

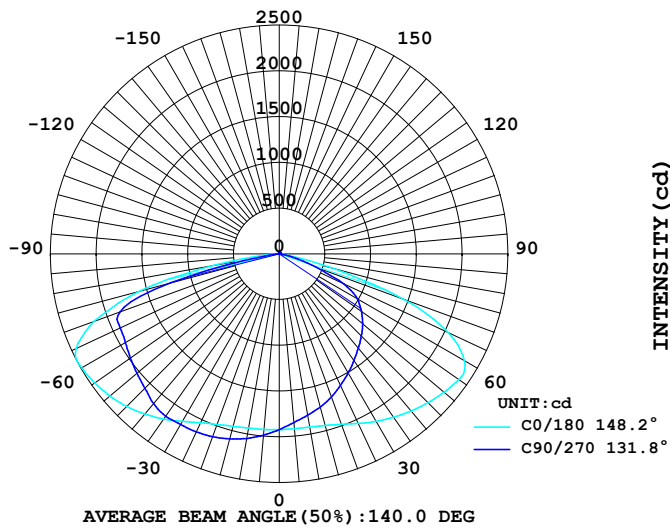
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

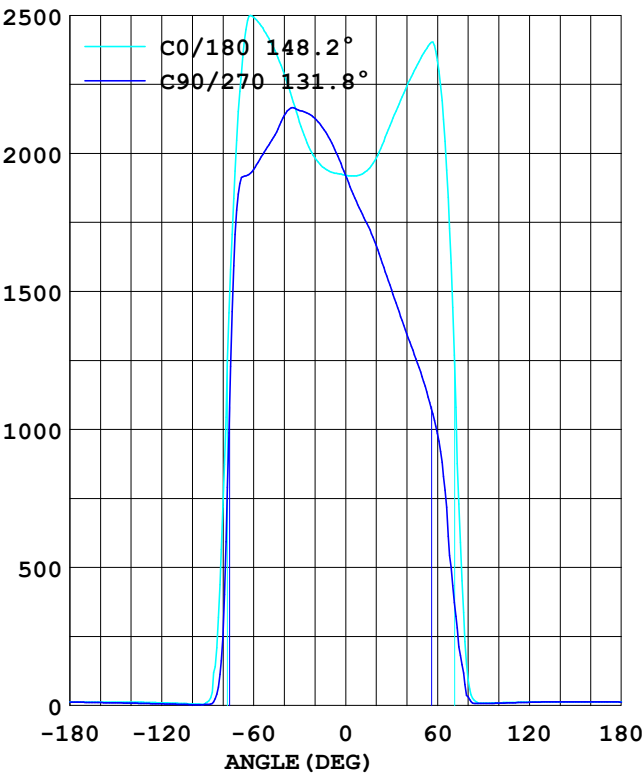
MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE: IL-ST11-D06040-TY4	WEIGHT:
SPECIFICATION: 5050LED 4000K Type IV	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	2671	S/MH (C0/180)	1.79
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.68
NOMINAL POWER(W)	60	TOTAL FLUX(lm)	9062.0	Voltage(V)	230.1
RATED VOLTAGE (V)	230	EFFICIENCY (lm/W)	150.3	Current(A)	0.263
NOMINAL FLUX(lm)	9062.1	η up (%)	0.7	Power(W)	60.29
LAMPS QUANTITY	1	η down (%)	99.3	Power Factor (PF)	0.996
TEST VOLTAGE (V)	230.2	Effective Flux(lm)	9062.1	EEI	0.100

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



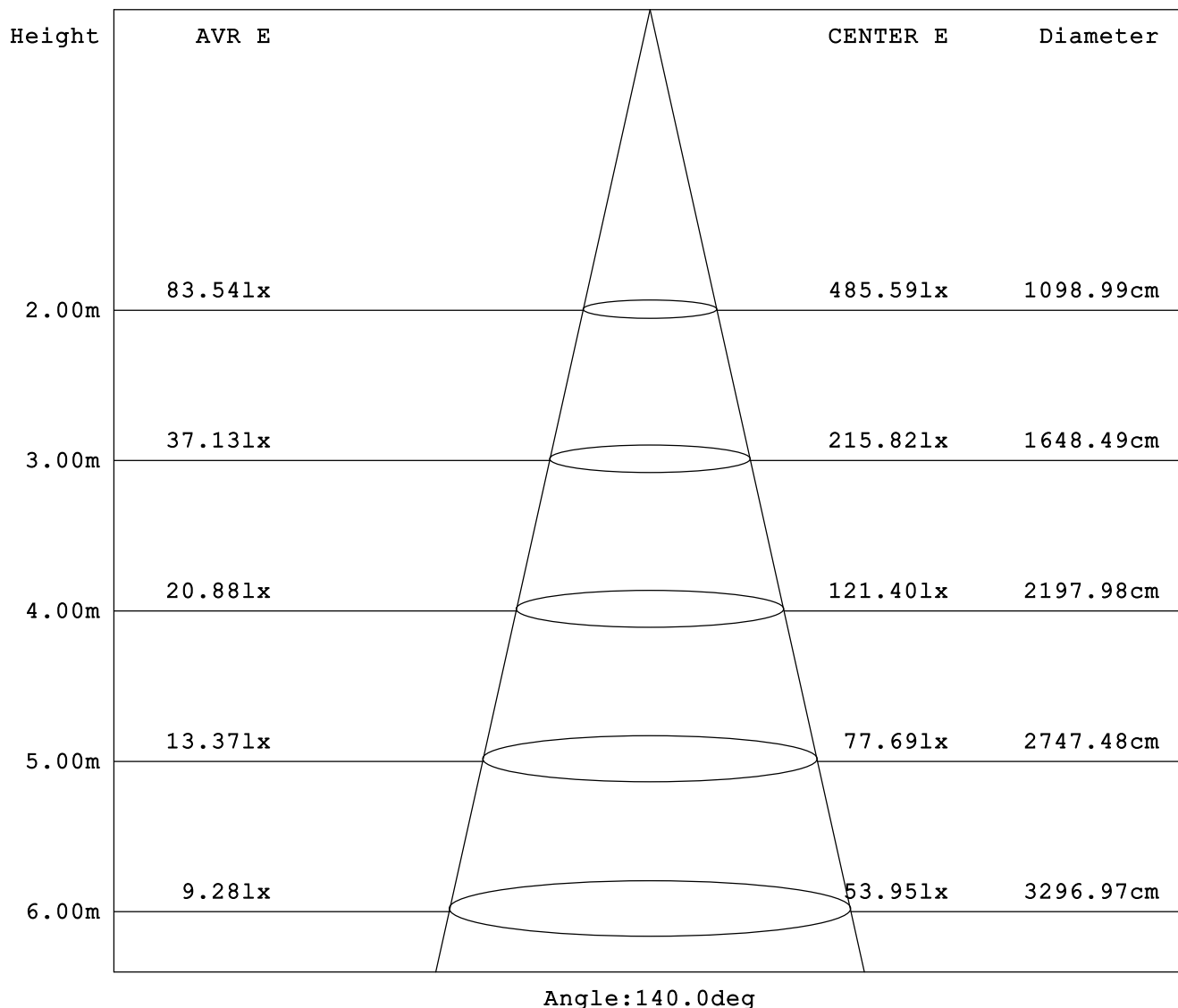
Test System:
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2025.03.24

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-TY4	WEIGHT:
SPECIFICATION:5050LED 4000K Type IV	DIMENSION:	SERIAL No.:



Test System:
Temperature:25.3DEG
Operators:
Test Date:2025.03.24

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-TY4	WEIGHT:
SPECIFICATION: 5050LED 4000K Type IV	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	1927	1974	1990	1966	1919	1866	1852	1872	0- 5	45.92	45.92
10.0	1934	2022	2050	2005	1923	1819	1792	1829	5- 10	137.4	183.3
15.0	1952	2070	2094	2041	1943	1777	1734	1792	10- 15	228.1	411.5
20.0	1985	2124	2127	2080	1982	1729	1667	1747	15- 20	317.6	729.1
25.0	2038	2183	2146	2124	2044	1690	1588	1710	20- 25	405.7	1135
30.0	2113	2247	2155	2170	2115	1648	1506	1670	25- 30	492.5	1627
35.0	2204	2313	2165	2214	2179	1606	1426	1630	30- 35	577.6	2205
40.0	2286	2377	2138	2253	2243	1564	1347	1590	35- 40	658.4	2863
45.0	2359	2436	2078	2288	2301	1516	1270	1548	40- 45	732.2	3596
50.0	2417	2483	2031	2315	2353	1465	1192	1499	45- 50	797.6	4393
55.0	2462	2512	1988	2322	2397	1409	1097	1441	50- 55	853.7	5247
60.0	2493	2517	1942	2319	2336	1334	985.4	1368	55- 60	897.0	6144
65.0	2449	2490	1919	2287	2044	1220	779.8	1262	60- 65	914.0	7058
70.0	2152	2378	1853	2187	1443	933.0	434.2	1002	65- 70	866.2	7924
75.0	1580	1786	1228	1568	590.9	405.3	181.0	469.3	70- 75	677.8	8602
80.0	719.6	584.1	246.0	357.6	94.53	70.68	31.73	112.0	75- 80	328.1	8931
85.0	141.4	69.23	24.77	39.29	14.83	11.85	7.392	16.77	80- 85	60.90	8991
90.0	12.97	11.31	4.050	9.832	8.730	5.253	7.257	4.966	85- 90	9.134	9001
95.0	4.813	7.677	2.734	7.349	9.227	6.600	7.798	6.208	90- 95	3.852	9004
100.0	5.974	7.307	3.173	7.047	9.991	7.846	8.608	7.450	95-100	3.734	9008
105.0	7.203	7.509	3.882	7.282	10.75	8.822	9.418	8.456	100-105	4.038	9012
110.0	8.298	7.879	4.591	7.617	11.35	9.698	10.19	9.329	105-110	4.315	9017
115.0	9.128	8.283	5.266	7.986	11.91	10.43	10.90	10.10	110-115	4.513	9021
120.0	9.858	8.789	5.907	8.423	12.48	11.21	11.61	10.90	115-120	4.632	9026
125.0	10.62	9.327	6.582	8.926	13.11	12.08	12.38	11.81	120-125	4.710	9030
130.0	11.38	9.933	7.291	9.530	13.57	12.89	13.16	12.65	125-130	4.743	9035
135.0	12.08	10.50	8.034	10.06	13.80	13.26	13.57	13.08	130-135	4.656	9040
140.0	12.51	10.91	8.675	10.47	13.74	13.30	13.63	13.15	135-140	4.401	9044
145.0	12.64	11.17	9.215	10.73	13.57	13.20	13.63	13.05	140-145	4.025	9048
150.0	12.61	11.38	9.722	10.97	13.34	13.06	13.57	12.92	145-150	3.576	9052
155.0	12.51	11.58	10.19	11.17	13.17	12.93	13.53	12.78	150-155	3.085	9055
160.0	12.48	11.75	10.60	11.40	13.04	12.82	13.50	12.68	155-160	2.566	9057
165.0	12.48	11.98	11.07	11.64	13.01	12.72	13.43	12.58	160-165	2.026	9059
170.0	12.58	12.19	11.54	11.91	12.94	12.62	13.30	12.48	165-170	1.465	9061
175.0	12.61	12.39	11.95	12.11	12.84	12.45	12.92	12.24	170-175	0.887	9062
180.0	12.77	12.56	12.42	12.31	12.77	12.32	12.55	12.08	175-180	0.296	9062
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:
Temperature:25.3DEG
Operators:
Test Date:2025.03.24

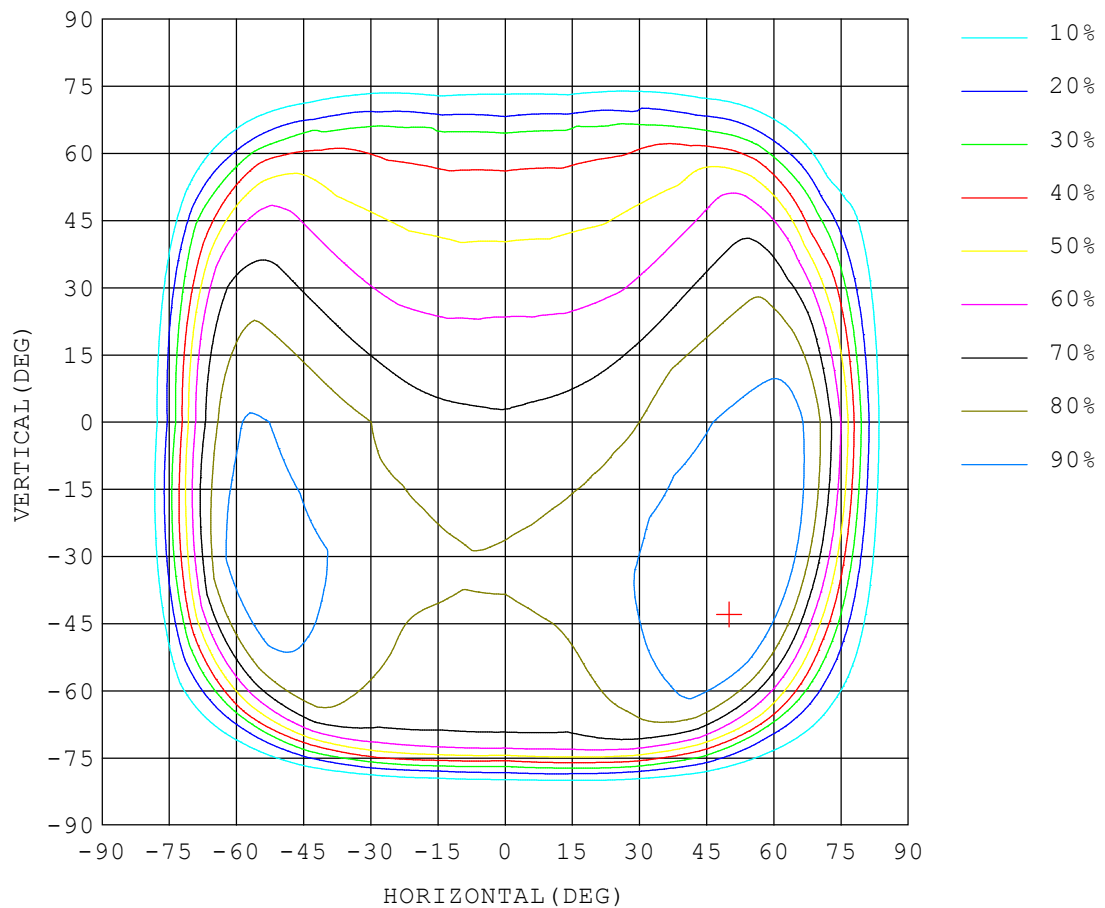
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE: IL-ST11-D06040-TY4	WEIGHT:
SPECIFICATION: 5050LED 4000K Type IV	DIMENSION:	SERIAL No.:

UNIT: cd



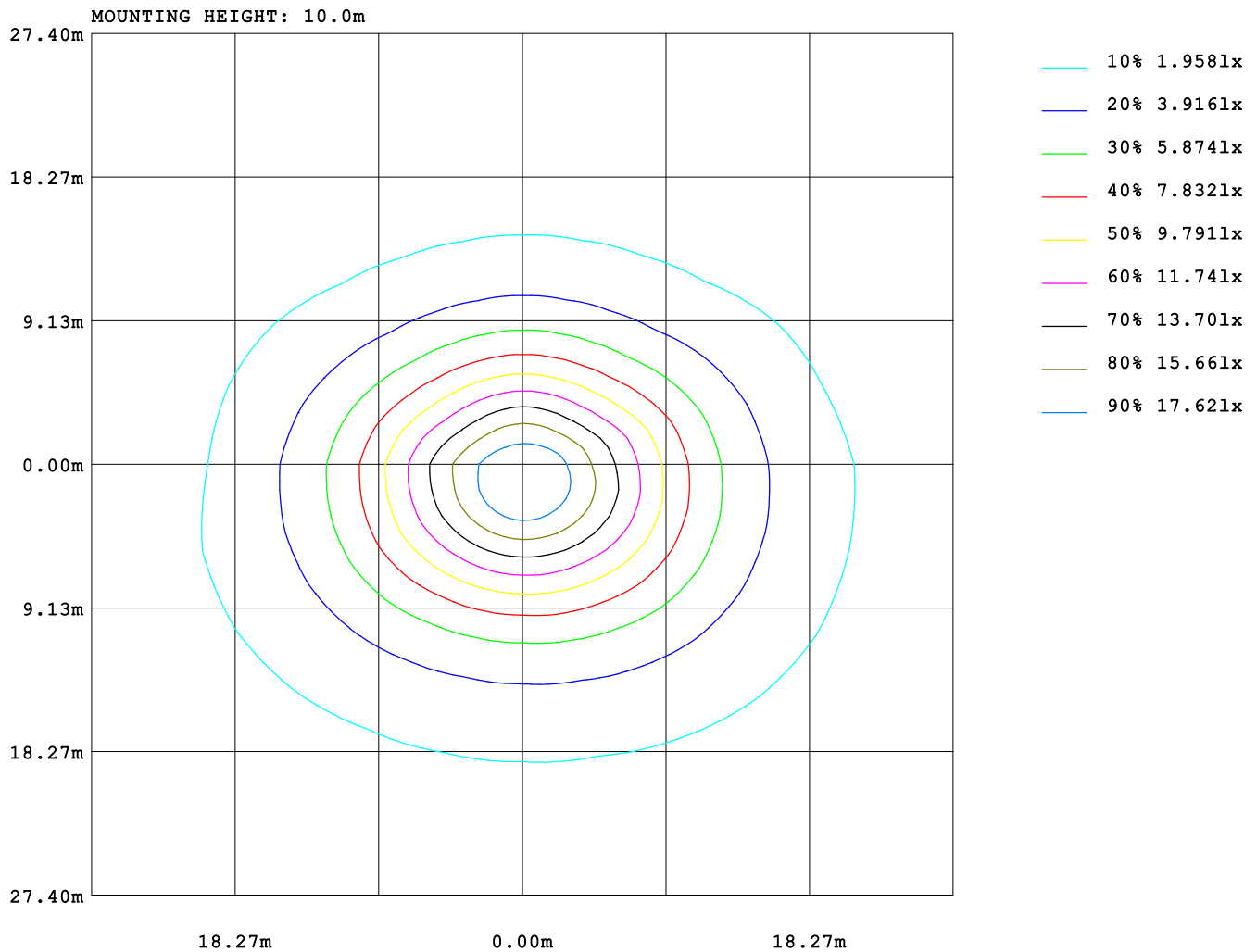
Test System:
Temperature: 25.3 DEG
Operators:
Test Date: 2025.03.24

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-TY4	WEIGHT:
SPECIFICATION:5050LED 4000K Type IV	DIMENSION:	SERIAL No.:



Test System:
Temperature:25.3DEG
Operators:
Test Date:2025.03.24

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-TY4	WEIGHT:
SPECIFICATION:5050LED 4000K Type IV	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	1921	1921	1921	1921	1921	1921	1921	1921	1921	1921	1921	1921	1921	1921	1921
5.0	1927	1944	1961	1974	1984	1989	1990	1986	1978	1966	1951	1933	1919	1900	1883
10.0	1934	1968	2000	2022	2039	2048	2050	2040	2026	2005	1980	1949	1923	1886	1849
15.0	1952	2003	2043	2070	2085	2094	2094	2083	2064	2041	2010	1970	1943	1882	1820
20.0	1985	2054	2100	2124	2130	2131	2127	2115	2098	2080	2051	2008	1982	1891	1802
25.0	2038	2124	2172	2183	2172	2156	2146	2135	2129	2124	2107	2064	2044	1919	1786
30.0	2113	2216	2257	2247	2211	2175	2155	2149	2156	2170	2172	2138	2115	1965	1779
35.0	2204	2317	2351	2313	2245	2197	2165	2163	2175	2214	2245	2218	2179	2009	1778
40.0	2286	2404	2437	2377	2269	2189	2138	2138	2183	2253	2308	2283	2243	2050	1780
45.0	2359	2483	2515	2436	2272	2160	2078	2097	2160	2288	2368	2347	2301	2087	1781
50.0	2417	2550	2584	2483	2269	2115	2031	2045	2140	2315	2420	2413	2353	2112	1774
55.0	2462	2605	2636	2512	2271	2071	1988	2000	2128	2322	2459	2474	2397	2126	1758
60.0	2493	2643	2668	2517	2255	2023	1942	1960	2097	2319	2486	2520	2336	2097	1730
65.0	2449	2597	2653	2490	2205	1965	1919	1930	2032	2287	2464	2455	2044	1910	1640
70.0	2152	2264	2377	2378	2087	1880	1853	1860	1915	2187	2206	2098	1443	1509	1314
75.0	1580	1544	1692	1786	1640	1405	1228	1307	1453	1568	1489	1311	591	822	630
80.0	720	591	521	584	445	305	246	256	306	358	330	362	94.5	137	100
85.0	141	94.5	108	69.2	37.1	35.0	24.7	33.0	27.6	39.2	44.5	40.2	14.8	11.5	19.2
90.0	12.9	16.8	9.29	11.3	4.78	8.91	4.05	8.73	4.81	9.83	5.88	10.7	8.73	6.44	10.0
95.0	4.81	8.51	4.79	7.67	3.57	6.28	2.73	6.07	3.36	7.34	4.81	8.32	9.22	6.81	9.49
100.0	5.97	8.38	5.33	7.30	3.81	5.84	3.17	5.73	3.66	7.04	5.34	8.46	9.99	8.14	10.3
105.0	7.20	8.84	6.10	7.50	4.58	6.11	3.88	5.97	4.40	7.28	6.11	8.92	10.7	9.28	11.0
110.0	8.29	9.38	6.91	7.87	5.29	6.45	4.59	6.34	5.11	7.61	6.85	9.42	11.3	10.1	11.5
115.0	9.12	9.88	7.61	8.28	5.97	6.88	5.26	6.74	5.71	7.98	7.48	9.89	11.9	10.9	12.1
120.0	9.85	10.4	8.32	8.78	6.64	7.32	5.90	7.15	6.35	8.42	8.12	10.3	12.4	11.6	12.6
125.0	10.6	10.9	9.09	9.32	7.38	7.83	6.58	7.62	7.03	8.92	8.82	10.8	13.1	12.3	13.3
130.0	11.3	11.6	9.89	9.93	8.09	8.40	7.29	8.22	7.77	9.53	9.52	11.4	13.5	12.9	13.9
135.0	12.0	12.2	10.6	10.5	8.76	8.98	8.03	8.80	8.47	10.0	10.1	11.9	13.8	13.2	14.2
140.0	12.5	12.6	11.0	10.9	9.37	9.52	8.67	9.37	9.05	10.4	10.5	12.2	13.7	13.2	14.1
145.0	12.6	12.7	11.2	11.1	9.78	9.96	9.21	9.84	9.52	10.7	10.7	12.3	13.5	13.1	13.9
150.0	12.6	12.7	11.4	11.3	10.1	10.3	9.72	10.3	9.92	10.9	10.9	12.3	13.3	12.9	13.6
155.0	12.5	12.7	11.6	11.5	10.5	10.7	10.1	10.7	10.3	11.1	11.1	12.2	13.1	12.7	13.4
160.0	12.4	12.7	11.7	11.7	10.9	11.1	10.6	11.1	10.7	11.4	11.2	12.2	13.0	12.6	13.2
165.0	12.4	12.7	11.8	11.9	11.2	11.4	11.0	11.5	11.1	11.6	11.4	12.2	13.0	12.5	13.1
170.0	12.5	12.7	12.0	12.1	11.6	11.8	11.5	11.8	11.5	11.9	11.6	12.2	12.9	12.5	12.9
175.0	12.6	12.7	12.2	12.3	11.9	12.1	11.9	12.1	11.7	12.1	11.8	12.3	12.8	12.4	12.8
180.0	12.7	12.6	12.4	12.5	12.3	12.4	12.4	12.3	12.1	12.3	12.1	12.3	12.7	12.4	12.6

Test System:
Temperature:25.3DEG
Operators:
Test Date:2025.03.24

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-TY4	WEIGHT:
SPECIFICATION:5050LED 4000K Type IV	DIMENSION:	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	225	240	255	270	285	300	315	330	345
0.0	1921	1921	1921	1921	1921	1921	1921	1921	1921
5.0	1866	1858	1851	1852	1852	1861	1872	1891	1909
10.0	1819	1801	1792	1792	1795	1808	1829	1864	1904
15.0	1777	1747	1734	1734	1738	1756	1792	1843	1910
20.0	1729	1691	1667	1667	1673	1701	1747	1831	1929
25.0	1690	1627	1592	1588	1598	1639	1710	1823	1966
30.0	1648	1561	1514	1506	1519	1572	1670	1823	2025
35.0	1606	1496	1435	1426	1441	1507	1630	1829	2085
40.0	1564	1430	1359	1347	1369	1445	1590	1839	2135
45.0	1516	1365	1284	1270	1295	1380	1548	1847	2173
50.0	1465	1297	1204	1192	1213	1313	1499	1847	2197
55.0	1409	1214	1115	1097	1126	1234	1441	1831	2207
60.0	1334	1117	1006	985	1019	1139	1368	1800	2193
65.0	1220	993	832	780	847	1017	1262	1745	1994
70.0	933	702	478	434	492	730	1002	1403	1644
75.0	405	307	176	181	183	335	469	783	923
80.0	70.6	65.7	29.1	31.7	33.1	77.5	112	171	221
85.0	11.8	15.9	4.72	7.39	4.48	15.5	16.7	25.6	17.2
90.0	5.25	8.49	4.66	7.25	4.51	8.34	4.96	9.86	6.42
95.0	6.60	8.66	5.84	7.79	5.70	8.44	6.20	9.19	6.33
100.0	7.84	9.37	6.99	8.60	6.88	9.15	7.45	9.89	7.59
105.0	8.82	10.0	8.07	9.41	7.92	9.82	8.45	10.5	8.69
110.0	9.69	10.6	9.01	10.1	8.90	10.4	9.32	11.0	9.56
115.0	10.4	11.2	9.82	10.9	9.78	11.1	10.1	11.5	10.2
120.0	11.2	11.9	10.6	11.6	10.6	11.8	10.9	12.1	10.8
125.0	12.0	12.7	11.5	12.3	11.5	12.6	11.8	12.8	11.5
130.0	12.8	13.5	12.3	13.1	12.3	13.4	12.6	13.5	12.2
135.0	13.2	13.8	12.8	13.5	12.7	13.7	13.0	13.9	12.6
140.0	13.3	13.8	13.0	13.6	12.9	13.7	13.1	13.9	12.8
145.0	13.2	13.7	13.1	13.6	12.9	13.6	13.0	13.7	12.7
150.0	13.0	13.6	13.1	13.5	12.9	13.5	12.9	13.4	12.6
155.0	12.9	13.5	13.1	13.5	12.8	13.3	12.7	13.2	12.4
160.0	12.8	13.4	13.0	13.5	12.8	13.2	12.6	13.1	12.3
165.0	12.7	13.2	12.9	13.4	12.7	13.1	12.5	12.9	12.2
170.0	12.6	13.0	12.7	13.3	12.6	12.9	12.4	12.7	12.1
175.0	12.4	12.7	12.4	12.9	12.3	12.6	12.2	12.5	12.0
180.0	12.3	12.4	12.2	12.5	12.1	12.3	12.0	12.3	12.0

Test System:
Temperature:25.3DEG
Operators:
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Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
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Remarks: