

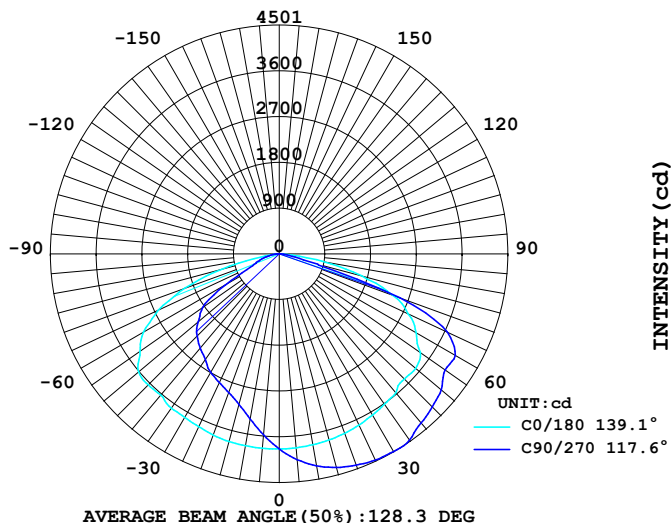
# LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

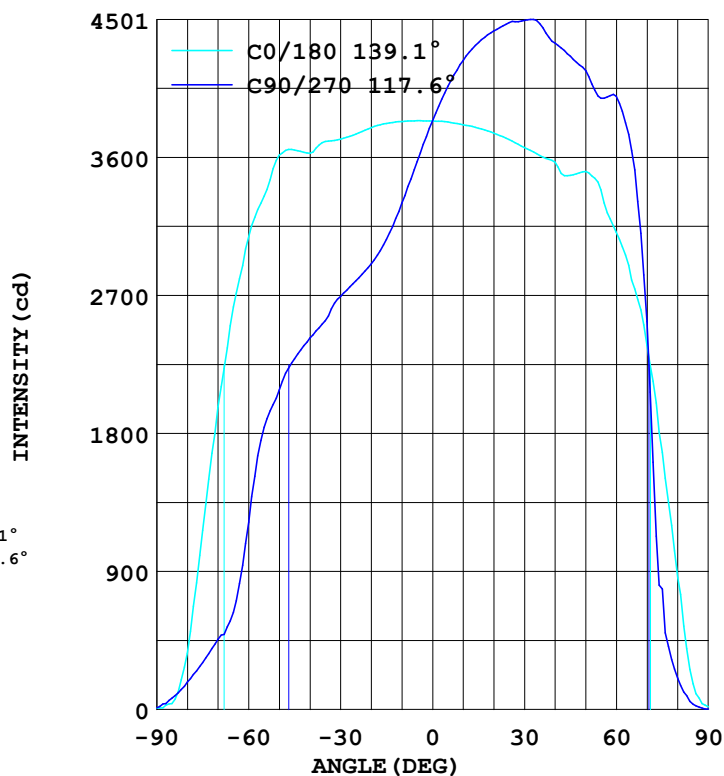
MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Klose	TYPE: IL-FL19-N9040-TY4	WEIGHT:
SPECIFICATION: 2835LED、4000K、type4	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	4501	S/MH (C0/180)	1.48
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.04
NOMINAL POWER(W)	90	TOTAL FLUX(lm)	14352	Voltage(V)	230.3
RATED VOLTAGE (V)	230	EFFICIENCY (lm/W)	159.8	Current(A)	0.395
NOMINAL FLUX(lm)	14352.0	$\eta$ up (%)	0.0	Power(W)	89.80
LAMPS QUANTITY	1	$\eta$ down (%)	100.0	Power Factor (PF)	0.987
TEST VOLTAGE (V)	230.4	Effective Flux(lm)	14352.0	EEL	0.094

## LUMINOUS INTENSITY DISTRIBUTION



## LUMINOUS INTENSITY DISTRIBUTION



Test System:  
Temperature: 25.3 DEG  
Operators:  
Test Date: 2024.11.22

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

---

## Color Temperature Data List

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Klose	TYPE: IL-FL19-N9040-TY4	WEIGHT:
SPECIFICATION: 2835LED、4000K、type4	DIMENSION:	SERIAL No.:

---

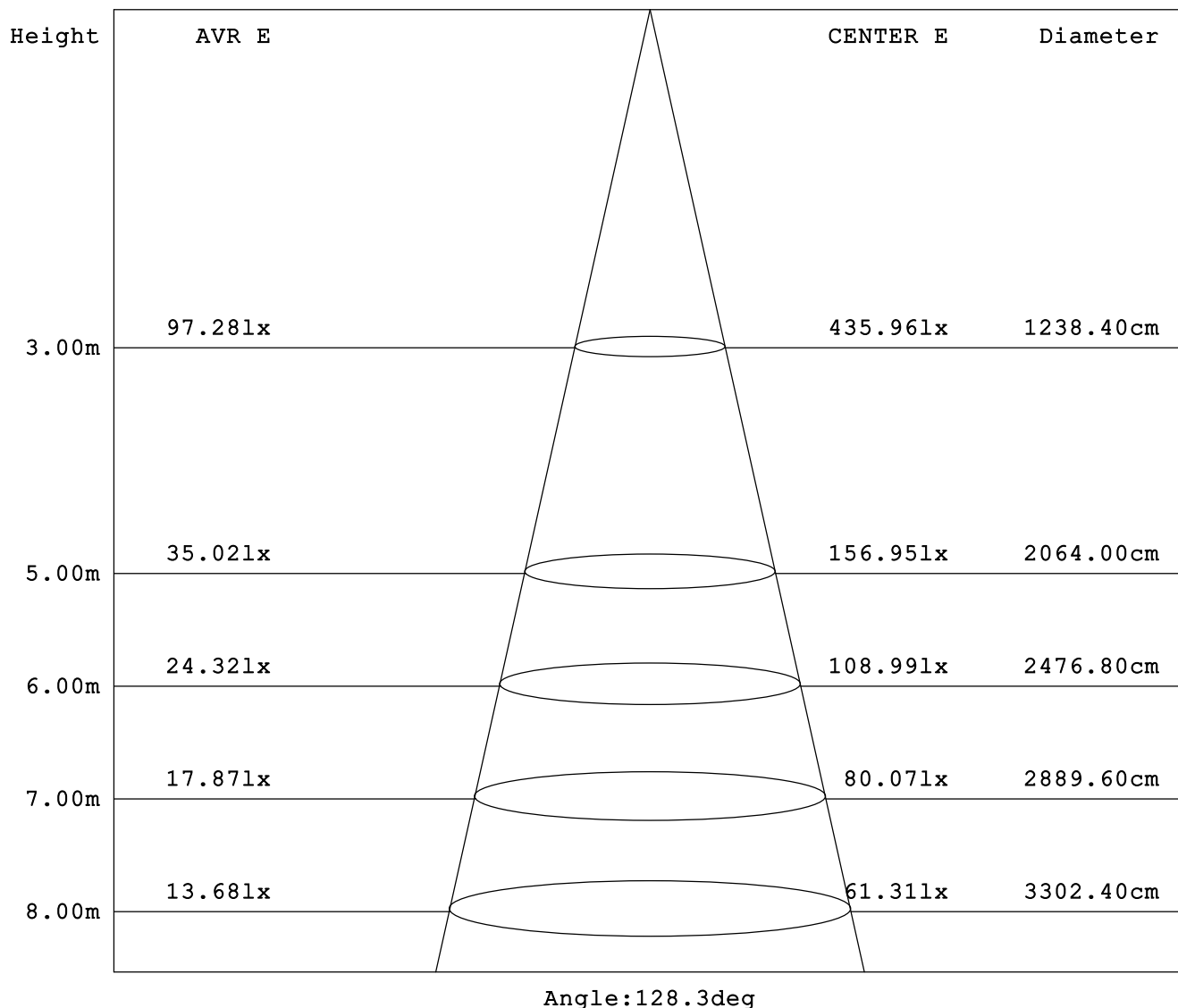
Test System:  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024.11.22

Test Set: 5.0deg/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: Klose	TYPE: IL-FL19-N9040-TY4	WEIGHT:
SPECIFICATION: 2835LED、4000K、type4	DIMENSION:	SERIAL No.:



Test System:  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024.11.22

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: Klose	TYPE: IL-FL19-N9040-TY4	WEIGHT:
SPECIFICATION: 2835LED、4000K、type4	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	3839	3983	3572	3656	3831	3671	4063	3996	0- 5	91.61	91.61
10.0	3834	4097	3302	3458	3813	3501	4233	4129	5- 10	272.5	364.1
15.0	3822	4183	3066	3266	3791	3341	4349	4221	10- 15	447.5	811.7
20.0	3795	4228	2908	3115	3758	3213	4425	4272	15- 20	614.7	1427
25.0	3753	4236	2796	2986	3716	3091	4478	4284	20- 25	773.1	2200
30.0	3719	4213	2694	2855	3664	2959	4493	4281	25- 30	920.4	3120
35.0	3704	4186	2536	2722	3611	2819	4472	4277	30- 35	1054	4174
40.0	3628	4180	2422	2573	3568	2656	4345	4317	35- 40	1167	5341
45.0	3648	4251	2287	2360	3483	2433	4259	4359	40- 45	1261	6603
50.0	3614	4278	2083	2131	3507	2152	4165	4305	45- 50	1346	7948
55.0	3348	3907	1840	1874	3389	1898	3985	3967	50- 55	1378	9327
60.0	3084	3602	1222	1586	3111	1586	3998	3772	55- 60	1338	10665
65.0	2626	3435	632.8	1249	2801	1220	3647	3625	60- 65	1257	11922
70.0	1976	3460	457.7	888.7	2374	829.9	2529	3664	65- 70	1106	13029
75.0	1169	2961	306.7	399.6	1676	301.6	784.8	2620	70- 75	805.2	13834
80.0	367.2	1109	178.0	180.3	860.4	150.7	204.4	731.6	75- 80	389.3	14223
85.0	37.59	151.6	74.71	71.87	167.3	59.49	34.85	86.60	80- 85	110.5	14334
90.0	9.096	3.926	10.46	10.05	17.65	10.60	2.977	7.089	85- 90	18.16	14352
95.0									90- 95		
100.0									95-100		
105.0									100-105		
110.0									105-110		
115.0									110-115		
120.0									115-120		
125.0									120-125		
130.0									125-130		
135.0									130-135		
140.0									135-140		
145.0									140-145		
150.0									145-150		
155.0									150-155		
160.0									155-160		
165.0									160-165		
170.0									165-170		
175.0									170-175		
180.0									175-180		
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:  
Temperature:25.3DEG  
Operators:  
Test Date:2024.11.22

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

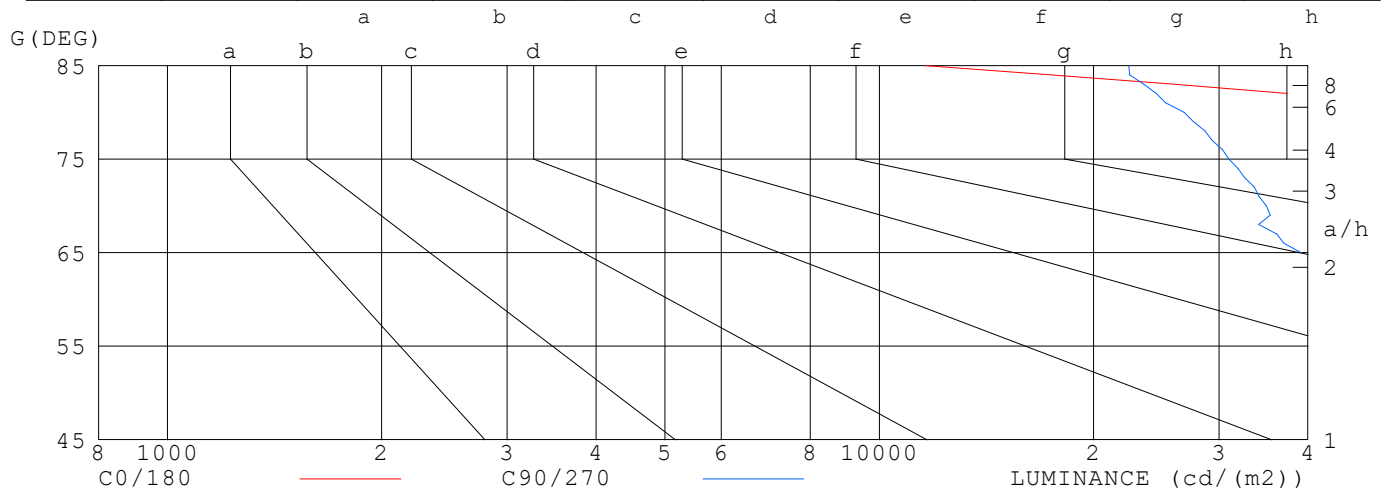
## LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Klose	TYPE: IL-FL19-N9040-TY4	WEIGHT:
SPECIFICATION: 2835LED、4000K、type4	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	11606	22406
80	56912	26803
75	121518	30980
70	155498	34980
65	167188	39140
60	165952	63874
55	157077	83825
50	151270	84696
45	138841	84535

Test System:  
 Temperature: 25.3 DEG  
 Operators:  
 Test Date: 2024.11.22

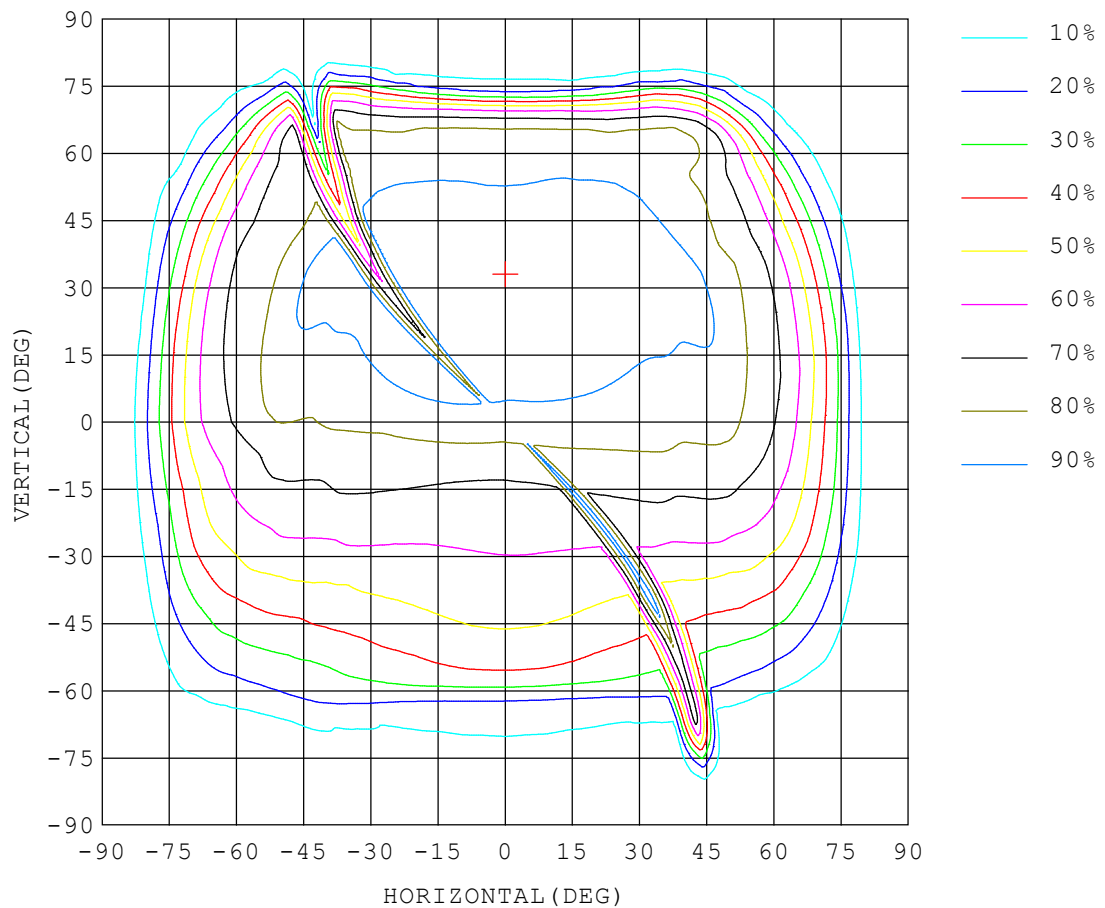
Test Set: 5.0 deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 10.000 m  
 Remarks:

## ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Klose	TYPE: IL-FL19-N9040-TY4	WEIGHT:
SPECIFICATION: 2835LED、4000K、type4	DIMENSION:	SERIAL No.:

UNIT: cd



Test System:  
Temperature: 25.3 DEG  
Operators:  
Test Date: 2024.11.22

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