

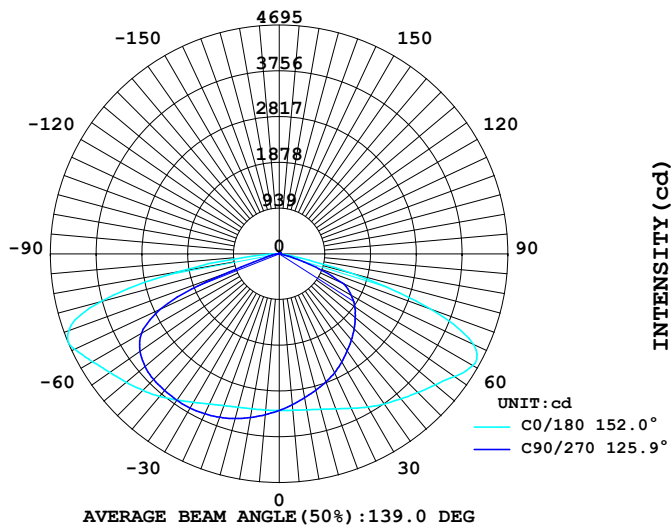
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

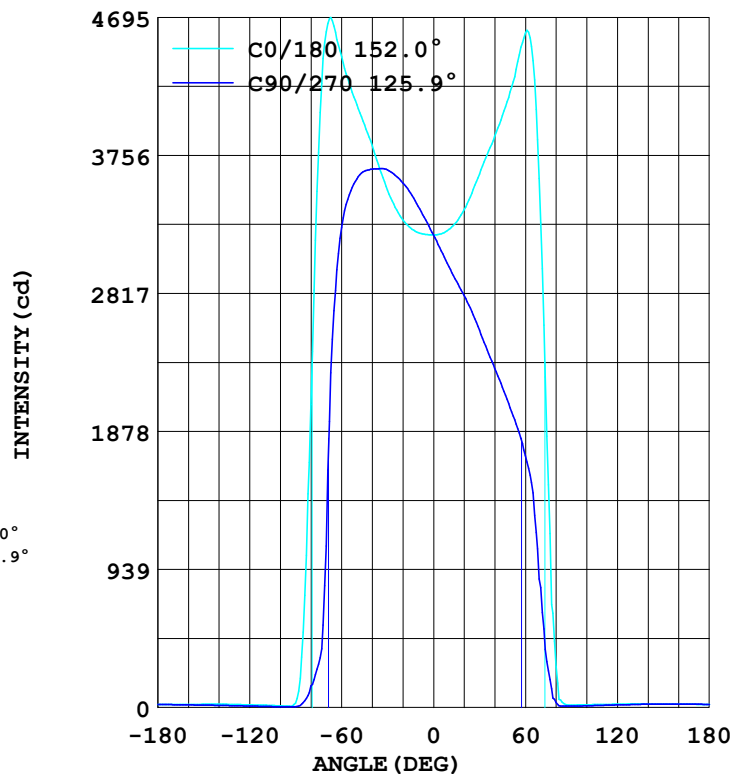
MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE: IL-ST11-D10040-TY3	WEIGHT:
SPECIFICATION: 5050LED 4000K Type III	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax (cd)	5292	S/MH (C0/180)	1.79
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.71
NOMINAL POWER (W)	100	TOTAL FLUX (lm)	15096	Voltage (V)	230.6
RATED VOLTAGE (V)	230	EFFICIENCY (lm/W)	149.2	Current (A)	0.440
NOMINAL FLUX (lm)	15096.0	η up (%)	0.7	Power (W)	101.1
LAMPS QUANTITY	1	η down (%)	99.3	Power Factor (PF)	0.996
TEST VOLTAGE (V)	230.6	Effective Flux (lm)	15096.0	EEI	0.100

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



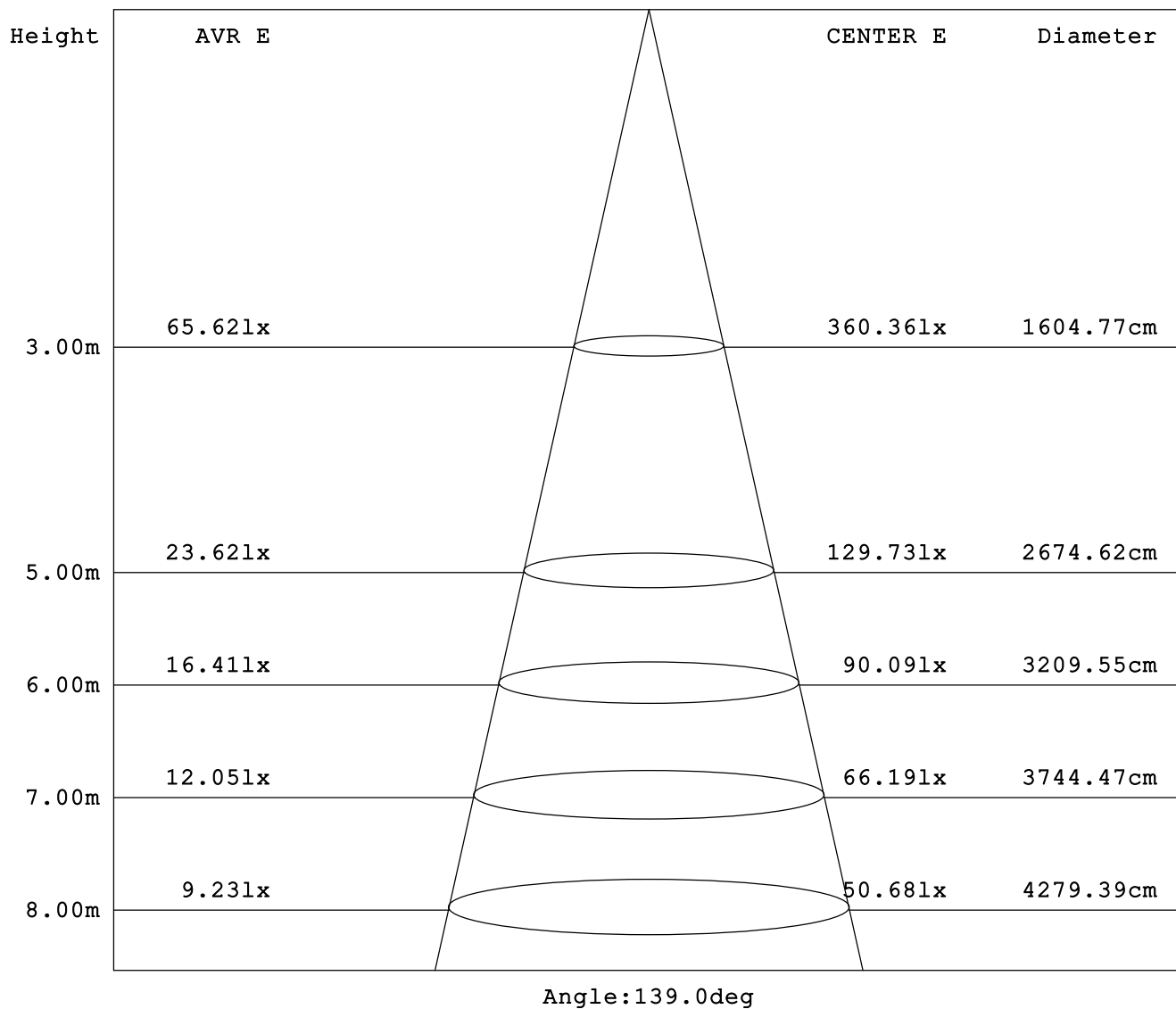
Test System:
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2025.03.23

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-D10040-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-D10040-TY3	WEIGHT:
SPECIFICATION:5050LED 4000K Type III	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	3217	3289	3315	3287	3222	3140	3106	3143	0- 5	76.86	76.86
10.0	3231	3365	3408	3358	3252	3067	3000	3069	5- 10	230.1	306.9
15.0	3262	3448	3500	3439	3303	2997	2899	2997	10- 15	382.4	689.4
20.0	3317	3547	3569	3529	3387	2923	2801	2922	15- 20	533.8	1223
25.0	3402	3658	3621	3628	3499	2848	2693	2844	20- 25	683.9	1907
30.0	3520	3782	3657	3737	3628	2775	2567	2773	25- 30	832.2	2740
35.0	3663	3915	3665	3846	3762	2690	2432	2692	30- 35	976.5	3716
40.0	3821	4030	3662	3936	3886	2595	2307	2606	35- 40	1114	4830
45.0	3963	4119	3648	4004	4025	2486	2179	2505	40- 45	1242	6072
50.0	4099	4189	3597	4055	4187	2349	2039	2379	45- 50	1356	7428
55.0	4246	4241	3488	4074	4394	2176	1897	2216	50- 55	1453	8881
60.0	4428	4252	3265	4031	4587	1981	1713	2028	55- 60	1526	10407
65.0	4635	4184	2698	3813	4400	1700	1459	1777	60- 65	1556	11963
70.0	4597	3873	1099	2898	3295	1107	815.5	1309	65- 70	1435	13398
75.0	3778	2195	294.9	658.3	1516	422.9	249.9	599.3	70- 75	980.9	14379
80.0	2062	396.8	147.4	188.3	277.6	79.38	33.63	177.9	75- 80	458.6	14838
85.0	512.8	109.0	32.95	62.38	27.70	15.66	9.908	26.26	80- 85	132.3	14970
90.0	30.38	22.95	6.454	15.10	16.86	8.368	9.568	7.551	85- 90	22.85	14993
95.0	9.383	12.04	4.812	11.10	17.64	10.51	10.41	9.749	90- 95	6.394	15000
100.0	11.67	11.36	5.322	10.76	18.82	12.60	11.72	12.11	95-100	6.093	15006
105.0	13.79	11.70	6.511	11.15	19.88	14.30	13.36	14.08	100-105	6.626	15012
110.0	15.52	12.43	7.700	11.83	20.72	15.83	14.89	15.77	105-110	7.127	15019
115.0	16.86	13.23	8.832	12.56	21.50	17.13	16.36	17.35	110-115	7.496	15027
120.0	18.09	14.13	9.908	13.29	22.50	18.37	17.66	18.70	115-120	7.733	15035
125.0	19.38	15.09	11.04	14.25	23.62	19.73	18.85	19.94	120-125	7.872	15043
130.0	20.77	16.17	12.28	15.21	24.23	21.20	20.09	21.18	125-130	7.918	15050
135.0	21.89	17.18	13.53	16.17	24.12	22.22	21.51	22.31	130-135	7.801	15058
140.0	22.39	17.98	14.66	16.96	23.62	22.44	22.59	22.71	135-140	7.433	15066
145.0	22.22	18.54	15.57	17.52	23.01	22.27	23.04	22.54	140-145	6.816	15073
150.0	21.83	18.99	16.41	18.03	22.50	22.05	23.04	22.20	145-150	6.053	15079
155.0	21.50	19.39	17.15	18.54	22.11	21.76	22.98	21.92	150-155	5.216	15084
160.0	21.33	19.78	17.94	18.99	21.94	21.59	22.93	21.63	155-160	4.334	15088
165.0	21.27	20.18	18.74	19.44	21.83	21.42	22.70	21.41	160-165	3.420	15092
170.0	21.39	20.58	19.47	20.00	21.78	21.25	22.42	21.13	165-170	2.472	15094
175.0	21.39	20.92	20.21	20.39	21.72	20.97	21.85	20.73	170-175	1.495	15096
180.0	21.61	21.14	21.00	20.79	21.61	20.80	21.23	20.39	175-180	0.499	15096
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

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

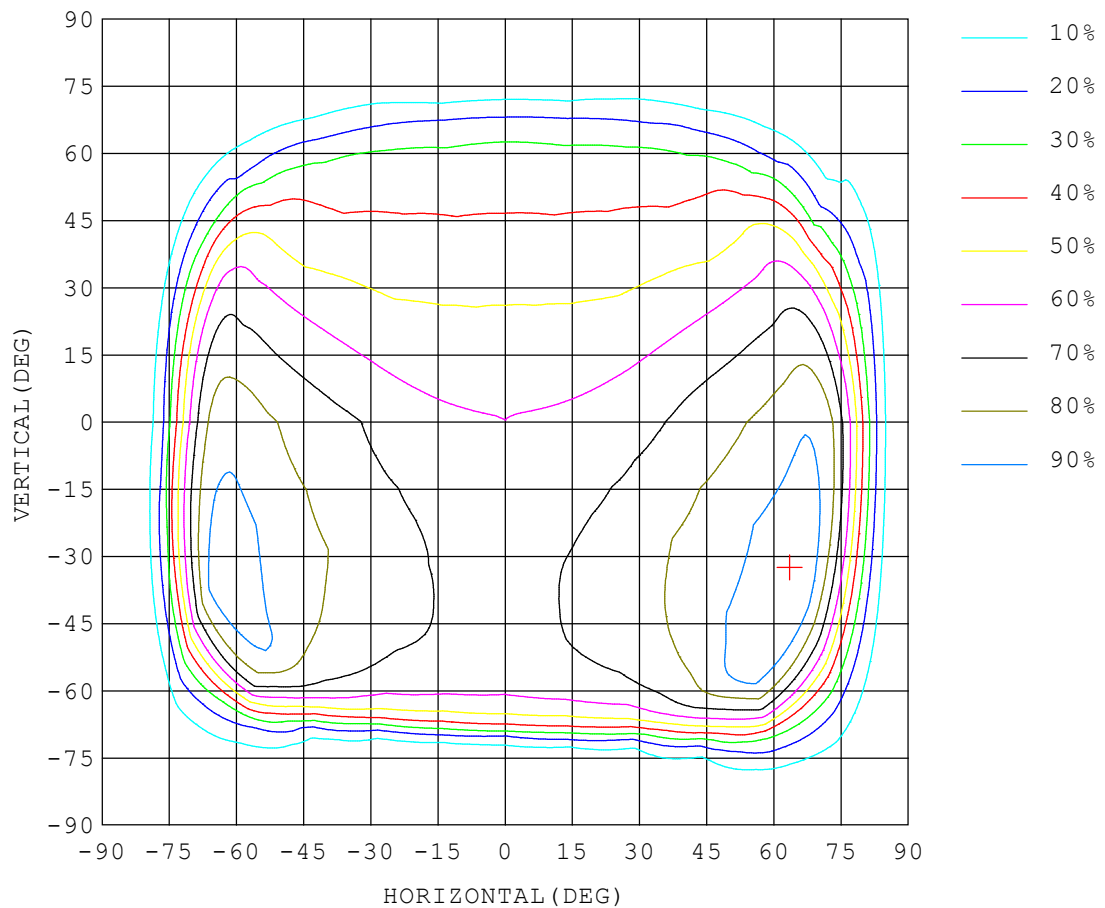
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE: IL-ST11-D10040-TY3	WEIGHT:
SPECIFICATION: 5050LED 4000K Type III	DIMENSION:	SERIAL No.:

UNIT: cd



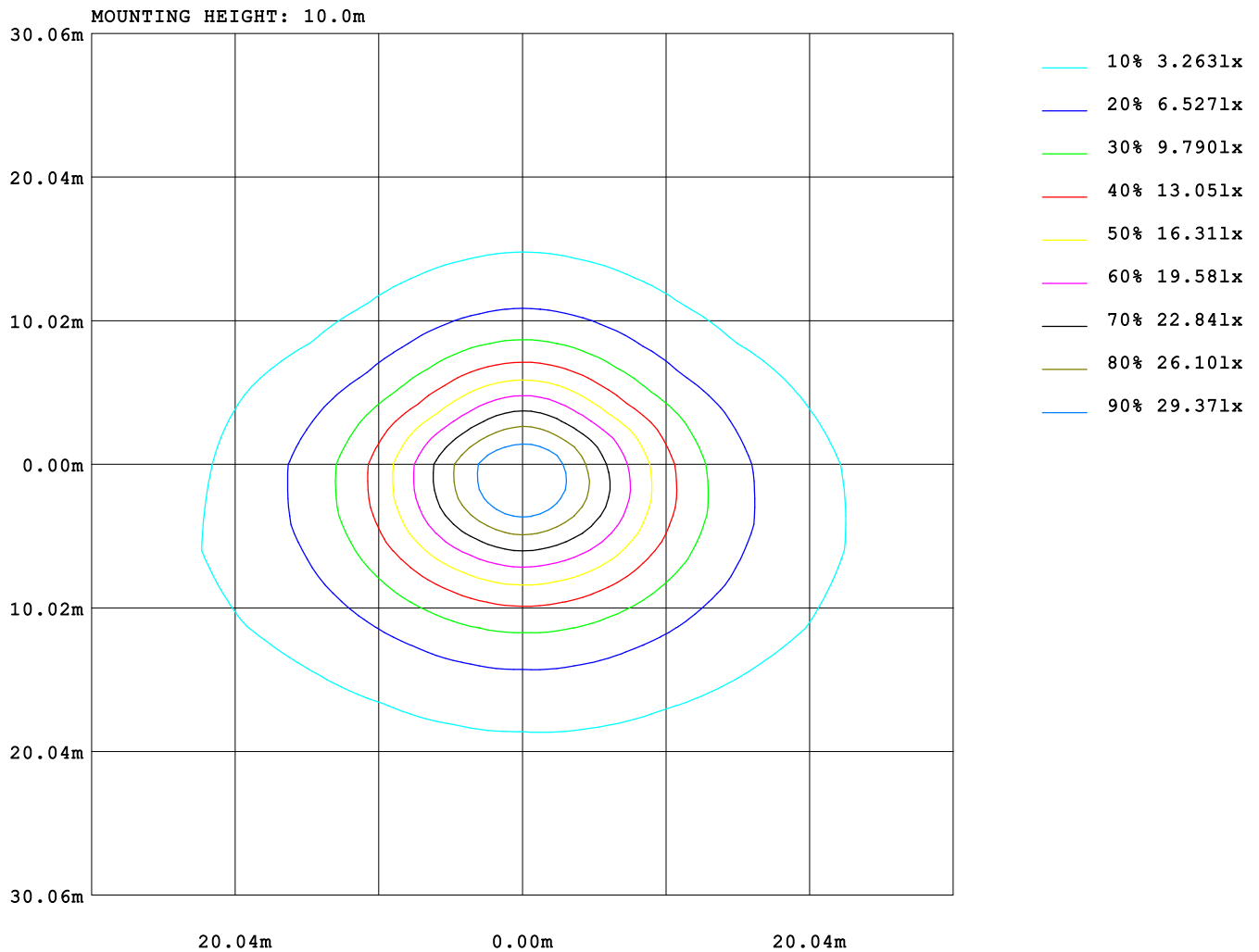
Test System:
Temperature: 25.3 DEG
Operators:
Test Date: 2025.03.23

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-D10040-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-D10040-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	3214	3214	3214	3214	3214	3214	3214	3214	3214	3214	3214	3214	3214	3214	3214
5.0	3217	3242	3266	3289	3303	3315	3315	3314	3301	3287	3264	3241	3222	3194	3165
10.0	3231	3281	3326	3365	3389	3407	3408	3404	3384	3358	3321	3279	3252	3191	3123
15.0	3262	3337	3402	3448	3479	3499	3500	3493	3470	3439	3395	3338	3303	3202	3087
20.0	3317	3423	3499	3547	3563	3574	3569	3564	3546	3529	3492	3430	3387	3229	3056
25.0	3402	3547	3633	3658	3639	3630	3621	3616	3611	3628	3621	3557	3499	3270	3028
30.0	3520	3701	3795	3782	3715	3672	3657	3654	3671	3737	3770	3709	3628	3331	2993
35.0	3663	3876	3958	3915	3784	3697	3665	3668	3719	3846	3916	3868	3762	3403	2950
40.0	3821	4050	4118	4030	3842	3707	3662	3674	3755	3936	4050	4023	3886	3458	2905
45.0	3963	4215	4267	4119	3878	3715	3648	3671	3785	4004	4178	4174	4025	3498	2843
50.0	4099	4398	4422	4189	3899	3704	3597	3645	3794	4055	4293	4359	4187	3532	2748
55.0	4246	4603	4551	4241	3856	3614	3488	3541	3724	4074	4402	4561	4394	3565	2627
60.0	4428	4840	4723	4252	3720	3432	3265	3337	3548	4031	4539	4843	4587	3559	2482
65.0	4635	5161	4946	4184	3382	2906	2698	2730	3054	3813	4737	5165	4400	3500	2237
70.0	4597	5222	5166	3873	2417	1629	1099	1244	1698	2898	4536	4957	3295	2562	1526
75.0	3778	4346	4257	2195	523	335	295	301	305	658	2877	3565	1516	1072	632
80.0	2062	2269	1613	397	190	163	147	141	144	188	667	1267	278	216	106
85.0	513	524	305	109	59.6	51.4	32.9	42.8	37.8	62.3	93.7	162	27.7	18.8	29.4
90.0	30.3	41.3	22.2	22.9	8.82	13.6	6.45	13.1	7.96	15.1	9.82	19.9	16.8	11.1	15.9
95.0	9.38	15.7	7.59	12.0	5.88	10.0	4.81	9.68	5.58	11.1	7.46	14.7	17.6	13.4	16.6
100.0	11.6	15.3	8.61	11.3	5.82	9.07	5.32	8.94	5.87	10.7	8.36	14.8	18.8	15.4	17.8
105.0	13.7	15.9	9.96	11.7	7.07	9.58	6.51	9.51	7.00	11.1	9.65	15.4	19.8	17.0	18.8
110.0	15.5	16.9	11.4	12.4	8.26	10.3	7.70	10.1	8.18	11.8	10.8	16.2	20.7	18.3	19.6
115.0	16.8	17.7	12.8	13.2	9.45	11.0	8.83	10.9	9.31	12.5	12.0	16.9	21.5	19.5	20.5
120.0	18.0	18.6	14.1	14.1	10.6	11.8	9.90	11.7	10.3	13.2	13.1	17.6	22.5	20.8	21.6
125.0	19.3	19.5	15.4	15.0	11.7	12.7	11.0	12.6	11.5	14.2	14.3	18.4	23.6	22.2	22.9
130.0	20.7	20.6	16.7	16.1	13.0	13.7	12.2	13.6	12.8	15.2	15.4	19.4	24.2	23.2	24.2
135.0	21.8	21.5	17.8	17.1	14.3	14.8	13.5	14.6	14.0	16.1	16.5	20.2	24.1	23.2	24.5
140.0	22.3	22.1	18.6	17.9	15.4	15.8	14.6	15.6	15.0	16.9	17.2	20.6	23.6	22.8	24.1
145.0	22.2	22.1	19.0	18.5	16.2	16.6	15.5	16.5	15.8	17.5	17.6	20.6	23.0	22.2	23.6
150.0	21.8	21.9	19.3	18.9	17.0	17.3	16.4	17.2	16.5	18.0	18.0	20.5	22.5	21.8	23.0
155.0	21.5	21.8	19.6	19.3	17.7	18.0	17.1	18.0	17.3	18.5	18.4	20.4	22.1	21.4	22.6
160.0	21.3	21.7	19.8	19.7	18.3	18.6	17.9	18.7	18.0	18.9	18.8	20.4	21.9	21.2	22.2
165.0	21.2	21.6	20.0	20.1	19.0	19.2	18.7	19.3	18.7	19.4	19.1	20.5	21.8	21.0	22.0
170.0	21.3	21.6	20.4	20.5	19.6	19.9	19.4	19.9	19.3	20.0	19.5	20.6	21.7	21.0	21.8
175.0	21.3	21.5	20.6	20.9	20.1	20.4	20.2	20.4	19.8	20.3	19.9	20.7	21.7	21.0	21.5
180.0	21.6	21.5	20.9	21.1	20.7	20.9	21.0	20.9	20.5	20.7	20.3	20.7	21.6	21.0	21.2

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-D10040-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	3214	3214	3214	3214	3214	3214	3214	3214	3214
5.0	3140	3119	3111	3106	3113	3122	3143	3167	3195
10.0	3067	3026	3005	3000	3009	3030	3069	3123	3189
15.0	2997	2936	2902	2899	2909	2942	2997	3085	3196
20.0	2923	2842	2807	2801	2814	2847	2922	3050	3218
25.0	2848	2752	2705	2693	2711	2755	2844	3020	3255
30.0	2775	2659	2588	2567	2592	2659	2773	2984	3310
35.0	2690	2547	2453	2432	2459	2545	2692	2945	3390
40.0	2595	2425	2323	2307	2331	2425	2606	2910	3462
45.0	2486	2296	2193	2179	2201	2302	2505	2862	3505
50.0	2349	2149	2050	2039	2056	2161	2379	2783	3527
55.0	2176	1985	1899	1897	1907	2000	2216	2658	3541
60.0	1981	1802	1706	1713	1725	1826	2028	2509	3525
65.0	1700	1533	1437	1459	1467	1580	1777	2357	3504
70.0	1107	854	785	816	837	1075	1309	1759	3021
75.0	423	362	226	250	254	474	599	826	1582
80.0	79.3	66.5	28.3	33.6	33.7	69.7	178	212	428
85.0	15.6	19.4	4.76	9.90	4.41	20.0	26.2	45.4	34.9
90.0	8.36	11.4	5.38	9.56	5.26	11.3	7.55	16.0	11.1
95.0	10.5	12.3	7.20	10.4	7.07	12.0	9.74	15.9	12.1
100.0	12.6	13.6	9.24	11.7	9.17	13.5	12.1	17.2	14.3
105.0	14.3	15.1	11.2	13.3	11.2	15.1	14.0	18.4	16.0
110.0	15.8	16.4	13.1	14.8	13.1	16.6	15.7	19.3	17.3
115.0	17.1	17.5	14.8	16.3	15.0	17.8	17.3	20.3	18.5
120.0	18.3	18.5	16.1	17.6	16.4	19.1	18.7	21.4	19.5
125.0	19.7	19.8	17.5	18.8	17.8	20.2	19.9	22.5	20.9
130.0	21.2	21.1	19.0	20.0	19.1	21.3	21.1	23.8	22.2
135.0	22.2	22.2	20.5	21.5	20.5	22.5	22.3	24.5	22.7
140.0	22.4	22.9	21.7	22.5	21.6	23.2	22.7	24.3	22.6
145.0	22.2	23.0	22.2	23.0	22.1	23.3	22.5	23.7	22.1
150.0	22.0	22.9	22.3	23.0	22.1	23.2	22.2	23.1	21.7
155.0	21.7	22.7	22.2	22.9	22.0	22.9	21.9	22.6	21.3
160.0	21.5	22.5	22.1	22.9	21.9	22.6	21.6	22.2	21.0
165.0	21.4	22.2	21.8	22.7	21.7	22.3	21.4	21.9	20.8
170.0	21.2	21.9	21.5	22.4	21.4	22.0	21.1	21.6	20.7
175.0	20.9	21.5	21.0	21.8	20.9	21.4	20.7	21.1	20.4
180.0	20.8	21.0	20.6	21.2	20.6	20.8	20.3	20.7	20.3

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