

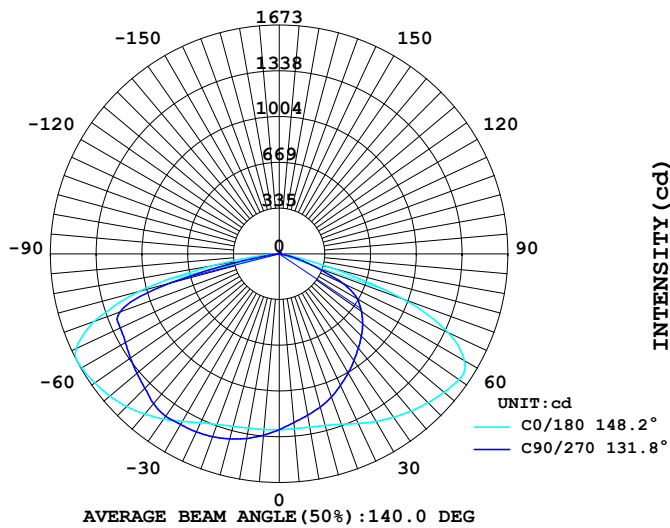
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

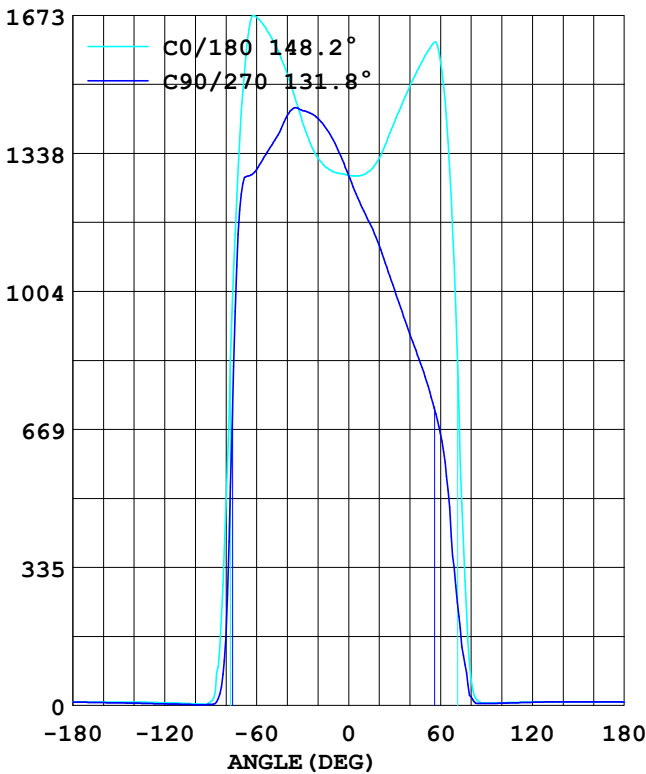
MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE: IL-ST11-D04040-TY4	WEIGHT:
SPECIFICATION: 5050LED 4000K Type IV	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	1787	S/MH (C0/180)	1.79
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.68
NOMINAL POWER(W)	40	TOTAL FLUX(lm)	6063.4	Voltage(V)	230.1
RATED VOLTAGE (V)	230	EFFICIENCY (lm/W)	150.5	Current(A)	0.175
NOMINAL FLUX(lm)	6063.5	η up (%)	0.7	Power(W)	40.29
LAMPS QUANTITY	1	η down (%)	99.3	Power Factor (PF)	0.996
TEST VOLTAGE (V)	230.2	Effective Flux(lm)	6063.5	EEI	0.100

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



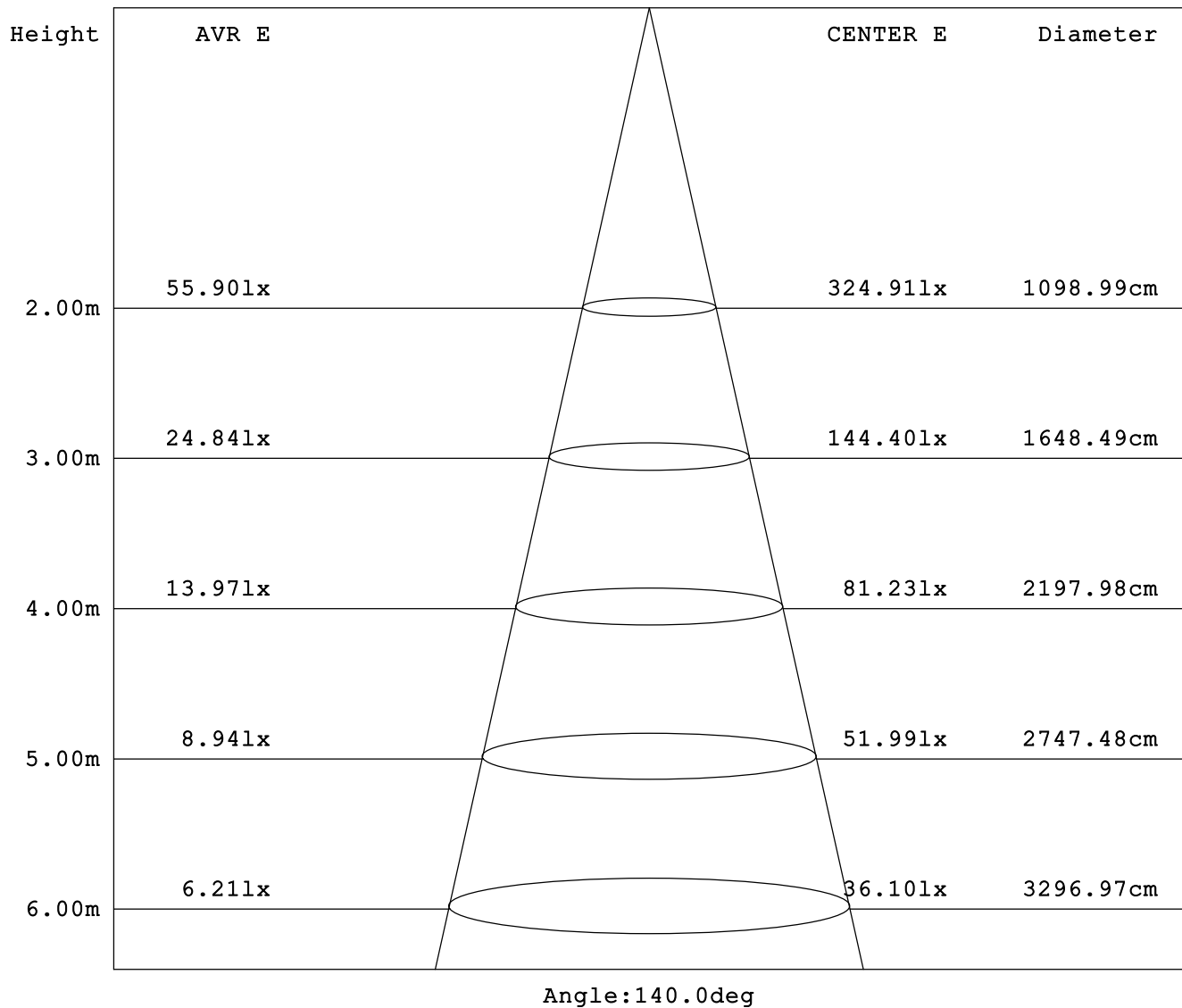
Test System:
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2025.03.24

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-D04040-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-D04040-TY4	WEIGHT:
SPECIFICATION:5050LED 4000K Type IV	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	1289	1321	1332	1316	1284	1249	1239	1253	0- 5	30.72	30.72
10.0	1294	1353	1371	1341	1287	1217	1199	1224	5- 10	91.95	122.6
15.0	1306	1385	1401	1366	1300	1189	1160	1199	10- 15	152.6	275.3
20.0	1328	1421	1423	1392	1326	1157	1116	1169	15- 20	212.5	487.8
25.0	1364	1461	1436	1421	1368	1131	1062	1144	20- 25	271.4	759.3
30.0	1414	1503	1442	1452	1415	1103	1007	1118	25- 30	329.5	1089
35.0	1475	1548	1449	1481	1458	1075	953.9	1091	30- 35	386.5	1475
40.0	1530	1591	1430	1507	1500	1047	901.2	1064	35- 40	440.5	1916
45.0	1578	1630	1390	1531	1539	1014	849.9	1036	40- 45	489.9	2406
50.0	1617	1662	1359	1549	1575	980.5	797.5	1003	45- 50	533.7	2940
55.0	1647	1681	1330	1554	1604	942.5	734.2	964.3	50- 55	571.2	3511
60.0	1668	1684	1300	1552	1563	892.6	659.3	915.1	55- 60	600.2	4111
65.0	1639	1666	1284	1530	1368	816.0	521.7	844.3	60- 65	611.6	4723
70.0	1440	1591	1240	1463	965.2	624.3	290.5	670.5	65- 70	579.6	5302
75.0	1057	1195	821.9	1049	395.4	271.1	121.1	314.0	70- 75	453.5	5756
80.0	481.5	390.8	164.6	239.2	63.25	47.29	21.23	74.99	75- 80	219.5	5975
85.0	94.63	46.32	16.57	26.29	9.927	7.931	4.946	11.22	80- 85	40.75	6016
90.0	8.684	7.570	2.710	6.579	5.841	3.514	4.856	3.323	85- 90	6.111	6022
95.0	3.220	5.137	1.829	4.917	6.174	4.416	5.217	4.154	90- 95	2.577	6025
100.0	3.997	4.889	2.123	4.715	6.685	5.249	5.759	4.984	95-100	2.498	6027
105.0	4.819	5.024	2.597	4.872	7.196	5.903	6.301	5.658	100-105	2.702	6030
110.0	5.552	5.272	3.071	5.097	7.595	6.489	6.821	6.242	105-110	2.887	6033
115.0	6.107	5.542	3.523	5.344	7.973	6.984	7.295	6.758	110-115	3.020	6036
120.0	6.596	5.880	3.952	5.636	8.351	7.503	7.770	7.297	115-120	3.099	6039
125.0	7.107	6.241	4.404	5.972	8.773	8.088	8.289	7.903	120-125	3.151	6042
130.0	7.618	6.646	4.878	6.377	9.083	8.629	8.809	8.465	125-130	3.174	6045
135.0	8.084	7.029	5.375	6.736	9.239	8.877	9.080	8.757	130-135	3.115	6049
140.0	8.373	7.300	5.805	7.005	9.195	8.900	9.125	8.802	135-140	2.944	6052
145.0	8.462	7.480	6.166	7.185	9.083	8.832	9.125	8.734	140-145	2.693	6054
150.0	8.439	7.615	6.505	7.342	8.928	8.742	9.080	8.644	145-150	2.393	6057
155.0	8.373	7.750	6.821	7.477	8.817	8.652	9.057	8.555	150-155	2.064	6059
160.0	8.351	7.863	7.092	7.634	8.728	8.584	9.035	8.487	155-160	1.716	6060
165.0	8.351	8.021	7.408	7.791	8.706	8.517	8.989	8.420	160-165	1.355	6062
170.0	8.417	8.156	7.724	7.971	8.661	8.449	8.899	8.352	165-170	0.981	6063
175.0	8.439	8.291	7.996	8.105	8.595	8.336	8.651	8.195	170-175	0.593	6063
180.0	8.550	8.404	8.312	8.240	8.550	8.246	8.402	8.083	175-180	0.198	6063
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

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

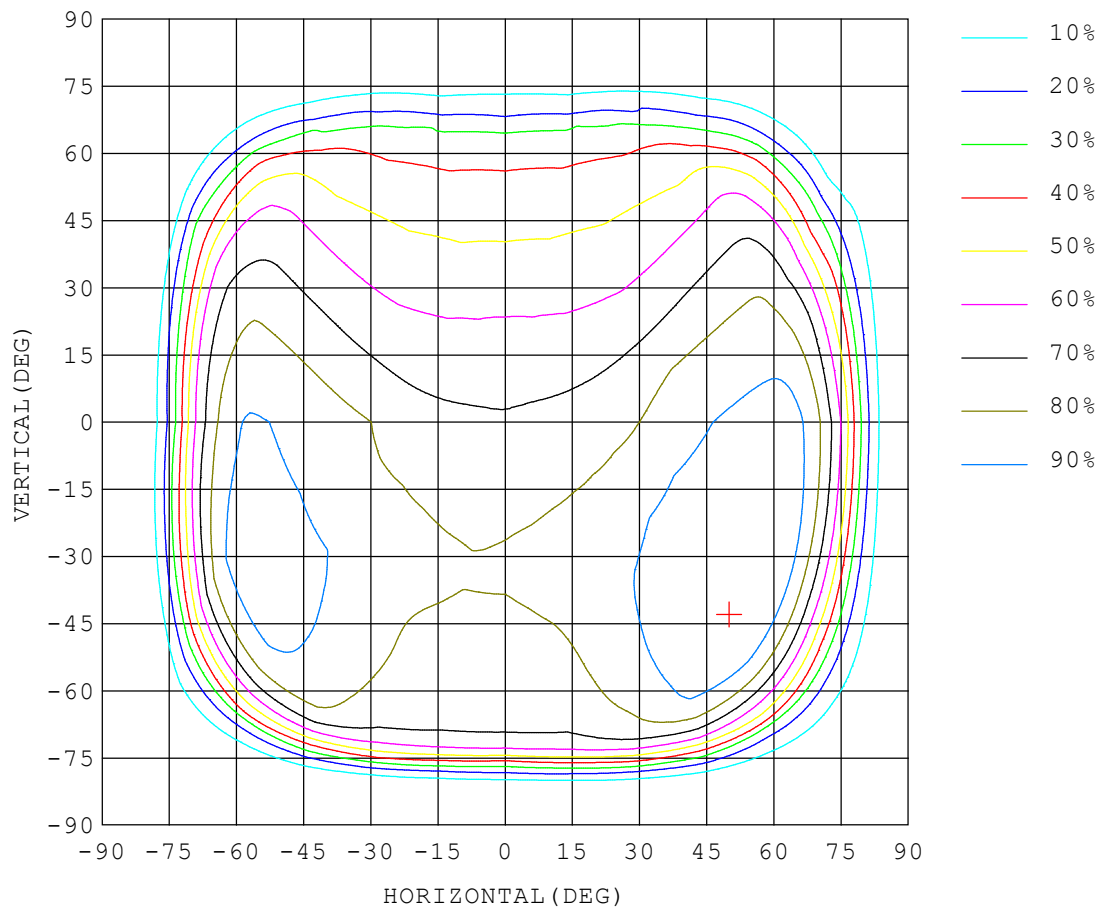
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE: IL-ST11-D04040-TY4	WEIGHT:
SPECIFICATION: 5050LED 4000K Type IV	DIMENSION:	SERIAL No.:

UNIT: cd



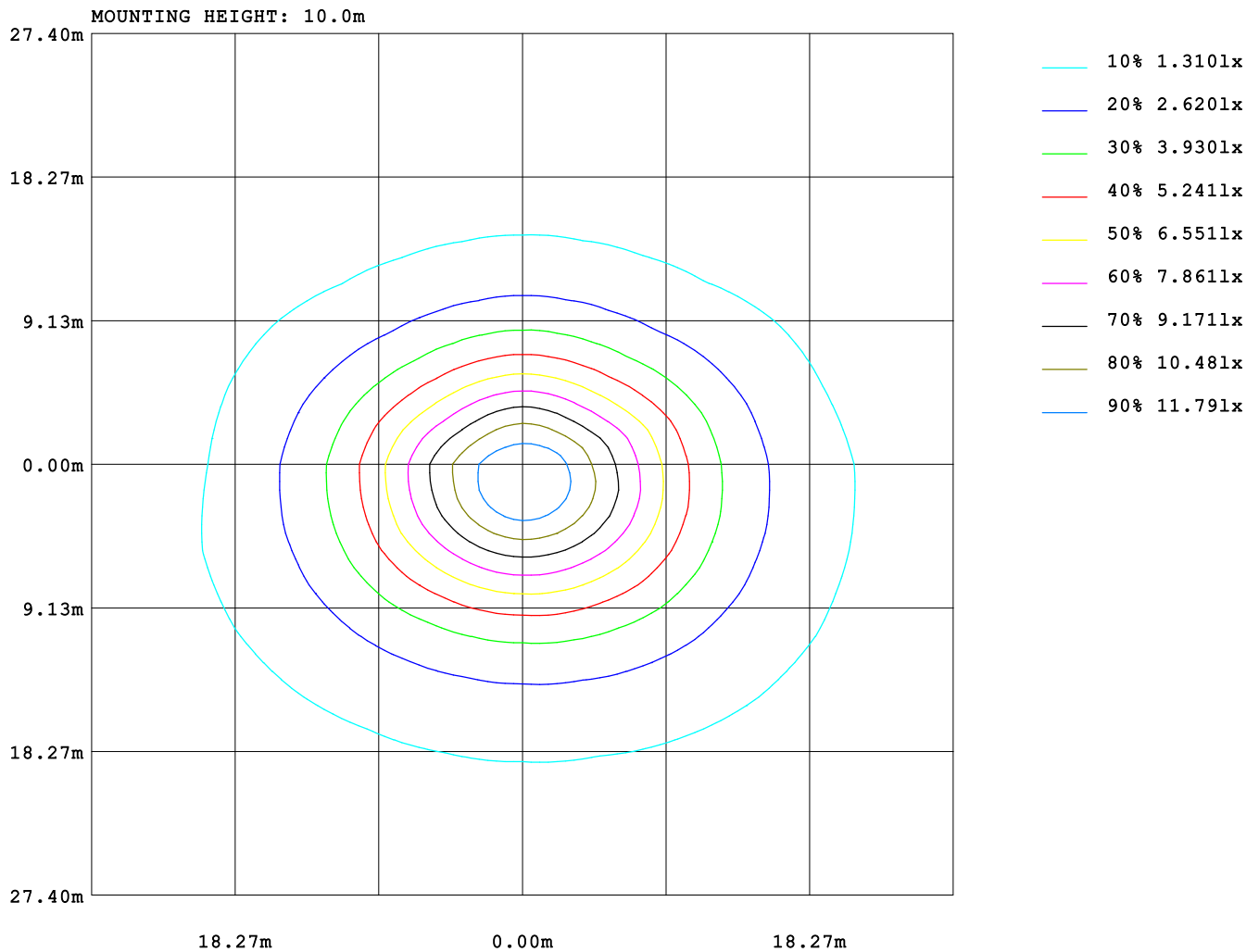
Test System:
Temperature: 25.3 DEG
Operators:
Test Date: 2025.03.24

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-D04040-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-D04040-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	1285	1285	1285	1285	1285	1285	1285	1285	1285	1285	1285	1285	1285	1285	1285
5.0	1289	1301	1312	1321	1328	1331	1332	1329	1323	1316	1305	1294	1284	1271	1260
10.0	1294	1317	1338	1353	1364	1370	1371	1365	1356	1341	1325	1304	1287	1262	1237
15.0	1306	1340	1367	1385	1395	1401	1401	1394	1381	1366	1345	1318	1300	1259	1218
20.0	1328	1375	1405	1421	1426	1426	1423	1415	1404	1392	1372	1343	1326	1265	1205
25.0	1364	1421	1453	1461	1453	1443	1436	1428	1425	1421	1410	1381	1368	1284	1195
30.0	1414	1483	1510	1503	1479	1456	1442	1438	1443	1452	1453	1430	1415	1315	1190
35.0	1475	1550	1573	1548	1502	1470	1449	1447	1455	1481	1502	1484	1458	1344	1190
40.0	1530	1609	1631	1591	1518	1465	1430	1431	1460	1507	1544	1528	1500	1371	1191
45.0	1578	1662	1683	1630	1520	1445	1390	1403	1445	1531	1585	1571	1539	1396	1192
50.0	1617	1706	1729	1662	1518	1415	1359	1368	1432	1549	1619	1614	1575	1413	1187
55.0	1647	1743	1764	1681	1519	1386	1330	1338	1424	1554	1645	1656	1604	1422	1176
60.0	1668	1768	1785	1684	1509	1354	1300	1312	1403	1552	1664	1686	1563	1403	1157
65.0	1639	1738	1775	1666	1475	1315	1284	1292	1360	1530	1649	1642	1368	1278	1097
70.0	1440	1515	1590	1591	1396	1258	1240	1244	1282	1463	1476	1404	965	1009	879
75.0	1057	1033	1132	1195	1097	940	822	874	972	1049	996	877	395	550	422
80.0	482	396	349	391	298	204	165	171	205	239	221	242	63.2	91.7	67.1
85.0	94.6	63.2	72.0	46.3	24.8	23.4	16.5	22.1	18.4	26.2	29.8	26.9	9.92	7.70	12.8
90.0	8.68	11.3	6.21	7.57	3.20	5.96	2.71	5.84	3.21	6.57	3.93	7.17	5.84	4.31	6.75
95.0	3.22	5.69	3.21	5.13	2.39	4.20	1.82	4.06	2.25	4.91	3.22	5.57	6.17	4.55	6.35
100.0	3.99	5.60	3.56	4.88	2.55	3.90	2.12	3.83	2.45	4.71	3.57	5.66	6.68	5.45	6.89
105.0	4.81	5.92	4.08	5.02	3.06	4.09	2.59	3.99	2.94	4.87	4.09	5.97	7.19	6.21	7.36
110.0	5.55	6.27	4.62	5.27	3.54	4.31	3.07	4.24	3.42	5.09	4.58	6.30	7.59	6.81	7.74
115.0	6.10	6.61	5.09	5.54	3.99	4.60	3.52	4.51	3.82	5.34	5.01	6.62	7.97	7.30	8.10
120.0	6.59	6.97	5.56	5.88	4.44	4.90	3.95	4.78	4.25	5.63	5.43	6.93	8.35	7.77	8.48
125.0	7.10	7.35	6.08	6.24	4.94	5.24	4.40	5.10	4.70	5.97	5.90	7.28	8.77	8.26	8.93
130.0	7.61	7.79	6.62	6.64	5.41	5.62	4.87	5.50	5.20	6.37	6.37	7.69	9.08	8.67	9.36
135.0	8.08	8.22	7.09	7.02	5.86	6.01	5.37	5.89	5.67	6.73	6.79	8.02	9.23	8.87	9.51
140.0	8.37	8.44	7.38	7.30	6.27	6.37	5.80	6.27	6.05	7.00	7.06	8.20	9.19	8.89	9.47
145.0	8.46	8.53	7.54	7.48	6.54	6.66	6.16	6.58	6.37	7.18	7.22	8.24	9.08	8.78	9.33
150.0	8.43	8.53	7.67	7.61	6.81	6.93	6.50	6.90	6.64	7.34	7.35	8.24	8.92	8.67	9.15
155.0	8.37	8.51	7.76	7.75	7.06	7.20	6.82	7.17	6.91	7.47	7.44	8.22	8.81	8.53	9.02
160.0	8.35	8.51	7.85	7.86	7.31	7.43	7.09	7.44	7.18	7.63	7.56	8.20	8.72	8.44	8.89
165.0	8.35	8.51	7.94	8.02	7.56	7.68	7.40	7.69	7.45	7.79	7.67	8.20	8.70	8.40	8.77
170.0	8.41	8.51	8.08	8.15	7.78	7.93	7.72	7.92	7.69	7.97	7.82	8.22	8.66	8.37	8.68
175.0	8.43	8.51	8.17	8.29	8.01	8.13	7.99	8.12	7.87	8.10	7.94	8.24	8.59	8.33	8.57
180.0	8.55	8.49	8.32	8.40	8.23	8.31	8.31	8.28	8.14	8.24	8.11	8.24	8.55	8.33	8.46

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-D04040-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	1285	1285	1285	1285	1285	1285	1285	1285	1285
5.0	1249	1243	1239	1239	1239	1245	1253	1265	1277
10.0	1217	1205	1199	1199	1201	1210	1224	1247	1274
15.0	1189	1169	1160	1160	1163	1175	1199	1233	1278
20.0	1157	1132	1116	1116	1119	1138	1169	1225	1290
25.0	1131	1089	1065	1062	1069	1097	1144	1220	1316
30.0	1103	1044	1013	1007	1016	1052	1118	1220	1355
35.0	1075	1001	960	954	964	1008	1091	1224	1395
40.0	1047	957	910	901	916	967	1064	1231	1428
45.0	1014	913	859	850	866	924	1036	1236	1454
50.0	981	868	805	798	812	878	1003	1236	1470
55.0	943	813	746	734	754	826	964	1225	1477
60.0	893	748	673	659	682	762	915	1204	1468
65.0	816	665	557	522	566	681	844	1167	1334
70.0	624	469	320	291	329	489	671	939	1100
75.0	271	205	118	121	123	224	314	524	618
80.0	47.2	43.9	19.5	21.2	22.1	51.8	74.9	114	148
85.0	7.93	10.6	3.16	4.94	3.00	10.4	11.2	17.1	11.5
90.0	3.51	5.68	3.11	4.85	3.02	5.58	3.32	6.59	4.30
95.0	4.41	5.80	3.90	5.21	3.81	5.65	4.15	6.15	4.23
100.0	5.24	6.27	4.67	5.75	4.60	6.12	4.98	6.62	5.08
105.0	5.90	6.70	5.40	6.30	5.30	6.57	5.65	7.06	5.81
110.0	6.48	7.13	6.03	6.82	5.95	7.02	6.24	7.42	6.39
115.0	6.98	7.53	6.57	7.29	6.54	7.47	6.75	7.76	6.86
120.0	7.50	7.98	7.11	7.77	7.10	7.92	7.29	8.11	7.26
125.0	8.08	8.53	7.72	8.28	7.71	8.44	7.90	8.58	7.73
130.0	8.62	9.07	8.29	8.80	8.25	8.98	8.46	9.08	8.20
135.0	8.87	9.25	8.60	9.08	8.55	9.20	8.75	9.30	8.49
140.0	8.90	9.25	8.72	9.12	8.64	9.18	8.80	9.30	8.58
145.0	8.83	9.20	8.79	9.12	8.66	9.14	8.73	9.17	8.56
150.0	8.74	9.14	8.79	9.08	8.64	9.05	8.64	9.01	8.47
155.0	8.65	9.04	8.76	9.05	8.62	8.95	8.55	8.87	8.35
160.0	8.58	8.98	8.74	9.03	8.59	8.89	8.48	8.76	8.29
165.0	8.51	8.89	8.67	8.98	8.55	8.80	8.42	8.65	8.22
170.0	8.44	8.75	8.54	8.89	8.48	8.68	8.35	8.54	8.15
175.0	8.33	8.55	8.33	8.65	8.28	8.48	8.19	8.38	8.09
180.0	8.24	8.35	8.18	8.40	8.14	8.26	8.08	8.25	8.09

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: