

# DIKER GONIOPHOTOMETERS SYSTEM TEST REPORT

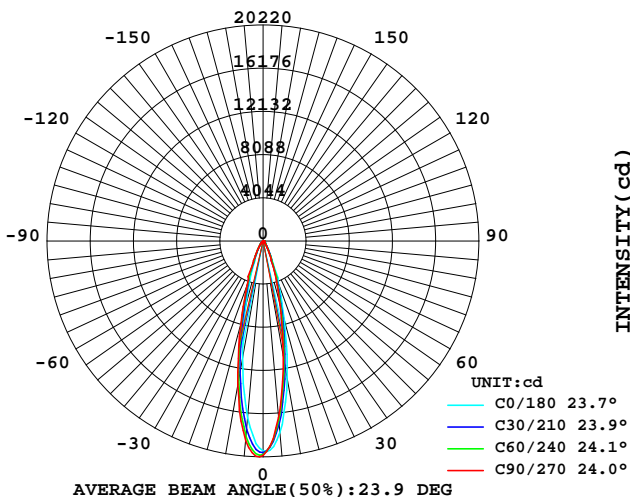
## LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

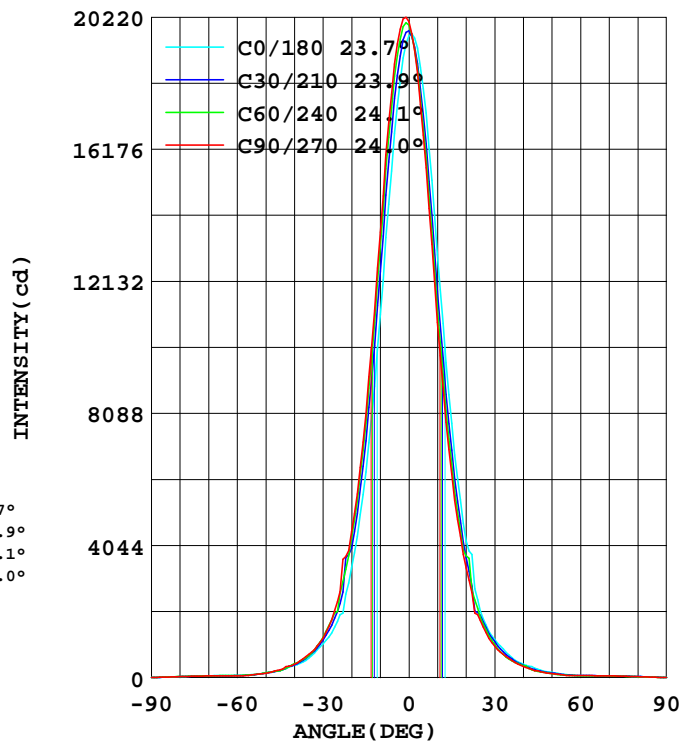
<b>MANUFACTURER:</b>	<b>Address:</b>	
<b>NAME:</b> BL-D1801848	<b>TYPE:</b> LED Projector Light	<b>WEIGHT:</b>
<b>SPECIFICATION:</b> BL-D180-50W-25D	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

<b>DATA OF LAMP</b>		<b>Imax(cd)</b>	20252	<b>S/MH(C0/180)</b>	0.38
<b>MODEL</b>	CREE XPG	<b>EFFICIENCY(%)</b>	100.0	<b>S/MH(C90/270)</b>	0.44
<b>NOMINAL POWER(W)</b>	50	<b>TOTAL FLUX(lm)</b>	5233.4	<b>Voltage(V)</b>	218.1
<b>RATED VOLTAGE(V)</b>	218	<b>EFFICIENCY(lm/W)</b>	97.0	<b>Current(A)</b>	0.252
<b>NOMINAL FLUX(lm)</b>	5233.4	<b>η up(%)</b>	0.0	<b>Power(W)</b>	53.95
<b>LAMPS QUANTITY</b>	1	<b>η down(%)</b>	100.0	<b>Power Factor(PF)</b>	0.980
<b>TEST VOLTAGE(V)</b>	218.1	<b>Effective Flux(lm)</b>	5233.4	<b>EEI</b>	0.140

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPPO HPG1600  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年04月27日

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:7.060 m  
 Remarks:

DIKER GONIOPHOTOMETERS SYSTEM TEST REPORT

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Color Temperature Data List

Report number:

MANUFACTURER:	Address:	
NAME: BL-D1801848	TYPE:LED Projector Light	WEIGHT:
SPECIFICATION:BL-D180-50W-25D	DIMENSION:	SERIAL No.:

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Test System:HOP00 HPG1600  
Temperature:25.3DEG  
Operators:  
Test Date:2023年04月27日

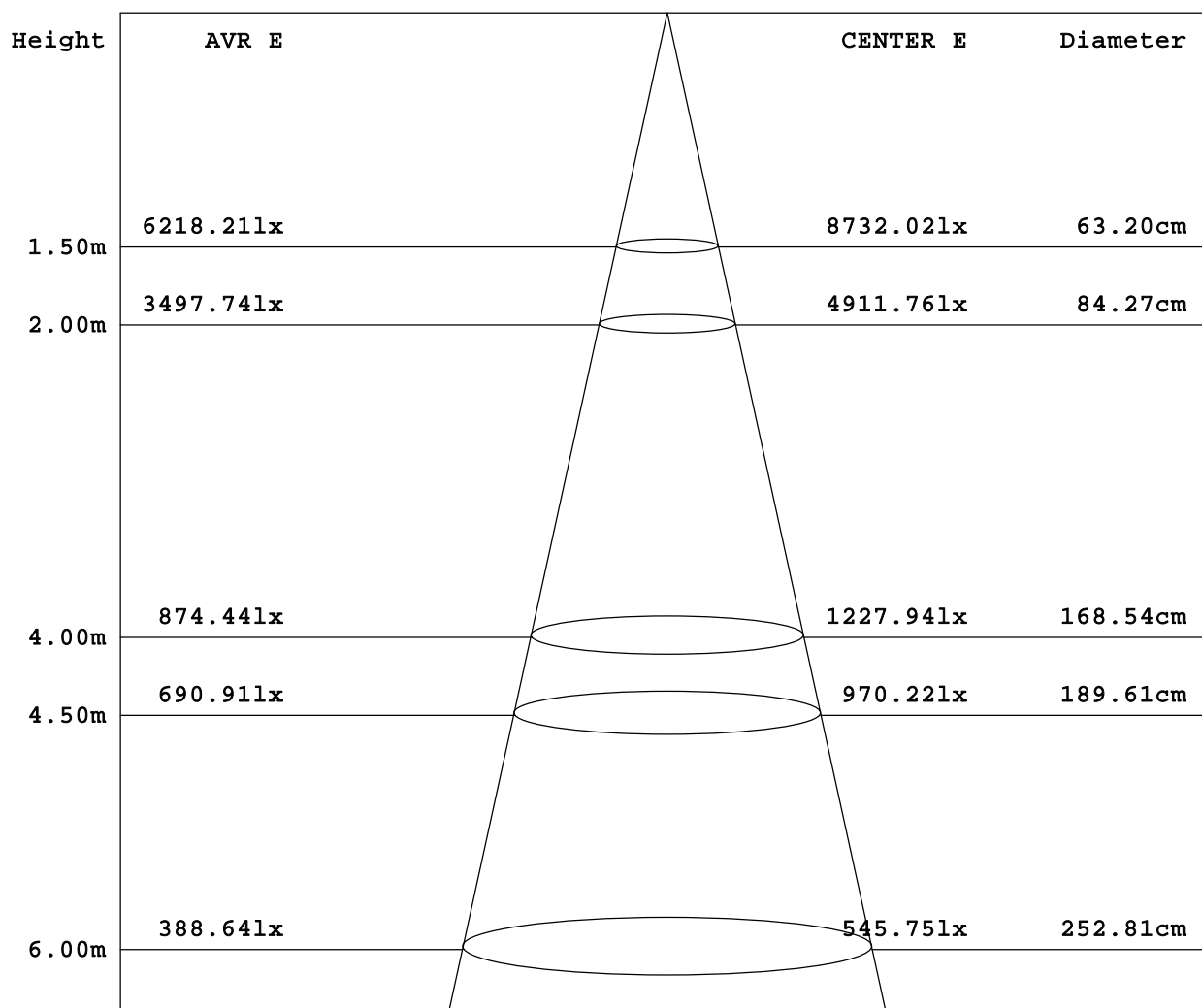
Test Set: 8.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:7.060 m  
Remarks:

# DIKER GONIOPHOTOMETERS SYSTEM TEST REPORT

## AVERAGE AND CENTER E Figure

Report number:

<b>MANUFACTURER:</b>	<b>Address:</b>	
<b>NAME:</b> BL-D1801848	<b>TYPE:</b> LED Projector Light	<b>WEIGHT:</b>
<b>SPECIFICATION:</b> BL-D180-50W-25D	<b>DIMENSION:</b>	<b>SERIAL No.:</b>



Angle: 23.8deg

Test System:HOPOO HPG1600  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年04月27日

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:7.060 m  
 Remarks:

# DIKER GONIOPHOTOMETERS SYSTEM TEST REPORT

## ZONAL FLUX DIAGRAM

Report number:

<b>MANUFACTURER:</b>	<b>Address:</b>	
<b>NAME: BL-D1801848</b>	<b>TYPE:LED Projector Light</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:BL-D180-50W-25D</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	zone	total
5.0	1666	1806	1879	1834	1803	1704	1661	1713	0- 5	448.2	448.2
10.0	1112	1284	1363	1296	1294	1156	1088	1144	5- 10	1053	1501
15.0	629.4	752.1	806.7	754.5	779.1	675.1	622.4	658.4	10- 15	1112	2613
20.0	336.6	411.9	446.1	405.6	418.1	370.1	336.0	361.9	15- 20	862.7	3476
25.0	171.5	202.5	233.1	200.6	204.2	187.3	175.1	181.4	20- 25	585.5	4062
30.0	103.3	118.9	121.3	116.9	117.2	106.2	96.83	104.6	25- 30	375.5	4437
35.0	59.78	66.98	71.25	66.64	68.63	60.17	58.24	59.62	30- 35	248.5	4686
40.0	37.48	40.63	40.36	40.92	40.28	37.14	34.00	37.18	35- 40	165.1	4851
45.0	20.62	21.42	24.31	21.84	25.51	20.14	20.99	20.46	40- 45	111.2	4962
50.0	15.08	14.34	13.47	15.09	15.78	13.02	11.90	13.70	45- 50	70.87	5033
55.0	8.966	8.426	7.855	8.692	9.131	7.720	6.833	8.303	50- 55	46.92	5080
60.0	6.549	6.168	5.761	6.270	6.140	6.070	6.275	6.290	55- 60	32.20	5112
65.0	6.135	5.809	5.517	5.881	5.741	5.674	5.876	5.876	60- 65	29.23	5141
70.0	5.652	5.365	5.113	5.400	5.328	5.196	5.383	5.405	65- 70	28.33	5170
75.0	4.640	4.475	4.266	4.503	4.530	4.271	4.381	4.465	70- 75	25.83	5196
80.0	3.209	3.185	3.030	3.209	3.224	2.945	3.010	3.075	75- 80	20.29	5216
85.0	1.575	1.672	1.614	1.712	1.794	1.500	1.565	1.535	80- 85	12.82	5229
90.0	0.249	0.174	0.145	0.192	0.299	0.159	0.244	0.157	85- 90	4.695	5233
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: $\times 10\text{cd}$									UNIT:lm	

Test System:HOPOO HPG1600  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年04月27日

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:7.060 m  
 Remarks:

# DIKER GONIOPHOTOMETERS SYSTEM TEST REPORT

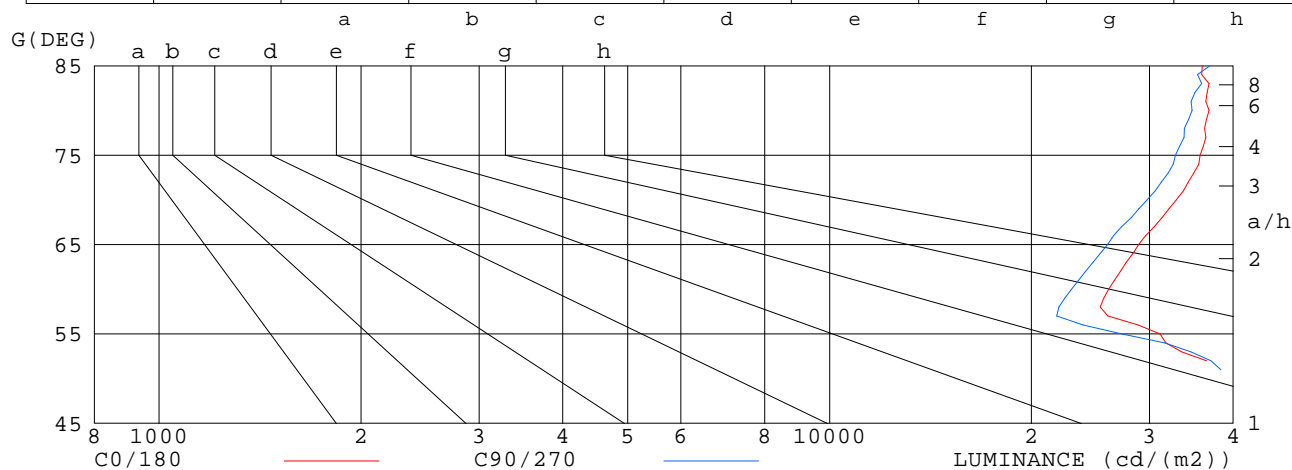
## LUMINANCE LIMITATION CURVES

Report number:

<b>MANUFACTURER:</b>		<b>Address:</b>	
<b>NAME: BL-D1801848</b>		<b>TYPE:LED Projector Light</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:BL-D180-50W-25D</b>		<b>DIMENSION:</b>	<b>SERIAL No.:</b>

### LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
		2000	1000	500	<=300				
1.15	A								
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



G (DEG)	LUMINANCE cd/(m2)	
	C0/180	C90/270
85	35971	36882
80	36794	34737
75	35687	32812
70	32894	29762
65	28898	25987
60	26073	22938
55	31117	27260
50	46720	41735
45	58044	68441

Test System:HOPOO HPG1600  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年04月27日

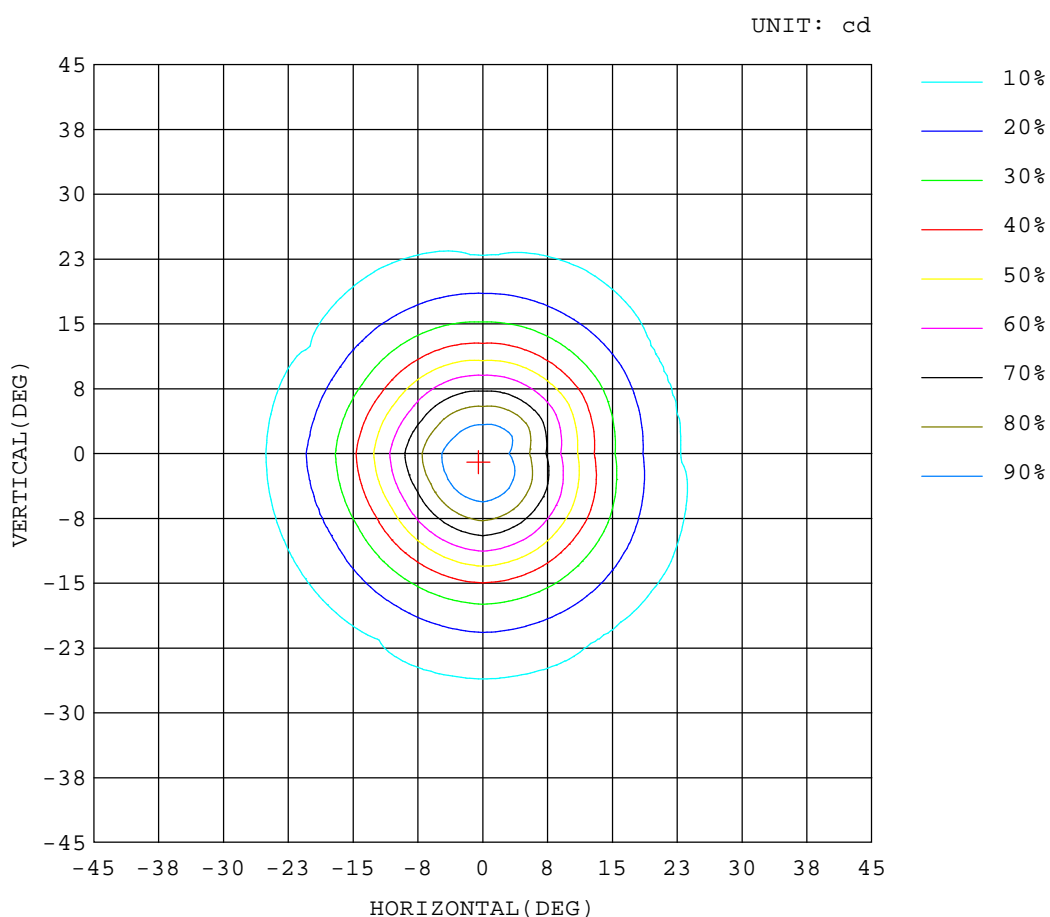
Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:7.060 m  
 Remarks:

# DIKER GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOCANDELA DIAGRAM

Report number:

<b>MANUFACTURER:</b>	<b>Address:</b>	
<b>NAME: BL-D1801848</b>	<b>TYPE:LED Projector Light</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:BL-D180-50W-25D</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>



Test System:HOP00 HPG1600  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年04月27日

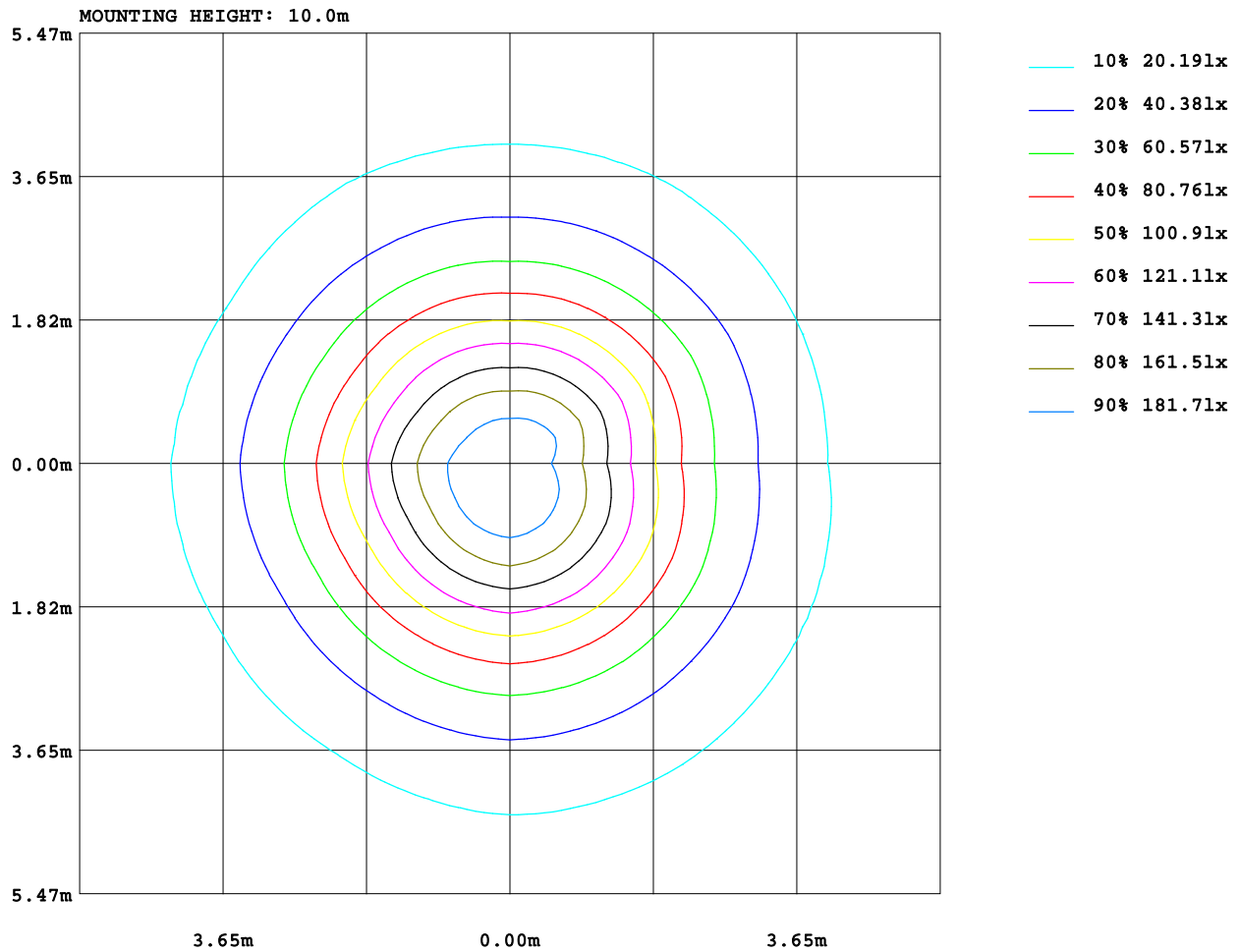
Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:7.060 m  
 Remarks:

# DIKER GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOLUX DIAGRAM

Report number:

<b>MANUFACTURER:</b>	<b>Address:</b>	
<b>NAME: BL-D1801848</b>	<b>TYPE:LED Projector Light</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:BL-D180-50W-25D</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>



Test System:HOP00 HPG1600  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年04月27日

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:7.060 m  
 Remarks:

DIKER GONIOPHOTOMETERS SYSTEM TEST REPORT

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:	Address:	
NAME: BL-D1801848	TYPE:LED Projector Light	WEIGHT:
SPECIFICATION:BL-D180-50W-25D	DIMENSION:	SERIAL No.:

VERTICAL (DEG)	AREA FLUX DIAGRAM																	UNIT:lm		Φ t	Φ a												
	0.40	0.51	0.70	0.92	1.13	1.38	1.66	1.90	2.01	2.01	1.91	1.69	1.42	1.18	0.97	0.74	0.55	0.42	21.5	21.5													
45	0.50	0.74	1.01	1.34	1.83	2.43	2.88	3.19	3.38	3.38	3.18	2.85	2.41	1.86	1.38	1.05	0.78	0.54	34.7	34.7													
40	0.68	0.99	1.41	2.12	2.91	3.64	4.48	5.23	5.65	5.65	5.21	4.45	3.61	2.89	2.14	1.44	1.02	0.71	54.3	54.3													
35	0.86	1.29	2.04	3.03	4.24	5.76	7.52	9.09	9.92	9.90	9.06	7.50	5.71	4.20	3.03	2.07	1.31	0.89	87.5	87.5													
30	1.04	1.72	2.74	4.25	6.41	9.37	12.9	16.4	18.3	18.3	16.1	12.7	9.23	6.32	4.21	2.76	1.71	1.04	146	146													
25	1.28	2.16	3.56	5.85	9.35	14.2	22.9	30.6	34.7	34.5	30.3	22.5	13.8	9.10	5.73	3.48	2.13	1.22	248	248													
20	1.53	2.56	4.46	7.59	12.4	22.0	36.5	52.1	62.8	62.5	51.3	35.4	21.2	11.8	7.22	4.20	2.46	1.41	400	400													
15	1.73	2.89	5.26	9.15	16.6	31.8	54.5	82.4	102	102	81.4	52.3	29.1	14.5	8.38	4.81	2.69	1.57	604	604													
10	1.86	3.11	5.79	10.2	20.9	39.8	71.2	109	137	137	104	62.8	33.7	16.4	8.97	5.15	2.81	1.66	771	771													
5	1.87	3.12	5.81	10.2	21.4	40.5	73.0	114	144	142	106	64.7	34.7	17.3	9.11	5.19	2.81	1.66	798	798													
0	1.76	2.91	5.32	9.35	17.8	33.7	58.8	91.9	118	118	91.0	57.2	31.9	16.5	8.74	4.92	2.72	1.58	673	673													
-5	1.57	2.59	4.52	7.84	13.4	24.5	41.1	61.8	78.2	78.4	62.2	41.3	25.7	13.3	7.65	4.32	2.50	1.43	473	473													
-10	1.32	2.23	3.62	6.06	10.0	15.8	25.6	36.3	44.5	44.7	37.0	26.7	16.6	10.1	6.10	3.59	2.19	1.21	294	294													
-15	1.08	1.81	2.83	4.49	7.06	10.7	14.6	20.1	24.8	25.1	20.9	15.4	10.9	7.16	4.53	2.85	1.78	1.01	178	178													
-20	0.89	1.37	2.20	3.28	4.75	6.76	9.10	11.2	12.6	12.7	11.4	9.31	6.85	4.77	3.28	2.21	1.31	0.84	105	105													
-25	0.71	1.05	1.55	2.36	3.30	4.30	5.37	6.37	6.97	6.98	6.39	5.38	4.27	3.26	2.35	1.50	1.00	0.67	63.8	63.8													
-30	0.53	0.82	1.12	1.51	2.13	2.84	3.40	3.83	4.10	4.09	3.80	3.35	2.78	2.09	1.47	1.07	0.77	0.51	40.2	40.2													
-35	0.42	0.58	0.82	1.08	1.33	1.64	2.01	2.32	2.48	2.47	2.30	1.99	1.62	1.30	1.04	0.78	0.55	0.40	25.1	25.1													
-40																																	
-45																																	
	-45	-40	-35	-30	-25	-20	-15	-10	HORIZONTAL (DEG)																	10	15	20	25	30	35	40	45
Φ t	20.0	32.5	54.8	90.7	157	272	448	658	813	810	644	428	256	145	86.3	52.2	31.1	18.8	5233														
Φ a	20.0	32.5	54.8	90.7	157	272	448	658	813	810	644	428	256	145	86.3	52.2	31.1	18.8		5233													

Test System:HOPPO HPG1600  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年04月27日

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:7.060 m  
 Remarks:



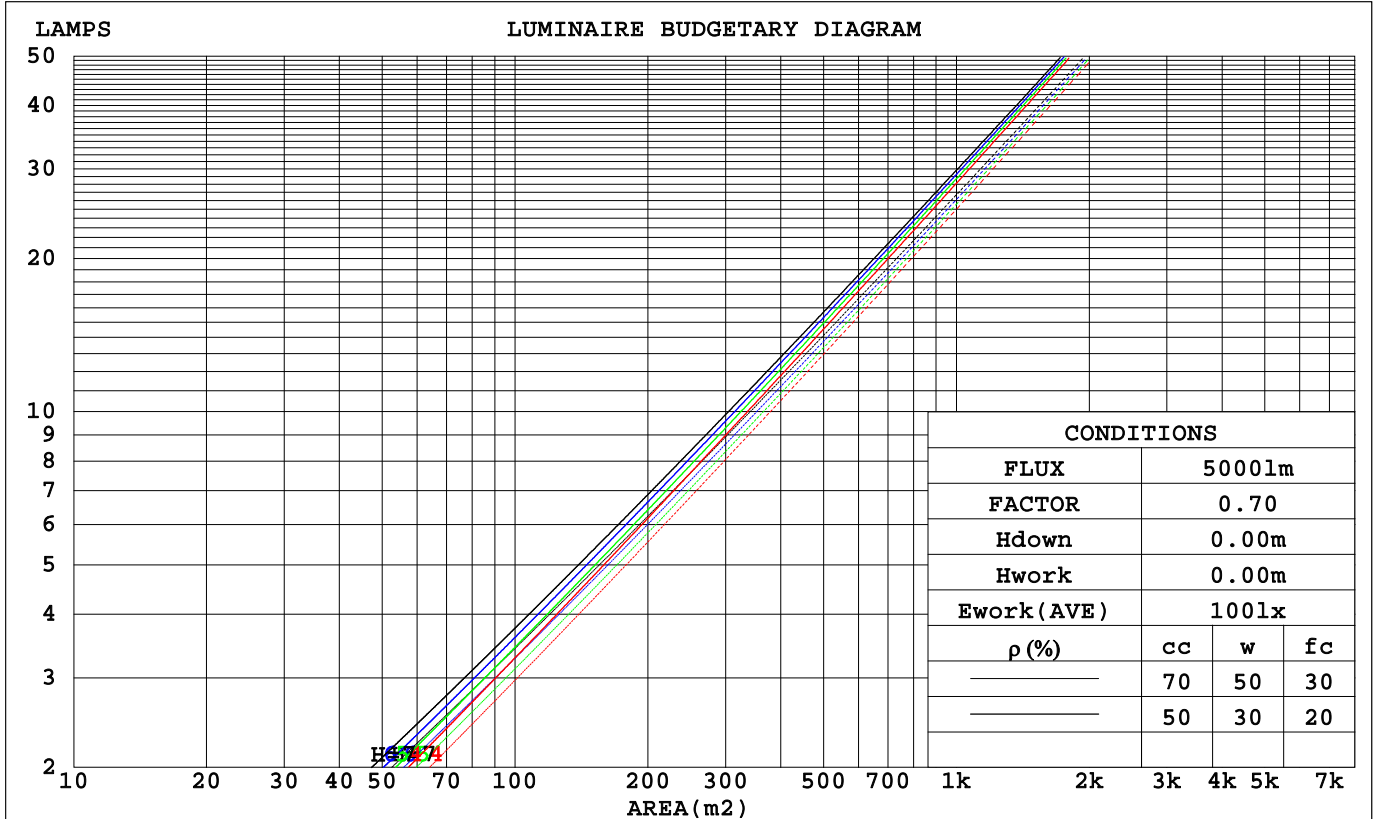
DIKER GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:				Address:			
NAME: BL-D1801848				TYPE:LED Projector Light		WEIGHT:	
SPECIFICATION:BL-D180-50W-25D				DIMENSION:		SERIAL No.:	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.12	1.09	1.07	1.09	1.07	1.06	1.05	1.04	1.02	1.02	1.01	.99	.98	.97	.97	.95
2.0	1.05	1.02	.99	1.04	1.00	.98	1.00	.98	.95	.97	.95	.93	.95	.93	.92	.90
3.0	.90	.95	.92	.98	.94	.91	.96	.93	.90	.93	.91	.88	.91	.89	.87	.86
4.0	.95	.90	.87	.94	.89	.86	.92	.88	.85	.90	.87	.84	.88	.85	.83	.82
5.0	.91	.86	.82	.90	.85	.82	.88	.84	.81	.86	.83	.80	.85	.82	.80	.78
6.0	.87	.82	.78	.86	.81	.78	.85	.81	.77	.83	.80	.77	.82	.79	.77	.75
7.0	.83	.78	.75	.83	.78	.75	.81	.77	.74	.80	.77	.74	.79	.76	.74	.72
8.0	.80	.75	.72	.80	.75	.72	.79	.74	.71	.78	.74	.71	.77	.73	.71	.70
9.0	.77	.72	.69	.77	.72	.69	.76	.72	.69	.75	.71	.69	.74	.71	.69	.67
10.0	.75	.70	.67	.74	.70	.67	.73	.69	.67	.73	.69	.66	.72	.69	.66	.65



Test System:HOPPO HPG1600  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年04月27日

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:7.060 m  
 Remarks:

**DIKER GONIOPHOTOMETERS SYSTEM TEST REPORT**

**WEC AND CCEC**

Report number:

<b>MANUFACTURER:</b>	<b>Address:</b>					
<b>NAME: BL-D1801848</b>	<b>TYPE:LED Projector Light</b>			<b>WEIGHT:</b>		
<b>SPECIFICATION:BL-D180-50W-25D</b>	<b>DIMENSION:</b>			<b>SERIAL No.:</b>		

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Wall Exitance Coefficients(WEC)</b>									
0.0																
1.0	.161	.092	.029	.154	.088	.028	.142	.081	.026	.130	.075	.024	.120	.069	.022	
2.0	.150	.082	.025	.144	.080	.025	.134	.074	.023	.124	.070	.022	.115	.065	.021	
3.0	.140	.074	.022	.135	.072	.022	.126	.068	.021	.118	.065	.020	.111	.061	.019	
4.0	.131	.068	.020	.127	.066	.020	.120	.063	.019	.113	.060	.018	.106	.058	.018	
5.0	.123	.063	.018	.120	.061	.018	.113	.059	.017	.107	.057	.017	.102	.054	.016	
6.0	.116	.058	.017	.113	.057	.016	.108	.055	.016	.103	.053	.016	.098	.051	.015	
7.0	.110	.055	.015	.108	.054	.015	.103	.052	.015	.098	.050	.015	.094	.049	.014	
8.0	.105	.051	.014	.103	.051	.014	.098	.049	.014	.094	.048	.014	.090	.046	.014	
9.0	.100	.048	.014	.098	.048	.013	.094	.047	.013	.091	.045	.013	.087	.044	.013	
10.0	.096	.046	.013	.094	.045	.013	.090	.044	.012	.087	.043	.012	.084	.042	.012	

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Ceiling Cavity Exitance Coefficients(CCEC)</b>									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.170	.157	.146	.145	.135	.126	.100	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.115	.131	.114	.100	.090	.079	.069	.052	.046	.041	.017	.015	.013	
3.0	.139	.113	.093	.120	.098	.080	.082	.068	.056	.047	.040	.033	.015	.013	.011	
4.0	.128	.098	.076	.110	.085	.066	.075	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.118	.086	.063	.101	.075	.055	.070	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.109	.077	.053	.094	.066	.046	.065	.046	.033	.038	.027	.019	.012	.009	.006	
7.0	.102	.069	.045	.088	.060	.039	.061	.042	.028	.035	.025	.017	.011	.008	.006	
8.0	.096	.062	.039	.082	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.090	.057	.034	.078	.049	.030	.054	.035	.021	.031	.020	.013	.010	.007	.004	
10.0	.085	.052	.030	.073	.045	.026	.051	.032	.018	.030	.019	.011	.010	.006	.004	

Test System:HOPPO HPG1600  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年04月27日

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:7.060 m  
 Remarks:

**DIKER GONIOPHOTOMETERS SYSTEM TEST REPORT**

**Uncorrected UGR Table**

Report number:

<b>MANUFACTURER:</b>					<b>Address:</b>					
<b>NAME: BL-D1801848</b>					<b>TYPE:LED Projector Light</b>			<b>WEIGHT:</b>		
<b>SPECIFICATION:BL-D180-50W-25D</b>					<b>DIMENSION:</b>			<b>SERIAL No.:</b>		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
<b>Room dimensions</b>	<b>Viewed crosswise</b>					<b>Viewed endwise</b>				
<b>x = 2H y = 2H</b>	19.9	20.7	20.2	20.9	21.0	20.1	20.9	20.3	21.1	21.2
3H	20.7	21.4	21.0	21.6	21.8	20.8	21.5	21.0	21.7	21.9
4H	21.3	22.0	21.5	22.2	22.4	21.3	22.0	21.6	22.2	22.4
6H	21.8	22.5	22.1	22.7	22.9	21.8	22.4	22.1	22.7	22.9
8H	22.0	22.7	22.3	22.9	23.2	22.0	22.6	22.3	22.9	23.1
12H	22.2	22.8	22.5	23.1	23.3	22.2	22.8	22.5	23.0	23.3
4H 2H	20.1	20.7	20.3	21.0	21.2	20.2	20.9	20.5	21.1	21.3
3H	21.1	21.7	21.4	22.0	22.3	21.2	21.8	21.5	22.1	22.3
4H	21.9	22.4	22.2	22.7	23.0	21.9	22.5	22.3	22.8	23.1
6H	22.6	23.1	23.0	23.4	23.8	22.6	23.1	23.0	23.5	23.8
8H	22.9	23.3	23.3	23.7	24.1	22.9	23.4	23.3	23.7	24.1
12H	23.1	23.5	23.5	23.9	24.3	23.2	23.6	23.6	24.0	24.3
8H 4H	22.1	22.6	22.5	23.0	23.3	22.2	22.7	22.6	23.0	23.4
6H	23.0	23.4	23.5	23.8	24.2	23.1	23.5	23.5	23.9	24.3
8H	23.4	23.8	23.9	24.2	24.6	23.5	23.9	24.0	24.3	24.7
12H	23.7	24.0	24.2	24.5	24.9	23.9	24.2	24.4	24.6	25.1
12H 4H	22.2	22.6	22.6	23.0	23.4	22.2	22.6	22.6	23.0	23.4
6H	23.1	23.4	23.6	23.9	24.3	23.2	23.5	23.6	23.9	24.4
8H	23.5	23.8	24.0	24.3	24.7	23.7	24.0	24.1	24.4	24.9
<b>Variations with the observer position at spacings:</b>										
S = 1.0H	+ 0.6 / - 0.7					+ 0.8 / - 0.8				
1.5H	+ 1.1 / - 0.6					+ 1.6 / - 0.7				
2.0H	+ 1.1 / - 0.4					+ 1.2 / - 0.6				

CIE Pub.117 Corrected 5233 lm Total Lamp Luminous Flux. (8log(F/F0) = 5.8)

Test System:HOPPO HPG1600  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年04月27日

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:7.060 m  
 Remarks:

# DIKER GONIOPHOTOMETERS SYSTEM TEST REPORT

## UTILIZATION FACTORS TABLE

Report number:

<b>MANUFACTURER:</b>	<b>Address:</b>	
<b>NAME:</b> BL-D1801848	<b>TYPE:</b> LED Projector Light	<b>WEIGHT:</b>
<b>SPECIFICATION:</b> BL-D180-50W-25D	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
<b>ROOM INDEX</b>	<b>UTILIZATION FACTORS(PERCENT) <math>k(RI) \times RCR = 5</math></b>									
k = 0.60	87	81	77	87	81	77	86	80	77	73
0.80	94	88	85	94	88	85	93	88	84	80
1.00	99	93	89	98	93	89	96	92	89	85
1.25	103	97	94	102	97	93	100	96	93	88
1.50	105	101	97	104	100	97	102	98	96	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	106	104	106	104	102	95
4.00	114	111	108	111	109	107	108	106	104	97
5.00	115	112	111	113	111	109	109	107	106	98
<b>ROOM INDEX</b>	<b>UF(total)</b>									<b>Direct</b>
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

Test System:HOPPO HPG1600  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年04月27日

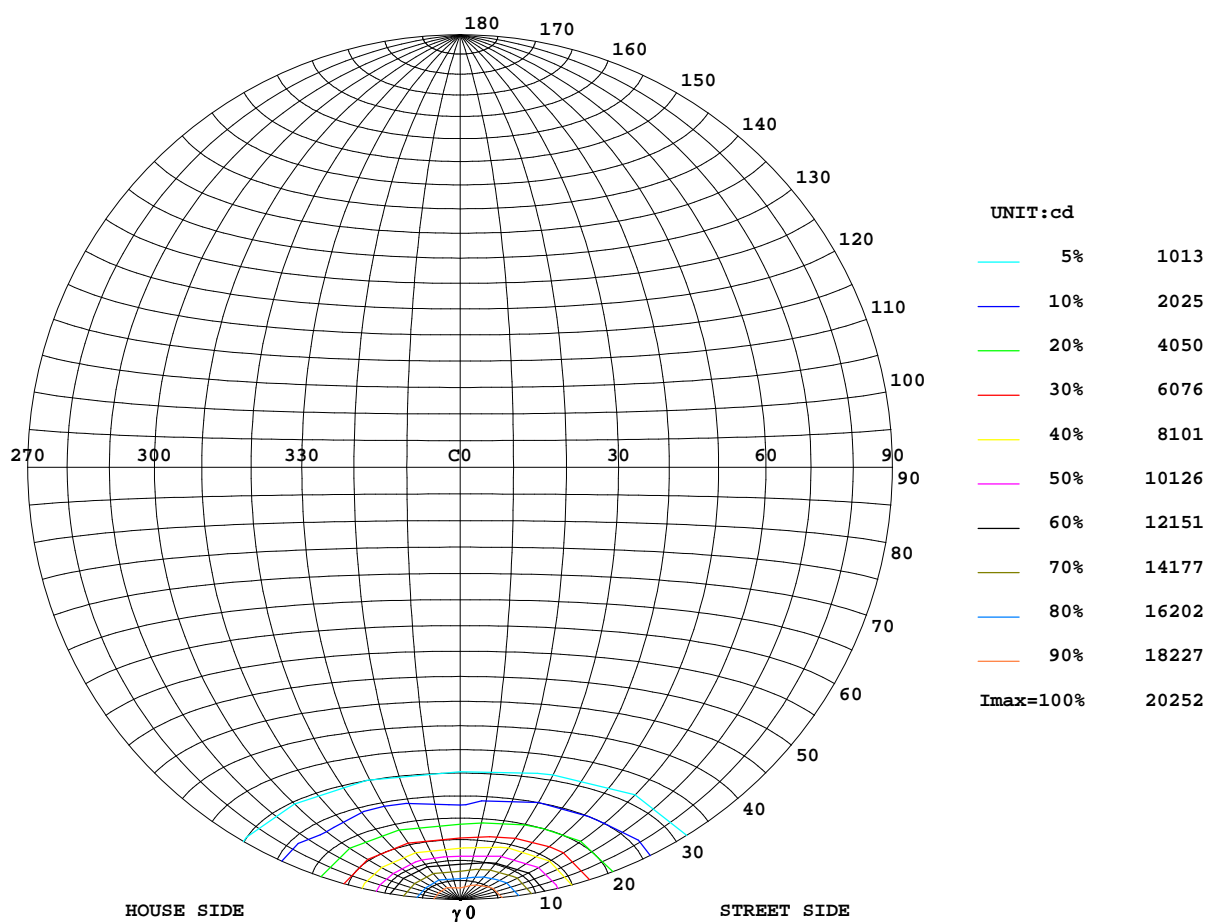
Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:7.060 m  
 Remarks:

# DIKER GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: BL-D1801848	TYPE:LED Projector Light	WEIGHT:
SPECIFICATION:BL-D180-50W-25D	DIMENSION:	SERIAL No.:



Test System:HOP00 HPG1600  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年04月27日

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:7.060 m  
 Remarks:

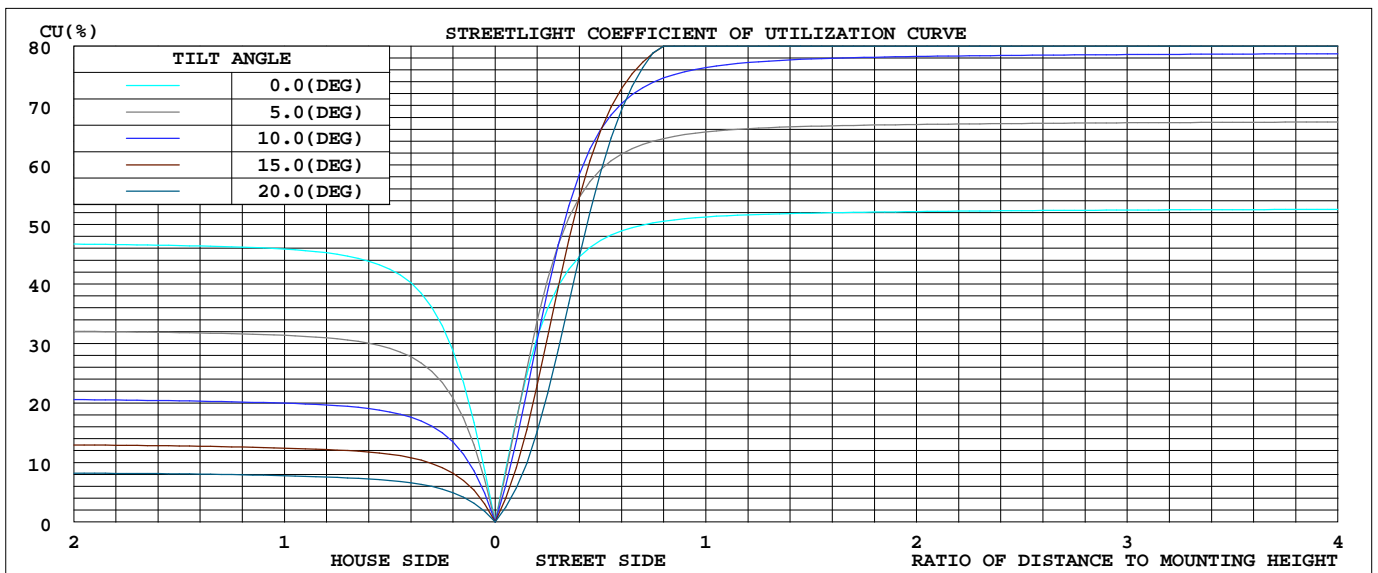
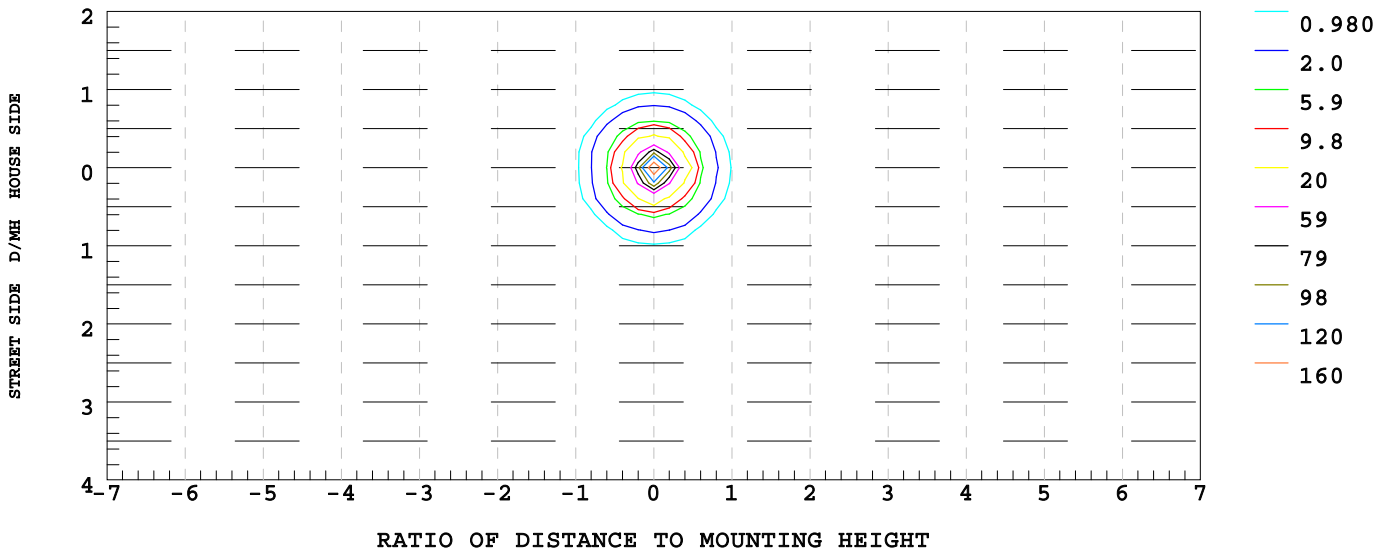
# DIKER GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: BL-D1801848	TYPE:LED Projector Light	WEIGHT:
SPECIFICATION:BL-D180-50W-25D	DIMENSION:	SERIAL No.:

ILLUMINANCE AT MH=10 m,Enadir = 196.47 lx



Test System:HOPPO HPG1600  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年04月27日

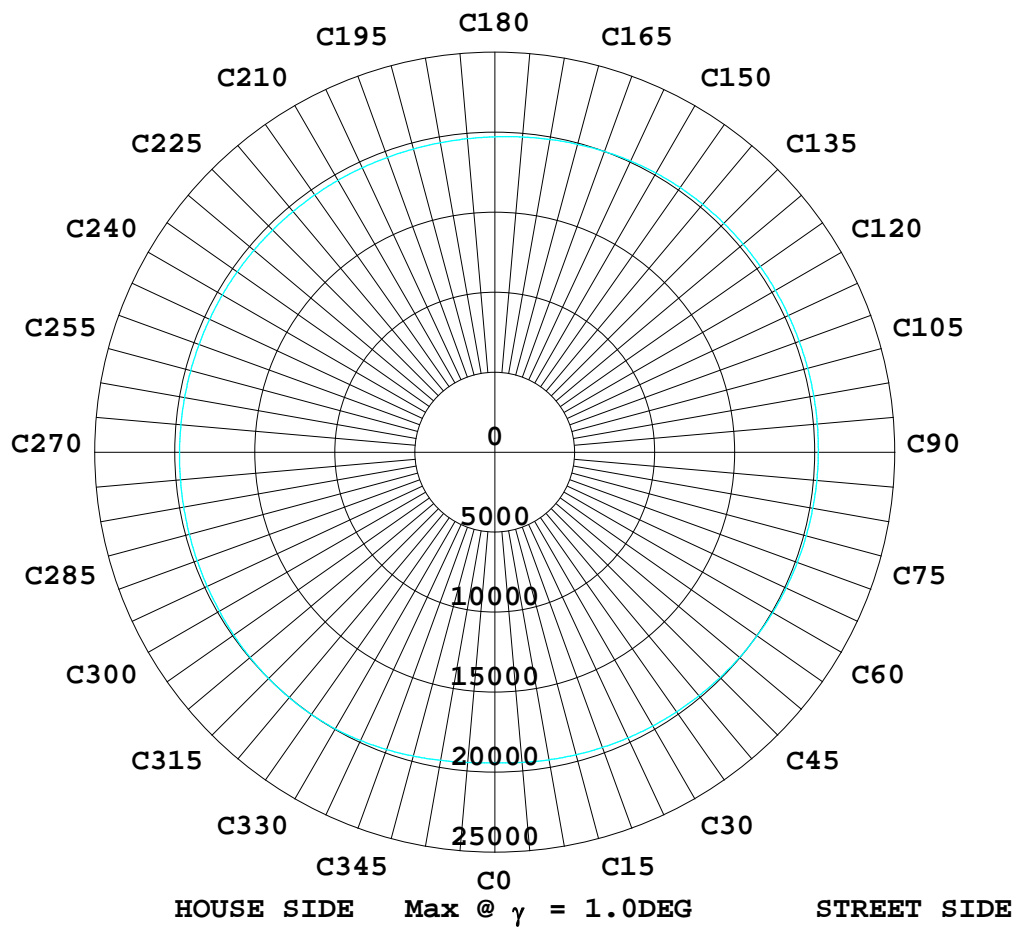
Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:7.060 m  
 Remarks:

DIKER GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: BL-D1801848	TYPE:LED Projector Light	WEIGHT:
SPECIFICATION:BL-D180-50W-25D	DIMENSION:	SERIAL No.:



Test System:HOP00 HPG1600  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年04月27日

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:7.060 m  
 Remarks:

**DIKER GONIOPHOTOMETERS SYSTEM TEST REPORT**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Report number:

<b>MANUFACTURER:</b>	<b>Address:</b>	
<b>NAME: BL-D1801848</b>	<b>TYPE:LED Projector Light</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:BL-D180-50W-25D</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

UNIT: ×10cd

γ (DEG)	C(DEG)											
	0	30	60	90	120	150	180	210	240	270	300	330
0.0	1965	1980	1998	2009	2019	2018	1965	1980	1998	2009	2019	2018
5.0	1666	1773	1840	1879	1853	1814	1803	1722	1686	1661	1696	1731
10.0	1112	1244	1323	1363	1321	1271	1294	1181	1130	1088	1124	1164
15.0	629	725	780	807	772	738	779	696	654	622	644	673
20.0	337	395	429	446	417	394	418	367	373	336	373	351
25.0	172	203	202	233	200	201	204	190	184	175	180	183
30.0	103	115	123	121	120	114	117	111	102	96.8	101	108
35.0	59.7	66.4	67.5	71.2	67.6	65.6	68.6	63.7	56.6	58.2	56.1	63.1
40.0	37.4	38.9	42.2	40.3	43.1	38.6	40.2	37.2	37.0	34.0	36.2	38.0
45.0	20.6	21.9	20.9	24.3	20.7	22.9	25.5	21.1	19.1	20.9	19.8	21.0
50.0	15.0	13.9	14.7	13.4	15.3	14.8	15.7	14.1	11.8	11.9	12.6	14.7
55.0	8.96	8.35	8.49	7.85	8.77	8.61	9.13	8.51	6.92	6.83	7.54	9.06
60.0	6.54	5.97	6.36	5.76	6.47	6.06	6.14	6.38	5.75	6.27	5.97	6.60
65.0	6.13	5.62	5.99	5.51	6.09	5.66	5.74	5.96	5.38	5.87	5.58	6.17
70.0	5.65	5.19	5.53	5.11	5.59	5.20	5.32	5.45	4.93	5.38	5.13	5.67
75.0	4.64	4.30	4.64	4.26	4.68	4.32	4.53	4.56	3.97	4.38	4.16	4.76
80.0	3.20	2.99	3.37	3.03	3.39	3.02	3.22	3.22	2.66	3.01	2.79	3.35
85.0	1.57	1.47	1.86	1.61	1.89	1.53	1.79	1.71	1.28	1.56	1.32	1.74
90.0	0.25	0.07	0.28	0.14	0.31	0.07	0.30	0.25	0.07	0.24	0.06	0.25

Test System:HOPPO HPG1600  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年04月27日

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:7.060 m  
 Remarks: