

# LUMINAIRE PHOTOMETRIC TEST REPORT

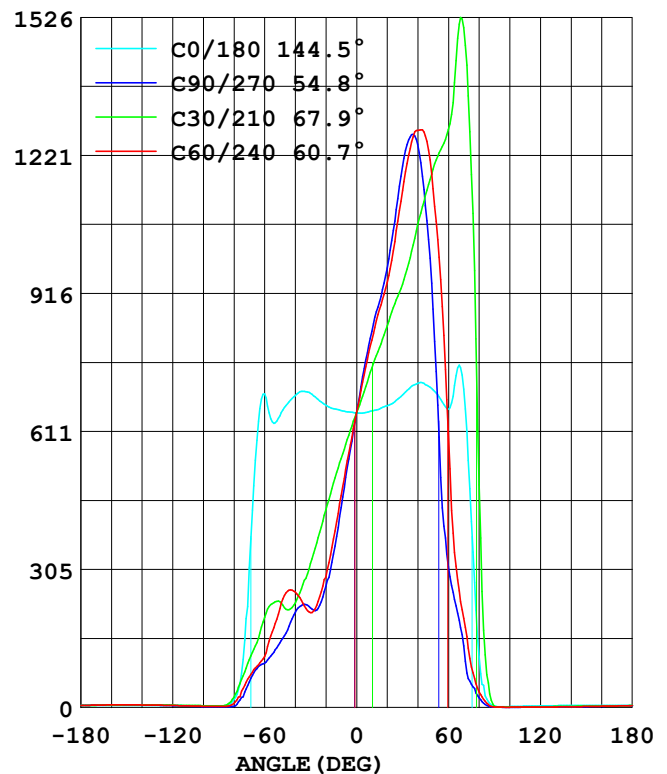
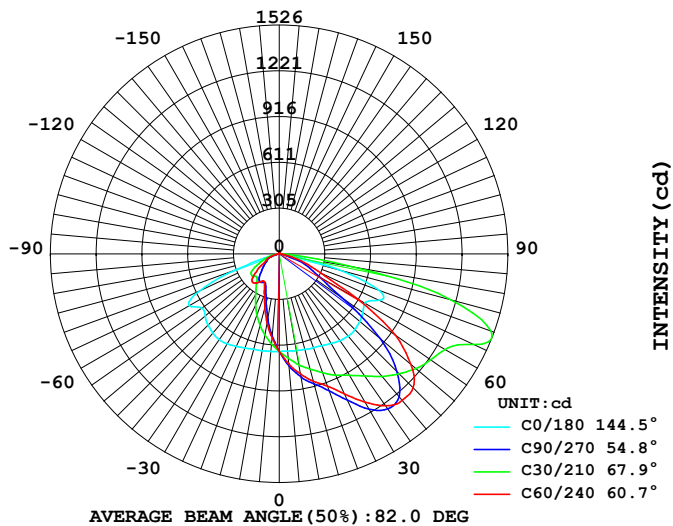
Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Muller	TYPE: IL-ST11-D02040-T3B	WEIGHT:
SPECIFICATION: 5050LED-Ra70-4000K	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	1607	S/MH (C0/180)	1.62
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	0.50
NOMINAL POWER(W)	20	TOTAL FLUX(lm)	2800.0	Voltage(V)	230.6
RATED VOLTAGE (V)	230	EFFICIENCY (lm/W)	139.3	Current(A)	0.090
NOMINAL FLUX(lm)	2800.0	$\eta$ up (%)	0.7	Power(W)	20.10
LAMPS QUANTITY	1	$\eta$ down (%)	99.3	Power Factor (PF)	0.968
TEST VOLTAGE (V)	230.7	Effective Flux(lm)	0.0	EEI	0.000

## LUMINOUS INTENSITY DISTRIBUTION

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Test System:  
Temperature: 25.3 DEG  
Operators:  
Test Date: 2025.03.25

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:

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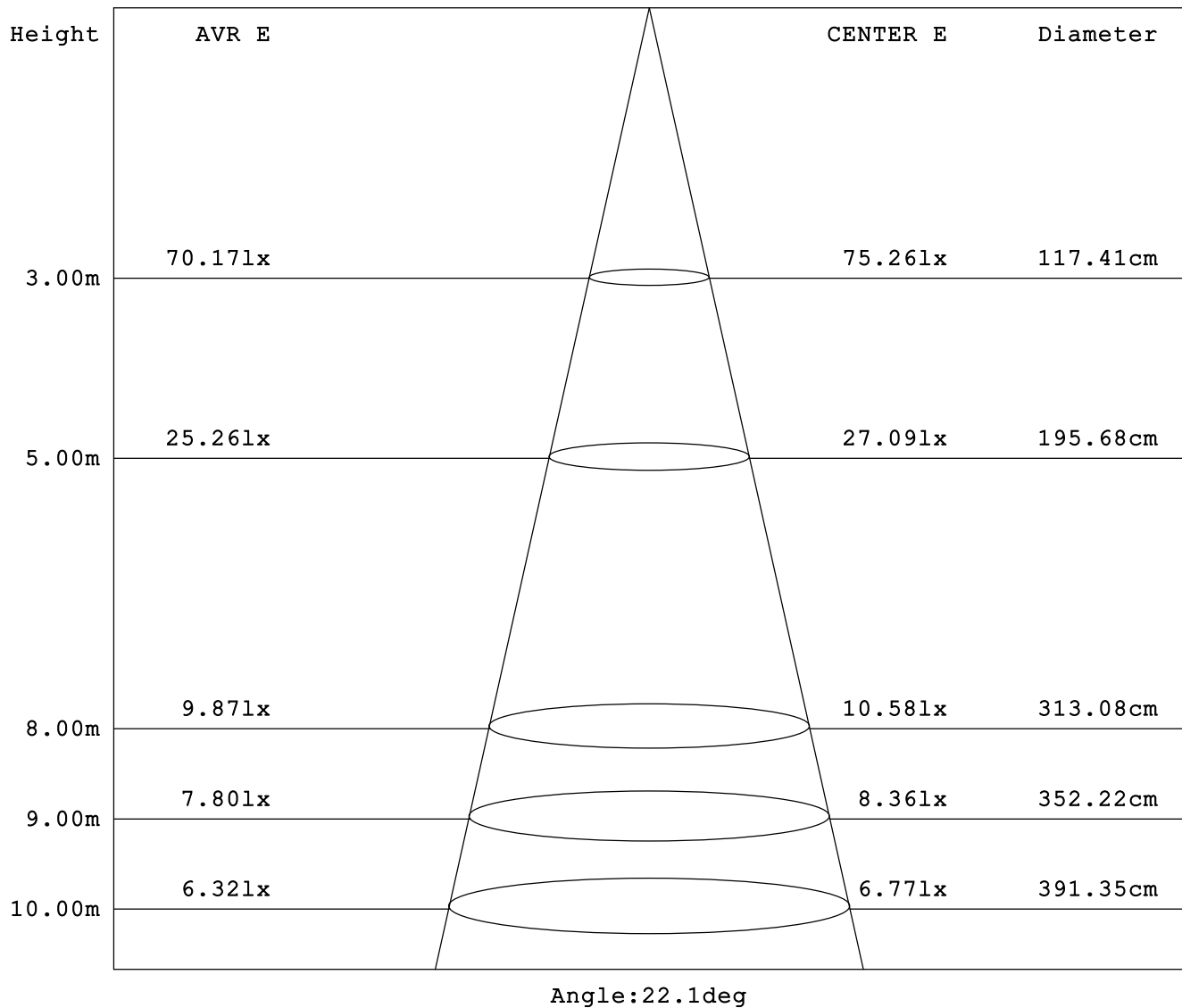
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Operators:  
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## AVERAGE AND CENTER E Figure

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## ZONAL FLUX DIAGRAM

Report number:

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

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	653.6	580.2	549.8	581.8	651.4	721.4	749.4	723.8	0- 5	15.58	15.58
10.0	656.8	504.1	442.4	507.5	655.8	789.6	831.1	787.7	5- 10	46.49	62.07
15.0	660.6	424.0	339.6	429.4	660.4	848.8	897.2	848.8	10- 15	76.30	138.3
20.0	668.4	353.9	267.2	349.5	667.2	906.8	971.8	903.1	15- 20	104.8	243.2
25.0	681.1	282.2	219.0	284.4	676.1	968.8	1075	974.1	20- 25	134.1	377.3
30.0	694.9	233.0	220.6	230.2	690.9	1046	1197	1057	25- 30	166.3	543.6
35.0	699.0	218.9	227.3	211.0	707.2	1113	1262	1131	30- 35	201.8	745.5
40.0	689.6	246.1	210.2	230.2	716.8	1194	1246	1201	35- 40	235.9	981.5
45.0	672.2	278.7	171.9	266.1	714.0	1248	1110	1237	40- 45	262.2	1244
50.0	645.5	279.5	143.0	271.6	702.6	1260	880.9	1229	45- 50	274.9	1519
55.0	631.8	257.5	117.7	250.4	681.1	1201	508.3	1121	50- 55	269.2	1788
60.0	693.4	186.1	98.39	192.2	659.3	1050	311.2	965.2	55- 60	248.2	2036
65.0	591.0	115.3	86.09	117.2	733.6	837.7	224.5	651.8	60- 65	235.1	2271
70.0	308.6	76.29	56.45	79.42	704.2	452.1	136.4	242.3	65- 70	222.4	2494
75.0	76.06	42.76	22.21	42.89	410.8	160.3	51.55	112.5	70- 75	171.0	2665
80.0	17.59	11.19	2.757	13.67	111.9	54.94	21.72	46.02	75- 80	88.86	2754
85.0	4.871	2.268	1.861	2.962	18.51	18.53	4.770	13.33	80- 85	22.61	2776
90.0	3.295	1.797	1.725	1.754	2.992	3.948	0.931	3.111	85- 90	3.405	2780
95.0	3.422	2.335	1.776	2.333	1.671	2.285	0.677	2.168	90- 95	1.199	2781
100.0	3.661	2.873	2.030	2.945	2.117	1.982	0.575	1.903	95-100	1.159	2782
105.0	3.900	3.377	2.436	3.508	2.547	1.848	0.660	1.803	100-105	1.247	2783
110.0	4.091	3.847	2.994	4.021	2.961	1.797	0.761	1.770	105-110	1.346	2785
115.0	4.282	4.250	3.603	4.518	3.279	1.797	0.880	1.754	110-115	1.434	2786
120.0	4.505	4.570	4.178	4.898	3.582	1.848	1.015	1.770	115-120	1.502	2788
125.0	4.728	4.889	4.686	5.213	3.868	1.915	1.133	1.820	120-125	1.546	2789
130.0	4.887	5.191	5.092	5.444	4.155	2.049	1.268	1.903	125-130	1.562	2791
135.0	4.903	5.427	5.363	5.560	4.378	2.201	1.404	2.035	130-135	1.536	2792
140.0	4.807	5.578	5.583	5.593	4.489	2.402	1.556	2.201	135-140	1.459	2794
145.0	4.680	5.695	5.786	5.593	4.473	2.621	1.759	2.399	140-145	1.347	2795
150.0	4.616	5.729	5.955	5.527	4.409	2.873	2.013	2.631	145-150	1.216	2796
155.0	4.584	5.645	6.039	5.378	4.378	3.125	2.317	2.846	150-155	1.066	2797
160.0	4.569	5.443	5.955	5.163	4.378	3.360	2.656	3.061	155-160	0.895	2798
165.0	4.553	5.208	5.684	4.915	4.409	3.595	2.994	3.276	160-165	0.706	2799
170.0	4.553	4.939	5.278	4.633	4.441	3.847	3.349	3.525	165-170	0.507	2800
175.0	4.553	4.603	4.787	4.286	4.473	4.116	3.738	3.773	170-175	0.305	2800
180.0	4.537	4.301	4.280	3.955	4.537	4.418	4.212	4.071	175-180	0.101	2800
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

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Operators:  
Test Date:2025.03.25

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Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

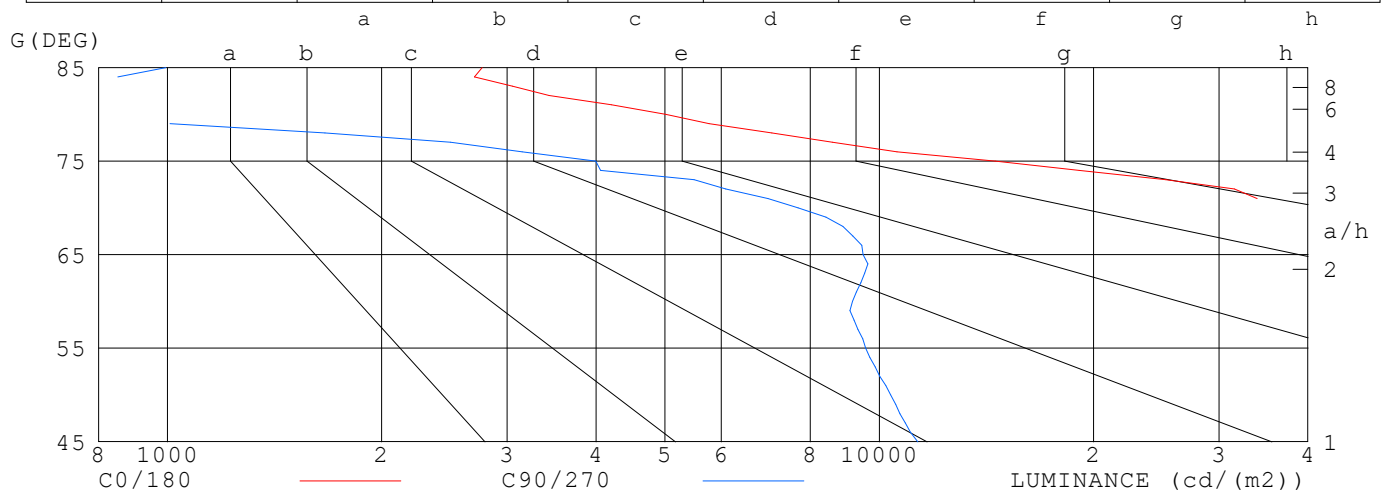
## LUMINANCE LIMITATION CURVES

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### 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	2767	995
80	5015	740
75	14549	3998
70	44675	7689
65	69239	9490
60	68657	9167
55	54535	9563
50	49715	10368
45	47061	11331

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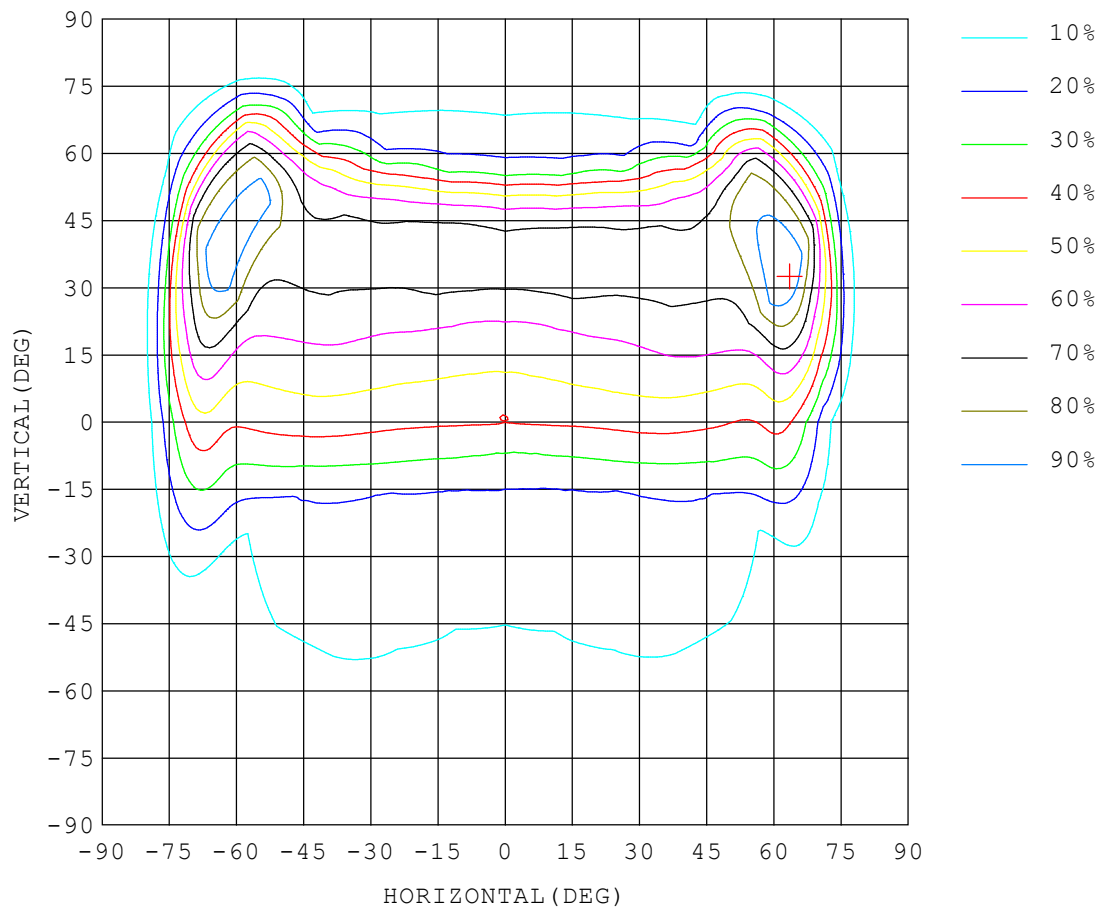
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## ISOCANDELA DIAGRAM

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UNIT: cd



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