

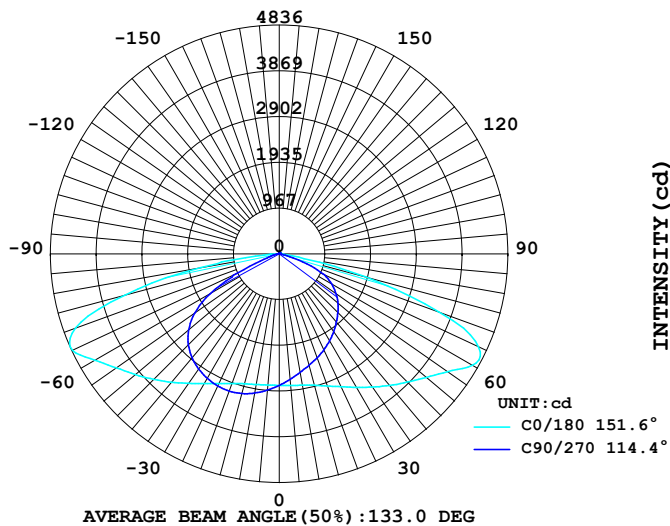
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

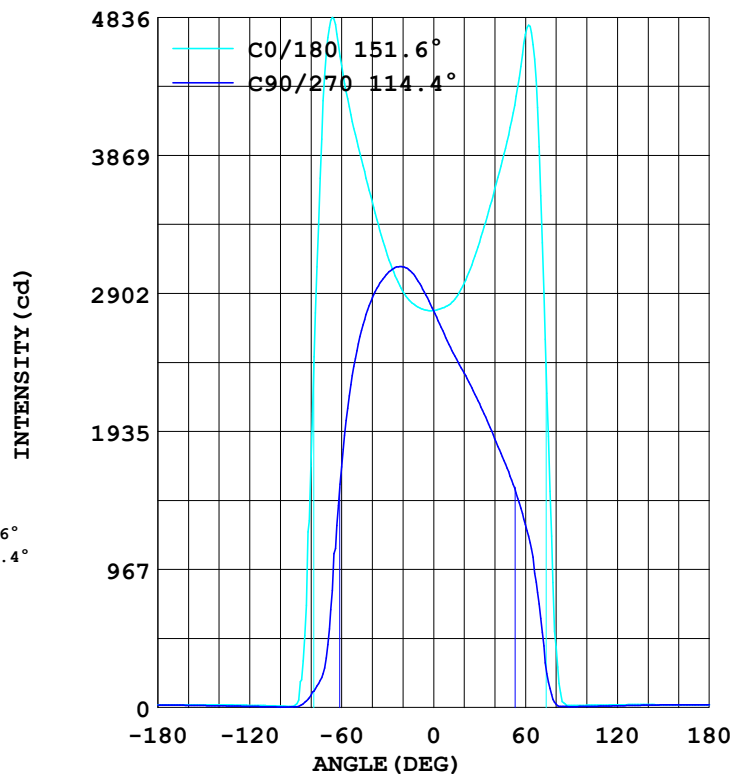
MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE: IL-ST11-D08040-TY2	WEIGHT:
SPECIFICATION: 5050LED 4000K Type II	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	4836	S/MH (C0/180)	1.92
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.60
NOMINAL POWER(W)	80	TOTAL FLUX(lm)	11907	Voltage(V)	230.6
RATED VOLTAGE (V)	230	EFFICIENCY (lm/W)	148.5	Current(A)	0.349
NOMINAL FLUX(lm)	11907.0	η up (%)	0.7	Power(W)	80.19
LAMPS QUANTITY	1	η down (%)	99.3	Power Factor (PF)	0.996
TEST VOLTAGE (V)	230.7	Effective Flux(lm)	11907.0	EEI	0.101

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



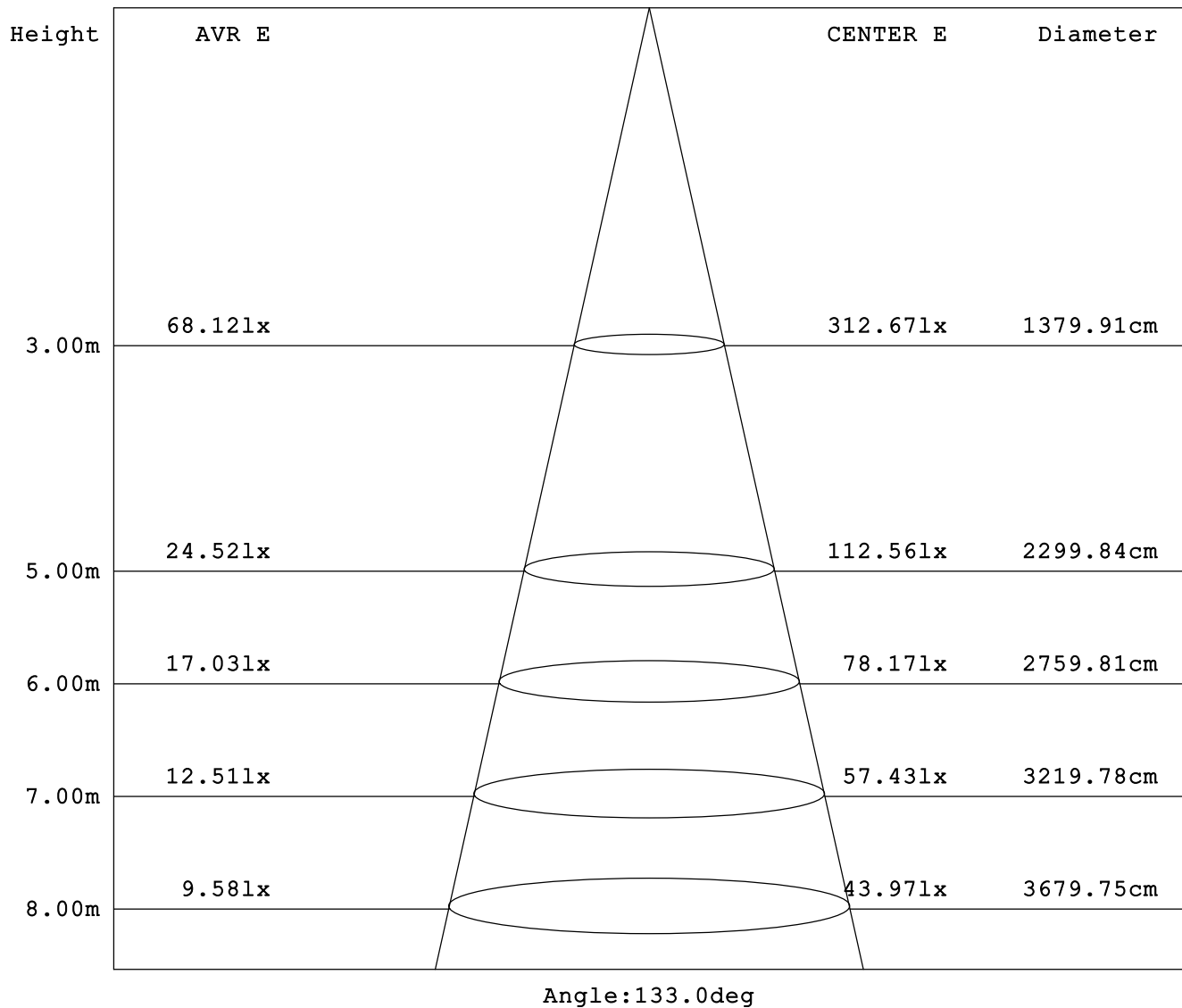
Test System:
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2025.03.22

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-D08040-TY2	WEIGHT:
SPECIFICATION:5050LED 4000K Type II	DIMENSION:	SERIAL No.:



Test System:
Temperature:25.3DEG
Operators:
Test Date:2025.03.22

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-D08040-TY2	WEIGHT:
SPECIFICATION: 5050LED 4000K Type II	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	2785	2865	2891	2860	2796	2707	2664	2711	0- 5	66.55	66.55
10.0	2805	2942	2988	2932	2821	2633	2545	2643	5- 10	199.4	265.9
15.0	2845	3015	3059	2993	2877	2562	2442	2573	10- 15	331.3	597.3
20.0	2916	3089	3088	3045	2974	2497	2344	2507	15- 20	461.7	1059
25.0	3026	3157	3083	3082	3101	2435	2240	2442	20- 25	590.4	1650
30.0	3168	3210	3042	3107	3260	2366	2130	2365	25- 30	715.8	2365
35.0	3343	3249	2973	3115	3440	2294	2010	2288	30- 35	836.2	3202
40.0	3543	3259	2869	3103	3634	2205	1882	2196	35- 40	948.8	4151
45.0	3756	3227	2717	3060	3833	2090	1757	2081	40- 45	1049	5200
50.0	3970	3137	2501	2953	4064	1951	1622	1940	45- 50	1130	6329
55.0	4208	2947	2185	2728	4347	1783	1466	1755	50- 55	1182	7512
60.0	4500	2598	1686	2363	4716	1569	1282	1529	55- 60	1199	8711
65.0	4824	1960	1077	1705	4644	1273	1054	1220	60- 65	1156	9867
70.0	4581	863.7	346.1	727.6	3585	819.6	623.9	775.7	65- 70	968.2	10835
75.0	3375	250.7	168.1	232.3	1901	335.5	178.8	302.2	70- 75	619.6	11455
80.0	1692	139.2	83.29	124.6	425.2	71.20	22.99	68.37	75- 80	276.1	11731
85.0	326.4	53.65	26.79	51.09	32.62	15.85	7.202	14.88	80- 85	80.69	11811
90.0	18.20	13.31	5.055	12.66	14.28	4.333	6.531	4.131	85- 90	14.55	11826
95.0	8.573	8.755	3.757	8.174	14.85	5.762	6.755	5.642	90- 95	4.552	11830
100.0	10.50	8.666	4.070	7.908	15.82	7.415	7.470	7.419	95-100	4.466	11835
105.0	12.22	9.291	5.010	8.396	16.75	8.979	8.455	9.152	100-105	4.926	11840
110.0	13.58	10.18	5.994	9.107	17.45	10.45	9.663	10.70	105-110	5.394	11845
115.0	14.59	11.12	6.934	9.907	18.02	11.74	10.87	12.17	110-115	5.757	11851
120.0	15.51	12.01	7.918	10.70	18.81	12.86	12.07	13.37	115-120	6.017	11857
125.0	16.57	12.95	8.902	11.50	19.95	13.89	13.24	14.48	120-125	6.183	11863
130.0	17.89	13.89	9.931	12.39	20.83	15.05	14.36	15.54	125-130	6.257	11869
135.0	19.03	14.74	11.00	13.23	21.10	16.17	15.52	16.48	130-135	6.216	11876
140.0	19.52	15.41	11.98	14.03	20.70	17.15	16.73	17.37	135-140	6.001	11882
145.0	19.34	15.94	12.88	14.66	20.13	17.73	17.67	17.86	140-145	5.592	11887
150.0	18.94	16.30	13.73	15.15	19.56	17.95	18.25	17.99	145-150	5.031	11892
155.0	18.55	16.61	14.49	15.63	19.16	18.09	18.65	18.03	150-155	4.374	11897
160.0	18.28	16.93	15.25	16.08	18.90	18.13	18.92	17.99	155-160	3.658	11900
165.0	18.20	17.24	16.01	16.48	18.77	18.13	19.05	17.94	160-165	2.898	11903
170.0	18.24	17.60	16.73	16.92	18.64	18.09	18.96	17.86	165-170	2.102	11905
175.0	18.24	17.82	17.31	17.28	18.50	17.91	18.61	17.59	170-175	1.274	11907
180.0	18.42	18.04	17.93	17.59	18.42	17.77	18.16	17.28	175-180	0.425	11907
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:
Temperature:25.3DEG
Operators:
Test Date:2025.03.22

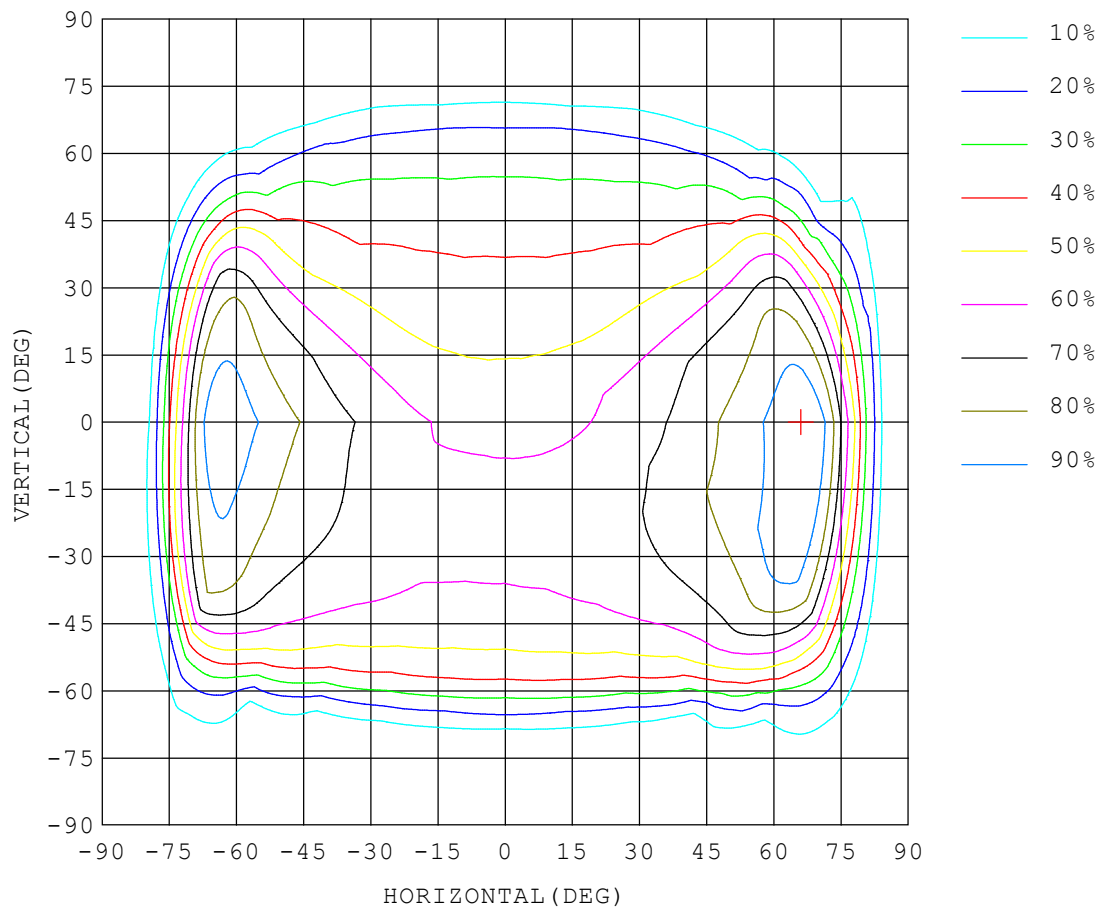
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE:IL-ST11-D08040-TY2	WEIGHT:
SPECIFICATION:5050LED 4000K Type II	DIMENSION:	SERIAL No.:

UNIT: cd



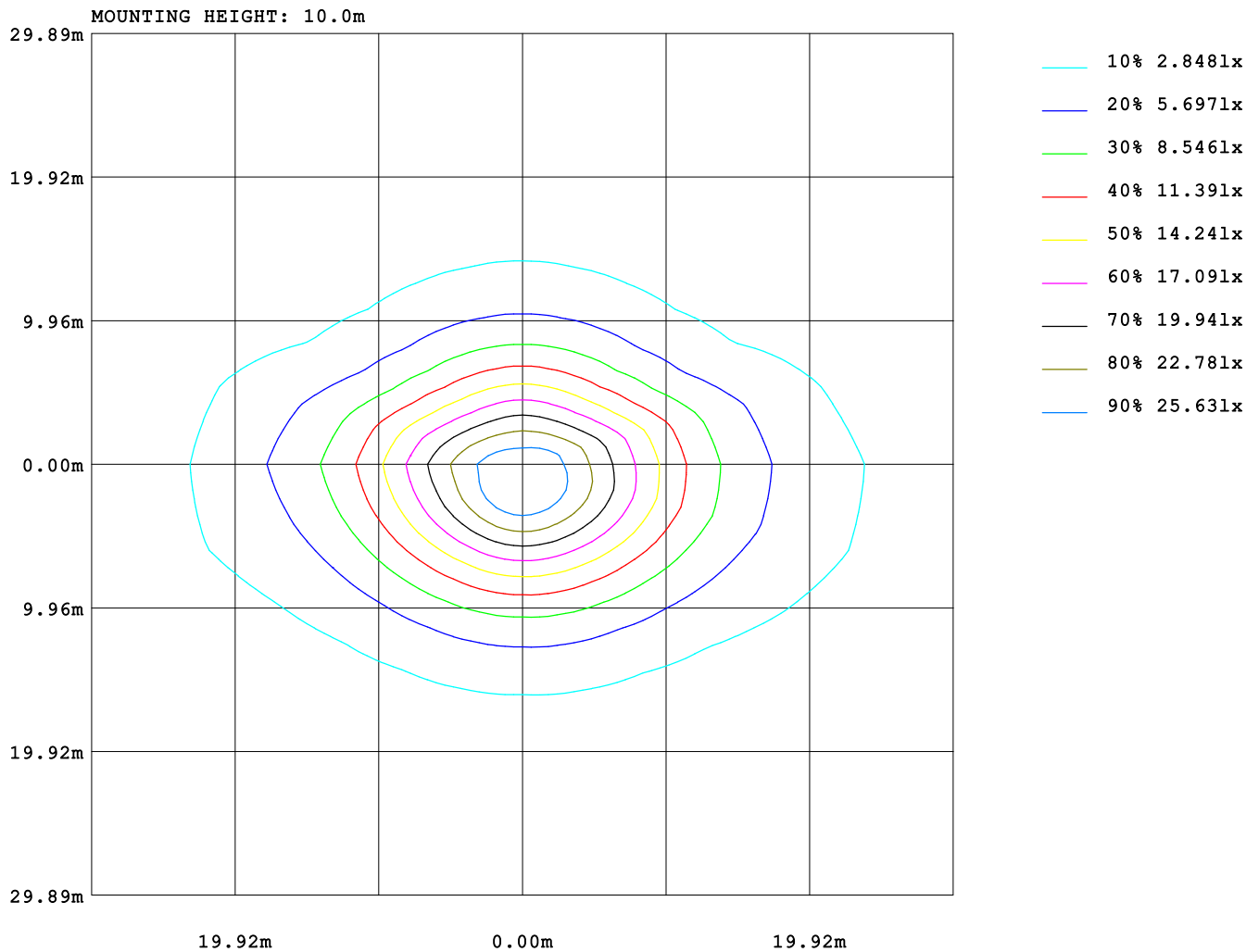
Test System:
Temperature:25.3DEG
Operators:
Test Date:2025.03.22

Test Set: 5.0deg/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-D08040-TY2	WEIGHT:
SPECIFICATION: 5050LED 4000K Type II	DIMENSION:	SERIAL No.:



Test System:
Temperature: 25.3DEG
Operators:
Test Date: 2025.03.22

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-D08040-TY2	WEIGHT:
SPECIFICATION:5050LED 4000K Type II	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	2782	2782	2782	2782	2782	2782	2782	2782	2782	2782	2782	2782	2782	2782	2782
5.0	2785	2814	2840	2865	2880	2893	2891	2890	2875	2860	2835	2810	2796	2767	2734
10.0	2805	2858	2904	2942	2967	2988	2988	2985	2960	2932	2891	2847	2821	2765	2696
15.0	2845	2916	2973	3015	3040	3059	3059	3053	3026	2993	2946	2889	2877	2783	2670
20.0	2916	3010	3064	3089	3089	3094	3088	3083	3061	3045	3011	2962	2974	2834	2654
25.0	3026	3138	3173	3157	3117	3099	3083	3082	3071	3082	3089	3070	3101	2910	2646
30.0	3168	3286	3287	3210	3119	3071	3042	3047	3053	3107	3171	3194	3260	3015	2648
35.0	3343	3462	3397	3249	3094	3012	2973	2980	3008	3115	3246	3338	3440	3139	2646
40.0	3543	3643	3498	3259	3042	2927	2869	2884	2939	3103	3312	3481	3634	3272	2627
45.0	3756	3824	3573	3227	2947	2799	2717	2746	2837	3060	3344	3615	3833	3408	2579
50.0	3970	3995	3598	3137	2772	2593	2501	2538	2663	2953	3336	3737	4064	3538	2494
55.0	4208	4180	3587	2947	2483	2280	2185	2231	2379	2728	3275	3872	4347	3671	2364
60.0	4500	4401	3544	2598	2015	1799	1686	1758	1913	2363	3130	4030	4716	3853	2162
65.0	4824	4679	3416	1960	1302	1060	1077	1032	1217	1705	2814	4240	4644	3841	1804
70.0	4581	4403	2640	864	462	382	346	377	434	728	1915	4105	3585	2905	1108
75.0	3375	3207	1257	251	197	189	168	184	187	232	535	3025	1901	1248	454
80.0	1692	1350	250	139	110	99.8	83.2	97.5	108	125	152	1081	425	175	98.5
85.0	326	248	74.1	53.6	34.4	36.0	26.7	36.1	34.5	51.0	57.8	213	32.6	21.4	28.1
90.0	18.2	24.7	11.3	13.3	5.94	10.0	5.05	9.66	5.47	12.6	9.90	21.9	14.2	8.62	11.2
95.0	8.57	13.1	6.66	8.75	4.47	7.57	3.75	7.24	4.27	8.17	5.96	12.5	14.8	10.1	11.3
100.0	10.5	13.4	7.77	8.66	4.56	6.81	4.07	6.75	4.32	7.90	6.85	12.6	15.8	11.9	12.4
105.0	12.2	14.3	9.24	9.29	5.54	7.26	5.01	7.20	5.30	8.39	8.09	13.4	16.7	13.2	13.4
110.0	13.5	15.2	10.6	10.1	6.61	7.93	5.99	7.83	6.28	9.10	9.32	14.2	17.4	14.3	14.3
115.0	14.5	15.9	11.9	11.1	7.64	8.60	6.93	8.50	7.21	9.90	10.4	14.8	18.0	15.3	15.1
120.0	15.5	16.6	13.1	12.0	8.72	9.37	7.91	9.21	8.19	10.7	11.4	15.3	18.8	16.3	15.9
125.0	16.5	17.4	14.2	12.9	9.79	10.1	8.90	9.97	9.17	11.5	12.3	16.0	19.9	17.5	16.9
130.0	17.8	18.4	15.2	13.8	10.9	11.0	9.93	10.8	10.2	12.3	13.3	16.8	20.8	18.6	17.9
135.0	19.0	19.2	16.0	14.7	12.0	11.9	11.0	11.8	11.3	13.2	14.2	17.6	21.1	19.3	18.7
140.0	19.5	19.5	16.6	15.4	12.9	12.8	11.9	12.7	12.2	14.0	14.9	18.1	20.7	19.3	19.2
145.0	19.3	19.5	16.8	15.9	13.7	13.6	12.8	13.5	13.0	14.6	15.4	18.2	20.1	19.0	19.2
150.0	18.9	19.2	17.0	16.3	14.5	14.4	13.7	14.3	13.8	15.1	15.6	18.0	19.5	18.7	19.1
155.0	18.5	18.9	17.1	16.6	15.1	15.1	14.4	15.0	14.5	15.6	15.9	17.8	19.1	18.4	18.9
160.0	18.2	18.7	17.2	16.9	15.7	15.8	15.2	15.7	15.2	16.0	16.1	17.6	18.9	18.2	18.7
165.0	18.2	18.6	17.3	17.2	16.3	16.4	16.0	16.3	15.9	16.4	16.4	17.6	18.7	18.0	18.6
170.0	18.2	18.4	17.5	17.6	16.8	17.0	16.7	17.0	16.4	16.9	16.7	17.6	18.6	18.0	18.5
175.0	18.2	18.4	17.7	17.8	17.3	17.5	17.3	17.4	16.9	17.2	17.0	17.6	18.5	17.9	18.3
180.0	18.4	18.3	17.9	18.0	17.7	17.8	17.9	17.8	17.4	17.5	17.2	17.6	18.4	18.0	18.1

Test System:
Temperature:25.3DEG
Operators:
Test Date:2025.03.22

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-D08040-TY2	WEIGHT:
SPECIFICATION:5050LED 4000K Type II	DIMENSION:	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	225	240	255	270	285	300	315	330	345
0.0	2782	2782	2782	2782	2782	2782	2782	2782	2782
5.0	2707	2682	2670	2664	2672	2685	2711	2740	2770
10.0	2633	2580	2555	2545	2557	2588	2643	2710	2778
15.0	2562	2488	2450	2442	2452	2493	2573	2688	2807
20.0	2497	2396	2355	2344	2354	2401	2507	2677	2864
25.0	2435	2310	2258	2240	2253	2307	2442	2668	2946
30.0	2366	2219	2152	2130	2147	2214	2365	2669	3056
35.0	2294	2120	2037	2010	2032	2114	2288	2666	3185
40.0	2205	2019	1916	1882	1910	2010	2196	2641	3323
45.0	2090	1908	1791	1757	1784	1897	2081	2584	3450
50.0	1951	1766	1649	1622	1641	1750	1940	2480	3571
55.0	1783	1594	1484	1466	1475	1570	1755	2333	3683
60.0	1569	1393	1291	1282	1279	1360	1529	2107	3829
65.0	1273	1132	1053	1054	1035	1095	1220	1716	3677
70.0	820	715	649	624	628	704	776	1018	2642
75.0	336	313	183	179	171	287	302	419	1215
80.0	71.2	55.8	23.8	22.9	18.9	54.0	68.3	96.6	162
85.0	15.8	16.6	2.95	7.20	2.55	13.0	14.8	28.2	20.6
90.0	4.33	7.29	2.95	6.53	2.90	7.03	4.13	11.1	9.11
95.0	5.76	7.46	3.94	6.75	3.89	7.26	5.64	11.1	9.86
100.0	7.41	8.22	5.20	7.47	5.14	8.10	7.41	12.3	11.7
105.0	8.97	9.30	6.63	8.45	6.57	9.26	9.15	13.5	13.1
110.0	10.4	10.4	8.11	9.66	8.09	10.5	10.7	14.6	14.3
115.0	11.7	11.5	9.55	10.8	9.57	11.7	12.1	15.6	15.4
120.0	12.8	12.7	10.9	12.0	10.9	12.9	13.3	16.7	16.5
125.0	13.8	13.7	12.1	13.2	12.3	14.0	14.4	17.6	17.6
130.0	15.0	14.8	13.4	14.3	13.5	15.1	15.5	18.4	18.6
135.0	16.1	15.9	14.7	15.5	14.7	16.1	16.4	19.0	19.1
140.0	17.1	17.0	16.0	16.7	16.0	17.1	17.3	19.3	19.1
145.0	17.7	17.8	17.1	17.6	17.0	17.9	17.8	19.3	18.8
150.0	17.9	18.2	17.8	18.2	17.6	18.3	17.9	19.0	18.4
155.0	18.0	18.5	18.2	18.6	17.9	18.5	18.0	18.8	18.0
160.0	18.1	18.6	18.4	18.9	18.2	18.6	17.9	18.6	17.8
165.0	18.1	18.6	18.4	19.0	18.3	18.6	17.9	18.3	17.6
170.0	18.0	18.6	18.3	18.9	18.2	18.5	17.8	18.2	17.5
175.0	17.9	18.2	17.9	18.6	17.8	18.1	17.5	17.9	17.3
180.0	17.7	17.9	17.7	18.1	17.5	17.6	17.2	17.5	17.2

Test System:
Temperature:25.3DEG
Operators:
Test Date:2025.03.22

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