	817	817	817	817	817	817
5.0	809	809	811	810	817	817	816	817
10.0	794	794	797	794	810	810	807	810
15.0	773	771	776	772	794	796	791	796
20.0	743	743	748	743	773	774	767	774
25.0	708	707	713	707	744	745	737	746
30.0	668	667	673	665	709	710	702	712
35.0	622	620	628	618	668	669	661	672
40.0	571	569	577	566	620	623	613	626
45.0	517	515	523	511	569	573	561	577
50.0	460	456	465	452	514	518	507	522
55.0	399	394	404	390	455	459	448	464
60.0	339	333	343	328	393	399	386	405
65.0	277	270	281	266	331	337	325	343
70.0	218	207	221	204	269	275	263	282
75.0	163	154	165	151	207	217	201	224
80.0	116	106	117	104	153	160	147	167
85.0	78.0	67.9	78.6	66.6	106	112	101	119
90.0	47.9	41.1	48.4	40.1	68.2	74.7	64.2	80.3
95.0	27.0	24.9	27.7	23.7	40.6	46.7	37.1	51.3
100.0	17.0	14.9	17.0	13.8	20.7	29.0	18.2	33.0
105.0	12.7	9.79	12.9	9.05	10.9	18.5	10.7	21.4
110.0	10.3	7.59	10.6	7.03	7.55	12.9	6.60	14.8
115.0	8.44	5.79	8.91	5.32	5.66	10.2	5.50	11.7
120.0	7.95	5.29	8.21	4.82	4.96	8.29	5.00	9.35
125.0	7.45	5.19	7.61	4.72	4.86	7.49	5.00	8.24
130.0	7.15	5.09	7.20	4.72	4.96	7.19	5.00	7.74
135.0	6.85	5.09	6.80	4.72	4.96	6.89	4.90	7.44
140.0	6.65	4.99	6.60	4.82	5.16	6.69	4.90	7.13
145.0	6.45	4.99	6.50	4.92	5.26	6.49	4.90	6.83
150.0	6.45	4.99	6.40	5.02	5.36	6.39	4.90	6.63
155.0	6.45	5.19	6.40	5.22	5.46	6.39	5.00	6.43
160.0	6.45	5.29	6.50	5.22	5.56	6.39	5.10	6.43
165.0	6.45	5.39	6.50	5.32	5.76	6.39	5.30	6.33
170.0	6.55	5.39	6.50	5.43	5.86	6.39	5.40	6.33
175.0	6.45	5.49	6.50	5.53	6.06	6.29	5.50	6.43
180.0	6.36	5.59	6.40	5.63	6.36	6.29	5.80	6.33

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