

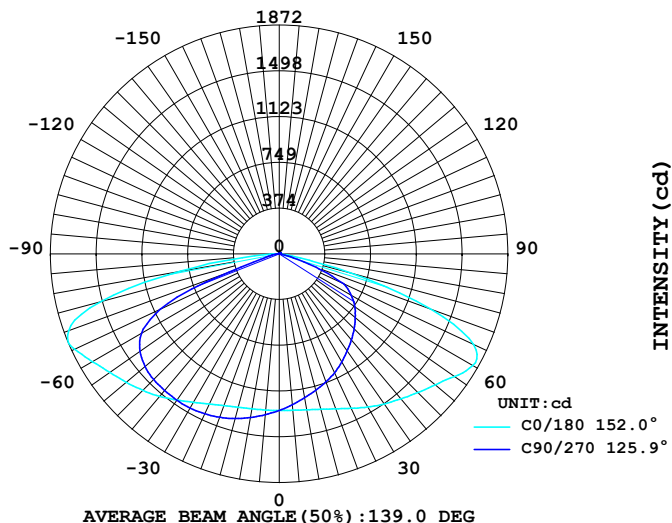
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

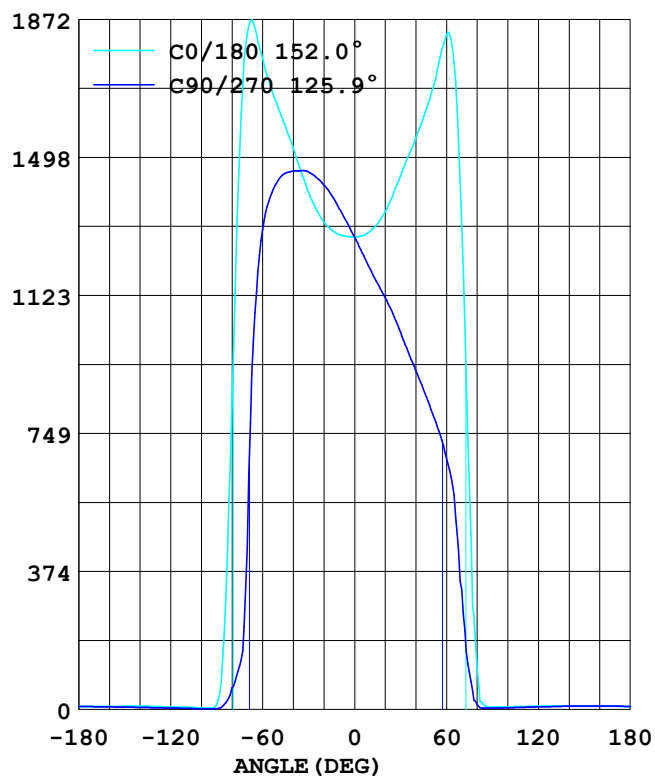
MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE: IL-ST11-D04040-TY3	WEIGHT:
SPECIFICATION: 5050LED 4000K Type III	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	2110	S/MH (C0/180)	1.79
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.71
NOMINAL POWER(W)	40	TOTAL FLUX(lm)	6018.9	Voltage(V)	230.6
RATED VOLTAGE (V)	230	EFFICIENCY (lm/W)	149.0	Current(A)	0.175
NOMINAL FLUX(lm)	6019.0	η up (%)	0.7	Power(W)	40.40
LAMPS QUANTITY	1	η down (%)	99.3	Power Factor (PF)	0.996
TEST VOLTAGE (V)	230.7	Effective Flux(lm)	0.0	EEL	0.000

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



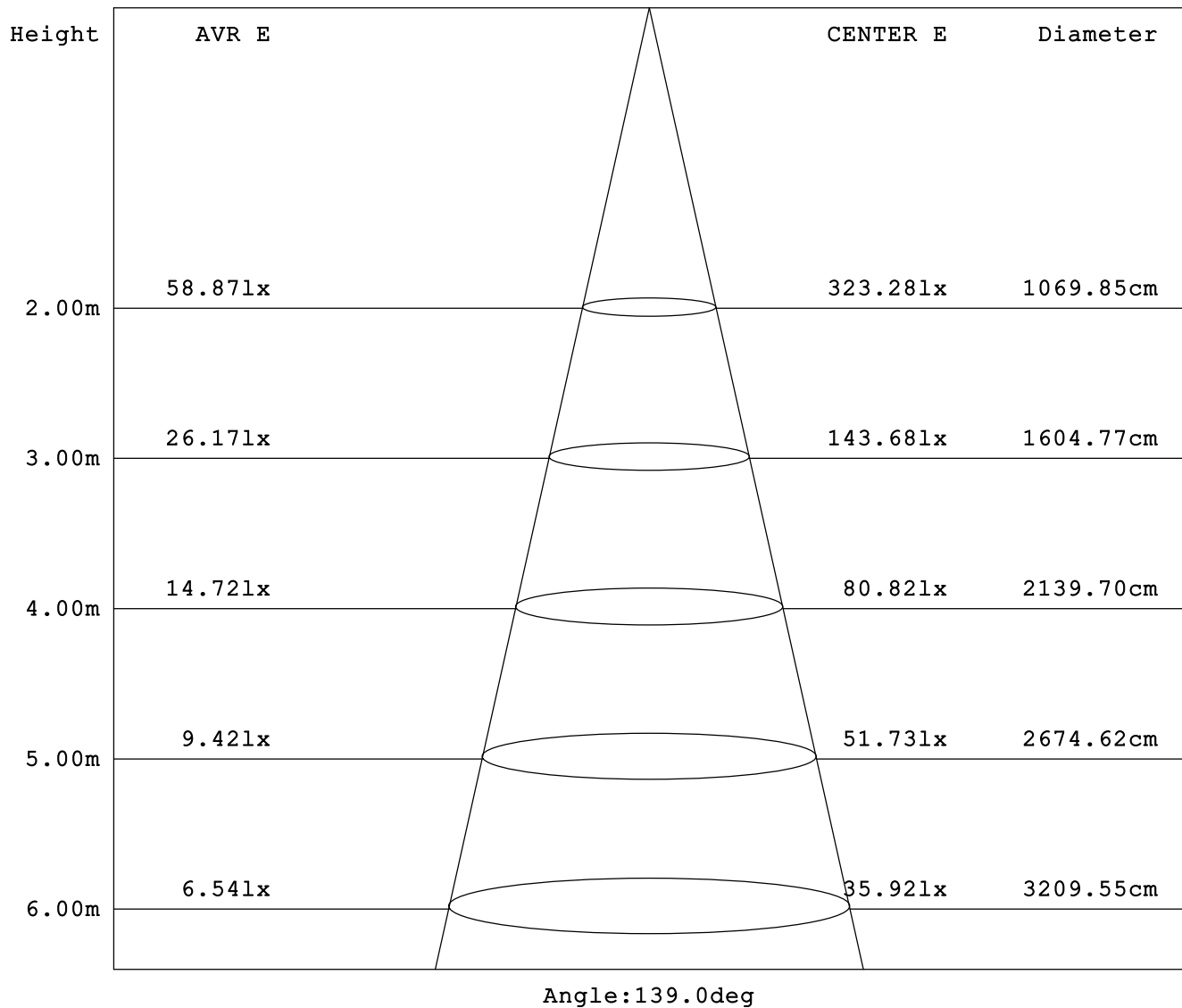
Test System:
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2025.03.23

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-D04040-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-D04040-TY3	WEIGHT:
SPECIFICATION:5050LED 4000K Type III	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	1283	1311	1322	1310	1285	1252	1239	1253	0- 5	30.64	30.64
10.0	1288	1342	1359	1339	1296	1223	1196	1224	5- 10	91.74	122.3
15.0	1301	1375	1396	1371	1317	1195	1156	1195	10- 15	152.5	274.9
20.0	1323	1414	1423	1407	1351	1165	1117	1165	15- 20	212.8	487.7
25.0	1357	1458	1444	1447	1395	1135	1074	1134	20- 25	272.6	760.4
30.0	1403	1508	1458	1490	1447	1106	1024	1106	25- 30	331.8	1092
35.0	1460	1561	1461	1533	1500	1072	969.8	1073	30- 35	389.3	1482
40.0	1524	1607	1460	1569	1550	1035	919.6	1039	35- 40	444.1	1926
45.0	1580	1642	1454	1596	1605	991.1	868.7	998.9	40- 45	495.0	2421
50.0	1634	1670	1434	1617	1669	936.7	812.8	948.6	45- 50	540.7	2962
55.0	1693	1691	1391	1624	1752	867.7	756.4	883.6	50- 55	579.3	3541
60.0	1766	1695	1302	1607	1829	789.8	682.9	808.7	55- 60	608.5	4149
65.0	1848	1668	1076	1520	1754	677.6	581.8	708.5	60- 65	620.3	4770
70.0	1833	1544	438.1	1156	1314	441.3	325.1	521.8	65- 70	572.2	5342
75.0	1506	875.3	117.6	262.4	604.2	168.6	99.66	238.9	70- 75	391.1	5733
80.0	822.1	158.2	58.80	75.11	110.6	31.65	13.40	70.93	75- 80	182.8	5916
85.0	204.4	43.46	13.13	24.87	11.04	6.244	3.950	10.47	80- 85	52.76	5969
90.0	12.11	9.152	2.573	6.021	6.725	3.336	3.815	3.010	85- 90	9.112	5978
95.0	3.741	4.801	1.918	4.426	7.036	4.193	4.153	3.887	90- 95	2.549	5981
100.0	4.654	4.531	2.122	4.291	7.504	5.027	4.672	4.830	95-100	2.429	5983
105.0	5.500	4.666	2.596	4.448	7.927	5.703	5.327	5.617	100-105	2.642	5986
110.0	6.190	4.959	3.070	4.718	8.261	6.312	5.937	6.291	105-110	2.841	5988
115.0	6.725	5.275	3.521	5.010	8.573	6.830	6.524	6.920	110-115	2.988	5991
120.0	7.215	5.635	3.950	5.302	8.974	7.326	7.043	7.459	115-120	3.083	5995
125.0	7.727	6.019	4.402	5.684	9.419	7.867	7.517	7.954	120-125	3.139	5998
130.0	8.283	6.447	4.898	6.066	9.664	8.453	8.014	8.448	125-130	3.157	6001
135.0	8.729	6.853	5.395	6.448	9.620	8.859	8.578	8.897	130-135	3.110	6004
140.0	8.929	7.168	5.846	6.763	9.419	8.949	9.007	9.055	135-140	2.963	6007
145.0	8.862	7.394	6.208	6.987	9.174	8.882	9.187	8.987	140-145	2.717	6010
150.0	8.707	7.574	6.546	7.190	8.974	8.792	9.187	8.852	145-150	2.413	6012
155.0	8.573	7.732	6.840	7.392	8.818	8.679	9.165	8.740	150-155	2.080	6014
160.0	8.506	7.890	7.156	7.572	8.751	8.611	9.142	8.628	155-160	1.728	6016
165.0	8.484	8.048	7.472	7.751	8.707	8.544	9.052	8.538	160-165	1.363	6017
170.0	8.528	8.205	7.765	7.976	8.684	8.476	8.939	8.425	165-170	0.986	6018
175.0	8.528	8.341	8.059	8.133	8.662	8.363	8.713	8.268	170-175	0.596	6019
180.0	8.617	8.431	8.375	8.291	8.617	8.296	8.465	8.133	175-180	0.199	6019
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

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

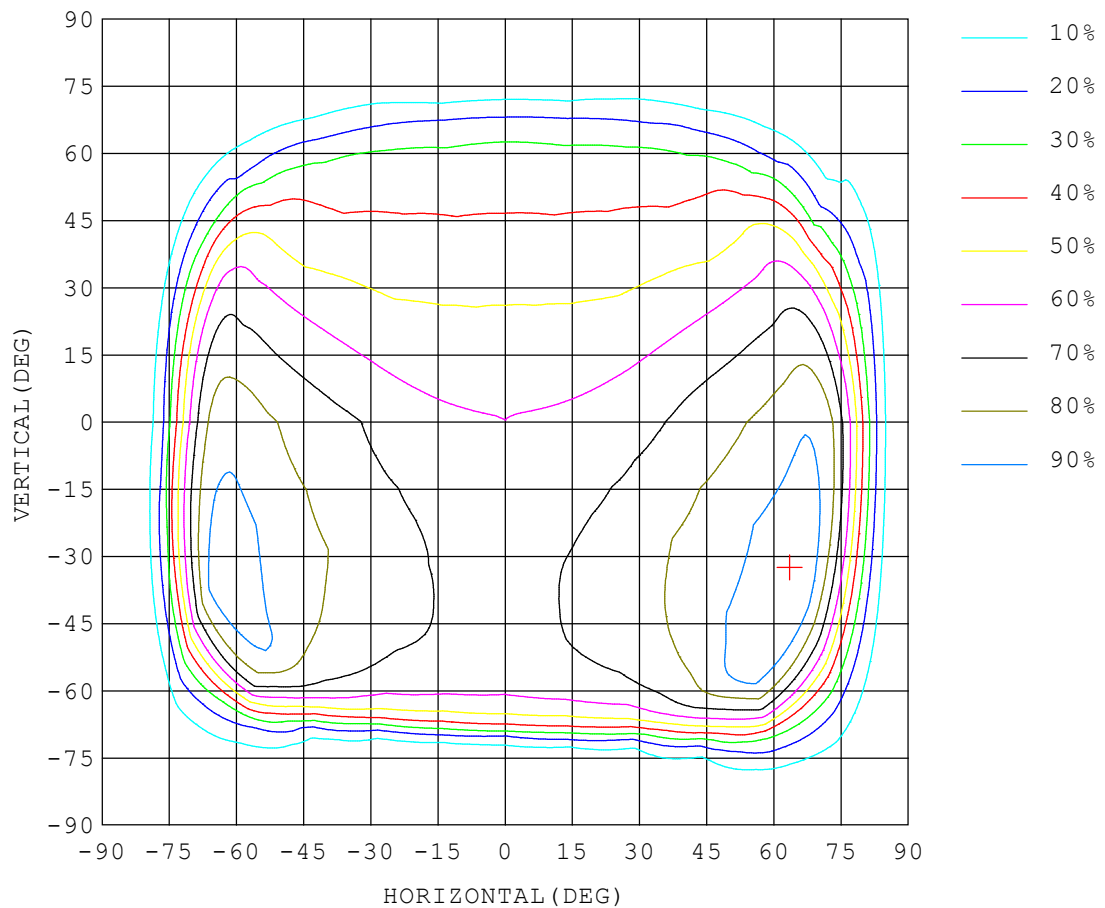
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE: IL-ST11-D04040-TY3	WEIGHT:
SPECIFICATION: 5050LED 4000K Type III	DIMENSION:	SERIAL No.:

UNIT: cd



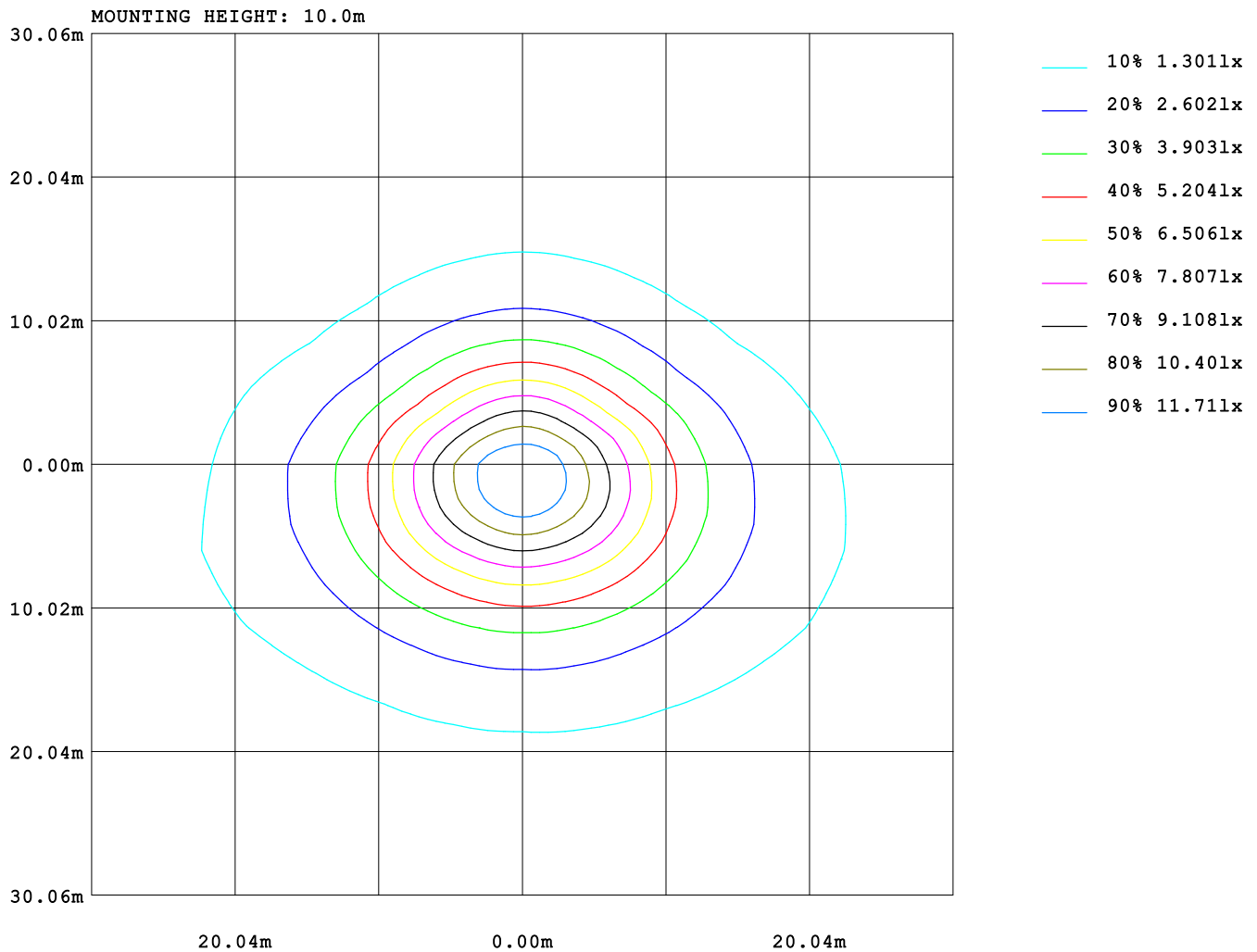
Test System:
Temperature: 25.3 DEG
Operators:
Test Date: 2025.03.23

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-D04040-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-D04040-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	1282	1282	1282	1282	1282	1282	1282	1282	1282	1282	1282	1282	1282	1282	1282
5.0	1283	1293	1302	1311	1317	1322	1322	1321	1316	1310	1302	1292	1285	1274	1262
10.0	1288	1308	1326	1342	1351	1358	1359	1357	1349	1339	1324	1307	1296	1272	1245
15.0	1301	1331	1356	1375	1387	1395	1396	1393	1384	1371	1354	1331	1317	1277	1231
20.0	1323	1365	1395	1414	1421	1425	1423	1421	1414	1407	1392	1368	1351	1287	1218
25.0	1357	1414	1448	1458	1451	1447	1444	1442	1440	1447	1444	1418	1395	1304	1207
30.0	1403	1476	1513	1508	1481	1464	1458	1457	1464	1490	1503	1479	1447	1328	1193
35.0	1460	1545	1578	1561	1509	1474	1461	1463	1483	1533	1561	1542	1500	1357	1176
40.0	1524	1615	1642	1607	1532	1478	1460	1465	1497	1569	1615	1604	1550	1379	1158
45.0	1580	1680	1701	1642	1546	1481	1454	1464	1509	1596	1666	1664	1605	1395	1133
50.0	1634	1753	1763	1670	1555	1477	1434	1453	1513	1617	1712	1738	1669	1408	1096
55.0	1693	1835	1814	1691	1537	1441	1391	1412	1485	1624	1755	1818	1752	1421	1047
60.0	1766	1930	1883	1695	1483	1368	1302	1330	1414	1607	1810	1931	1829	1419	990
65.0	1848	2058	1972	1668	1349	1159	1076	1089	1218	1520	1889	2059	1754	1396	892
70.0	1833	2082	2060	1544	964	649	438	496	677	1156	1808	1977	1314	1021	608
75.0	1506	1733	1697	875	209	133	118	120	121	262	1147	1422	604	427	252
80.0	822	905	643	158	75.6	64.8	58.8	56.1	57.3	75.1	266	505	111	86.1	42.1
85.0	204	209	122	43.4	23.7	20.5	13.1	17.0	15.1	24.8	37.3	64.7	11.0	7.51	11.7
90.0	12.1	16.4	8.86	9.15	3.52	5.42	2.57	5.23	3.17	6.02	3.91	7.94	6.72	4.42	6.37
95.0	3.74	6.28	3.02	4.80	2.34	4.00	1.91	3.86	2.22	4.42	2.97	5.89	7.03	5.34	6.62
100.0	4.65	6.10	3.43	4.53	2.32	3.61	2.12	3.56	2.34	4.29	3.33	5.91	7.50	6.17	7.11
105.0	5.50	6.37	3.97	4.66	2.82	3.82	2.59	3.79	2.79	4.44	3.84	6.16	7.92	6.79	7.49
110.0	6.19	6.75	4.57	4.95	3.29	4.11	3.07	4.06	3.26	4.71	4.34	6.47	8.26	7.31	7.83
115.0	6.72	7.09	5.11	5.27	3.76	4.40	3.52	4.37	3.71	5.01	4.81	6.74	8.57	7.78	8.19
120.0	7.21	7.42	5.65	5.63	4.24	4.72	3.95	4.67	4.14	5.30	5.25	7.03	8.97	8.29	8.61
125.0	7.72	7.80	6.14	6.01	4.69	5.08	4.40	5.03	4.59	5.68	5.70	7.36	9.41	8.87	9.15
130.0	8.28	8.23	6.66	6.44	5.21	5.49	4.89	5.44	5.11	6.06	6.17	7.76	9.66	9.25	9.65
135.0	8.72	8.61	7.11	6.85	5.73	5.90	5.39	5.84	5.58	6.44	6.60	8.08	9.62	9.28	9.78
140.0	8.92	8.81	7.42	7.16	6.16	6.30	5.84	6.25	5.98	6.76	6.89	8.21	9.41	9.10	9.62
145.0	8.86	8.81	7.60	7.39	6.49	6.64	6.20	6.59	6.32	6.98	7.05	8.21	9.17	8.87	9.42
150.0	8.70	8.74	7.72	7.57	6.79	6.92	6.54	6.88	6.61	7.19	7.20	8.19	8.97	8.70	9.20
155.0	8.57	8.70	7.83	7.73	7.08	7.19	6.84	7.20	6.91	7.39	7.34	8.17	8.81	8.54	9.02
160.0	8.50	8.65	7.92	7.89	7.33	7.44	7.15	7.47	7.18	7.57	7.49	8.14	8.75	8.45	8.88
165.0	8.48	8.63	8.01	8.04	7.60	7.68	7.47	7.72	7.47	7.75	7.63	8.19	8.70	8.41	8.77
170.0	8.52	8.63	8.14	8.20	7.82	7.96	7.76	7.96	7.72	7.97	7.81	8.23	8.68	8.41	8.70
175.0	8.52	8.61	8.23	8.34	8.03	8.16	8.05	8.15	7.92	8.13	7.94	8.28	8.66	8.38	8.59
180.0	8.61	8.58	8.37	8.43	8.28	8.36	8.37	8.35	8.19	8.29	8.12	8.28	8.61	8.41	8.48

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-D04040-TY3	WEIGHT:
SPECIFICATION:5050LED 4000K Type III	DIMENSION:	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	225	240	255	270	285	300	315	330	345
0.0	1282	1282	1282	1282	1282	1282	1282	1282	1282
5.0	1252	1244	1240	1239	1241	1245	1253	1263	1274
10.0	1223	1206	1198	1196	1200	1208	1224	1245	1272
15.0	1195	1171	1157	1156	1160	1173	1195	1230	1274
20.0	1165	1133	1119	1117	1122	1135	1165	1216	1283
25.0	1135	1097	1079	1074	1081	1098	1134	1204	1298
30.0	1106	1060	1032	1024	1034	1060	1106	1190	1320
35.0	1072	1015	978	970	980	1015	1073	1174	1352
40.0	1035	967	926	920	929	967	1039	1160	1380
45.0	991	915	875	869	878	918	999	1141	1398
50.0	937	857	817	813	820	862	949	1110	1406
55.0	868	792	757	756	760	798	884	1060	1412
60.0	790	719	680	683	688	728	809	1000	1406
65.0	678	611	573	582	585	630	709	940	1397
70.0	441	340	313	325	334	429	522	701	1204
75.0	169	145	89.9	99.6	101	189	239	329	631
80.0	31.6	26.5	11.2	13.4	13.4	27.8	70.9	84.5	171
85.0	6.24	7.73	1.89	3.95	1.76	7.99	10.4	18.1	13.9
90.0	3.33	4.55	2.14	3.81	2.09	4.52	3.01	6.40	4.44
95.0	4.19	4.91	2.87	4.15	2.82	4.81	3.88	6.35	4.84
100.0	5.02	5.46	3.68	4.67	3.65	5.40	4.83	6.89	5.73
105.0	5.70	6.02	4.47	5.32	4.49	6.05	5.61	7.34	6.40
110.0	6.31	6.56	5.22	5.93	5.26	6.64	6.29	7.72	6.92
115.0	6.83	6.99	5.90	6.52	5.98	7.13	6.92	8.12	7.38
120.0	7.32	7.40	6.44	7.04	6.56	7.63	7.45	8.55	7.81
125.0	7.86	7.89	6.98	7.51	7.11	8.05	7.95	8.99	8.34
130.0	8.45	8.41	7.59	8.01	7.65	8.50	8.44	9.51	8.88
135.0	8.85	8.89	8.18	8.57	8.19	8.98	8.89	9.78	9.08
140.0	8.94	9.16	8.66	9.00	8.64	9.27	9.05	9.69	9.01
145.0	8.88	9.20	8.86	9.18	8.82	9.31	8.98	9.46	8.84
150.0	8.79	9.16	8.91	9.18	8.84	9.25	8.85	9.24	8.66
155.0	8.67	9.07	8.88	9.16	8.80	9.16	8.74	9.04	8.52
160.0	8.61	8.98	8.81	9.14	8.75	9.04	8.62	8.88	8.39
165.0	8.54	8.89	8.72	9.05	8.66	8.91	8.53	8.75	8.32
170.0	8.47	8.75	8.59	8.93	8.55	8.77	8.42	8.61	8.26
175.0	8.36	8.57	8.39	8.71	8.35	8.55	8.26	8.43	8.14
180.0	8.29	8.39	8.23	8.46	8.21	8.32	8.13	8.28	8.10

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: