

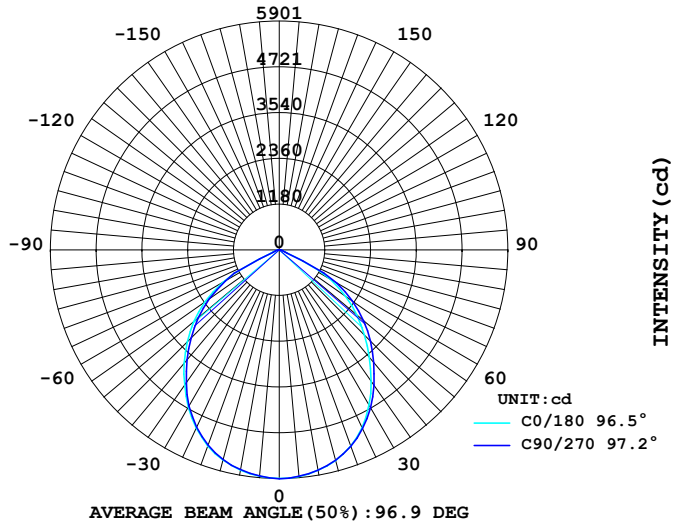
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

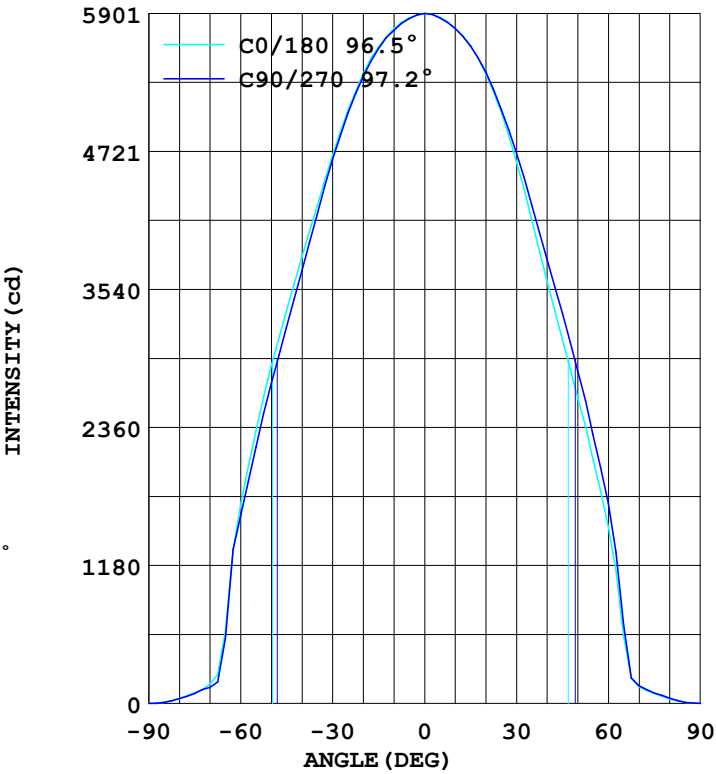
MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Klose	TYPE: IL-FL19-N8040-90	WEIGHT:
SPECIFICATION: 2835LED、4000K、90deg	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	5901	S/MH (C0/180)	1.19
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.18
NOMINAL POWER(W)	80	TOTAL FLUX(lm)	12619	Voltage(V)	230.6
RATED VOLTAGE (V)	230	EFFICIENCY (lm/W)	154.8	Current(A)	0.363
NOMINAL FLUX(lm)	12618.5	$\eta$ up (%)	0.0	Power(W)	81.50
LAMPS QUANTITY	1	$\eta$ down (%)	100.0	Power Factor (PF)	0.973
TEST VOLTAGE (V)	230.6	Effective Flux(lm)	12618.5	EEI	0.097

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:  
 Temperature: 25.3 DEG  
 Operators:  
 Test Date: 2024.11.19

Test Set: 5.0deg/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-N8040-90	WEIGHT:
SPECIFICATION: 2835LED、4000K、90deg	DIMENSION:	SERIAL No.:

---

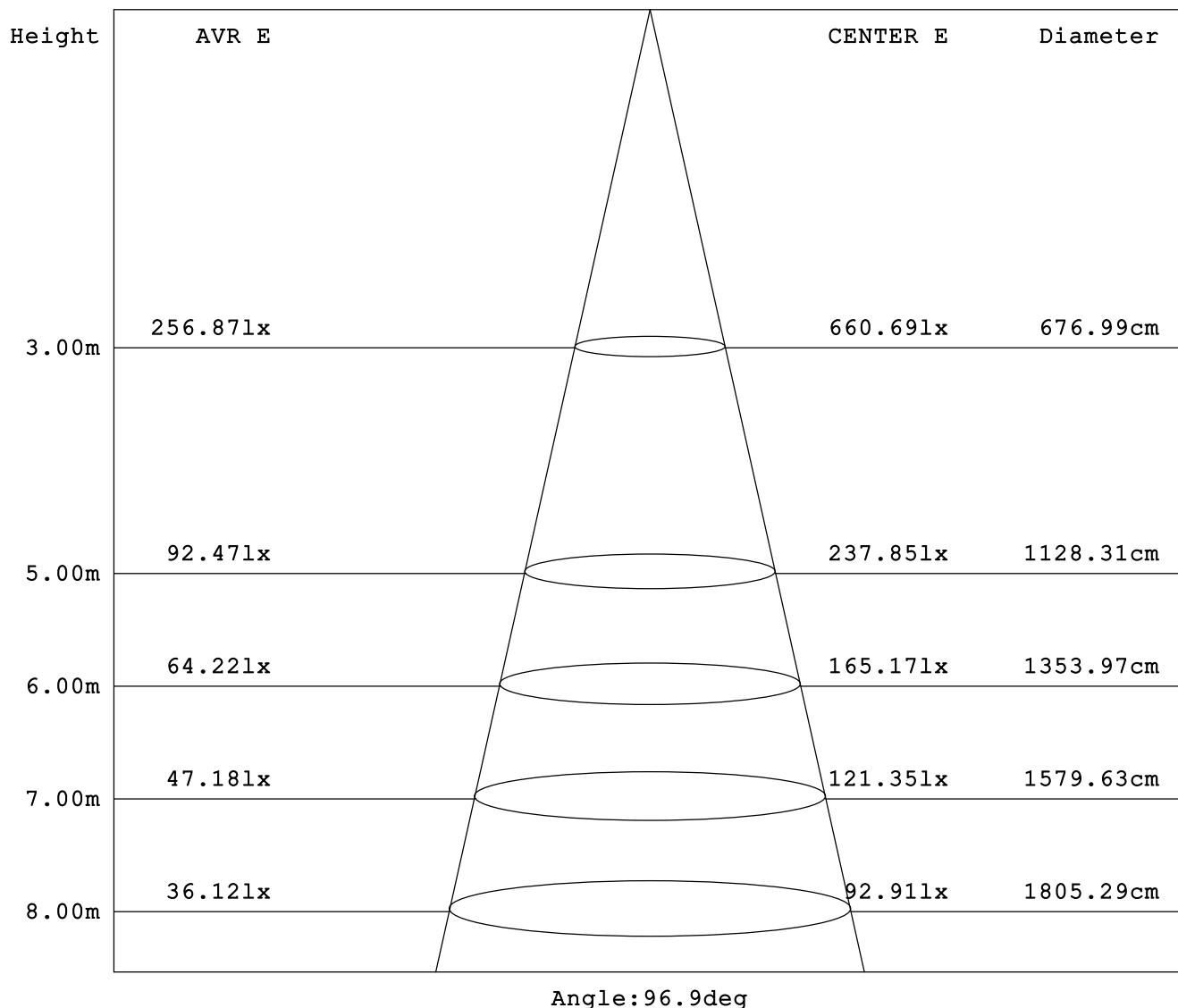
Test System:  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024.11.19

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-N8040-90	WEIGHT:
SPECIFICATION: 2835LED、4000K、90deg	DIMENSION:	SERIAL No.:



Test System:  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2024.11.19

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-N8040-90	WEIGHT:
SPECIFICATION: 2835LED、4000K、90deg	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	5861	5851	5855	5863	5866	5860	5862	5859	0- 5	140.5	140.5
10.0	5768	5751	5755	5761	5771	5760	5771	5770	5- 10	415.7	556.3
15.0	5613	5588	5598	5605	5624	5606	5619	5616	10- 15	674.6	1231
20.0	5387	5368	5364	5373	5386	5372	5401	5398	15- 20	905.9	2137
25.0	5072	5067	5048	5067	5062	5068	5085	5112	20- 25	1097	3233
30.0	4691	4686	4655	4652	4631	4676	4710	4736	25- 30	1234	4468
35.0	4255	4237	4183	4150	4134	4212	4262	4307	30- 35	1310	5778
40.0	3816	3760	3699	3622	3609	3704	3796	3842	35- 40	1325	7103
45.0	3361	3283	3219	3120	3112	3203	3335	3374	40- 45	1291	8394
50.0	2882	2799	2734	2634	2610	2701	2840	2877	45- 50	1214	9608
55.0	2339	2277	2197	2119	2093	2183	2301	2350	50- 55	1087	10695
60.0	1705	1700	1610	1558	1516	1625	1713	1782	55- 60	898.3	11593
65.0	613.1	1079	557.9	1017	575.6	1067	671.1	1242	60- 65	624.8	12218
70.0	167.0	393.6	138.1	376.0	143.7	404.5	151.3	422.4	65- 70	262.1	12480
75.0	92.87	103.1	86.29	83.25	85.25	91.25	88.75	104.4	70- 75	87.31	12567
80.0	43.44	44.53	41.59	40.28	39.42	38.09	44.80	43.18	75- 80	35.14	12602
85.0	9.260	13.40	8.340	11.01	8.572	9.205	10.90	11.81	80- 85	13.53	12616
90.0	1.746	2.341	0.749	2.202	1.905	0.798	2.031	0.913	85- 90	2.564	12619
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:2024.11.19

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

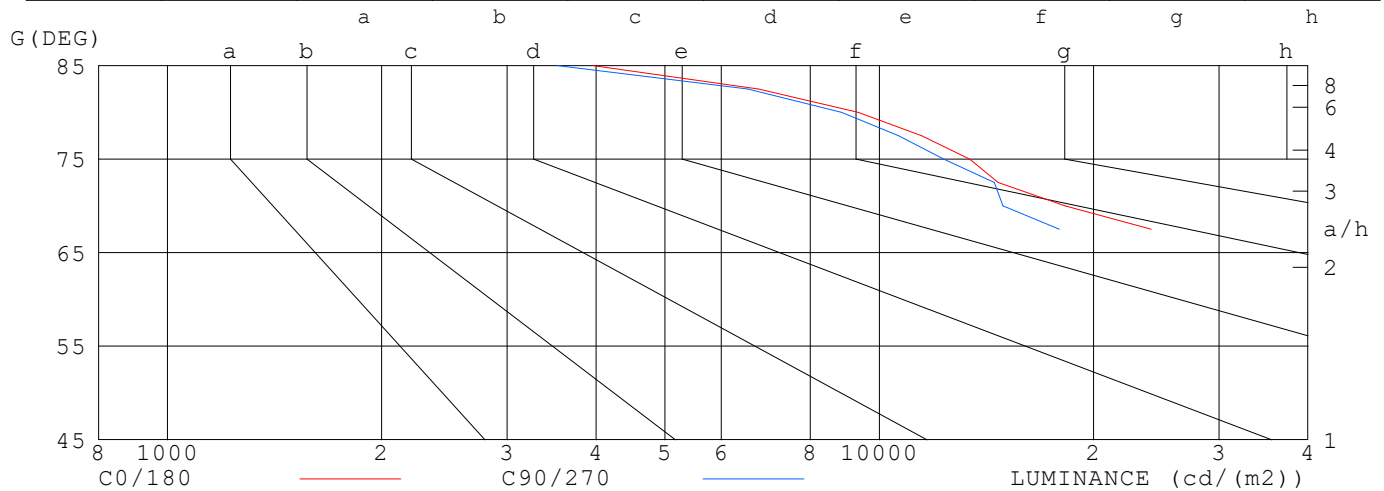
## LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Klose	TYPE: IL-FL19-N8040-90	WEIGHT:
SPECIFICATION: 2835LED、4000K、90deg	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	3966	3535
80	9338	8849
75	13392	12316
70	18231	14922
65	54150	48771
60	127288	118945
55	152191	141489
50	167351	157110
45	177376	168150

Test System:  
 Temperature: 25.3 DEG  
 Operators:  
 Test Date: 2024.11.19

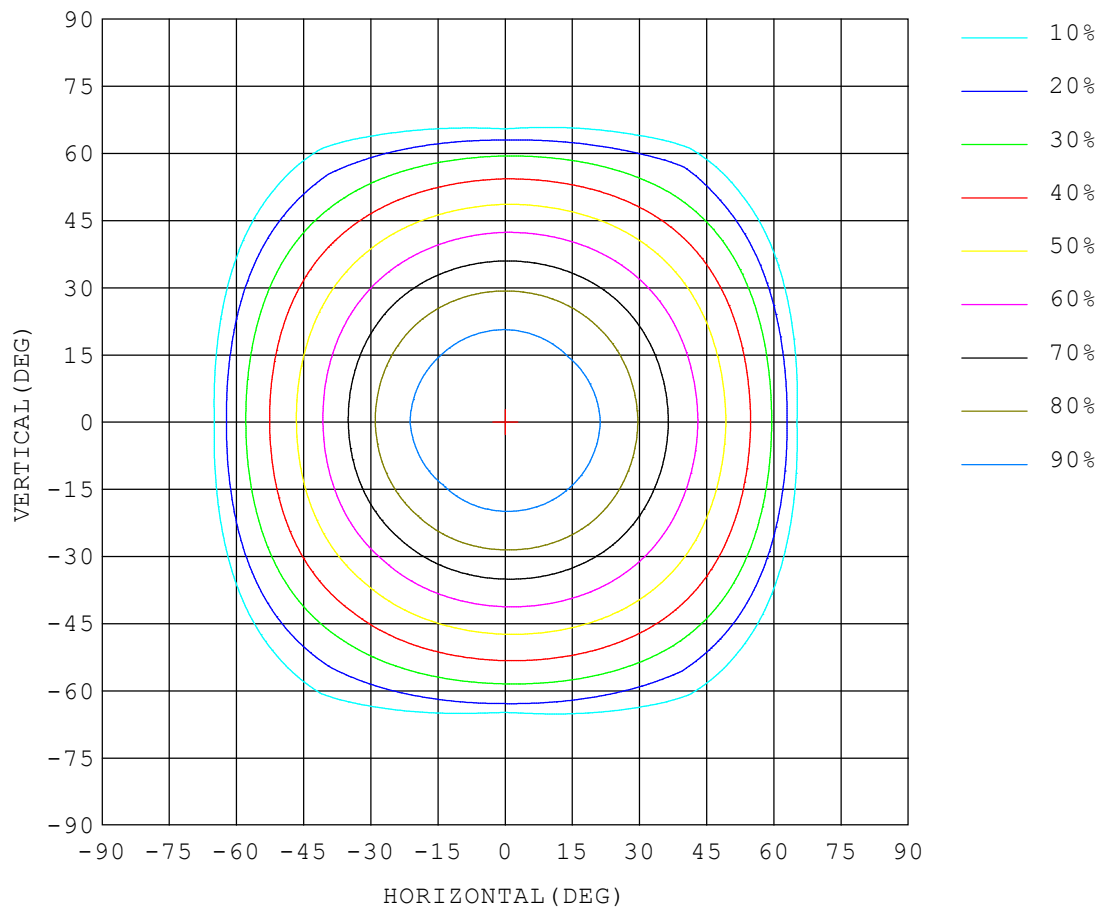
Test Set: 5.0 deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 10.000 m  
 Remarks:

## ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Klose	TYPE: IL-FL19-N8040-90	WEIGHT:
SPECIFICATION: 2835LED、4000K、90deg	DIMENSION:	SERIAL No.:

UNIT: cd



Test System:  
Temperature: 25.3 DEG  
Operators:  
Test Date: 2024.11.19

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