

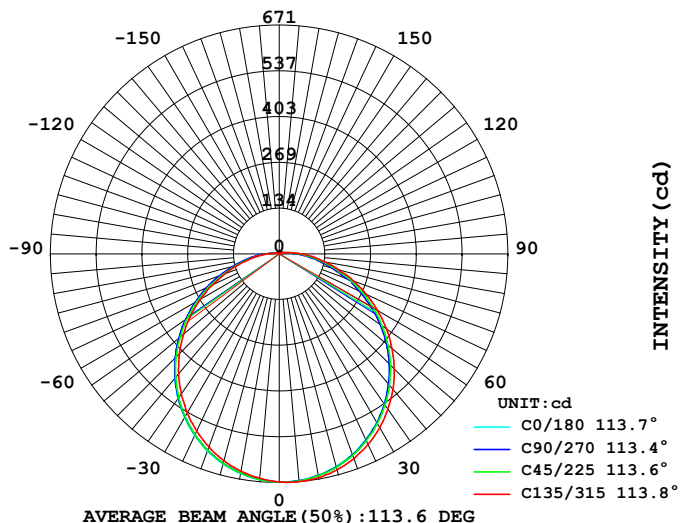
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

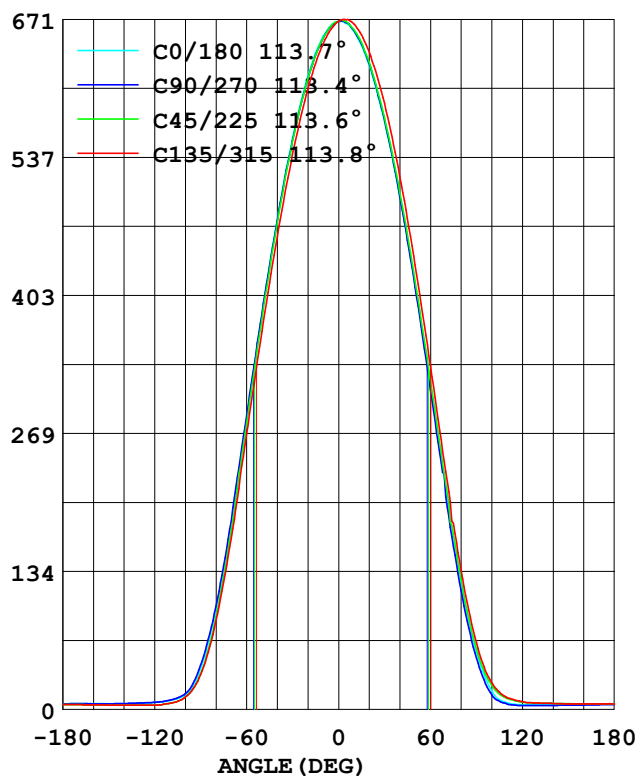
MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Ida	TYPE: IL-CL18-N0163C-110	WEIGHT:
SPECIFICATION: 2835LED-2700K-110D	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	671.4	S/MH (C0/180)	1.24
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.23
NOMINAL POWER(W)	16	TOTAL FLUX(lm)	2061.2	Voltage(V)	231.5
RATED VOLTAGE (V)	232	EFFICIENCY (lm/W)	123.1	Current(A)	0.091
NOMINAL FLUX(lm)	2061.2	η up (%)	3.3	Power(W)	16.75
LAMPS QUANTITY	1	η down (%)	96.7	Power Factor (PF)	0.793
TEST VOLTAGE (V)	231.5	Effective Flux(lm)	2061.2	EEI	0.122

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



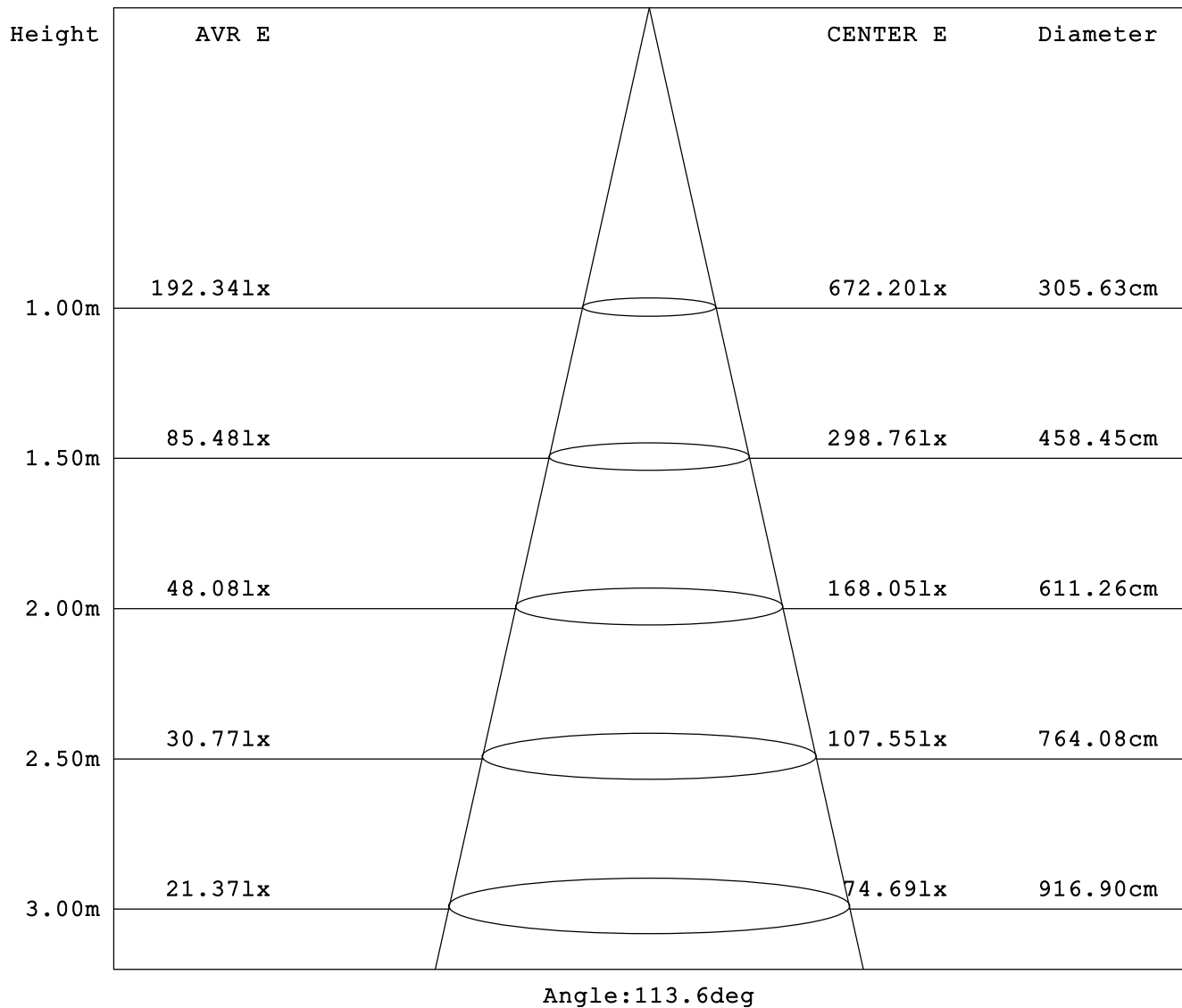
Test System:
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2025-07-30

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:
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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-2700K-110D	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	665.1	664.7	664.0	661.6	667.4	669.1	667.9	670.9	0- 5	15.97	15.97
10.0	654.9	653.1	652.8	647.5	659.8	661.5	660.5	666.8	5- 10	47.34	63.32
15.0	638.4	636.1	636.3	628.1	645.7	648.9	647.2	656.4	10- 15	77.07	140.3
20.0	615.9	613.2	613.4	603.4	626.7	629.7	628.3	639.7	15- 20	104.1	244.5
25.0	587.9	585.3	585.2	573.7	601.0	604.4	602.9	616.8	20- 25	127.5	372.0
30.0	555.6	552.5	553.5	540.1	571.6	575.5	573.2	589.7	25- 30	146.6	518.7
35.0	518.2	515.0	516.2	501.5	537.9	541.3	538.8	556.4	30- 35	160.7	679.5
40.0	476.6	472.5	475.6	459.5	499.4	503.5	499.3	518.7	35- 40	169.5	849.0
45.0	432.5	428.0	432.2	415.1	457.2	462.5	456.3	477.6	40- 45	172.7	1022
50.0	384.3	379.9	384.8	367.5	413.0	416.9	410.7	432.3	45- 50	170.4	1192
55.0	333.9	329.4	335.6	317.6	365.5	369.0	361.7	384.1	50- 55	162.7	1355
60.0	283.5	278.7	285.8	268.2	315.8	320.4	310.8	334.4	55- 60	150.0	1505
65.0	232.2	229.7	235.2	215.1	266.5	269.7	260.2	282.5	60- 65	133.2	1638
70.0	180.6	174.1	182.9	166.5	213.7	219.6	206.7	231.3	65- 70	112.9	1751
75.0	136.0	129.4	139.6	123.8	165.3	170.2	158.4	181.1	70- 75	90.47	1842
80.0	96.69	89.93	100.1	86.18	122.1	126.4	115.6	135.7	75- 80	69.15	1911
85.0	65.02	57.75	68.43	55.64	85.24	88.53	79.23	96.43	80- 85	49.56	1960
90.0	39.73	34.27	43.11	33.65	55.36	59.15	49.92	65.19	85- 90	33.09	1994
95.0	22.30	20.08	25.21	19.88	33.65	37.37	28.71	41.48	90- 95	20.50	2014
100.0	14.14	12.09	15.30	11.95	17.82	23.48	14.10	26.11	95-100	12.07	2026
105.0	10.75	7.894	11.40	7.935	9.460	15.18	8.003	16.87	100-105	7.252	2033
110.0	8.763	6.095	9.204	6.127	6.572	10.89	5.302	11.75	105-110	4.892	2038
115.0	7.269	4.796	7.703	4.721	5.078	8.693	4.301	9.341	110-115	3.662	2042
120.0	6.871	4.196	7.003	4.319	4.580	7.094	3.801	7.533	115-120	2.930	2045
125.0	6.373	4.096	6.602	4.319	4.580	6.595	3.801	6.730	120-125	2.546	2047
130.0	6.174	4.096	6.302	4.319	4.680	6.295	3.901	6.328	125-130	2.320	2050
135.0	5.875	4.096	6.102	4.319	4.680	6.095	4.001	6.127	130-135	2.108	2052
140.0	5.775	4.096	5.902	4.319	4.680	5.995	4.001	5.826	135-140	1.893	2054
145.0	5.676	4.096	5.702	4.319	4.680	5.795	4.101	5.625	140-145	1.677	2055
150.0	5.676	4.196	5.602	4.319	4.780	5.695	4.201	5.524	145-150	1.469	2057
155.0	5.676	4.396	5.602	4.419	4.879	5.595	4.201	5.424	150-155	1.266	2058
160.0	5.676	4.496	5.602	4.520	4.979	5.495	4.301	5.524	155-160	1.058	2059
165.0	5.775	4.596	5.702	4.620	5.078	5.595	4.502	5.524	160-165	0.844	2060
170.0	5.775	4.696	5.702	4.721	5.277	5.595	4.602	5.524	165-170	0.618	2061
175.0	5.676	4.796	5.702	4.821	5.377	5.595	4.802	5.524	170-175	0.377	2061
180.0	5.576	4.896	5.502	4.821	5.676	5.495	4.902	5.524	175-180	0.126	2061
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

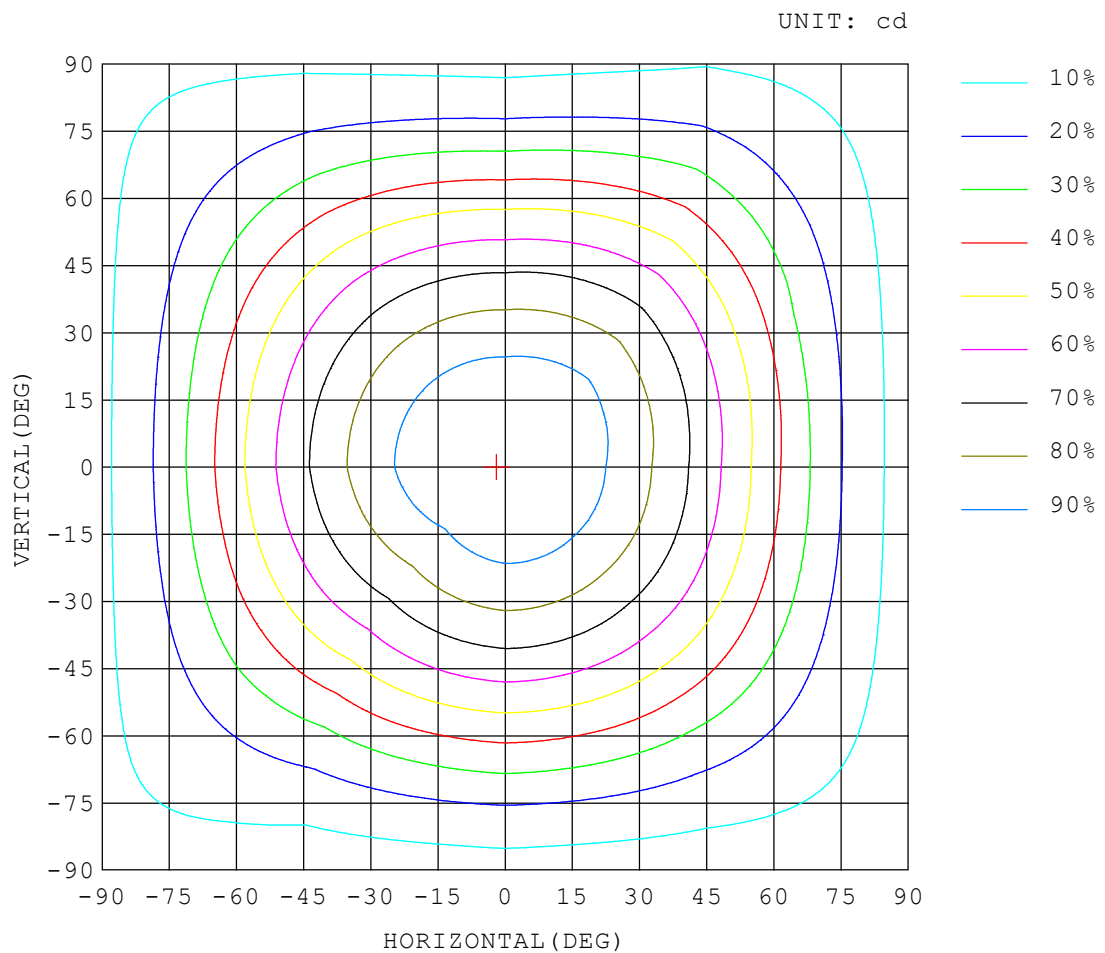
Test System:
Temperature:25.3DEG
Operators:
Test Date:2025-07-30

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-2700K-110D	DIMENSION:	SERIAL No.:



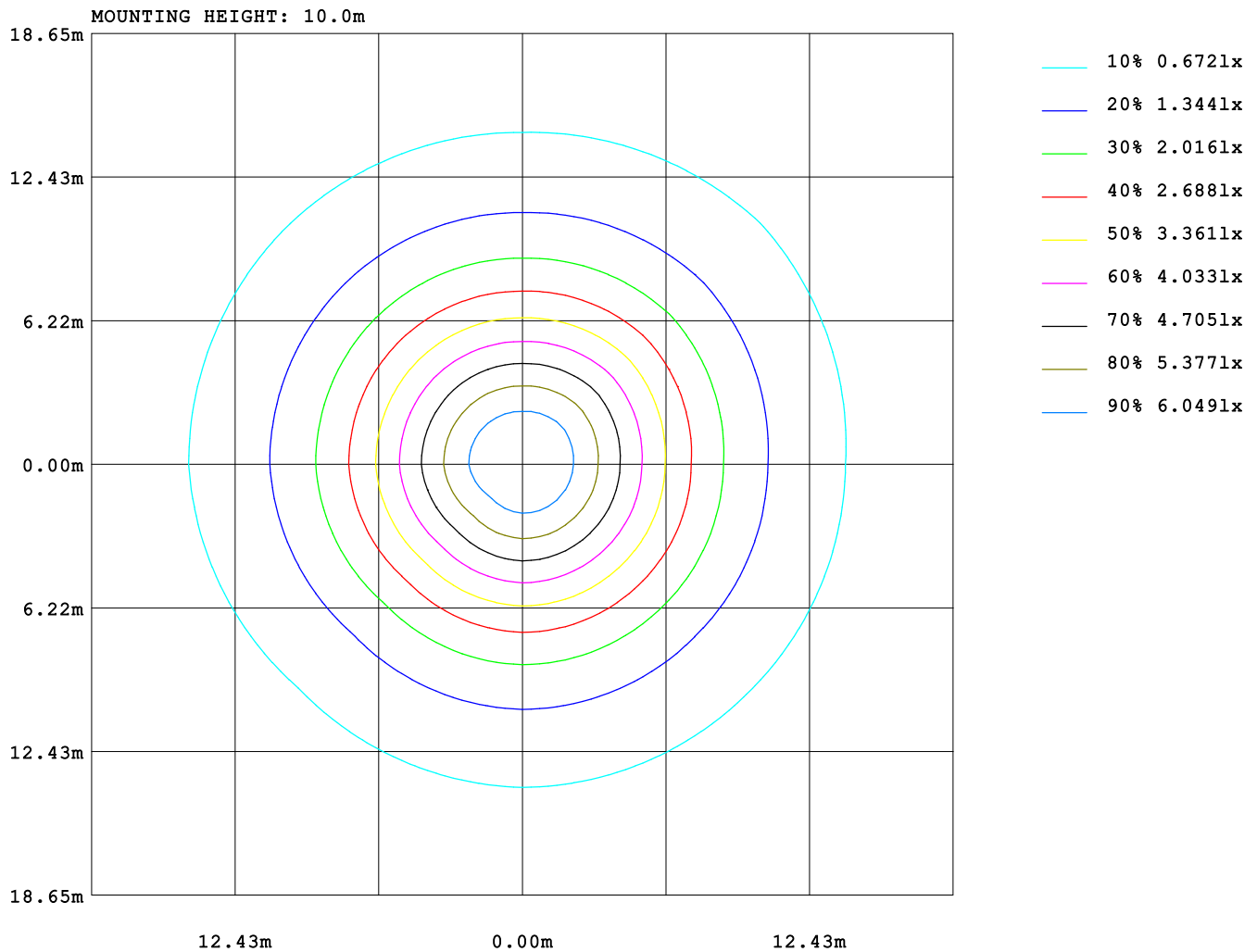
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Temperature: 25.3 DEG
Operators:
Test Date: 2025-07-30

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

ISOLUX DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Ida	TYPE: IL-CL18-N0163C-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-N0163C-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	21.0	22.5	21.3	22.7	23.0	21.0	22.5	21.3	22.7	23.0
3H	22.5	23.9	22.9	24.2	24.5	22.5	23.9	22.9	24.2	24.5
4H	23.2	24.5	23.6	24.8	25.2	23.2	24.6	23.6	24.9	25.2
6H	23.8	25.1	24.2	25.4	25.8	23.9	25.1	24.3	25.5	25.8
8H	24.1	25.3	24.5	25.7	26.0	24.2	25.4	24.6	25.7	26.1
12H	24.4	25.6	24.8	25.9	26.3	24.5	25.7	24.9	26.0	26.4
4H 2H	21.5	22.9	21.9	23.2	23.5	21.5	22.9	21.9	23.2	23.5
3H	23.3	24.4	23.7	24.8	25.2	23.3	24.5	23.7	24.8	25.2
4H	24.1	25.2	24.5	25.5	26.0	24.1	25.2	24.6	25.6	26.0
6H	24.9	25.8	25.3	26.2	26.7	24.9	25.9	25.4	26.3	26.7
8H	25.3	26.1	25.7	26.6	27.0	25.3	26.2	25.8	26.7	27.1
12H	25.6	26.5	26.1	26.9	27.4	25.8	26.6	26.2	27.0	27.5
8H 4H	24.4	25.3	24.9	25.7	26.2	24.4	25.3	24.9	25.7	26.2
6H	25.4	26.1	25.9	26.6	27.1	25.4	26.2	25.9	26.6	27.1
8H	25.9	26.5	26.4	27.0	27.5	25.9	26.6	26.5	27.1	27.6
12H	26.4	27.0	27.0	27.5	28.1	26.5	27.1	27.1	27.6	28.2
12H 4H	24.4	25.2	24.9	25.7	26.2	24.5	25.3	24.9	25.7	26.2
6H	25.5	26.1	26.0	26.6	27.1	25.5	26.2	26.0	26.7	27.2
8H	26.0	26.6	26.6	27.1	27.7	26.1	26.7	26.6	27.2	27.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 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 2061 lm Total Lamp Luminous Flux. (8log(F/F0) = 2.5)

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Ida	TYPE: IL-CL18-N0163C-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	669	669	669	669	669	669	669	669
5.0	665	665	664	662	667	669	668	671
10.0	655	653	653	648	660	662	661	667
15.0	638	636	636	628	646	649	647	656
20.0	616	613	613	603	627	630	628	640
25.0	588	585	585	574	601	604	603	617
30.0	556	553	554	540	572	576	573	590
35.0	518	515	516	502	538	541	539	556
40.0	477	473	476	460	499	504	499	519
45.0	433	428	432	415	457	463	456	478
50.0	384	380	385	368	413	417	411	432
55.0	334	329	336	318	366	369	362	384
60.0	284	279	286	268	316	320	311	334
65.0	232	230	235	215	267	270	260	283
70.0	181	174	183	167	214	220	207	231
75.0	136	129	140	124	165	170	158	181
80.0	96.6	89.9	100	86.1	122	126	116	136
85.0	65.0	57.7	68.4	55.6	85.2	88.5	79.2	96.4
90.0	39.7	34.2	43.1	33.6	55.3	59.1	49.9	65.1
95.0	22.3	20.0	25.2	19.8	33.6	37.3	28.7	41.4
100.0	14.1	12.0	15.3	11.9	17.8	23.4	14.1	26.1
105.0	10.7	7.89	11.4	7.93	9.46	15.1	8.00	16.8
110.0	8.76	6.09	9.20	6.12	6.57	10.8	5.30	11.7
115.0	7.26	4.79	7.70	4.72	5.07	8.69	4.30	9.34
120.0	6.87	4.19	7.00	4.31	4.58	7.09	3.80	7.53
125.0	6.37	4.09	6.60	4.31	4.58	6.59	3.80	6.73
130.0	6.17	4.09	6.30	4.31	4.68	6.29	3.90	6.32
135.0	5.87	4.09	6.10	4.31	4.68	6.09	4.00	6.12
140.0	5.77	4.09	5.90	4.31	4.68	5.99	4.00	5.82
145.0	5.67	4.09	5.70	4.31	4.68	5.79	4.10	5.62
150.0	5.67	4.19	5.60	4.31	4.78	5.69	4.20	5.52
155.0	5.67	4.39	5.60	4.41	4.87	5.59	4.20	5.42
160.0	5.67	4.49	5.60	4.52	4.97	5.49	4.30	5.52
165.0	5.77	4.59	5.70	4.62	5.07	5.59	4.50	5.52
170.0	5.77	4.69	5.70	4.72	5.27	5.59	4.60	5.52
175.0	5.67	4.79	5.70	4.82	5.37	5.59	4.80	5.52
180.0	5.57	4.89	5.50	4.82	5.67	5.49	4.90	5.52

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