

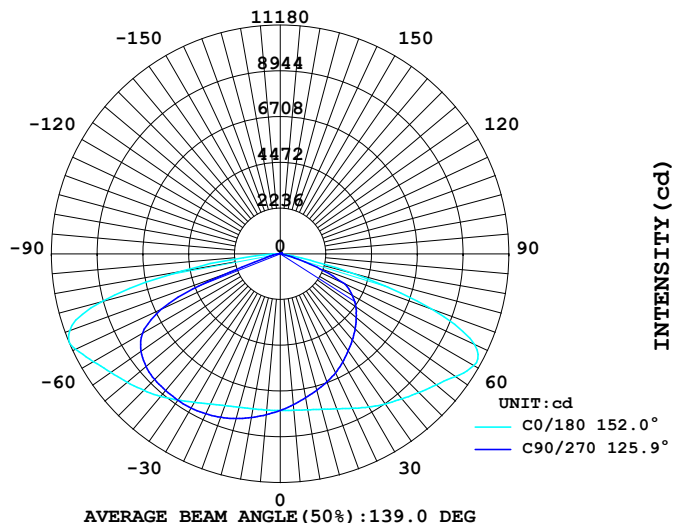
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

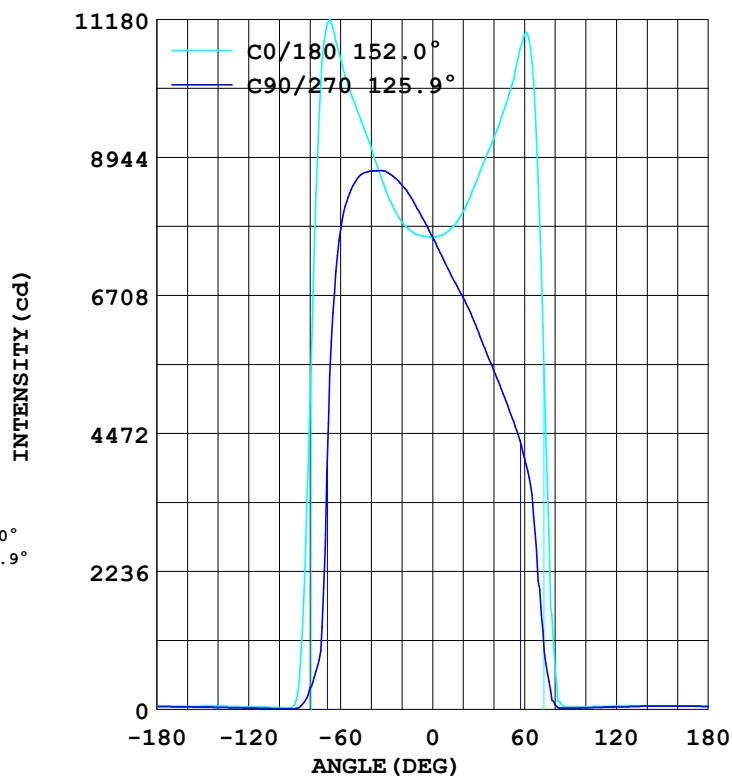
MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE: IL-ST11-D24040-TY3	WEIGHT:
SPECIFICATION: 5050LED 4000K Type III	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	12601	S/MH (C0/180)	1.79
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.71
NOMINAL POWER(W)	240	TOTAL FLUX(lm)	35947	Voltage(V)	230.5
RATED VOLTAGE (V)	230	EFFICIENCY (lm/W)	149.6	Current(A)	1.046
NOMINAL FLUX(lm)	35947.2	η up (%)	0.7	Power(W)	240.3
LAMPS QUANTITY	1	η down (%)	99.3	Power Factor (PF)	0.996
TEST VOLTAGE (V)	230.5	Effective Flux(lm)	35947.2	EEL	0.100

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



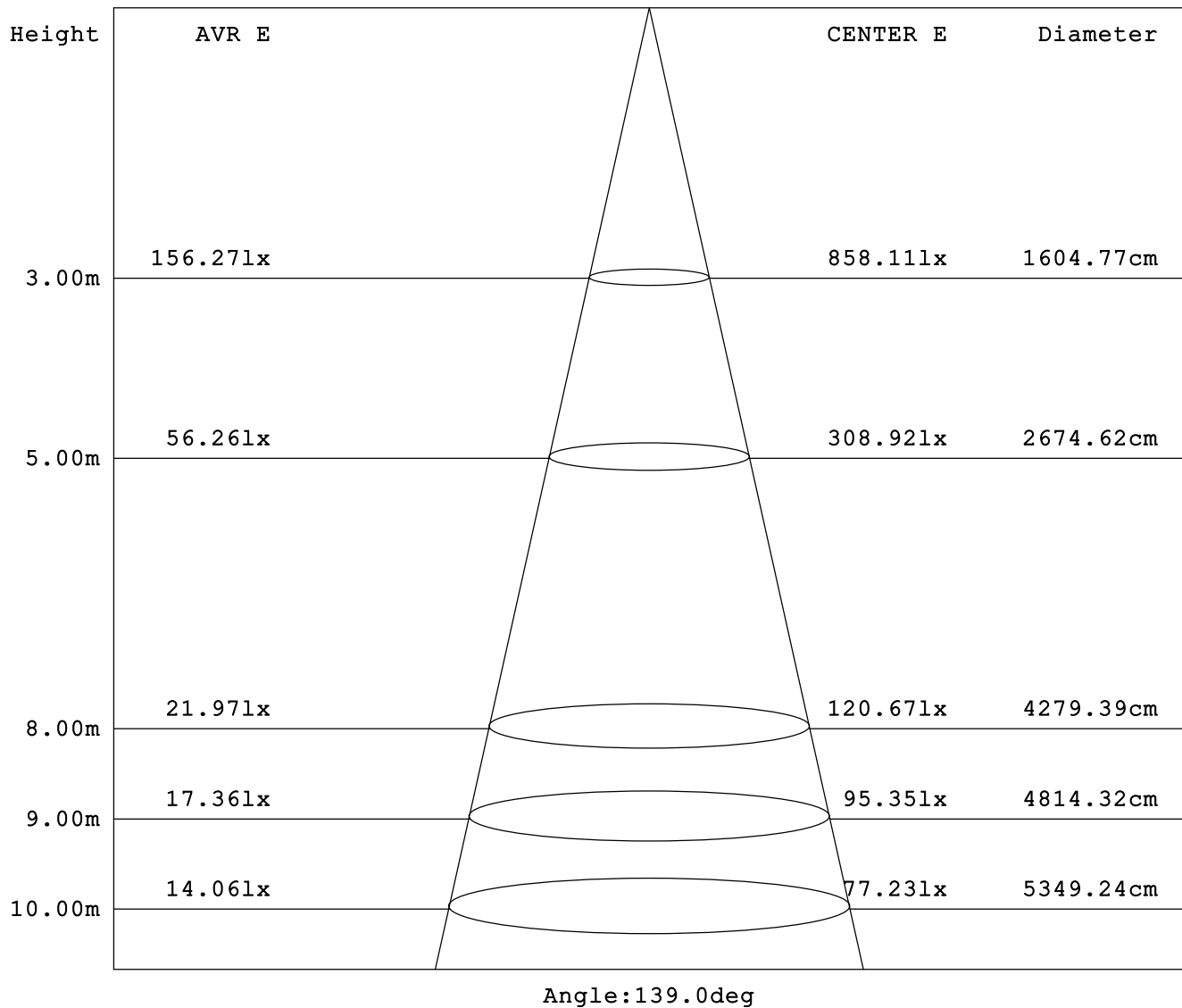
Test System:
Temperature: 25.3 DEG
Operators:
Test Date: 2025.03.23

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-D24040-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-D24040-TY3	WEIGHT:
SPECIFICATION: 5050LED 4000K Type III	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	766.0	783.1	789.2	782.6	767.3	747.8	739.6	748.3	0- 5	183.0	183.0
10.0	769.2	801.3	811.5	799.6	774.2	730.4	714.3	730.7	5- 10	547.9	730.9
15.0	776.8	821.1	833.4	818.9	786.5	713.7	690.3	713.7	10- 15	910.8	1642
20.0	789.8	844.7	849.8	840.3	806.6	696.0	666.9	695.8	15- 20	1271	2913
25.0	810.1	870.9	862.1	864.0	833.2	678.1	641.3	677.3	20- 25	1629	4542
30.0	838.0	900.6	870.7	889.8	863.9	660.7	611.2	660.2	25- 30	1982	6524
35.0	872.1	932.2	872.7	915.7	895.8	640.4	579.1	641.0	30- 35	2325	8849
40.0	909.9	959.5	872.0	937.1	925.4	617.9	549.2	620.5	35- 40	2653	11502
45.0	943.6	980.8	868.5	953.4	958.3	591.9	518.8	596.5	40- 45	2957	14458
50.0	976.1	997.3	856.4	965.5	997.0	559.4	485.4	566.5	45- 50	3229	17688
55.0	1011	1010	830.4	970.0	1046	518.2	451.7	527.7	50- 55	3460	21147
60.0	1054	1013	777.5	959.8	1092	471.7	407.8	482.9	55- 60	3634	24782
65.0	1104	996.2	642.5	907.9	1048	404.7	347.5	423.1	60- 65	3705	28487
70.0	1095	922.3	261.6	690.1	784.6	263.6	194.1	311.6	65- 70	3418	31905
75.0	899.6	522.7	70.24	156.7	360.8	100.7	59.52	142.7	70- 75	2336	34241
80.0	491.0	94.48	35.12	44.86	66.11	18.90	8.008	42.36	75- 80	1092	35333
85.0	122.1	25.95	7.846	14.85	6.596	3.729	2.359	6.253	80- 85	315.1	35648
90.0	7.234	5.466	1.536	3.596	4.016	1.992	2.278	1.798	85- 90	54.42	35702
95.0	2.234	2.867	1.145	2.643	4.202	2.504	2.480	2.321	90- 95	15.22	35718
100.0	2.779	2.706	1.267	2.563	4.481	3.002	2.790	2.885	95-100	14.51	35732
105.0	3.284	2.786	1.550	2.656	4.734	3.406	3.181	3.354	100-105	15.77	35748
110.0	3.697	2.962	1.833	2.818	4.934	3.769	3.545	3.757	105-110	16.97	35765
115.0	4.016	3.150	2.103	2.992	5.120	4.079	3.896	4.133	110-115	17.85	35783
120.0	4.309	3.365	2.359	3.166	5.359	4.375	4.206	4.455	115-120	18.41	35801
125.0	4.614	3.594	2.629	3.395	5.625	4.698	4.489	4.750	120-125	18.74	35820
130.0	4.947	3.850	2.925	3.623	5.771	5.048	4.786	5.045	125-130	18.85	35839
135.0	5.213	4.092	3.222	3.851	5.745	5.291	5.123	5.313	130-135	18.57	35857
140.0	5.333	4.281	3.491	4.039	5.625	5.345	5.379	5.407	135-140	17.70	35875
145.0	5.293	4.416	3.707	4.173	5.479	5.304	5.487	5.367	140-145	16.23	35891
150.0	5.200	4.523	3.909	4.294	5.359	5.250	5.487	5.287	145-150	14.41	35906
155.0	5.120	4.618	4.085	4.414	5.266	5.183	5.473	5.220	150-155	12.42	35918
160.0	5.080	4.712	4.273	4.522	5.226	5.143	5.460	5.152	155-160	10.32	35928
165.0	5.067	4.806	4.462	4.629	5.200	5.102	5.406	5.099	160-165	8.145	35937
170.0	5.093	4.900	4.637	4.763	5.186	5.062	5.338	5.032	165-170	5.888	35942
175.0	5.093	4.981	4.813	4.857	5.173	4.995	5.204	4.938	170-175	3.561	35946
180.0	5.146	5.035	5.001	4.951	5.146	4.954	5.055	4.857	175-180	1.188	35947
DEG	LUMINOUS INTENSITY: ×10cd									UNIT: lm	

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

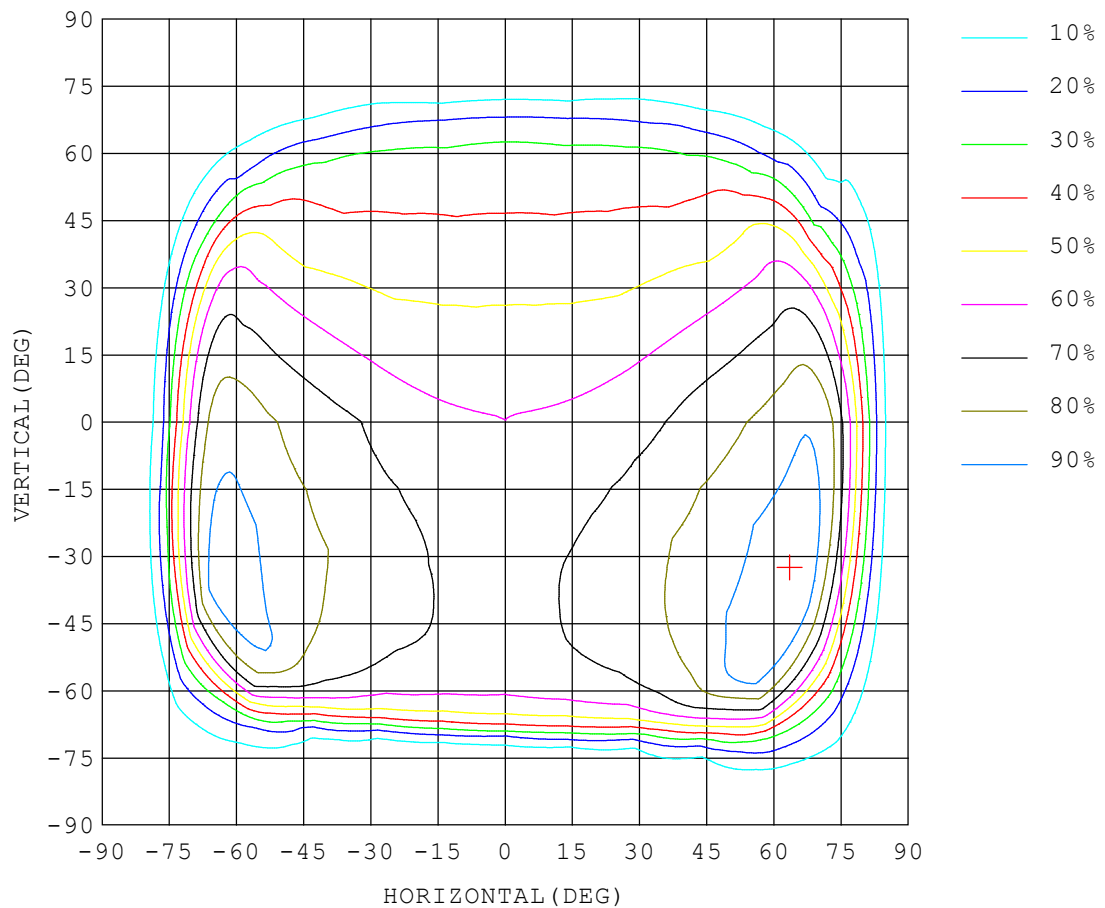
Test Set: 5.0 deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 10.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE: IL-ST11-D24040-TY3	WEIGHT:
SPECIFICATION: 5050LED 4000K Type III	DIMENSION:	SERIAL No.:

UNIT: cd



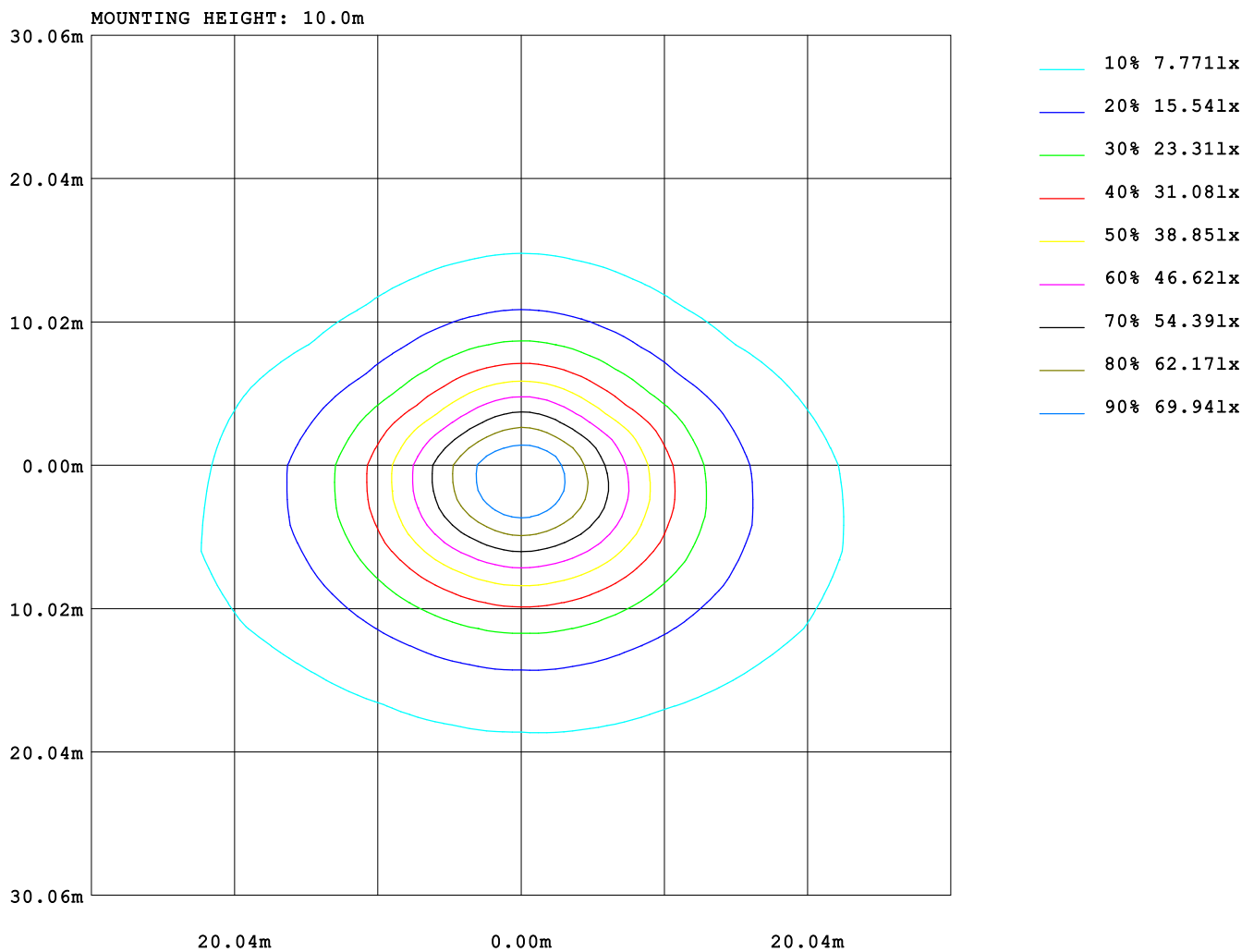
Test System:
Temperature: 25.3 DEG
Operators:
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Humidity: 65.0%
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Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE:IL-ST11-D24040-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-D24040-TY3	WEIGHT:
SPECIFICATION:5050LED 4000K Type III	DIMENSION:	SERIAL No.:

UNIT: ×10cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210
0.0	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765
5.0	766	772	778	783	786	789	789	789	786	783	777	772	767	761	754
10.0	769	781	792	801	807	811	812	811	806	800	791	781	774	760	744
15.0	777	795	810	821	828	833	833	832	826	819	808	795	787	762	735
20.0	790	815	833	845	848	851	850	849	844	840	832	817	807	769	728
25.0	810	845	865	871	866	864	862	861	860	864	862	847	833	779	721
30.0	838	881	904	901	885	874	871	870	874	890	898	883	864	793	713
35.0	872	923	943	932	901	880	873	874	886	916	932	921	896	810	702
40.0	910	964	981	960	915	883	872	875	894	937	964	958	925	823	692
45.0	944	1004	1016	981	923	885	869	874	901	953	995	994	958	833	677
50.0	976	1047	1053	997	928	882	856	868	903	966	1022	1038	997	841	654
55.0	1011	1096	1084	1010	918	861	830	843	887	970	1048	1086	1046	849	626
60.0	1054	1153	1125	1013	886	817	778	795	845	960	1081	1153	1092	847	591
65.0	1104	1229	1178	996	805	692	643	650	727	908	1128	1230	1048	833	533
70.0	1095	1244	1230	922	576	388	262	296	404	690	1080	1180	785	610	363
75.0	900	1035	1014	523	125	79.6	70.2	71.5	72.5	157	685	849	361	255	150
80.0	491	540	384	94.4	45.1	38.7	35.1	33.5	34.2	44.8	159	302	66.1	51.4	25.1
85.0	122	125	72.5	25.9	14.2	12.2	7.84	10.1	9.02	14.8	22.3	38.6	6.59	4.48	7.02
90.0	7.23	9.84	5.29	5.46	2.10	3.24	1.53	3.12	1.89	3.59	2.33	4.74	4.01	2.64	3.80
95.0	2.23	3.75	1.80	2.86	1.40	2.39	1.14	2.30	1.33	2.64	1.77	3.52	4.20	3.19	3.95
100.0	2.77	3.64	2.05	2.70	1.38	2.16	1.26	2.13	1.39	2.56	1.99	3.53	4.48	3.68	4.24
105.0	3.28	3.80	2.37	2.78	1.68	2.28	1.55	2.26	1.66	2.65	2.29	3.68	4.73	4.06	4.47
110.0	3.69	4.03	2.73	2.96	1.96	2.45	1.83	2.42	1.94	2.81	2.59	3.86	4.93	4.36	4.67
115.0	4.01	4.23	3.05	3.15	2.25	2.63	2.10	2.61	2.21	2.99	2.87	4.02	5.12	4.64	4.89
120.0	4.30	4.43	3.37	3.36	2.53	2.82	2.35	2.79	2.47	3.16	3.14	4.20	5.35	4.95	5.14
125.0	4.61	4.66	3.67	3.59	2.80	3.03	2.62	3.00	2.74	3.39	3.40	4.40	5.62	5.30	5.46
130.0	4.94	4.91	3.98	3.85	3.11	3.28	2.92	3.24	3.05	3.62	3.68	4.64	5.77	5.53	5.76
135.0	5.21	5.14	4.24	4.09	3.42	3.52	3.22	3.49	3.33	3.85	3.94	4.82	5.74	5.54	5.84
140.0	5.33	5.26	4.43	4.28	3.67	3.76	3.49	3.73	3.57	4.03	4.11	4.90	5.62	5.43	5.75
145.0	5.29	5.26	4.54	4.41	3.88	3.97	3.70	3.93	3.77	4.17	4.21	4.90	5.47	5.30	5.62
150.0	5.20	5.22	4.61	4.52	4.05	4.13	3.90	4.11	3.95	4.29	4.30	4.89	5.35	5.19	5.49
155.0	5.12	5.19	4.67	4.61	4.23	4.29	4.08	4.30	4.12	4.41	4.38	4.88	5.26	5.10	5.38
160.0	5.08	5.16	4.73	4.71	4.37	4.44	4.27	4.46	4.28	4.52	4.47	4.86	5.22	5.04	5.30
165.0	5.06	5.15	4.78	4.80	4.54	4.59	4.46	4.61	4.46	4.62	4.55	4.89	5.20	5.02	5.24
170.0	5.09	5.15	4.86	4.90	4.67	4.75	4.63	4.75	4.61	4.76	4.66	4.92	5.18	5.02	5.20
175.0	5.09	5.14	4.91	4.98	4.79	4.87	4.81	4.86	4.73	4.85	4.74	4.94	5.17	5.00	5.13
180.0	5.14	5.12	4.99	5.03	4.94	4.99	5.00	4.98	4.89	4.95	4.85	4.94	5.14	5.02	5.06

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-D24040-TY3	WEIGHT:
SPECIFICATION:5050LED 4000K Type III	DIMENSION:	SERIAL No.:

UNIT: ×10cd

C (DEG) γ (DEG)	225	240	255	270	285	300	315	330	345
0.0	765	765	765	765	765	765	765	765	765
5.0	748	743	741	740	741	743	748	754	761
10.0	730	720	716	714	717	722	731	744	759
15.0	714	699	691	690	693	701	714	735	761
20.0	696	677	668	667	670	678	696	726	766
25.0	678	655	644	641	646	656	677	719	775
30.0	661	633	616	611	617	633	660	711	788
35.0	640	606	584	579	586	606	641	701	807
40.0	618	577	553	549	555	578	621	693	824
45.0	592	547	522	519	524	548	597	681	835
50.0	559	512	488	485	490	515	567	663	840
55.0	518	473	452	452	454	476	528	633	843
60.0	472	429	406	408	411	435	483	597	839
65.0	405	365	342	348	349	376	423	561	834
70.0	264	203	187	194	199	256	312	419	719
75.0	101	86.3	53.7	59.5	60.4	113	143	197	377
80.0	18.9	15.8	6.73	8.00	8.03	16.6	42.3	50.5	102
85.0	3.72	4.62	1.13	2.35	1.05	4.77	6.25	10.8	8.32
90.0	1.99	2.72	1.28	2.27	1.25	2.70	1.79	3.82	2.65
95.0	2.50	2.93	1.71	2.48	1.68	2.87	2.32	3.79	2.89
100.0	3.00	3.26	2.20	2.79	2.18	3.22	2.88	4.11	3.42
105.0	3.40	3.59	2.67	3.18	2.68	3.61	3.35	4.38	3.82
110.0	3.76	3.92	3.11	3.54	3.14	3.96	3.75	4.61	4.13
115.0	4.07	4.17	3.52	3.89	3.57	4.26	4.13	4.85	4.41
120.0	4.37	4.42	3.84	4.20	3.92	4.55	4.45	5.10	4.66
125.0	4.69	4.71	4.17	4.48	4.24	4.81	4.75	5.37	4.98
130.0	5.04	5.02	4.53	4.78	4.57	5.08	5.04	5.68	5.30
135.0	5.29	5.30	4.88	5.12	4.89	5.36	5.31	5.84	5.42
140.0	5.34	5.47	5.17	5.37	5.16	5.53	5.40	5.78	5.38
145.0	5.30	5.49	5.29	5.48	5.27	5.56	5.36	5.65	5.28
150.0	5.25	5.47	5.32	5.48	5.28	5.52	5.28	5.52	5.17
155.0	5.18	5.41	5.30	5.47	5.25	5.47	5.22	5.40	5.09
160.0	5.14	5.36	5.26	5.46	5.23	5.40	5.15	5.30	5.01
165.0	5.10	5.30	5.21	5.40	5.17	5.32	5.09	5.22	4.97
170.0	5.06	5.22	5.13	5.33	5.11	5.24	5.03	5.14	4.93
175.0	4.99	5.12	5.01	5.20	4.98	5.10	4.93	5.03	4.86
180.0	4.95	5.01	4.91	5.05	4.90	4.97	4.85	4.94	4.84

Test System:
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