

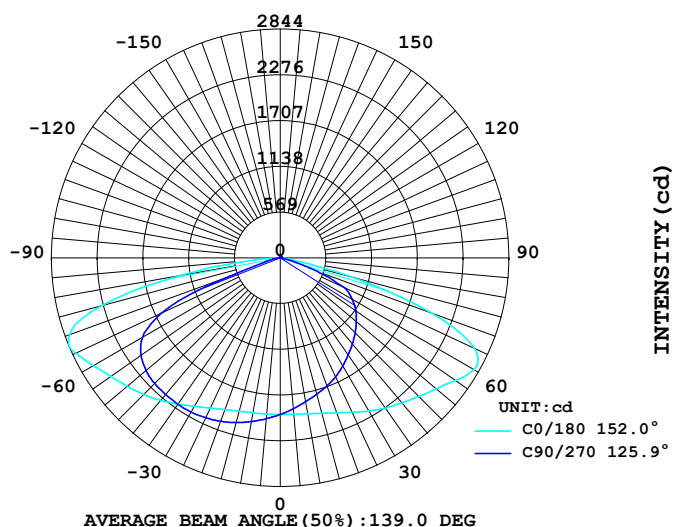
# LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

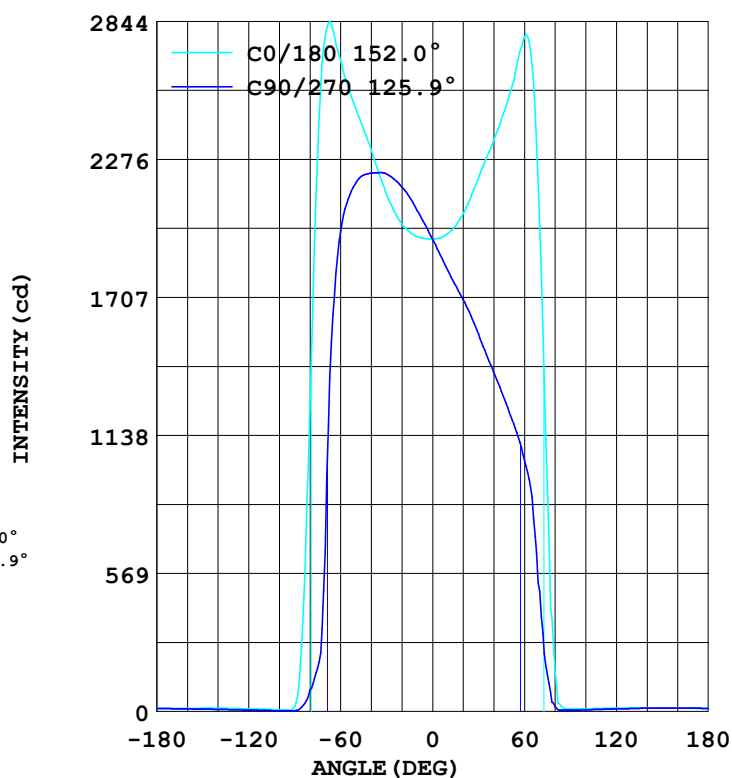
MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE: IL-ST11-D06040-TY3	WEIGHT:
SPECIFICATION: 5050LED 4000K Type III	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax (cd)	3206	S/MH (C0/180)	1.79
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.71
NOMINAL POWER (W)	60	TOTAL FLUX (lm)	9146.0	Voltage (V)	230.8
RATED VOLTAGE (V)	230	EFFICIENCY (lm/W)	149.0	Current (A)	0.267
NOMINAL FLUX (lm)	9146.0	$\eta$ up (%)	0.7	Power (W)	61.40
LAMPS QUANTITY	1	$\eta$ down (%)	99.3	Power Factor (PF)	0.996
TEST VOLTAGE (V)	230.8	Effective Flux (lm)	9146.0	EEL	0.101

## LUMINOUS INTENSITY DISTRIBUTION



## LUMINOUS INTENSITY DISTRIBUTION



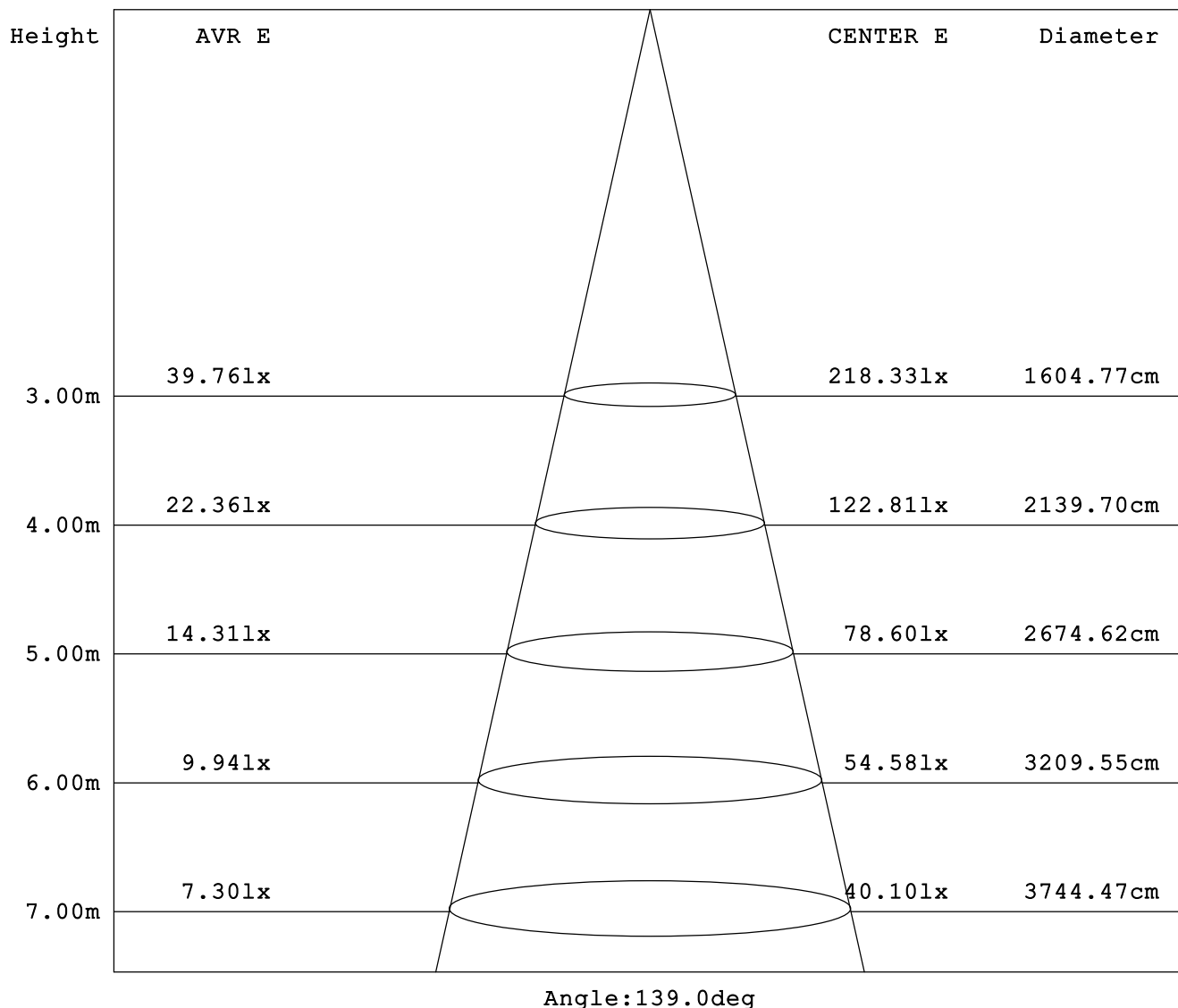
Test System:  
 Temperature: 25.3 DEG  
 Operators:  
 Test Date: 2025.03.23

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-TY3	WEIGHT:
SPECIFICATION:5050LED 4000K Type III	DIMENSION:	SERIAL No.:



Test System:  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025.03.23

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-TY3	WEIGHT:
SPECIFICATION: 5050LED 4000K Type III	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	1949	1993	2008	1991	1952	1903	1882	1904	0- 5	46.56	46.56
10.0	1957	2039	2065	2035	1970	1858	1817	1859	5- 10	139.4	185.9
15.0	1976	2089	2121	2084	2001	1816	1756	1816	10- 15	231.7	417.7
20.0	2010	2149	2162	2138	2052	1771	1697	1771	15- 20	323.4	741.1
25.0	2061	2216	2194	2198	2120	1725	1632	1723	20- 25	414.3	1156
30.0	2132	2292	2215	2264	2198	1681	1555	1680	25- 30	504.2	1660
35.0	2219	2372	2221	2330	2279	1630	1474	1631	30- 35	591.6	2251
40.0	2315	2441	2219	2384	2355	1572	1397	1579	35- 40	674.9	2926
45.0	2401	2496	2210	2426	2438	1506	1320	1518	40- 45	752.2	3679
50.0	2484	2538	2179	2457	2537	1423	1235	1442	45- 50	821.6	4500
55.0	2572	2569	2113	2468	2662	1319	1149	1343	50- 55	880.2	5381
60.0	2683	2576	1978	2442	2779	1200	1038	1229	55- 60	924.7	6305
65.0	2808	2535	1635	2310	2666	1030	884.1	1077	60- 65	942.6	7248
70.0	2785	2347	665.7	1756	1996	670.6	494.0	793.0	65- 70	869.5	8118
75.0	2289	1330	178.7	398.8	918.2	256.2	151.4	363.1	70- 75	594.3	8712
80.0	1249	240.4	89.35	114.1	168.2	48.09	20.37	107.7	75- 80	277.8	8990
85.0	310.7	66.04	19.96	37.79	16.78	9.488	6.002	15.91	80- 85	80.18	9070
90.0	18.40	13.90	3.910	9.150	10.21	5.069	5.797	4.575	85- 90	13.84	9084
95.0	5.684	7.296	2.915	6.725	10.69	6.371	6.311	5.906	90- 95	3.874	9088
100.0	7.072	6.885	3.224	6.521	11.40	7.639	7.100	7.340	95-100	3.692	9091
105.0	8.357	7.090	3.944	6.760	12.04	8.666	8.095	8.535	100-105	4.014	9095
110.0	9.406	7.536	4.665	7.169	12.55	9.591	9.021	9.559	105-110	4.318	9100
115.0	10.21	8.015	5.351	7.613	13.02	10.37	9.913	10.51	110-115	4.541	9104
120.0	10.96	8.563	6.002	8.057	13.63	11.13	10.70	11.33	115-120	4.685	9109
125.0	11.74	9.146	6.689	8.637	14.31	11.95	11.42	12.08	120-125	4.769	9114
130.0	12.58	9.797	7.443	9.218	14.68	12.84	12.17	12.83	125-130	4.797	9118
135.0	13.26	10.41	8.198	9.798	14.61	13.46	13.03	13.52	130-135	4.726	9123
140.0	13.56	10.89	8.884	10.27	14.31	13.59	13.68	13.75	135-140	4.503	9128
145.0	13.46	11.23	9.433	10.61	13.94	13.49	13.96	13.65	140-145	4.129	9132
150.0	13.23	11.50	9.947	10.92	13.63	13.35	13.96	13.45	145-150	3.667	9135
155.0	13.02	11.74	10.39	11.23	13.39	13.18	13.92	13.28	150-155	3.160	9139
160.0	12.92	11.98	10.87	11.50	13.29	13.08	13.89	13.11	155-160	2.626	9141
165.0	12.89	12.22	11.35	11.77	13.23	12.98	13.75	12.97	160-165	2.072	9143
170.0	12.95	12.46	11.80	12.12	13.19	12.88	13.58	12.80	165-170	1.498	9145
175.0	12.95	12.67	12.24	12.35	13.16	12.70	13.24	12.56	170-175	0.906	9146
180.0	13.09	12.81	12.72	12.59	13.09	12.60	12.86	12.35	175-180	0.302	9146
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:  
Temperature:25.3DEG  
Operators:  
Test Date:2025.03.23

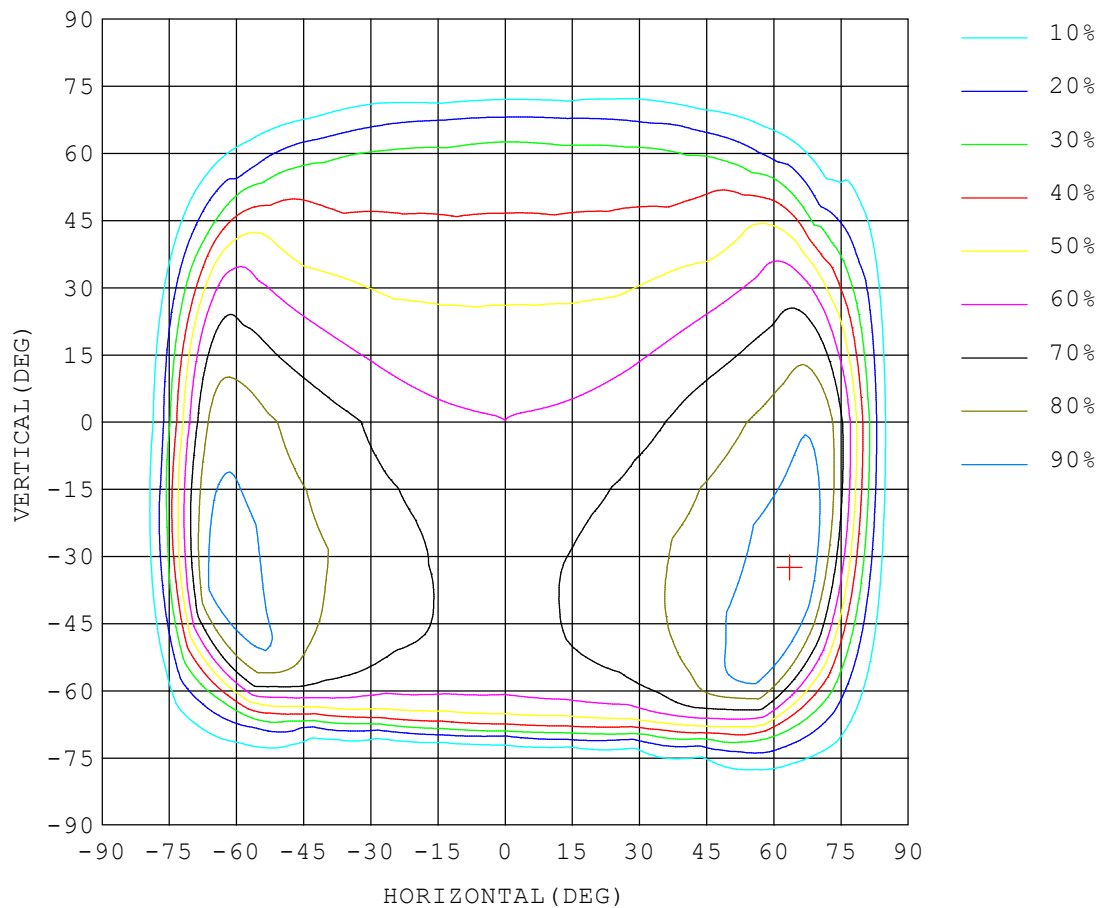
Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

## ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE: IL-ST11-D06040-TY3	WEIGHT:
SPECIFICATION: 5050LED 4000K Type III	DIMENSION:	SERIAL No.:

UNIT: cd



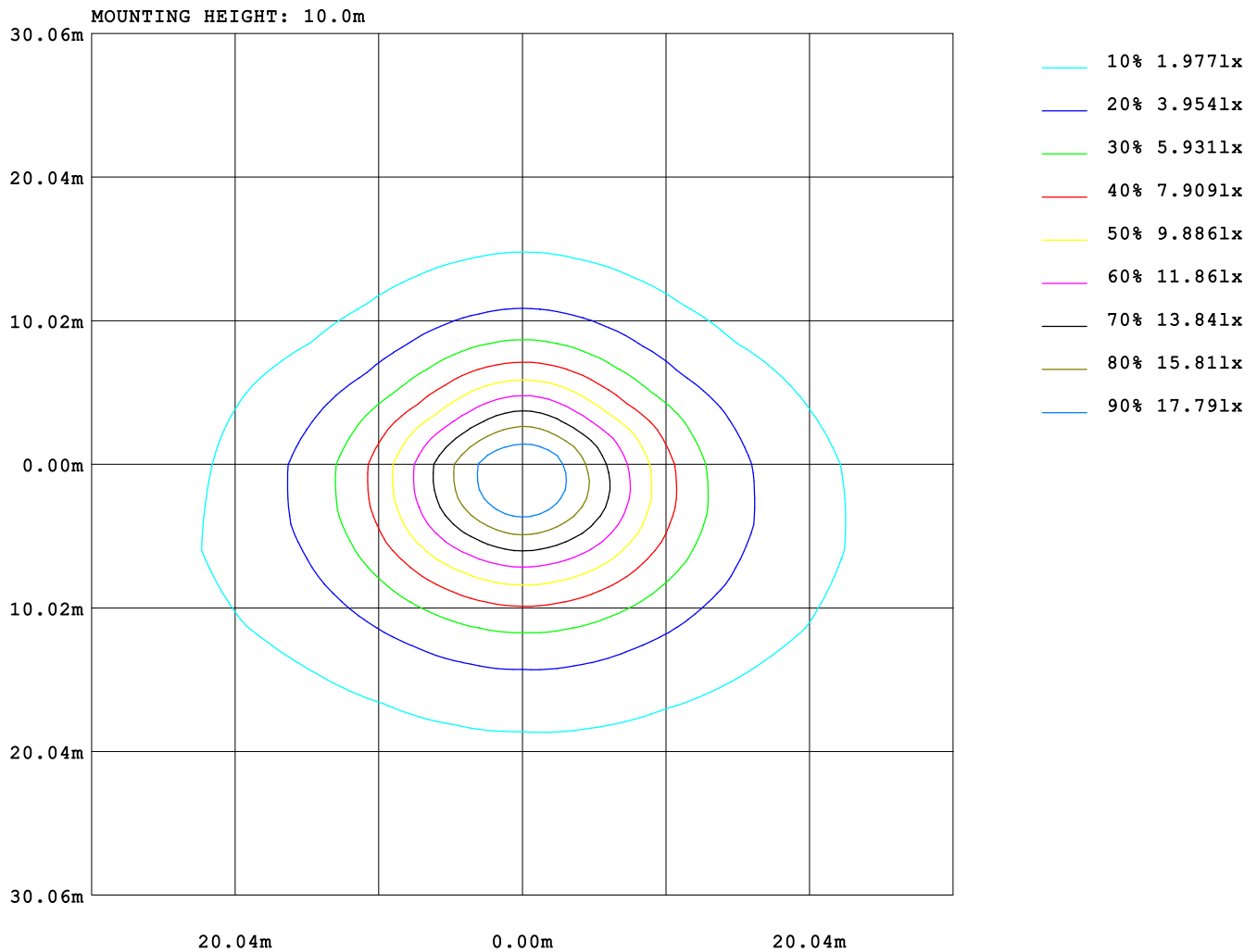
Test System:  
Temperature: 25.3 DEG  
Operators:  
Test Date: 2025.03.23

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-TY3	WEIGHT:
SPECIFICATION:5050LED 4000K Type III	DIMENSION:	SERIAL No.:



Test System:  
Temperature:25.3DEG  
Operators:  
Test Date:2025.03.23

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-TY3	WEIGHT:
SPECIFICATION:5050LED 4000K Type III	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	1947	1947	1947	1947	1947	1947	1947	1947	1947	1947	1947	1947	1947	1947	1947
5.0	1949	1964	1979	1993	2001	2009	2008	2008	2000	1991	1978	1964	1952	1935	1917
10.0	1957	1988	2015	2039	2053	2064	2065	2062	2050	2035	2012	1987	1970	1933	1892
15.0	1976	2022	2061	2089	2108	2120	2121	2117	2102	2084	2057	2022	2001	1940	1870
20.0	2010	2074	2120	2149	2159	2165	2162	2159	2148	2138	2116	2078	2052	1956	1852
25.0	2061	2149	2201	2216	2205	2199	2194	2191	2188	2198	2194	2155	2120	1981	1834
30.0	2132	2242	2299	2292	2251	2225	2215	2214	2224	2264	2284	2247	2198	2018	1813
35.0	2219	2348	2398	2372	2292	2240	2221	2222	2253	2330	2372	2343	2279	2062	1787
40.0	2315	2454	2495	2441	2328	2246	2219	2226	2275	2384	2454	2438	2355	2095	1760
45.0	2401	2553	2585	2496	2350	2251	2210	2224	2293	2426	2531	2529	2438	2120	1722
50.0	2484	2664	2679	2538	2362	2244	2179	2208	2298	2457	2601	2641	2537	2140	1665
55.0	2572	2789	2757	2569	2336	2190	2113	2146	2256	2468	2667	2763	2662	2160	1591
60.0	2683	2932	2862	2576	2254	2079	1978	2022	2149	2442	2750	2934	2779	2156	1504
65.0	2808	3127	2997	2535	2049	1761	1635	1654	1850	2310	2870	3129	2666	2121	1356
70.0	2785	3164	3130	2347	1464	987	666	754	1029	1756	2748	3003	1996	1552	925
75.0	2289	2633	2579	1330	317	203	179	182	185	399	1743	2160	918	649	383
80.0	1249	1375	977	240	115	98.4	89.3	85.3	87.1	114	404	767	168	131	64.1
85.0	311	317	185	66.0	36.1	31.1	19.9	25.9	22.9	37.7	56.7	98.4	16.7	11.4	17.8
90.0	18.4	25.0	13.4	13.9	5.34	8.24	3.91	7.95	4.82	9.15	5.95	12.0	10.2	6.72	9.68
95.0	5.68	9.55	4.60	7.29	3.56	6.08	2.91	5.86	3.38	6.72	4.52	8.95	10.6	8.12	10.0
100.0	7.07	9.27	5.21	6.88	3.53	5.49	3.22	5.42	3.55	6.52	5.06	8.99	11.4	9.38	10.8
105.0	8.35	9.68	6.03	7.09	4.28	5.80	3.94	5.76	4.24	6.76	5.84	9.36	12.0	10.3	11.3
110.0	9.40	10.2	6.95	7.53	5.00	6.25	4.66	6.17	4.95	7.16	6.59	9.83	12.5	11.1	11.9
115.0	10.2	10.7	7.77	8.01	5.72	6.70	5.35	6.65	5.64	7.61	7.31	10.2	13.0	11.8	12.4
120.0	10.9	11.2	8.59	8.56	6.44	7.18	6.00	7.10	6.29	8.05	7.99	10.6	13.6	12.6	13.0
125.0	11.7	11.8	9.34	9.14	7.13	7.73	6.68	7.65	6.97	8.63	8.67	11.1	14.3	13.4	13.9
130.0	12.5	12.5	10.1	9.79	7.92	8.35	7.44	8.26	7.76	9.21	9.38	11.8	14.6	14.0	14.6
135.0	13.2	13.0	10.8	10.4	8.70	8.96	8.19	8.88	8.48	9.79	10.0	12.2	14.6	14.1	14.8
140.0	13.5	13.3	11.2	10.8	9.36	9.58	8.88	9.50	9.09	10.2	10.4	12.4	14.3	13.8	14.6
145.0	13.4	13.3	11.5	11.2	9.87	10.1	9.43	10.0	9.61	10.6	10.7	12.4	13.9	13.4	14.3
150.0	13.2	13.2	11.7	11.5	10.3	10.5	9.94	10.4	10.0	10.9	10.9	12.4	13.6	13.2	13.9
155.0	13.0	13.2	11.9	11.7	10.7	10.9	10.3	10.9	10.5	11.2	11.1	12.4	13.3	12.9	13.7
160.0	12.9	13.1	12.0	11.9	11.1	11.3	10.8	11.3	10.9	11.5	11.3	12.3	13.2	12.8	13.5
165.0	12.8	13.1	12.1	12.2	11.5	11.6	11.3	11.7	11.3	11.7	11.5	12.4	13.2	12.7	13.3
170.0	12.9	13.1	12.3	12.4	11.8	12.0	11.8	12.1	11.7	12.1	11.8	12.5	13.1	12.7	13.2
175.0	12.9	13.0	12.5	12.6	12.2	12.4	12.2	12.3	12.0	12.3	12.0	12.5	13.1	12.7	13.0
180.0	13.0	13.0	12.7	12.8	12.5	12.7	12.7	12.6	12.4	12.5	12.3	12.5	13.0	12.7	12.8

Test System:  
Temperature:25.3DEG  
Operators:  
Test Date:2025.03.23

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

## LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

<b>MANUFACTURER: ILUMEN GMBH</b>	<b>Address:</b>	
<b>NAME: Muller</b>	<b>TYPE:IL-ST11-D06040-TY3</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:5050LED 4000K Type III</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

UNIT: cd

C (DEG) γ (DEG)	225	240	255	270	285	300	315	330	345
0.0	1947	1947	1947	1947	1947	1947	1947	1947	1947
5.0	1903	1890	1885	1882	1886	1892	1904	1919	1936
10.0	1858	1833	1821	1817	1823	1836	1859	1892	1932
15.0	1816	1779	1758	1756	1763	1783	1816	1869	1936
20.0	1771	1722	1701	1697	1705	1725	1771	1848	1949
25.0	1725	1667	1639	1632	1643	1669	1723	1830	1972
30.0	1681	1611	1568	1555	1571	1611	1680	1808	2005
35.0	1630	1543	1486	1474	1490	1542	1631	1784	2054
40.0	1572	1469	1407	1397	1412	1469	1579	1763	2097
45.0	1506	1391	1329	1320	1334	1395	1518	1734	2124
50.0	1423	1302	1242	1235	1246	1309	1442	1686	2137
55.0	1319	1203	1150	1149	1155	1212	1343	1610	2145
60.0	1200	1092	1033	1038	1045	1107	1229	1520	2136
65.0	1030	929	871	884	889	957	1077	1428	2123
70.0	671	517	475	494	507	651	793	1066	1830
75.0	256	220	137	151	154	287	363	500	959
80.0	48.0	40.3	17.1	20.3	20.4	42.2	108	129	259
85.0	9.48	11.7	2.88	6.00	2.67	12.1	15.9	27.5	21.1
90.0	5.06	6.92	3.26	5.79	3.19	6.87	4.57	9.72	6.75
95.0	6.37	7.47	4.36	6.31	4.28	7.32	5.90	9.65	7.36
100.0	7.63	8.29	5.60	7.10	5.55	8.20	7.34	10.4	8.71
105.0	8.66	9.15	6.80	8.09	6.82	9.20	8.53	11.1	9.73
110.0	9.59	9.97	7.93	9.02	7.99	10.0	9.55	11.7	10.5
115.0	10.3	10.6	8.96	9.91	9.09	10.8	10.5	12.3	11.2
120.0	11.1	11.2	9.79	10.7	9.98	11.5	11.3	12.9	11.8
125.0	11.9	12.0	10.6	11.4	10.8	12.2	12.0	13.6	12.6
130.0	12.8	12.7	11.5	12.1	11.6	12.9	12.8	14.4	13.5
135.0	13.4	13.5	12.4	13.0	12.4	13.6	13.5	14.8	13.8
140.0	13.5	13.9	13.1	13.6	13.1	14.0	13.7	14.7	13.7
145.0	13.4	13.9	13.4	13.9	13.4	14.1	13.6	14.3	13.4
150.0	13.3	13.9	13.5	13.9	13.4	14.0	13.4	14.0	13.1
155.0	13.1	13.7	13.5	13.9	13.3	13.9	13.2	13.7	12.9
160.0	13.0	13.6	13.4	13.8	13.3	13.7	13.1	13.5	12.7
165.0	12.9	13.5	13.2	13.7	13.1	13.5	12.9	13.2	12.6
170.0	12.8	13.3	13.0	13.5	13.0	13.3	12.8	13.0	12.5
175.0	12.7	13.0	12.7	13.2	12.6	12.9	12.5	12.8	12.3
180.0	12.6	12.7	12.5	12.8	12.4	12.6	12.3	12.5	12.3

Test System:  
Temperature:25.3DEG  
Operators:  
Test Date:2025.03.23

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