

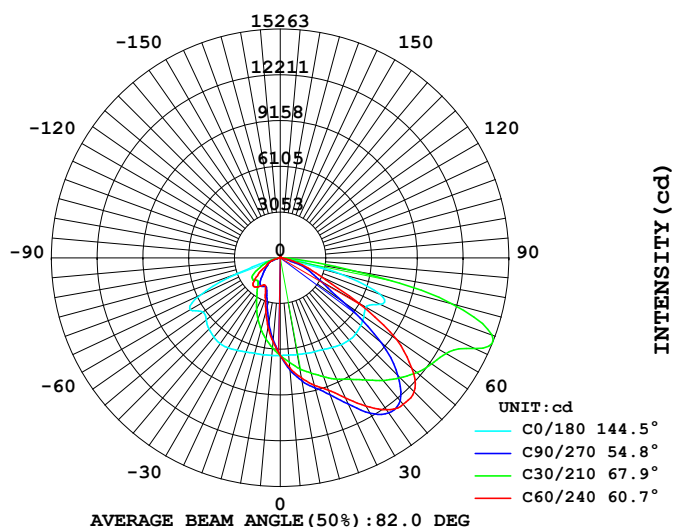
## LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

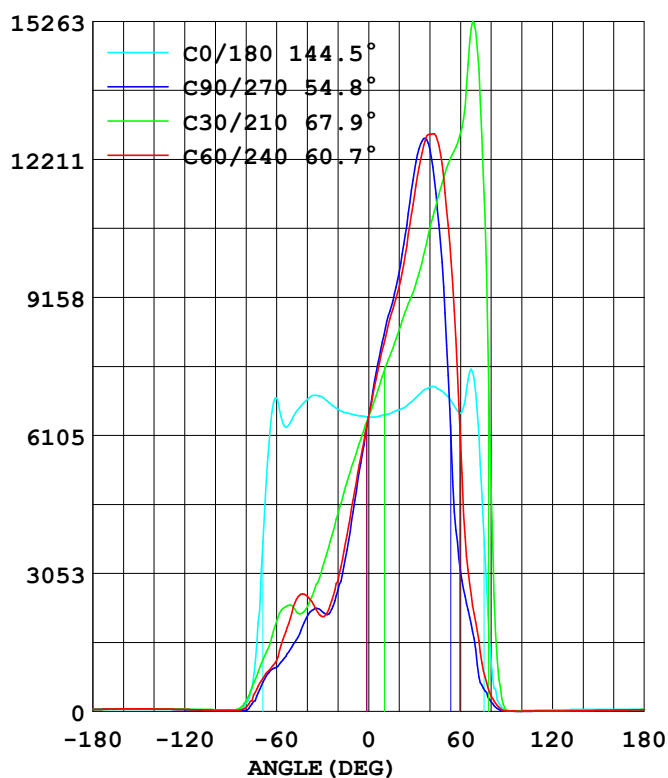
MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE: IL-ST11-D20040-T3B	WEIGHT:
SPECIFICATION: 5050LED-Ra70-4000K	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	16072	S/MH (C0/180)	1.62
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	0.50
NOMINAL POWER(W)	200	TOTAL FLUX(lm)	28001	Voltage(V)	230.6
RATED VOLTAGE (V)	230	EFFICIENCY (lm/W)	140.0	Current(A)	0.896
NOMINAL FLUX(lm)	28001.0	$\eta$ up (%)	0.7	Power(W)	200.0
LAMPS QUANTITY	1	$\eta$ down (%)	99.3	Power Factor (PF)	0.968
TEST VOLTAGE (V)	230.7	Effective Flux(lm)	0.0	EEL	0.000

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:  
Temperature: 25.3 DEG  
Operators:  
Test Date: 2025.7.7

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

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## Color Temperature Data List

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE: IL-ST11-D20040-T3B	WEIGHT:
SPECIFICATION: 5050LED-Ra70-4000K	DIMENSION:	SERIAL No.:

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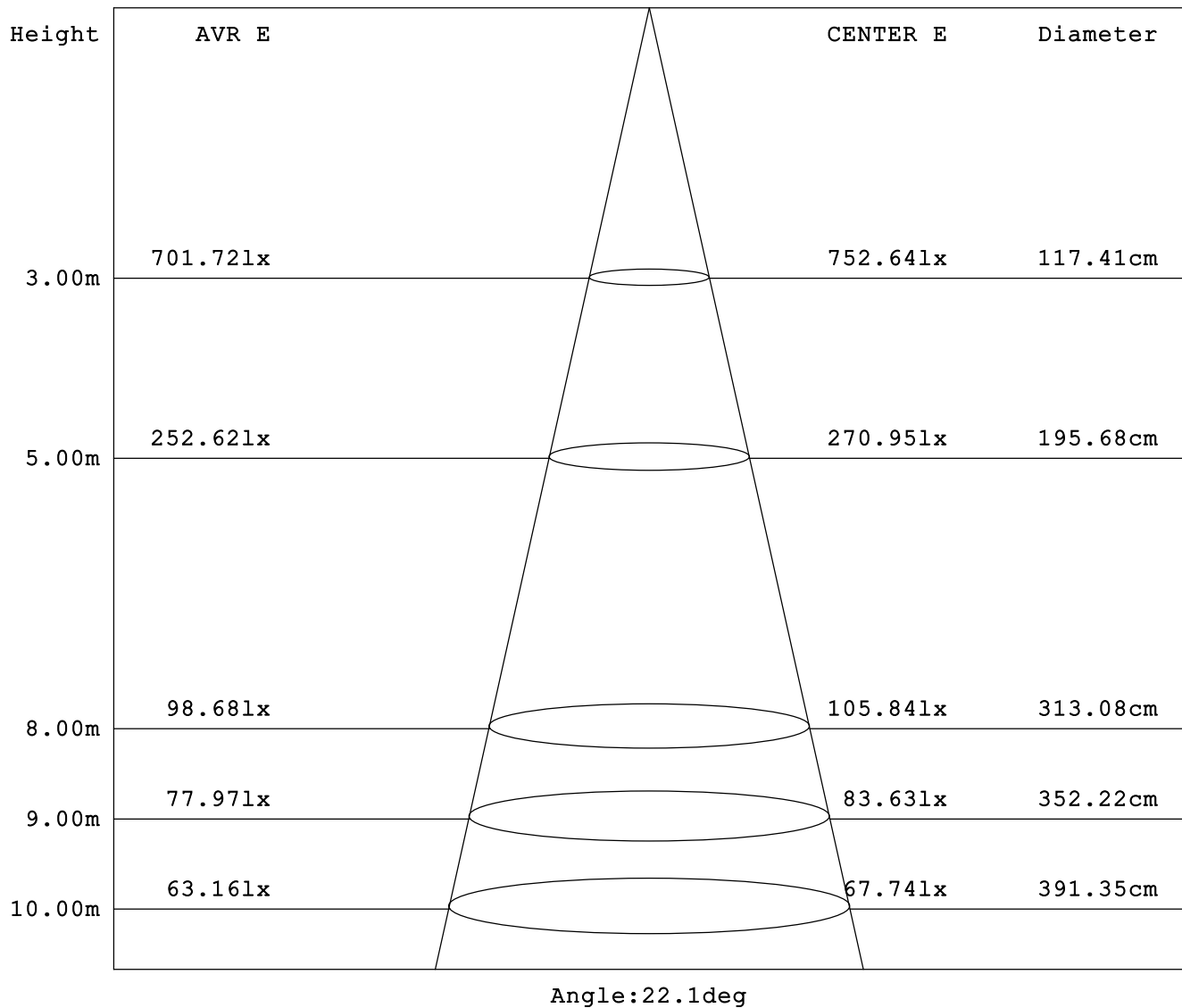
Test System:  
Temperature: 25.3DEG  
Operators:  
Test Date: 2025.7.7

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## AVERAGE AND CENTER E Figure

Report number:

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SPECIFICATION: 5050LED-Ra70-4000K	DIMENSION:	SERIAL No.:



Test System:  
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## ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE: IL-ST11-D20040-T3B	WEIGHT:
SPECIFICATION: 5050LED-Ra70-4000K	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	653.7	580.2	549.9	581.8	651.4	721.4	749.4	723.9	0- 5	155.8	155.8
10.0	656.9	504.1	442.4	507.5	655.9	789.6	831.2	787.8	5- 10	464.9	620.7
15.0	660.6	424.0	339.6	429.4	660.4	848.9	897.2	848.8	10- 15	763.1	1384
20.0	668.4	353.9	267.2	349.5	667.2	906.9	971.8	903.1	15- 20	1049	2433
25.0	681.1	282.2	219.0	284.4	676.1	968.8	1075	974.1	20- 25	1341	3774
30.0	694.9	233.0	220.6	230.2	690.9	1046	1197	1057	25- 30	1663	5437
35.0	699.0	218.9	227.3	211.0	707.3	1113	1262	1131	30- 35	2019	7456
40.0	689.6	246.2	210.2	230.2	716.9	1194	1246	1201	35- 40	2360	9816
45.0	672.2	278.7	171.9	266.1	714.0	1248	1110	1237	40- 45	2623	12439
50.0	645.5	279.5	143.0	271.6	702.6	1260	881.0	1229	45- 50	2749	15188
55.0	631.8	257.5	117.7	250.4	681.1	1201	508.3	1121	50- 55	2693	17881
60.0	693.4	186.1	98.40	192.2	659.4	1050	311.2	965.2	55- 60	2483	20363
65.0	591.1	115.3	86.10	117.2	733.7	837.7	224.5	651.8	60- 65	2352	22715
70.0	308.6	76.30	56.45	79.42	704.2	452.2	136.4	242.3	65- 70	2225	24940
75.0	76.06	42.76	22.21	42.89	410.8	160.3	51.55	112.5	70- 75	1711	26651
80.0	17.59	11.19	2.757	13.67	111.9	54.94	21.72	46.02	75- 80	888.6	27539
85.0	4.871	2.268	1.861	2.962	18.51	18.53	4.771	13.33	80- 85	226.1	27766
90.0	3.295	1.797	1.725	1.754	2.993	3.948	0.931	3.111	85- 90	34.05	27800
95.0	3.422	2.335	1.776	2.333	1.671	2.285	0.677	2.168	90- 95	11.99	27812
100.0	3.661	2.873	2.030	2.945	2.117	1.982	0.575	1.903	95-100	11.59	27823
105.0	3.900	3.377	2.436	3.508	2.547	1.848	0.660	1.803	100-105	12.47	27836
110.0	4.091	3.847	2.994	4.021	2.961	1.797	0.761	1.770	105-110	13.46	27849
115.0	4.282	4.251	3.603	4.518	3.279	1.797	0.880	1.754	110-115	14.34	27863
120.0	4.505	4.570	4.178	4.898	3.582	1.848	1.015	1.770	115-120	15.02	27879
125.0	4.728	4.889	4.686	5.213	3.868	1.915	1.133	1.820	120-125	15.46	27894
130.0	4.887	5.191	5.092	5.445	4.155	2.049	1.268	1.903	125-130	15.62	27910
135.0	4.903	5.427	5.363	5.560	4.378	2.201	1.404	2.035	130-135	15.36	27925
140.0	4.808	5.578	5.583	5.593	4.489	2.402	1.556	2.201	135-140	14.59	27940
145.0	4.680	5.696	5.786	5.593	4.473	2.621	1.759	2.399	140-145	13.47	27953
150.0	4.616	5.729	5.955	5.527	4.410	2.873	2.013	2.631	145-150	12.16	27965
155.0	4.585	5.645	6.040	5.378	4.378	3.125	2.317	2.846	150-155	10.66	27976
160.0	4.569	5.444	5.955	5.163	4.378	3.360	2.656	3.061	155-160	8.945	27985
165.0	4.553	5.208	5.684	4.915	4.410	3.595	2.994	3.276	160-165	7.058	27992
170.0	4.553	4.939	5.278	4.634	4.441	3.847	3.349	3.525	165-170	5.074	27997
175.0	4.553	4.603	4.788	4.286	4.473	4.116	3.739	3.773	170-175	3.045	28000
180.0	4.537	4.301	4.280	3.955	4.537	4.419	4.212	4.071	175-180	1.010	28001
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm	

Test System:  
Temperature:25.3DEG  
Operators:  
Test Date:2025.7.7

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

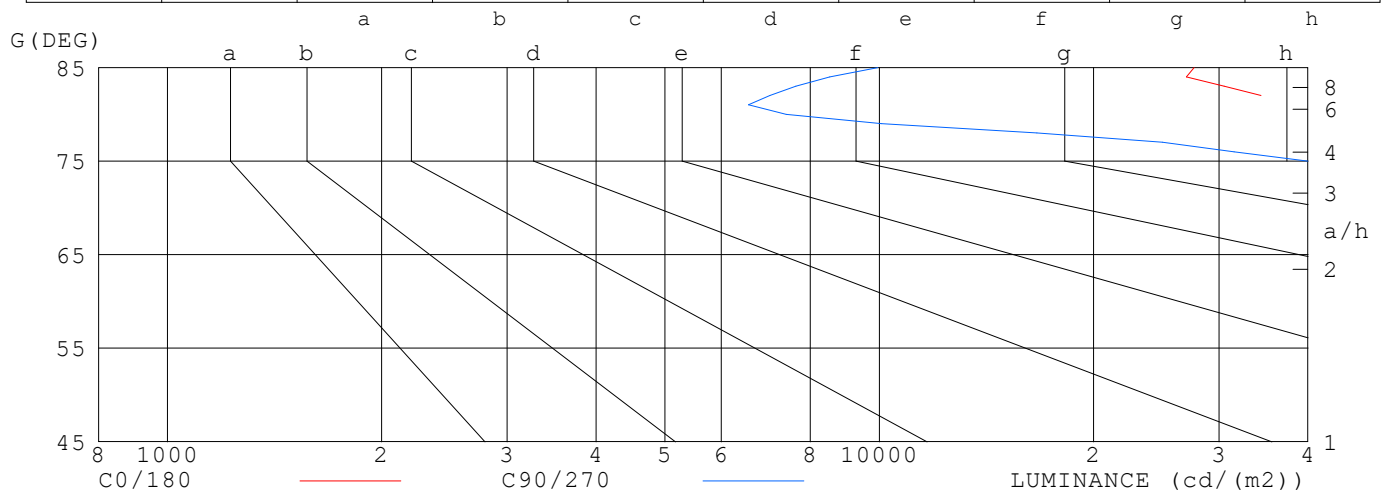
## LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE: IL-ST11-D20040-T3B	WEIGHT:
SPECIFICATION: 5050LED-Ra70-4000K	DIMENSION:	SERIAL No.:

### LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	27671	9947
80	50153	7398
75	145496	39983
70	446770	76897
65	692417	94904
60	686595	91676
55	545371	95636
50	497169	103681
45	470627	113310

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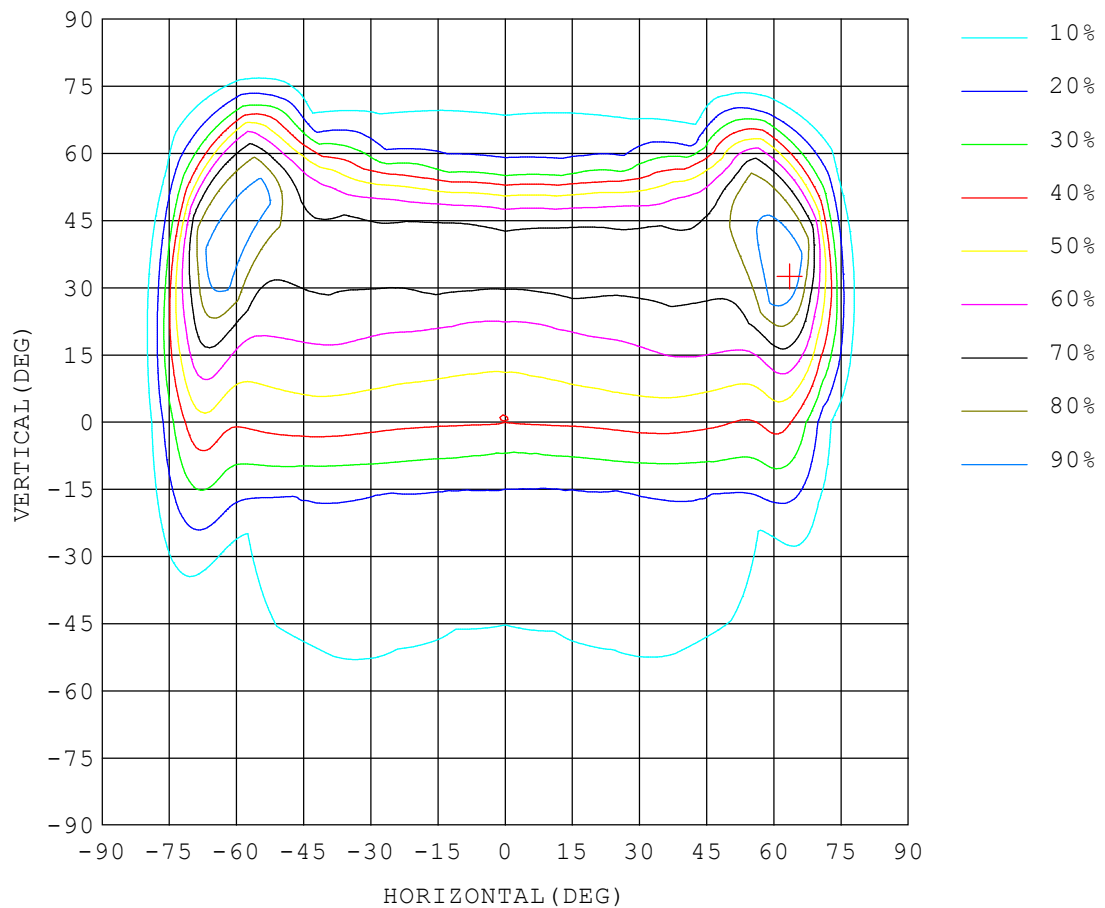
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 Remarks:

## ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE: IL-ST11-D20040-T3B	WEIGHT:
SPECIFICATION: 5050LED-Ra70-4000K	DIMENSION:	SERIAL No.:

UNIT: cd



Test System:  
Temperature: 25.3 DEG  
Operators:  
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