

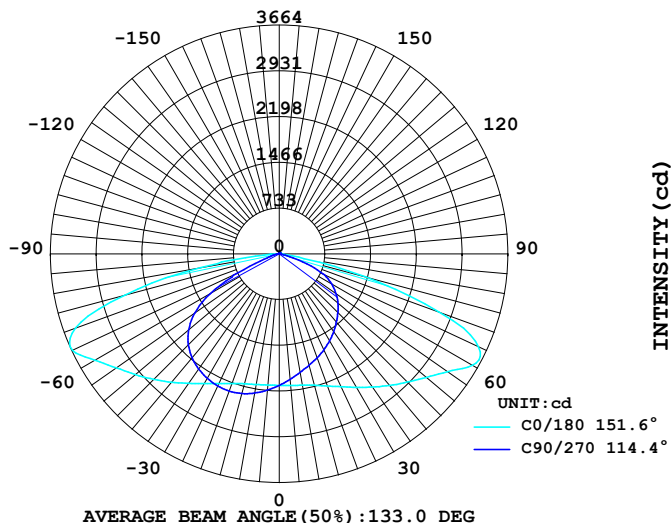
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

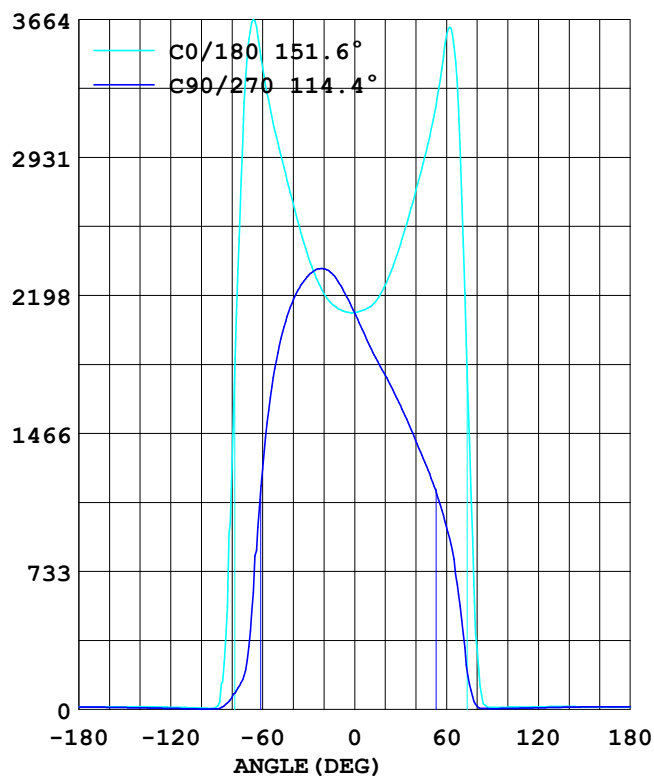
MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE: IL-ST11-D06040-TY2	WEIGHT:
SPECIFICATION: 5050LED 4000K Type II	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	3664	S/MH (C0/180)	1.92
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.60
NOMINAL POWER(W)	60	TOTAL FLUX(lm)	9021.0	Voltage(V)	230.5
RATED VOLTAGE (V)	230	EFFICIENCY (lm/W)	148.4	Current(A)	0.264
NOMINAL FLUX(lm)	9021.0	η up (%)	0.7	Power(W)	60.79
LAMPS QUANTITY	1	η down (%)	99.3	Power Factor (PF)	0.996
TEST VOLTAGE (V)	230.5	Effective Flux(lm)	9021.0	EEI	0.101

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



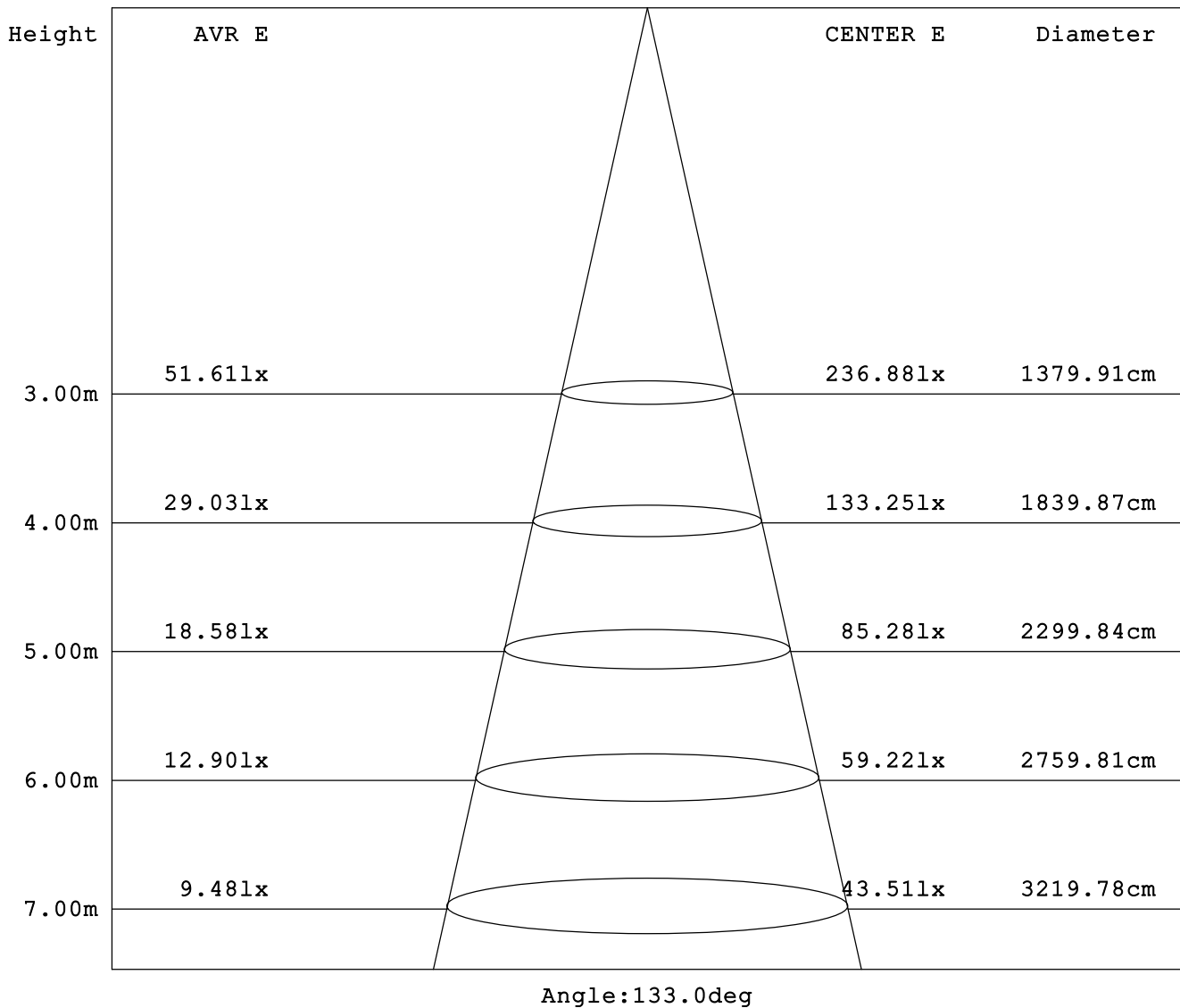
Test System:
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2025.03.22

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: Muller	TYPE:IL-ST11-D06040-TY2	WEIGHT:
SPECIFICATION:5050LED 4000K Type II	DIMENSION:	SERIAL No.:



Test System:
Temperature:25.3DEG
Operators:
Test Date:2025.03.22

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

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE: IL-ST11-D06040-TY2	WEIGHT:
SPECIFICATION: 5050LED 4000K Type II	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	2110	2170	2190	2167	2118	2051	2018	2054	0- 5	50.42	50.42
10.0	2125	2229	2263	2221	2137	1995	1928	2003	5- 10	151.0	201.5
15.0	2155	2285	2318	2268	2180	1941	1850	1949	10- 15	251.0	452.5
20.0	2209	2340	2340	2307	2253	1892	1775	1899	15- 20	349.8	802.3
25.0	2293	2392	2336	2335	2350	1845	1697	1850	20- 25	447.3	1250
30.0	2400	2432	2304	2354	2470	1792	1613	1792	25- 30	542.3	1792
35.0	2533	2462	2252	2360	2606	1738	1523	1734	30- 35	633.5	2426
40.0	2684	2469	2174	2351	2753	1670	1426	1663	35- 40	718.8	3145
45.0	2845	2445	2059	2319	2904	1584	1331	1577	40- 45	794.7	3939
50.0	3007	2376	1895	2237	3079	1478	1229	1470	45- 50	855.8	4795
55.0	3188	2233	1655	2067	3294	1351	1111	1329	50- 55	895.8	5691
60.0	3409	1968	1277	1790	3573	1189	971.3	1158	55- 60	908.4	6599
65.0	3655	1485	816.0	1291	3518	964.5	798.6	924.5	60- 65	875.8	7475
70.0	3471	654.4	262.2	551.3	2716	621.0	472.7	587.7	65- 70	733.5	8209
75.0	2557	189.9	127.4	176.0	1440	254.2	135.5	229.0	70- 75	469.4	8678
80.0	1282	105.5	63.10	94.41	322.1	53.94	17.42	51.80	75- 80	209.1	8887
85.0	247.3	40.64	20.30	38.70	24.71	12.01	5.456	11.27	80- 85	61.13	8949
90.0	13.78	10.08	3.829	9.593	10.82	3.282	4.948	3.130	85- 90	11.02	8960
95.0	6.495	6.633	2.847	6.193	11.25	4.365	5.117	4.274	90- 95	3.448	8963
100.0	7.960	6.565	3.084	5.991	11.99	5.618	5.660	5.621	95-100	3.383	8966
105.0	9.259	7.039	3.796	6.361	12.69	6.802	6.405	6.933	100-105	3.732	8970
110.0	10.29	7.716	4.541	6.900	13.22	7.919	7.320	8.112	105-110	4.087	8974
115.0	11.05	8.427	5.253	7.506	13.65	8.901	8.236	9.222	110-115	4.362	8979
120.0	11.75	9.104	5.999	8.112	14.25	9.747	9.151	10.13	115-120	4.559	8983
125.0	12.55	9.814	6.744	8.717	15.12	10.52	10.03	10.97	120-125	4.685	8988
130.0	13.55	10.52	7.524	9.391	15.78	11.40	10.87	11.78	125-130	4.740	8993
135.0	14.42	11.16	8.337	10.03	15.98	12.25	11.76	12.48	130-135	4.709	8997
140.0	14.78	11.67	9.083	10.63	15.68	12.99	12.67	13.16	135-140	4.546	9002
145.0	14.65	12.08	9.761	11.10	15.25	13.43	13.38	13.53	140-145	4.236	9006
150.0	14.35	12.35	10.40	11.47	14.82	13.60	13.82	13.63	145-150	3.811	9010
155.0	14.05	12.59	10.98	11.84	14.52	13.70	14.13	13.66	150-155	3.314	9013
160.0	13.85	12.82	11.55	12.18	14.32	13.74	14.33	13.63	155-160	2.771	9016
165.0	13.78	13.06	12.13	12.48	14.22	13.74	14.43	13.59	160-165	2.196	9018
170.0	13.82	13.33	12.67	12.82	14.12	13.70	14.37	13.53	165-170	1.592	9020
175.0	13.82	13.50	13.11	13.09	14.02	13.57	14.09	13.32	170-175	0.965	9021
180.0	13.95	13.67	13.59	13.32	13.95	13.47	13.76	13.09	175-180	0.322	9021
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:
Temperature:25.3DEG
Operators:
Test Date:2025.03.22

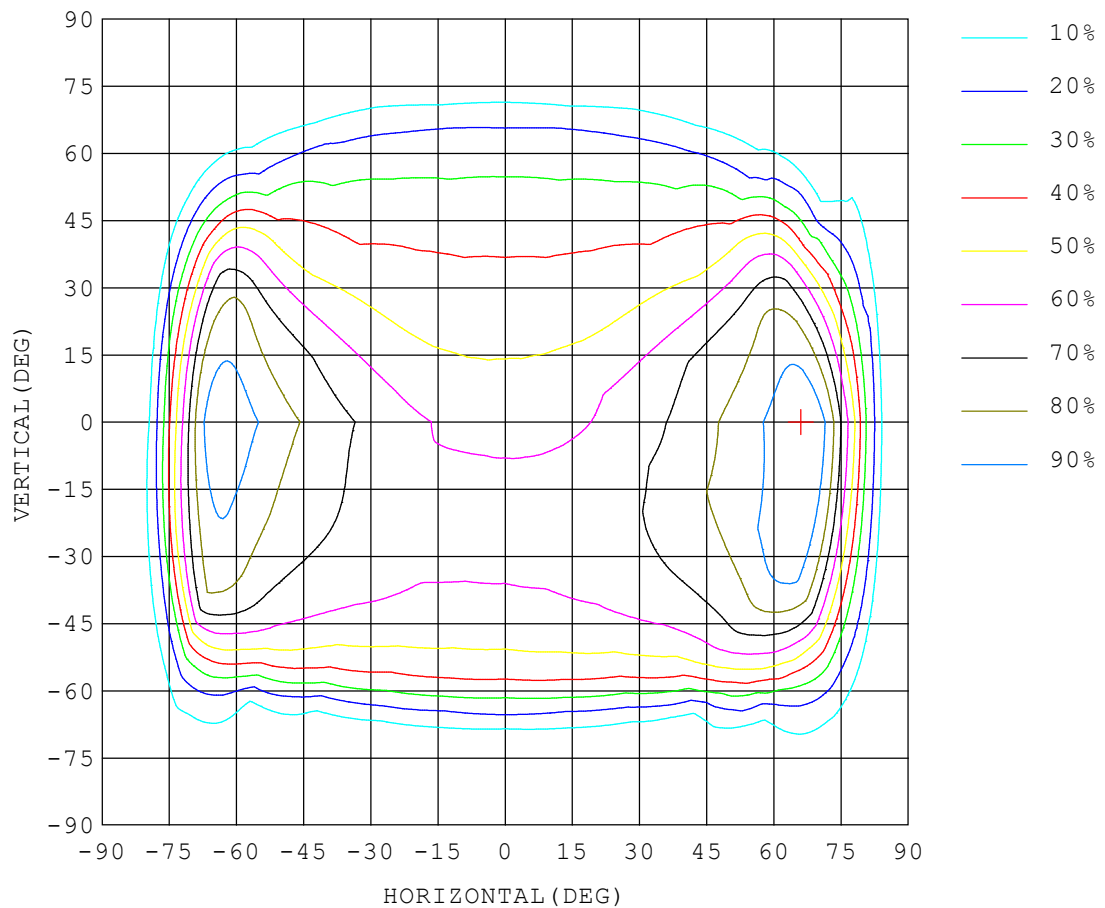
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE: IL-ST11-D06040-TY2	WEIGHT:
SPECIFICATION: 5050LED 4000K Type II	DIMENSION:	SERIAL No.:

UNIT: cd



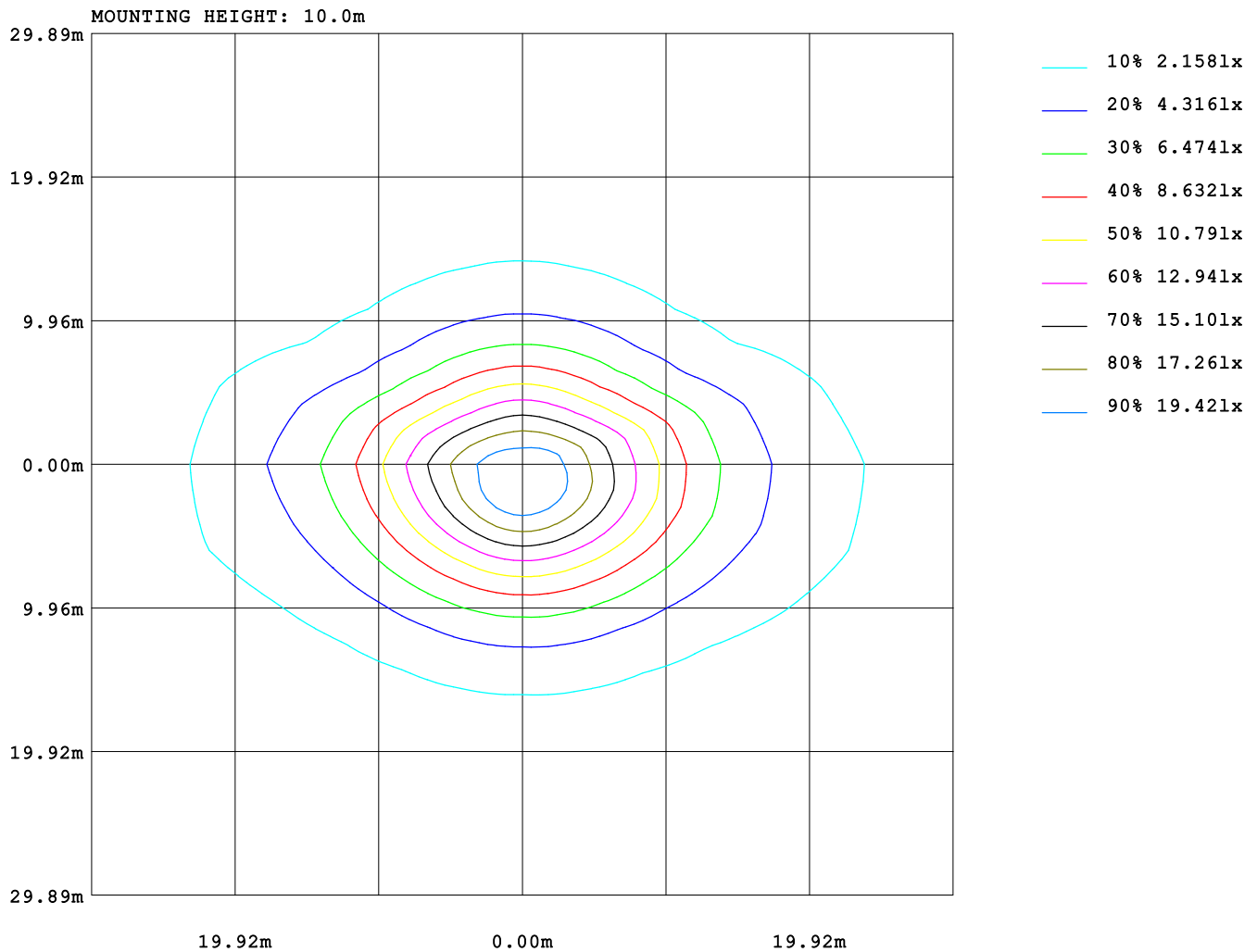
Test System:
Temperature: 25.3 DEG
Operators:
Test Date: 2025.03.22

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: Muller	TYPE: IL-ST11-D06040-TY2	WEIGHT:
SPECIFICATION: 5050LED 4000K Type II	DIMENSION:	SERIAL No.:



Test System:
Temperature: 25.3DEG
Operators:
Test Date: 2025.03.22

Test Set: 5.0deg/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: Muller	TYPE: IL-ST11-D06040-TY2	WEIGHT:
SPECIFICATION: 5050LED 4000K Type II	DIMENSION:	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210
0.0	2108	2108	2108	2108	2108	2108	2108	2108	2108	2108	2108	2108	2108	2108	2108
5.0	2110	2132	2152	2170	2182	2191	2190	2189	2178	2167	2148	2129	2118	2097	2071
10.0	2125	2166	2200	2229	2248	2264	2263	2261	2243	2221	2190	2157	2137	2095	2043
15.0	2155	2209	2253	2285	2303	2317	2318	2313	2292	2268	2232	2188	2180	2109	2023
20.0	2209	2280	2321	2340	2340	2344	2340	2336	2319	2307	2281	2244	2253	2147	2011
25.0	2293	2377	2404	2392	2361	2348	2336	2335	2327	2335	2341	2326	2350	2205	2005
30.0	2400	2490	2490	2432	2363	2327	2304	2309	2313	2354	2402	2420	2470	2284	2006
35.0	2533	2623	2573	2462	2344	2282	2252	2258	2279	2360	2459	2529	2606	2378	2005
40.0	2684	2760	2650	2469	2305	2217	2174	2185	2226	2351	2509	2638	2753	2479	1990
45.0	2845	2897	2707	2445	2233	2120	2059	2080	2149	2319	2534	2739	2904	2582	1954
50.0	3007	3026	2726	2376	2100	1965	1895	1923	2018	2237	2528	2831	3079	2680	1890
55.0	3188	3167	2717	2233	1881	1727	1655	1690	1803	2067	2481	2933	3294	2781	1791
60.0	3409	3334	2685	1968	1527	1363	1277	1332	1449	1790	2371	3053	3573	2919	1638
65.0	3655	3545	2588	1485	986	803	816	782	922	1291	2132	3212	3518	2910	1367
70.0	3471	3336	2000	654	350	289	262	285	329	551	1451	3110	2716	2201	840
75.0	2557	2429	952	190	149	143	127	140	142	176	406	2292	1440	945	344
80.0	1282	1023	189	106	83.0	75.6	63.1	73.9	81.7	94.4	115	819	322	132	74.6
85.0	247	188	56.1	40.6	26.1	27.3	20.3	27.3	26.1	38.7	43.8	162	24.7	16.2	21.3
90.0	13.7	18.7	8.58	10.0	4.50	7.61	3.82	7.32	4.15	9.59	7.50	16.6	10.8	6.53	8.55
95.0	6.49	9.95	5.05	6.63	3.38	5.74	2.84	5.49	3.24	6.19	4.52	9.47	11.2	7.67	8.61
100.0	7.96	10.1	5.89	6.56	3.45	5.16	3.08	5.11	3.27	5.99	5.19	9.60	11.9	9.01	9.42
105.0	9.25	10.8	7.00	7.03	4.20	5.50	3.79	5.45	4.01	6.36	6.12	10.1	12.6	10.0	10.2
110.0	10.2	11.5	8.08	7.71	5.01	6.01	4.54	5.93	4.75	6.90	7.06	10.8	13.2	10.8	10.9
115.0	11.0	12.0	9.09	8.42	5.79	6.52	5.25	6.44	5.46	7.50	7.93	11.2	13.6	11.5	11.5
120.0	11.7	12.6	9.96	9.10	6.60	7.10	5.99	6.98	6.21	8.11	8.67	11.6	14.2	12.3	12.1
125.0	12.5	13.2	10.7	9.81	7.42	7.71	6.74	7.55	6.95	8.71	9.37	12.1	15.1	13.2	12.8
130.0	13.5	13.9	11.5	10.5	8.26	8.35	7.52	8.23	7.76	9.39	10.1	12.7	15.7	14.1	13.6
135.0	14.4	14.5	12.1	11.1	9.11	9.07	8.33	8.94	8.57	10.0	10.8	13.4	15.9	14.6	14.2
140.0	14.7	14.8	12.6	11.6	9.82	9.75	9.08	9.62	9.31	10.6	11.3	13.7	15.6	14.6	14.5
145.0	14.6	14.7	12.7	12.0	10.4	10.3	9.76	10.2	9.92	11.1	11.6	13.8	15.2	14.4	14.6
150.0	14.3	14.5	12.8	12.3	11.0	10.9	10.4	10.8	10.5	11.4	11.8	13.6	14.8	14.1	14.5
155.0	14.0	14.3	12.9	12.5	11.4	11.4	10.9	11.4	11.0	11.8	12.0	13.5	14.5	13.9	14.3
160.0	13.8	14.2	13.0	12.8	11.9	11.9	11.5	11.9	11.5	12.1	12.2	13.4	14.3	13.8	14.2
165.0	13.7	14.1	13.1	13.0	12.3	12.4	12.1	12.4	12.0	12.4	12.4	13.3	14.2	13.7	14.1
170.0	13.8	14.0	13.2	13.3	12.7	12.9	12.6	12.8	12.4	12.8	12.6	13.3	14.1	13.7	14.0
175.0	13.8	13.9	13.4	13.5	13.1	13.2	13.1	13.2	12.8	13.0	12.8	13.4	14.0	13.6	13.9
180.0	13.9	13.9	13.6	13.6	13.4	13.5	13.5	13.4	13.2	13.3	13.0	13.3	13.9	13.6	13.7

Test System:
Temperature: 25.3 DEG
Operators:
Test Date: 2025.03.22

Test Set: 5.0deg/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: Muller	TYPE:IL-ST11-D06040-TY2	WEIGHT:
SPECIFICATION:5050LED 4000K Type II	DIMENSION:	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	225	240	255	270	285	300	315	330	345
0.0	2108	2108	2108	2108	2108	2108	2108	2108	2108
5.0	2051	2032	2023	2018	2024	2034	2054	2076	2099
10.0	1995	1955	1936	1928	1938	1961	2003	2053	2105
15.0	1941	1885	1856	1850	1858	1889	1949	2037	2126
20.0	1892	1816	1784	1775	1784	1819	1899	2028	2169
25.0	1845	1750	1711	1697	1707	1748	1850	2022	2232
30.0	1792	1681	1630	1613	1626	1678	1792	2022	2316
35.0	1738	1606	1543	1523	1539	1601	1734	2020	2413
40.0	1670	1530	1452	1426	1447	1523	1663	2001	2517
45.0	1584	1446	1357	1331	1352	1437	1577	1957	2614
50.0	1478	1338	1250	1229	1243	1326	1470	1879	2705
55.0	1351	1208	1124	1111	1117	1189	1329	1767	2790
60.0	1189	1055	978	971	969	1030	1158	1596	2901
65.0	965	857	798	799	784	830	925	1300	2786
70.0	621	542	492	473	476	533	588	771	2002
75.0	254	237	138	136	129	218	229	317	920
80.0	53.9	42.3	18.0	17.4	14.3	40.9	51.8	73.2	123
85.0	12.0	12.6	2.24	5.45	1.93	9.88	11.2	21.3	15.6
90.0	3.28	5.52	2.24	4.94	2.20	5.33	3.13	8.47	6.90
95.0	4.36	5.65	2.98	5.11	2.94	5.50	4.27	8.47	7.47
100.0	5.61	6.23	3.94	5.66	3.89	6.14	5.62	9.37	8.87
105.0	6.80	7.04	5.02	6.40	4.98	7.02	6.93	10.2	9.97
110.0	7.91	7.92	6.14	7.32	6.13	7.96	8.11	11.1	10.8
115.0	8.90	8.77	7.23	8.23	7.25	8.87	9.22	11.8	11.7
120.0	9.74	9.62	8.28	9.15	8.30	9.78	10.1	12.6	12.5
125.0	10.5	10.4	9.24	10.0	9.32	10.6	10.9	13.3	13.3
130.0	11.4	11.2	10.2	10.8	10.2	11.4	11.7	13.9	14.1
135.0	12.2	12.0	11.1	11.7	11.1	12.2	12.4	14.4	14.5
140.0	12.9	12.9	12.1	12.6	12.1	13.0	13.1	14.6	14.4
145.0	13.4	13.5	12.9	13.3	12.8	13.6	13.5	14.6	14.2
150.0	13.6	13.8	13.4	13.8	13.3	13.9	13.6	14.4	13.9
155.0	13.7	14.0	13.7	14.1	13.6	14.0	13.6	14.2	13.7
160.0	13.7	14.1	13.9	14.3	13.7	14.1	13.6	14.1	13.5
165.0	13.7	14.1	13.9	14.4	13.8	14.1	13.5	13.9	13.3
170.0	13.7	14.0	13.8	14.3	13.8	14.0	13.5	13.7	13.2
175.0	13.5	13.8	13.6	14.0	13.5	13.7	13.3	13.5	13.1
180.0	13.4	13.5	13.4	13.7	13.3	13.3	13.0	13.3	13.0

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