

LUMINAIRE PHOTOMETRIC TEST REPORT

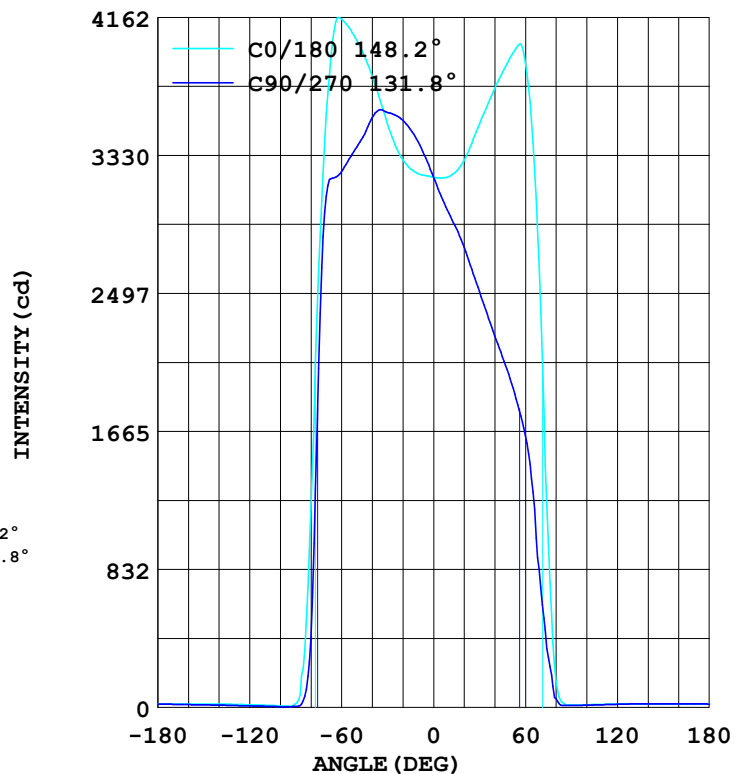
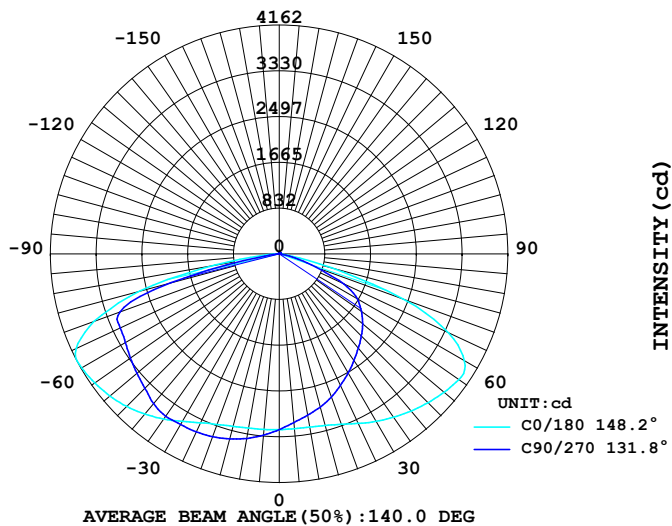
Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE: IL-ST11-D10040-TY4	WEIGHT:
SPECIFICATION: 5050LED 4000K Type IV	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	4446	S/MH (C0/180)	1.79
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.68
NOMINAL POWER(W)	100	TOTAL FLUX(lm)	15086	Voltage(V)	230.3
RATED VOLTAGE (V)	230	EFFICIENCY (lm/W)	150.3	Current(A)	0.437
NOMINAL FLUX(lm)	15086.1	η up (%)	0.7	Power(W)	100.4
LAMPS QUANTITY	1	η down (%)	99.3	Power Factor (PF)	0.996
TEST VOLTAGE (V)	230.3	Effective Flux(lm)	15086.1	EEI	0.100

LUMINOUS INTENSITY DISTRIBUTION

LUMINOUS INTENSITY DISTRIBUTION



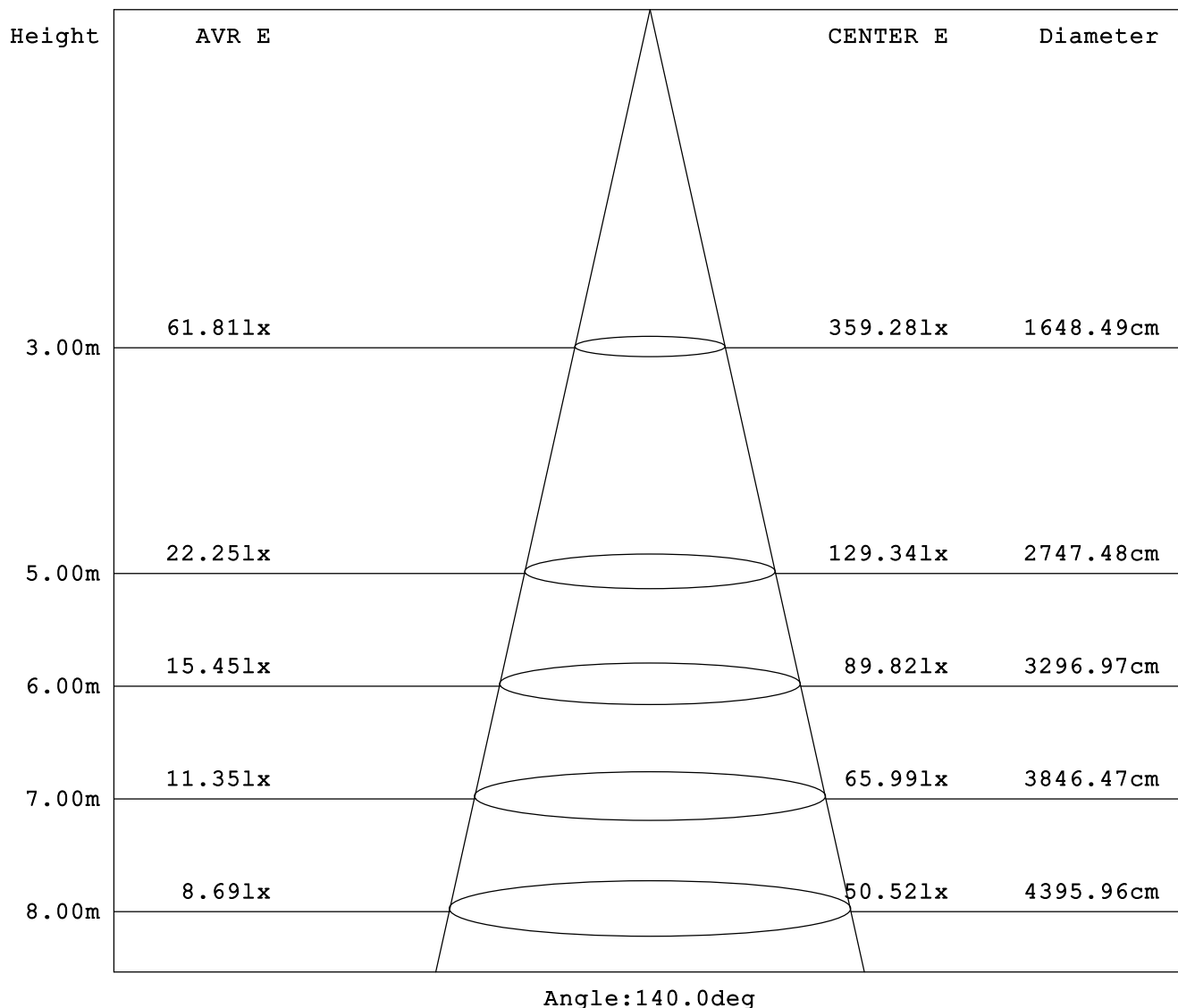
Test System:
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2025.03.24

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-D10040-TY4	WEIGHT:
SPECIFICATION:5050LED 4000K Type IV	DIMENSION:	SERIAL No.:



Test System:
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Operators:
Test Date:2025.03.24

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ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE:IL-ST11-D10040-TY4	WEIGHT:
SPECIFICATION:5050LED 4000K Type IV	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	3208	3286	3313	3273	3194	3107	3083	3117	0- 5	76.45	76.45
10.0	3220	3366	3412	3337	3202	3027	2983	3044	5- 10	228.7	305.2
15.0	3249	3446	3486	3398	3235	2958	2887	2983	10- 15	379.7	685.0
20.0	3305	3536	3542	3463	3300	2878	2775	2908	15- 20	528.7	1214
25.0	3393	3634	3573	3536	3403	2813	2643	2847	20- 25	675.4	1889
30.0	3518	3740	3588	3613	3521	2744	2507	2780	25- 30	819.9	2709
35.0	3670	3851	3605	3685	3628	2674	2373	2714	30- 35	961.6	3671
40.0	3806	3957	3559	3750	3733	2604	2242	2648	35- 40	1096	4767
45.0	3926	4055	3459	3809	3830	2524	2115	2577	40- 45	1219	5986
50.0	4023	4134	3381	3853	3917	2440	1984	2495	45- 50	1328	7314
55.0	4099	4181	3310	3866	3990	2345	1827	2399	50- 55	1421	8735
60.0	4150	4191	3233	3861	3889	2221	1640	2277	55- 60	1493	10228
65.0	4077	4146	3194	3807	3403	2030	1298	2101	60- 65	1522	11750
70.0	3583	3958	3084	3641	2401	1553	722.9	1668	65- 70	1442	13192
75.0	2630	2973	2045	2610	983.8	674.7	301.4	781.3	70- 75	1129	14321
80.0	1198	972.4	409.5	595.3	157.3	117.6	52.82	186.5	75- 80	546.2	14867
85.0	235.4	115.2	41.24	65.41	24.70	19.73	12.30	27.93	80- 85	101.3	14968
90.0	21.60	18.83	6.743	16.36	14.53	8.745	12.08	8.268	85- 90	15.20	14984
95.0	8.012	12.78	4.552	12.23	15.36	10.98	12.98	10.33	90- 95	6.413	14990
100.0	9.946	12.16	5.282	11.73	16.63	13.06	14.33	12.40	95-100	6.217	14996
105.0	11.99	12.50	6.462	12.12	17.90	14.68	15.67	14.07	100-105	6.722	15003
110.0	13.81	13.11	7.642	12.68	18.89	16.14	16.97	15.53	105-110	7.184	15010
115.0	15.19	13.79	8.766	13.29	19.83	17.37	18.15	16.81	110-115	7.514	15018
120.0	16.41	14.63	9.834	14.02	20.77	18.66	19.33	18.15	115-120	7.711	15025
125.0	17.68	15.52	10.95	14.86	21.82	20.12	20.62	19.66	120-125	7.841	15033
130.0	18.95	16.53	12.13	15.86	22.60	21.47	21.91	21.06	125-130	7.897	15041
135.0	20.11	17.49	13.37	16.76	22.98	22.08	22.59	21.78	130-135	7.751	15049
140.0	20.83	18.16	14.44	17.43	22.87	22.14	22.70	21.89	135-140	7.327	15056
145.0	21.05	18.61	15.34	17.87	22.60	21.97	22.70	21.73	140-145	6.701	15063
150.0	20.99	18.94	16.18	18.26	22.21	21.75	22.59	21.50	145-150	5.953	15069
155.0	20.83	19.28	16.97	18.60	21.93	21.52	22.53	21.28	150-155	5.135	15074
160.0	20.77	19.56	17.64	18.99	21.71	21.35	22.47	21.11	155-160	4.271	15078
165.0	20.77	19.95	18.43	19.38	21.66	21.19	22.36	20.94	160-165	3.373	15082
170.0	20.94	20.29	19.21	19.83	21.55	21.02	22.14	20.78	165-170	2.439	15084
175.0	20.99	20.62	19.89	20.16	21.38	20.74	21.52	20.39	170-175	1.475	15086
180.0	21.27	20.91	20.68	20.50	21.27	20.51	20.90	20.11	175-180	0.492	15086
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

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

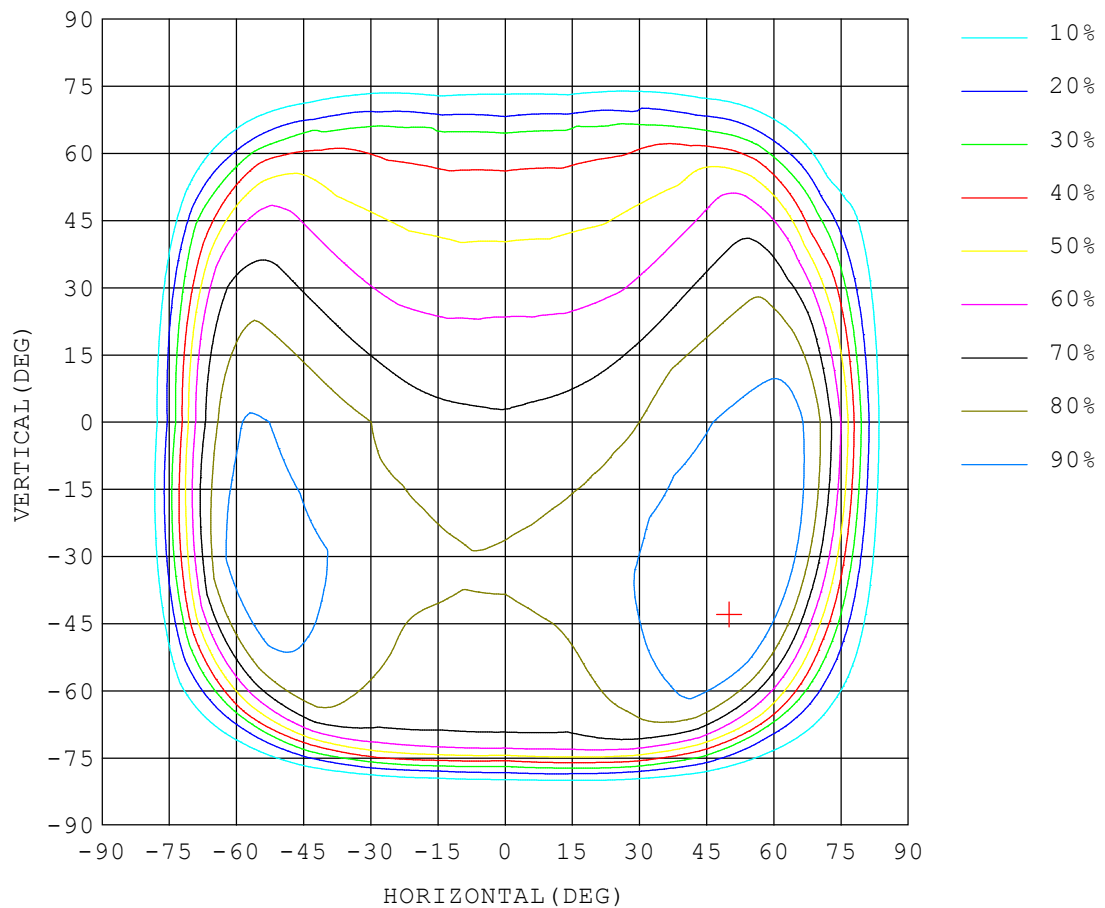
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE: IL-ST11-D10040-TY4	WEIGHT:
SPECIFICATION: 5050LED 4000K Type IV	DIMENSION:	SERIAL No.:

UNIT: cd



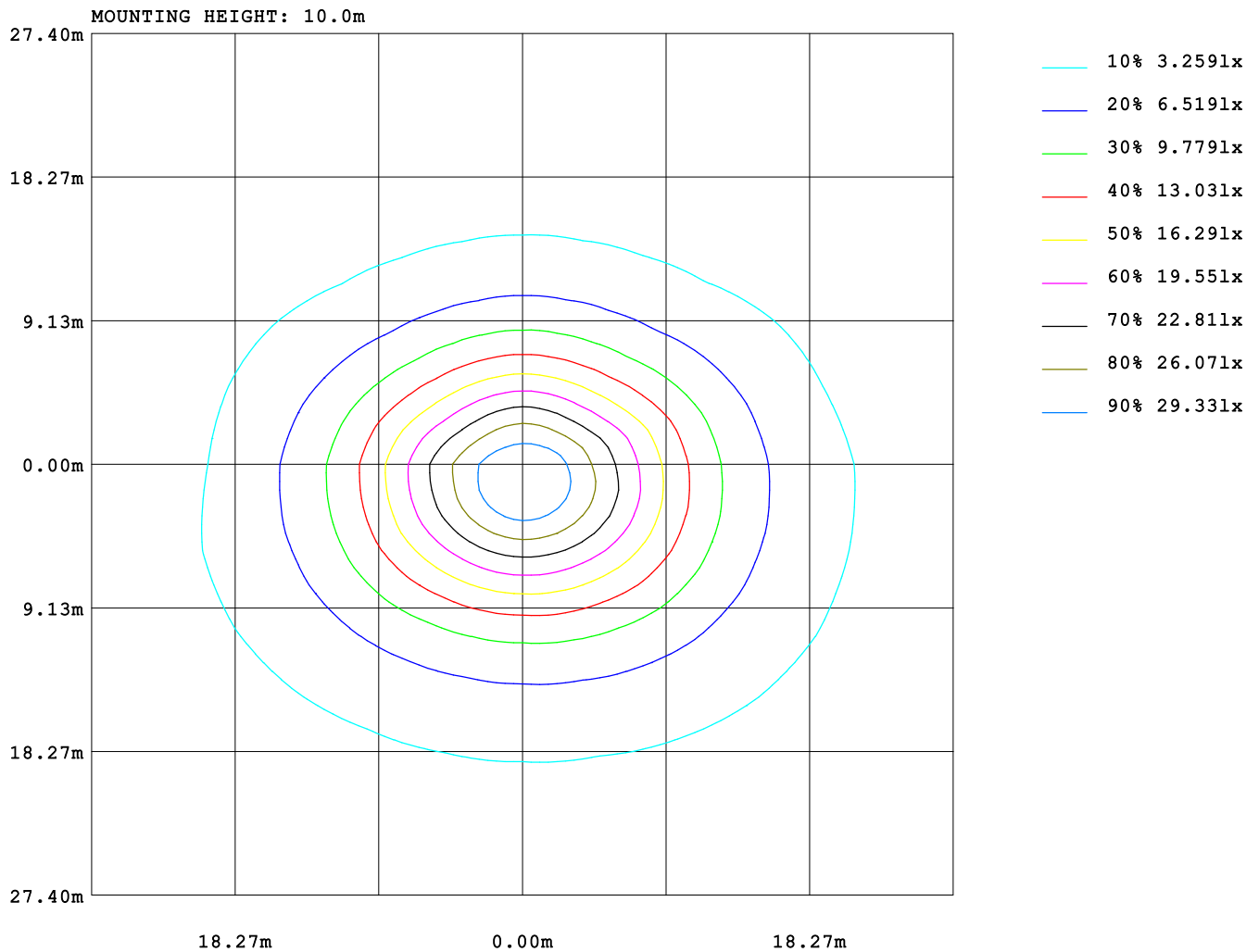
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LUMINOUS DISTRIBUTION INTENSITY DATA

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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	3198	3198	3198	3198	3198	3198	3198	3198	3198	3198	3198	3198	3198	3198	3198
5.0	3208	3236	3264	3286	3303	3311	3313	3306	3293	3273	3248	3219	3194	3163	3134
10.0	3220	3277	3329	3366	3395	3409	3412	3397	3373	3337	3296	3245	3202	3140	3077
15.0	3249	3334	3402	3446	3471	3486	3486	3467	3436	3398	3347	3280	3235	3132	3030
20.0	3305	3420	3496	3536	3547	3548	3542	3521	3493	3463	3414	3343	3300	3148	2999
25.0	3393	3536	3616	3634	3616	3589	3573	3554	3544	3536	3507	3436	3403	3195	2973
30.0	3518	3689	3758	3740	3681	3622	3588	3577	3590	3613	3616	3559	3521	3271	2961
35.0	3670	3857	3914	3851	3737	3658	3605	3601	3620	3685	3737	3693	3628	3344	2960
40.0	3806	4002	4057	3957	3778	3644	3559	3560	3634	3750	3843	3801	3733	3412	2962
45.0	3926	4134	4186	4055	3783	3595	3459	3490	3595	3809	3943	3908	3830	3474	2965
50.0	4023	4245	4302	4134	3778	3521	3381	3404	3562	3853	4029	4017	3917	3517	2954
55.0	4099	4337	4388	4181	3780	3448	3310	3330	3542	3866	4093	4119	3990	3539	2926
60.0	4150	4400	4441	4191	3754	3368	3233	3263	3492	3861	4139	4195	3889	3491	2880
65.0	4077	4324	4417	4146	3671	3271	3194	3213	3383	3807	4102	4086	3403	3180	2729
70.0	3583	3769	3957	3958	3474	3130	3084	3096	3189	3641	3672	3493	2401	2511	2187
75.0	2630	2570	2817	2973	2730	2339	2045	2175	2420	2610	2479	2183	984	1368	1049
80.0	1198	984	868	972	740	508	410	426	509	595	550	603	157	228	167
85.0	235	157	179	115	61.7	58.4	41.2	55.0	45.9	65.4	74.2	66.9	24.7	19.1	32.0
90.0	21.6	28.1	15.4	18.8	7.97	14.8	6.74	14.5	8.00	16.3	9.79	17.8	14.5	10.7	16.8
95.0	8.01	14.1	7.98	12.7	5.95	10.4	4.55	10.1	5.60	12.2	8.01	13.8	15.3	11.3	15.8
100.0	9.94	13.9	8.88	12.1	6.34	9.72	5.28	9.54	6.10	11.7	8.90	14.0	16.6	13.5	17.1
105.0	11.9	14.7	10.1	12.5	7.63	10.1	6.46	9.93	7.33	12.1	10.1	14.8	17.9	15.4	18.3
110.0	13.8	15.6	11.5	13.1	8.81	10.7	7.64	10.5	8.51	12.6	11.4	15.6	18.8	16.9	19.2
115.0	15.1	16.4	12.6	13.7	9.93	11.4	8.76	11.2	9.52	13.2	12.4	16.4	19.8	18.1	20.1
120.0	16.4	17.3	13.8	14.6	11.0	12.2	9.83	11.9	10.5	14.0	13.5	17.2	20.7	19.3	21.1
125.0	17.6	18.2	15.1	15.5	12.2	13.0	10.9	12.6	11.7	14.8	14.6	18.1	21.8	20.5	22.2
130.0	18.9	19.4	16.4	16.5	13.4	13.9	12.1	13.7	12.9	15.8	15.8	19.1	22.6	21.5	23.2
135.0	20.1	20.4	17.6	17.4	14.5	14.9	13.3	14.6	14.1	16.7	16.9	19.9	22.9	22.0	23.6
140.0	20.8	21.0	18.3	18.1	15.6	15.8	14.4	15.6	15.0	17.4	17.5	20.4	22.8	22.1	23.5
145.0	21.0	21.2	18.7	18.6	16.2	16.5	15.3	16.3	15.8	17.8	17.9	20.5	22.6	21.8	23.2
150.0	20.9	21.2	19.1	18.9	16.9	17.2	16.1	17.1	16.5	18.2	18.3	20.5	22.2	21.5	22.7
155.0	20.8	21.1	19.3	19.2	17.5	17.9	16.9	17.8	17.1	18.6	18.5	20.4	21.9	21.2	22.4
160.0	20.7	21.1	19.5	19.5	18.1	18.4	17.6	18.5	17.8	18.9	18.8	20.4	21.7	21.0	22.1
165.0	20.7	21.1	19.7	19.9	18.8	19.1	18.4	19.1	18.5	19.3	19.0	20.4	21.6	20.9	21.8
170.0	20.9	21.1	20.1	20.2	19.3	19.7	19.2	19.7	19.1	19.8	19.4	20.4	21.5	20.8	21.6
175.0	20.9	21.1	20.3	20.6	19.9	20.2	19.8	20.2	19.6	20.1	19.7	20.5	21.3	20.7	21.3
180.0	21.2	21.1	20.7	20.9	20.4	20.6	20.6	20.6	20.2	20.5	20.2	20.5	21.2	20.7	21.0

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Operators:
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Humidity:65.0%
Test Distance:10.000 m
Remarks:

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NAME: Muller	TYPE:IL-ST11-D10040-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	3198	3198	3198	3198	3198	3198	3198	3198	3198
5.0	3107	3093	3082	3083	3083	3098	3117	3147	3177
10.0	3027	2999	2984	2983	2988	3010	3044	3102	3170
15.0	2958	2908	2886	2887	2894	2923	2983	3068	3180
20.0	2878	2815	2776	2775	2785	2832	2908	3048	3211
25.0	2813	2709	2651	2643	2660	2729	2847	3035	3273
30.0	2744	2598	2520	2507	2529	2617	2780	3035	3371
35.0	2674	2490	2389	2373	2400	2509	2714	3045	3470
40.0	2604	2380	2263	2242	2278	2405	2648	3062	3553
45.0	2524	2272	2137	2115	2156	2298	2577	3075	3617
50.0	2440	2159	2004	1984	2020	2186	2495	3074	3657
55.0	2345	2022	1856	1827	1875	2055	2399	3049	3675
60.0	2221	1860	1674	1640	1697	1896	2277	2996	3651
65.0	2030	1654	1386	1298	1409	1694	2101	2904	3320
70.0	1553	1168	796	723	819	1216	1668	2336	2736
75.0	675	511	294	301	305	557	781	1303	1537
80.0	118	109	48.5	52.8	55.1	129	187	284	368
85.0	19.7	26.5	7.87	12.3	7.46	25.8	27.9	42.6	28.7
90.0	8.74	14.1	7.75	12.0	7.52	13.8	8.26	16.4	10.7
95.0	10.9	14.4	9.72	12.9	9.48	14.0	10.3	15.3	10.5
100.0	13.0	15.6	11.6	14.3	11.4	15.2	12.4	16.4	12.6
105.0	14.6	16.6	13.4	15.6	13.1	16.3	14.0	17.5	14.4
110.0	16.1	17.7	15.0	16.9	14.8	17.4	15.5	18.4	15.9
115.0	17.3	18.7	16.3	18.1	16.2	18.5	16.8	19.3	17.0
120.0	18.6	19.8	17.7	19.3	17.6	19.7	18.1	20.2	18.0
125.0	20.1	21.2	19.2	20.6	19.2	21.0	19.6	21.3	19.2
130.0	21.4	22.5	20.6	21.9	20.5	22.3	21.0	22.5	20.4
135.0	22.0	23.0	21.4	22.5	21.2	22.9	21.7	23.1	21.1
140.0	22.1	23.0	21.7	22.7	21.5	22.8	21.8	23.1	21.3
145.0	21.9	22.9	21.8	22.7	21.5	22.7	21.7	22.8	21.2
150.0	21.7	22.7	21.8	22.5	21.5	22.5	21.5	22.4	21.0
155.0	21.5	22.5	21.8	22.5	21.4	22.2	21.2	22.0	20.7
160.0	21.3	22.3	21.7	22.4	21.3	22.1	21.1	21.8	20.6
165.0	21.1	22.1	21.5	22.3	21.2	21.9	20.9	21.5	20.4
170.0	21.0	21.7	21.2	22.1	21.1	21.6	20.7	21.2	20.2
175.0	20.7	21.2	20.7	21.5	20.6	21.1	20.3	20.8	20.1
180.0	20.5	20.7	20.3	20.9	20.2	20.5	20.1	20.5	20.1

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Remarks: