

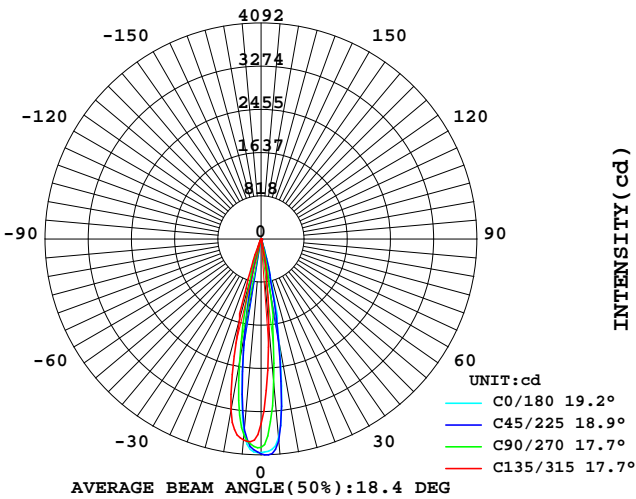
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number: JSM-2018-09-03-001

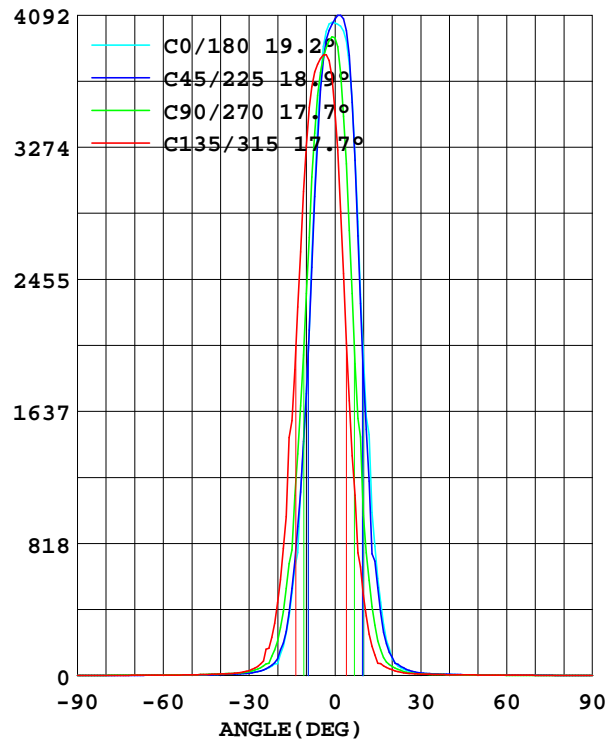
MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL460-A-LED	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

DATA OF LAMP		I _{max} (cd)	4092	S/MH(C0/180)	0.31
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	0.36
NOMINAL POWER(W)	22	TOTAL FLUX(lm)	498.78	Voltage(V)	220.0
RATED VOLTAGE(V)	220.0	EFFICIENCY(lm/W)	22.7	Current(A)	0.105
NOMINAL FLUX(lm)	498.8	η up(%)	0.0	Power(W)	22.00
LAMPS QUANTITY	1	η down(%)	100.0	Power Factor(PF)	1.000
TEST VOLTAGE(V)	220.0	Effective Flux(lm)	430.1	EEI	0.559

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOP00 HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018年09月03日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

Color Temperature Data List

Report number: JSM-2018-09-03-001

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL460-A-LED	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

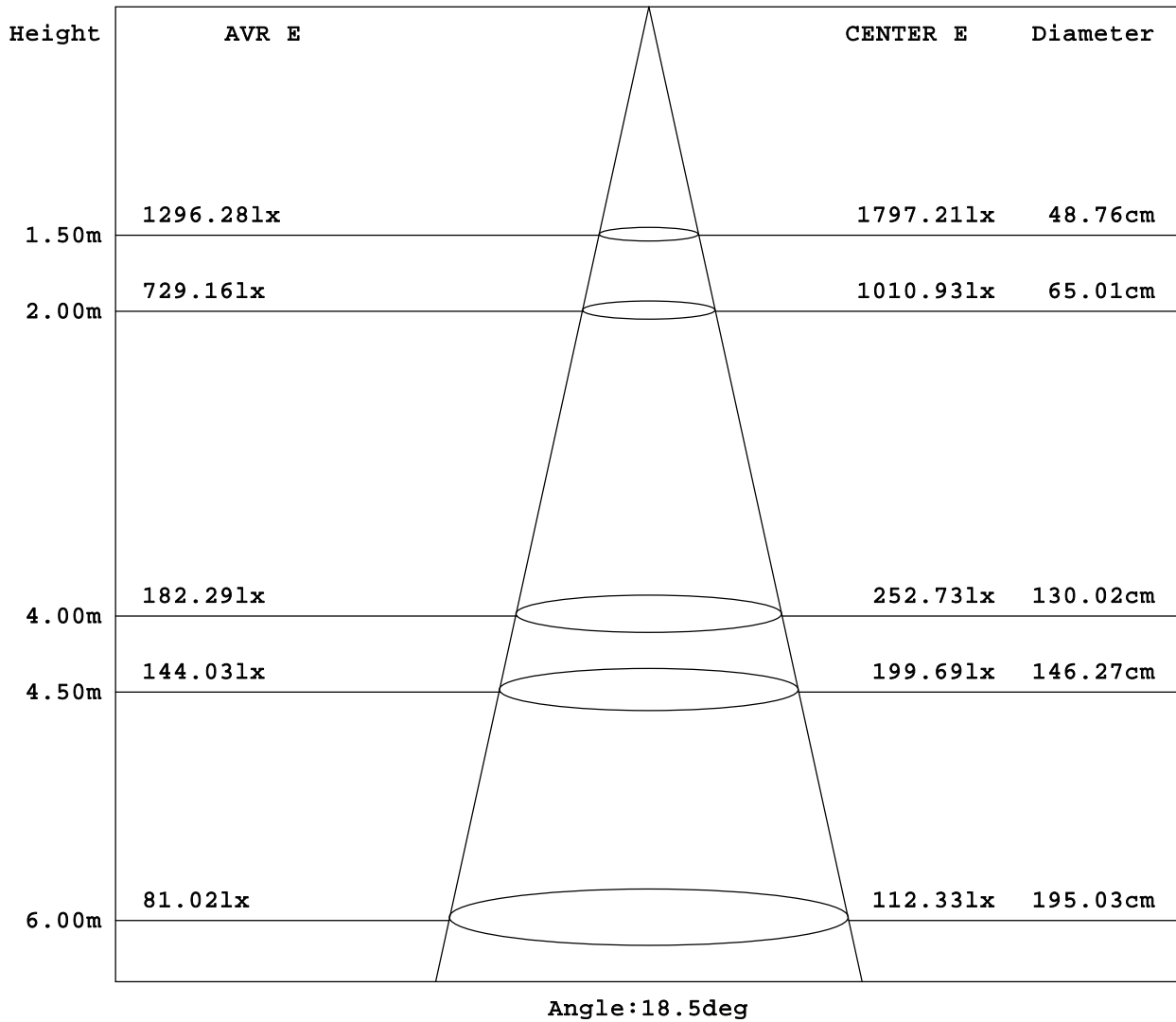
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2018年09月03日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:7.000 m
Remarks:

AVERAGE AND CENTER E Figure

Report number: JSM-2018-09-03-001

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL460-A-LED	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System: HOPOO HPG1800
 Temperature: 25.3DEG
 Operators:
 Test Date: 2018年09月03日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 7.000 m
 Remarks:



ZONAL FLUX DIAGRAM

Report number: JSM-2018-09-03-001

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL460-A-LED	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	3695	3629	3735	3823	3789	3842	2758	1703	0- 5	86.97	86.97
10.0	1764	1747	2366	3283	1985	1864	992.2	497.5	5- 10	182.3	269.3
15.0	511.9	540.5	777.6	1580	601.6	544.6	215.1	76.24	10- 15	131.8	401.1
20.0	74.23	104.7	213.8	451.1	105.0	114.6	55.66	35.77	15- 20	54.10	455.2
25.0	34.05	35.08	60.46	90.89	33.22	38.85	21.02	15.38	20- 25	16.64	471.9
30.0	16.85	14.74	24.30	31.65	15.38	16.75	9.947	9.653	25- 30	6.734	478.6
35.0	10.68	9.849	14.35	14.84	9.849	10.73	6.958	7.497	30- 35	3.905	482.5
40.0	8.183	7.154	10.78	10.14	7.350	8.085	5.292	5.390	35- 40	3.029	485.5
45.0	5.733	4.459	7.644	7.497	4.802	5.537	3.773	4.361	40- 45	2.436	488.0
50.0	4.655	3.626	5.292	4.655	3.675	4.508	3.283	3.871	45- 50	1.909	489.9
55.0	4.165	3.234	4.557	3.724	3.283	3.920	2.744	2.940	50- 55	1.683	491.6
60.0	3.136	2.352	3.626	3.332	2.499	3.038	1.911	2.597	55- 60	1.459	493.0
65.0	2.744	2.058	3.038	2.401	2.254	2.695	1.715	2.303	60- 65	1.261	494.3
70.0	2.401	1.764	2.695	2.107	1.960	2.352	1.470	1.960	65- 70	1.136	495.4
75.0	2.058	1.519	2.303	1.813	1.715	2.058	1.274	1.715	70- 75	1.017	496.4
80.0	1.764	1.225	1.960	1.519	1.470	1.764	1.078	1.470	75- 80	0.885	497.3
85.0	1.470	1.029	1.617	1.225	1.176	1.470	0.882	1.274	80- 85	0.754	498.1
90.0	1.323	0.931	1.323	1.078	1.274	1.274	0.882	1.225	85- 90	0.660	498.7
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	

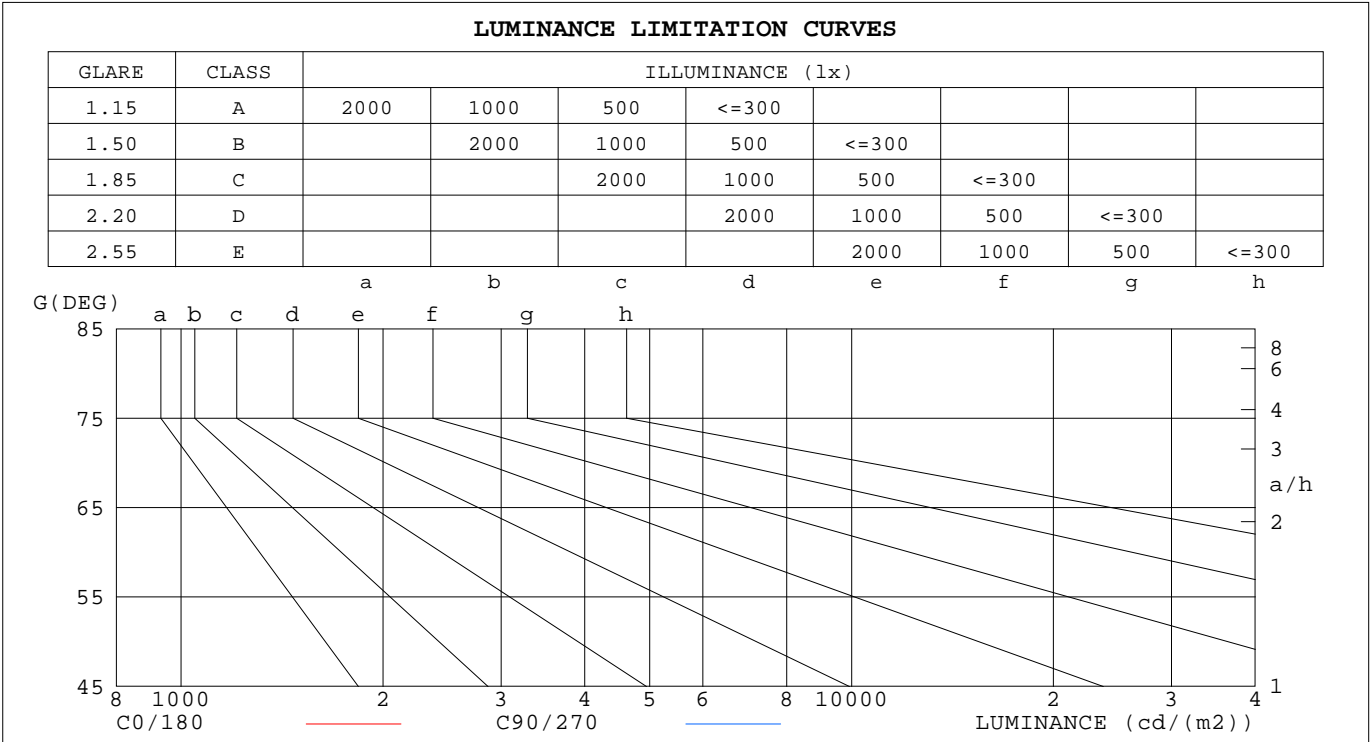
Test System:HOPPO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018年09月03日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINANCE LIMITATION CURVES

Report number: JSM-2018-09-03-001

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL460-A-LED	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



LUMINANCE cd/m2		
G (DEG)	C0/180	C90/270
85	168664	185530
80	101585	112872
75	79515	88981
70	70201	78797
65	64929	71885
60	62720	72520
55	72615	79449
50	72419	82329
45	81077	108102

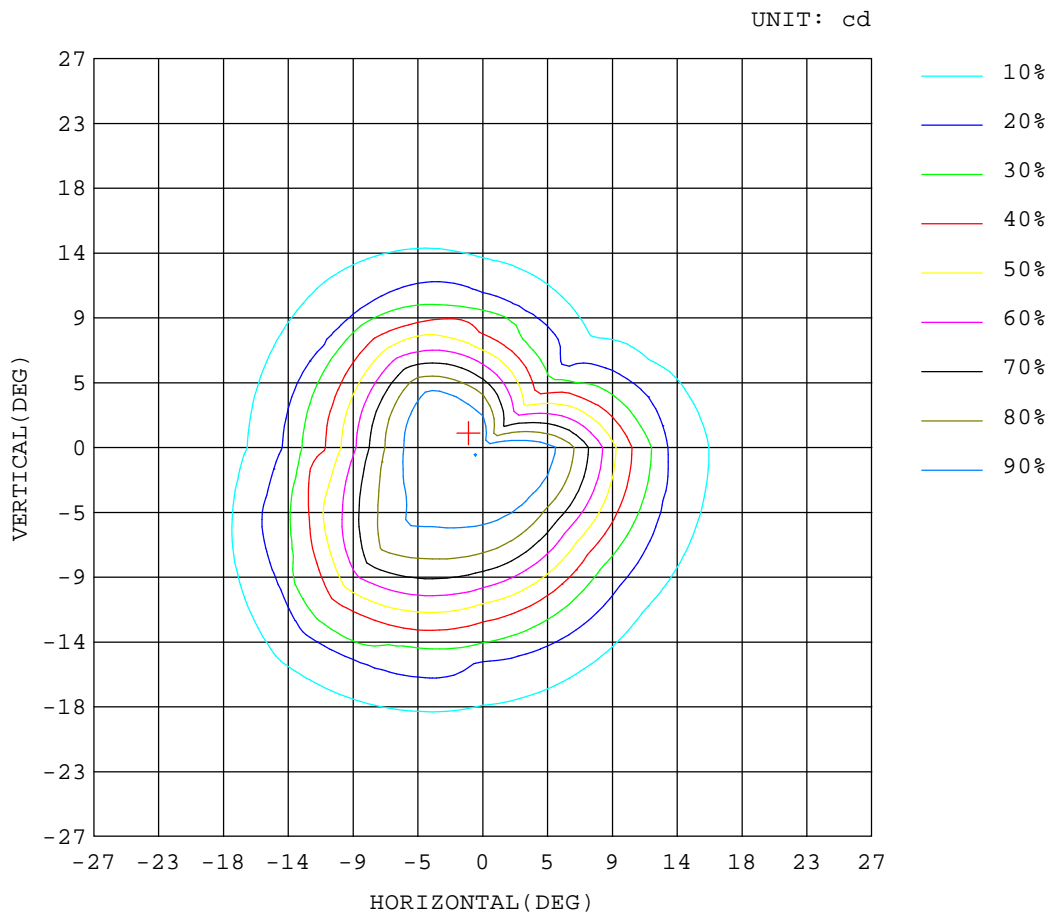
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018年09月03日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number: JSM-2018-09-03-001

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL460-A-LED	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



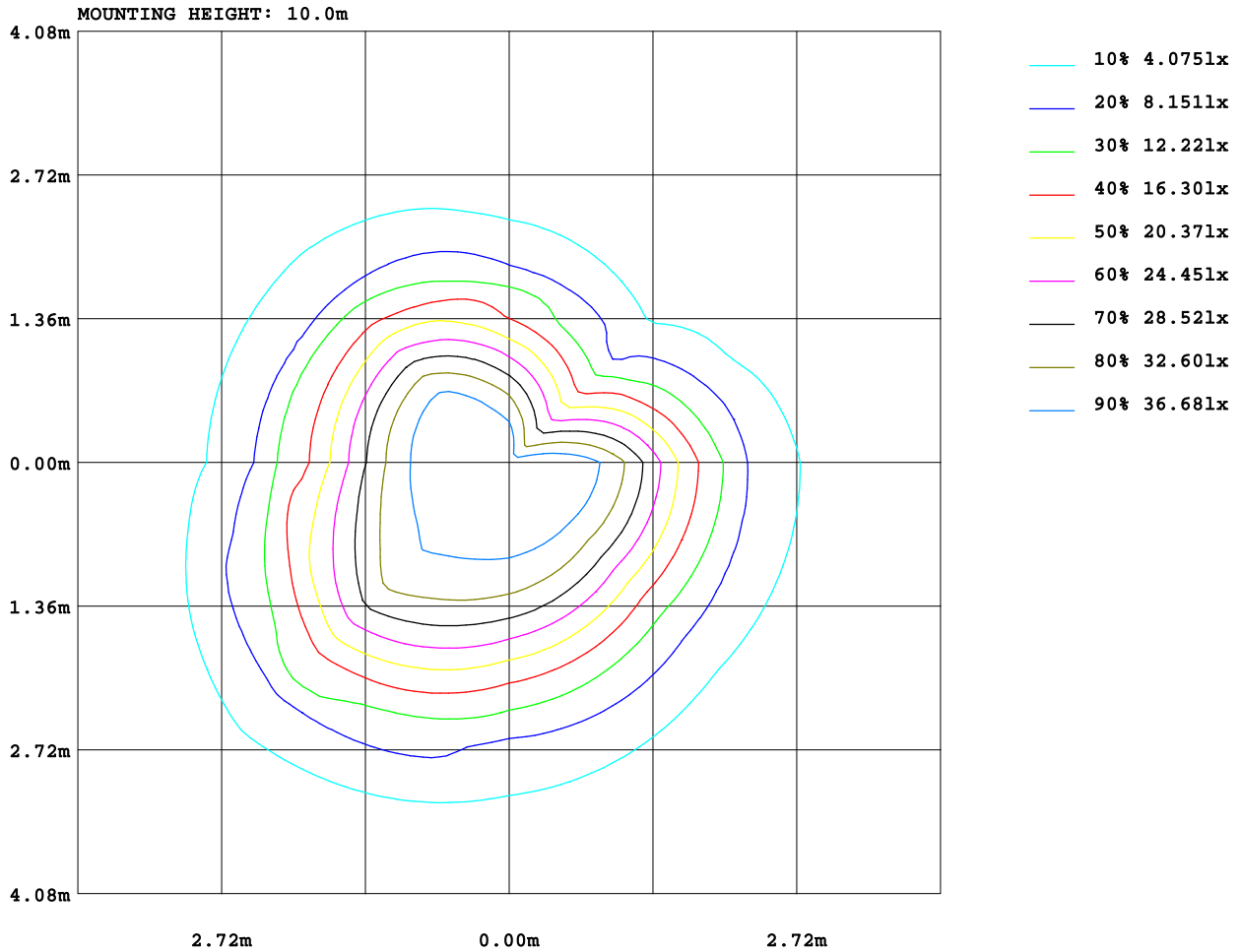
Test System:HOP00 HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018年09月03日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

ISOLUX DIAGRAM

Report number: JSM-2018-09-03-001

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL460-A-LED	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018年09月03日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

AREA LUMINOUS FLUX

Report number: JSM-2018-09-03-001

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL460-A-LED	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

VERTICAL (DEG)	AREA FLUX DIAGRAM																	UNIT:lm	Φ t	Φ a										
	27	24	21	18	15	12	9	0	-9	-12	-15	-18	-21	-24	-27	-27	-24	-21	-18	-15	-12	-9	-6	6	9	12	15	18	21	24
27	0.03	0.03	0.03	0.04	0.05	0.05	0.06	0.06	0.06	0.05	0.05	0.04	0.03	0.03	0.03	0.02	0.02	0.02	0.69	0.00										
24	0.03	0.04	0.05	0.06	0.07	0.09	0.10	0.11	0.10	0.09	0.08	0.07	0.05	0.04	0.03	0.03	0.02	0.02	1.08	0.00										
21	0.03	0.05	0.07	0.09	0.13	0.16	0.19	0.20	0.19	0.17	0.14	0.11	0.08	0.06	0.04	0.03	0.03	0.02	1.77	0.00										
18	0.04	0.06	0.09	0.15	0.21	0.31	0.41	0.47	0.44	0.35	0.26	0.18	0.12	0.08	0.06	0.05	0.04	0.03	3.33	0.00										
15	0.05	0.08	0.13	0.21	0.40	0.69	1.04	1.20	1.15	0.92	0.61	0.33	0.19	0.12	0.09	0.07	0.05	0.04	7.38	2.54										
12	0.06	0.10	0.17	0.35	0.77	1.51	2.21	2.85	2.81	2.20	1.37	0.68	0.31	0.26	0.16	0.10	0.06	0.05	16.0	12.6										
9	0.07	0.12	0.23	0.56	1.35	2.56	4.46	5.74	5.58	4.24	2.52	1.32	0.93	0.58	0.30	0.14	0.09	0.06	30.8	27.7										
0	0.07	0.13	0.30	0.81	1.90	3.94	6.58	9.02	8.88	6.57	3.96	3.22	2.16	1.11	0.52	0.20	0.11	0.07	49.5	47.2										
-9	0.08	0.14	0.35	0.99	2.39	4.78	7.89	10.3	10.9	8.63	7.96	6.16	3.66	1.74	0.76	0.26	0.13	0.08	67.3	65.1										
-12	0.09	0.17	0.45	1.24	2.87	5.46	8.43	10.3	10.5	10.8	10.0	7.34	4.21	1.98	0.84	0.29	0.14	0.08	75.4	73.5										
-15	0.10	0.21	0.55	1.47	3.20	5.94	8.66	10.1	10.3	10.1	8.68	6.08	3.53	1.71	0.71	0.26	0.13	0.07	71.9	69.5										
-18	0.10	0.22	0.54	1.36	3.10	5.51	8.14	9.00	8.98	8.29	6.57	4.32	2.51	1.26	0.52	0.21	0.11	0.07	60.8	58.3										
-21	0.09	0.20	0.44	1.09	2.45	4.39	5.77	6.45	6.32	5.56	4.32	2.83	1.57	0.75	0.34	0.16	0.09	0.06	42.9	40.4										
-24	0.08	0.15	0.34	0.74	1.57	2.61	3.43	3.75	3.63	3.14	2.42	1.58	0.87	0.42	0.21	0.12	0.07	0.05	25.2	22.2										
-27	0.07	0.11	0.22	0.46	0.80	1.24	1.65	1.93	1.82	1.54	1.21	0.80	0.45	0.23	0.14	0.09	0.06	0.04	12.8	8.71										
	0.05	0.08	0.14	0.24	0.39	0.53	0.71	0.80	0.78	0.67	0.52	0.36	0.23	0.14	0.09	0.06	0.04	0.03	5.87	0.00										
	0.04	0.06	0.09	0.13	0.18	0.25	0.30	0.32	0.31	0.27	0.22	0.17	0.13	0.09	0.06	0.04	0.03	0.03	2.74	0.00										
	0.03	0.05	0.06	0.08	0.10	0.12	0.14	0.16	0.16	0.15	0.13	0.10	0.08	0.06	0.04	0.03	0.03	0.02	1.55	0.00										
	Φ t	1.09	1.98	4.24	10.1	21.9	40.1	60.2	73.0	73.0	63.8	51.0	35.7	21.1	10.6	4.92	2.15	1.24	0.82	499										
	Φ a	0.00	0.00	0.00	4.68	18.8	37.4	57.8	70.6	70.6	61.3	48.3	32.7	18.0	7.11	0.50	0.00	0.00	0.00		430									

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018年09月03日

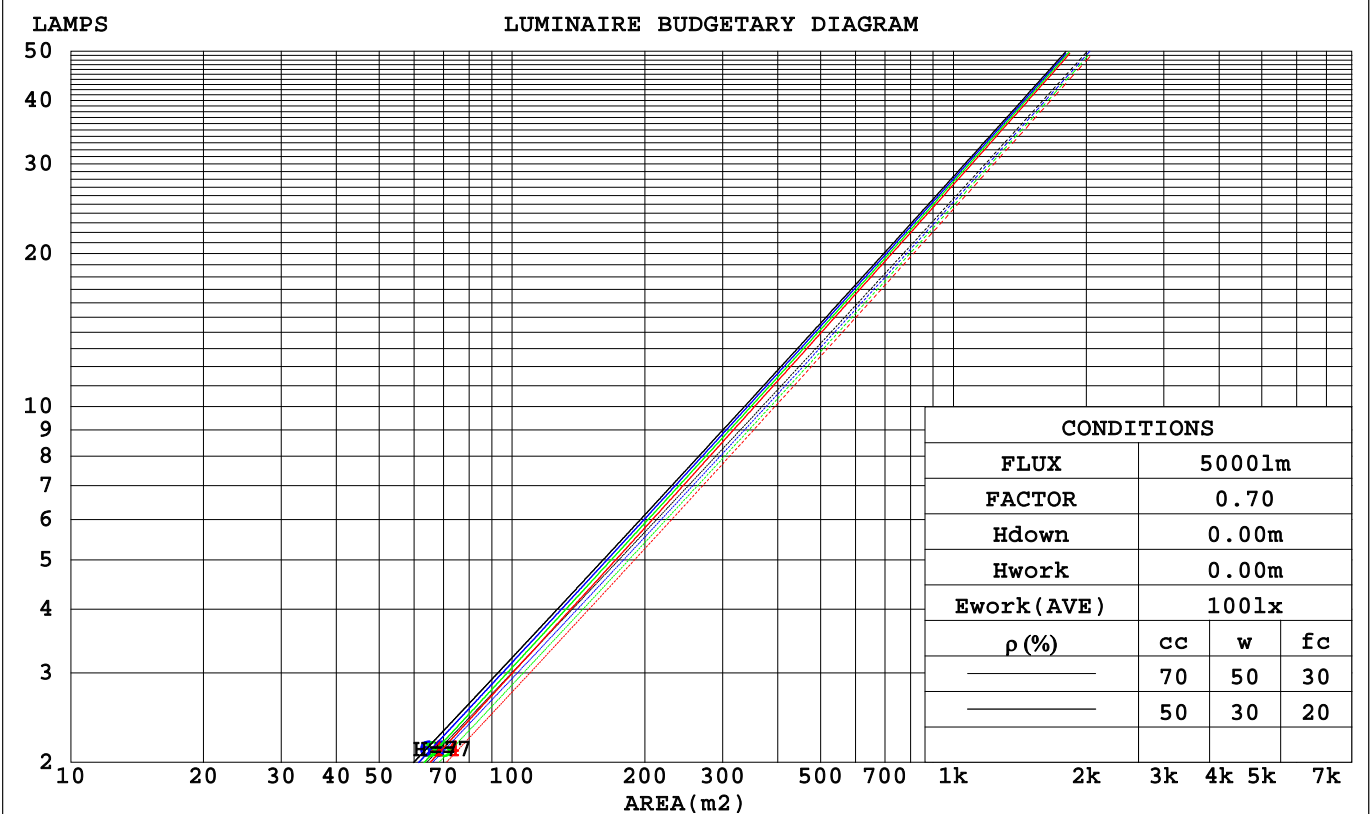
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number: JSM-2018-09-03-001

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL460-A-LED	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	.00
1.0	1.13	1.12	1.10	1.11	1.10	1.08	1.07	1.06	1.05	1.04	1.03	1.02	1.00	.00	.99	.97
2.0	1.09	1.06	1.04	1.07	1.05	1.03	1.04	1.02	1.00	1.01	.00	.98	.99	.97	.96	.95
3.0	1.05	1.02	.99	1.04	1.01	.98	1.01	.99	.97	.99	.97	.95	.97	.95	.94	.93
4.0	1.02	.98	.96	1.01	.98	.95	.99	.96	.94	.97	.95	.93	.95	.93	.92	.91
5.0	.99	.95	.93	.98	.95	.92	.97	.94	.92	.95	.93	.91	.94	.92	.90	.89
6.0	.96	.93	.90	.96	.92	.90	.95	.92	.89	.93	.91	.89	.92	.90	.88	.87
7.0	.94	.91	.88	.94	.90	.88	.93	.90	.88	.92	.89	.87	.91	.89	.87	.86
8.0	.92	.89	.86	.92	.88	.86	.91	.88	.86	.90	.88	.86	.88	.87	.85	.84
9.0	.90	.87	.85	.90	.87	.85	.89	.86	.84	.89	.86	.84	.88	.86	.84	.83
10.0	.89	.85	.83	.88	.85	.83	.88	.85	.83	.87	.85	.83	.87	.84	.83	.82



Test System:HOP00 HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018年09月03日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:



WEC AND CCEC

Report number: JSM-2018-09-03-001

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL460-A-LED	WEIGHT:
SPECIFICATION:	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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.128	.073	.023	.121	.069	.022	.109	.063	.020	.098	.056	.018	.087	.051	.016	
2.0	.116	.063	.019	.110	.061	.019	.100	.056	.017	.091	.051	.016	.082	.047	.015	
3.0	.106	.056	.017	.102	.054	.016	.093	.050	.015	.085	.047	.014	.078	.043	.013	
4.0	.098	.051	.015	.094	.049	.015	.087	.046	.014	.081	.043	.013	.075	.041	.012	
5.0	.091	.046	.013	.088	.045	.013	.082	.043	.013	.076	.040	.012	.071	.038	.011	
6.0	.085	.043	.012	.082	.042	.012	.077	.040	.012	.073	.038	.011	.068	.036	.011	
7.0	.080	.039	.011	.078	.039	.011	.073	.037	.011	.069	.035	.010	.065	.034	.010	
8.0	.075	.037	.010	.073	.036	.010	.070	.035	.010	.066	.034	.010	.063	.032	.009	
9.0	.071	.035	.010	.070	.034	.010	.066	.033	.009	.063	.032	.009	.060	.031	.009	
10.0	.068	.033	.009	.067	.032	.009	.064	.031	.009	.061	.030	.009	.058	.029	.008	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.168	.158	.149	.144	.135	.128	.098	.093	.089	.057	.054	.051	.018	.017	.017	
2.0	.149	.133	.119	.127	.114	.103	.087	.079	.072	.050	.046	.042	.016	.015	.014	
3.0	.133	.113	.097	.114	.098	.085	.078	.068	.059	.045	.040	.035	.015	.013	.011	
4.0	.120	.098	.081	.103	.084	.070	.071	.059	.049	.041	.034	.029	.013	.011	.010	
5.0	.108	.085	.068	.093	.074	.059	.064	.051	.042	.037	.030	.025	.012	.010	.008	
6.0	.099	.075	.058	.085	.065	.050	.059	.045	.036	.034	.027	.021	.011	.009	.007	
7.0	.090	.066	.049	.078	.058	.043	.054	.040	.031	.031	.024	.018	.010	.008	.006	
8.0	.083	.059	.043	.072	.051	.037	.050	.036	.026	.029	.021	.016	.009	.007	.005	
9.0	.077	.053	.037	.067	.046	.033	.046	.033	.023	.027	.019	.014	.009	.006	.005	
10.0	.072	.049	.033	.062	.042	.029	.043	.030	.020	.025	.018	.012	.008	.006	.004	

Test System:HOPPO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018年09月03日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

Uncorrected UGR Table

Report number: JSM-2018-09-03-001

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.										
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA										
NAME:					TYPE: GL460-A-LED			WEIGHT:		
SPECIFICATION:					DIMENSION:			SERIAL No.:		
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
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	16.7	17.3	16.9	17.4	17.6	17.6	18.1	17.8	18.3	18.4
3H	18.5	19.0	18.7	19.2	19.4	19.2	19.8	19.5	19.9	20.1
4H	19.5	20.0	19.8	20.2	20.4	20.2	20.7	20.5	20.9	21.2
6H	20.7	21.2	20.9	21.4	21.6	21.4	21.9	21.6	22.1	22.3
8H	21.3	21.8	21.6	22.0	22.3	22.0	22.5	22.3	22.7	23.0
12H	22.1	22.5	22.4	22.8	23.0	22.8	23.2	23.1	23.5	23.7
4H 2H	17.2	17.7	17.4	17.9	18.1	17.9	18.4	18.1	18.6	18.8
3H	19.2	19.6	19.5	19.9	20.1	19.8	20.2	20.1	20.5	20.8
4H	20.4	20.8	20.7	21.1	21.4	21.0	21.4	21.3	21.7	22.0
6H	21.7	22.1	22.1	22.4	22.8	22.3	22.7	22.7	23.0	23.4
8H	22.5	22.9	22.9	23.2	23.6	23.1	23.5	23.5	23.8	24.2
12H	23.4	23.7	23.8	24.1	24.5	24.0	24.3	24.4	24.7	25.1
8H 4H	20.7	21.1	21.1	21.4	21.8	21.2	21.6	21.6	21.9	22.3
6H	22.3	22.6	22.7	22.9	23.4	22.8	23.1	23.2	23.5	23.9
8H	23.2	23.5	23.6	23.9	24.3	23.7	24.0	24.2	24.4	24.8
12H	24.3	24.5	24.8	25.0	25.5	24.9	25.1	25.3	25.5	26.0
12H 4H	20.8	21.1	21.2	21.5	21.9	21.3	21.6	21.7	22.0	22.4
6H	22.4	22.7	22.8	23.1	23.5	22.9	23.2	23.3	23.6	24.0
8H	23.4	23.6	23.9	24.1	24.5	23.9	24.1	24.4	24.6	25.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.1 / - 0.2					+ 0.3 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.4 / - 0.4				

CIE Pub.117 Corrected 498.7 lm Total Lamp Luminous Flux. (8log(F/F0) = -2.4)

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018年09月03日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

UTILIZATION FACTORS TABLE

Report number: JSM-2018-09-03-001

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL460-A-LED	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

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
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	90	84	81	89	84	80	89	84	80	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	92	100	95	92	98	95	91	88
1.25	104	100	96	103	99	96	102	98	95	91
1.50	107	103	99	106	102	99	104	100	98	94
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	104	102	96
3.00	112	109	106	110	108	105	107	105	103	97
4.00	114	112	109	112	110	108	109	107	105	98
5.00	115	113	112	113	111	110	109	108	107	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

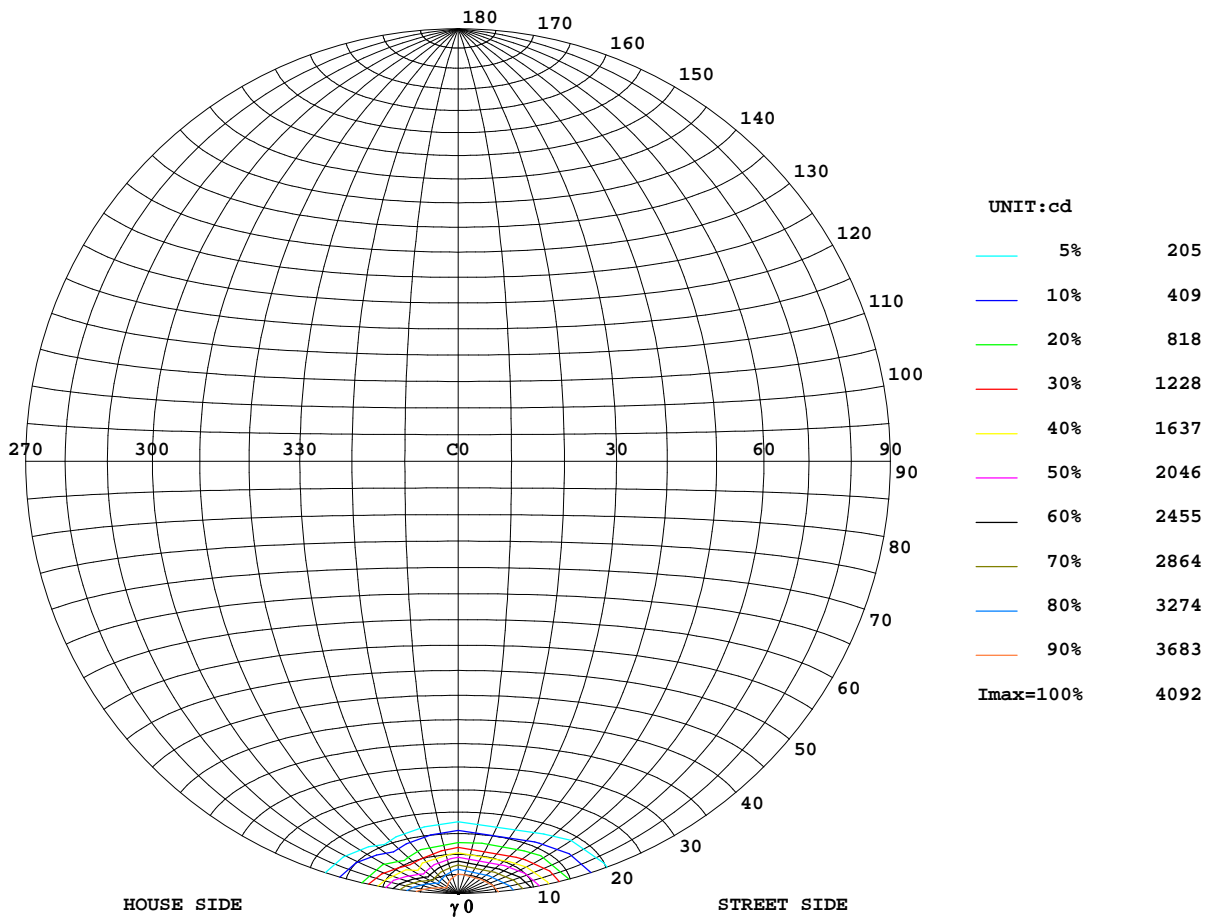
Test System:HOP00 HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018年09月03日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number: JSM-2018-09-03-001

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL460-A-LED	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOP00 HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018年09月03日

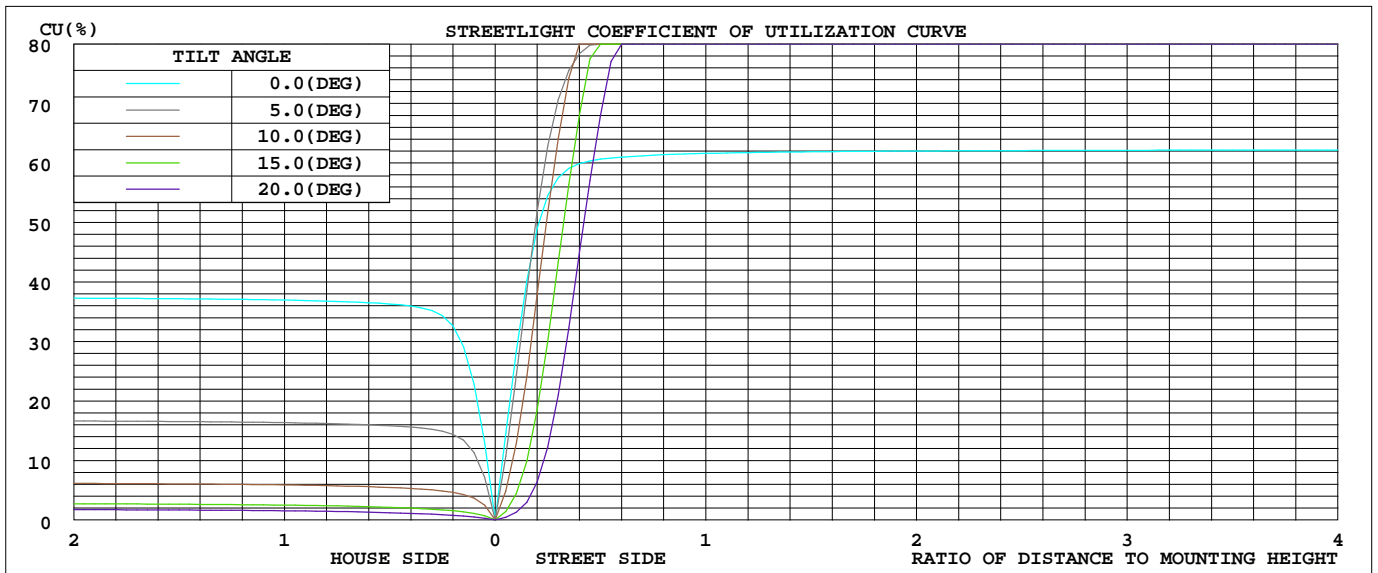
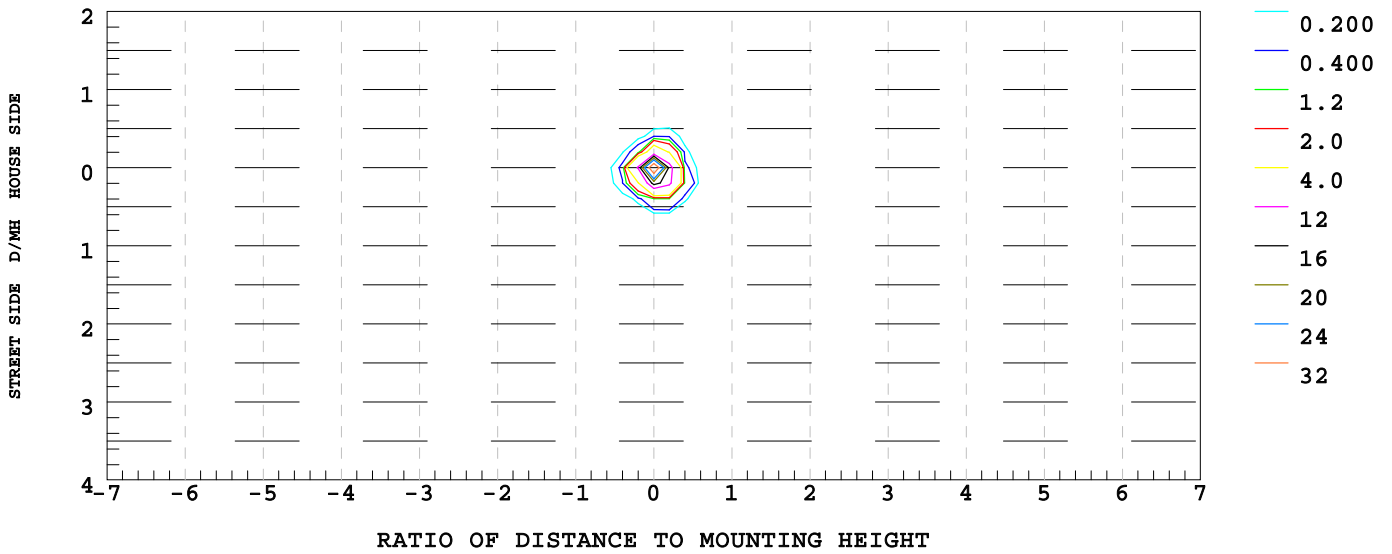
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

ISOLUX DIAGRAM

Report number: JSM-2018-09-03-001

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL460-A-LED	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 40.44 lx



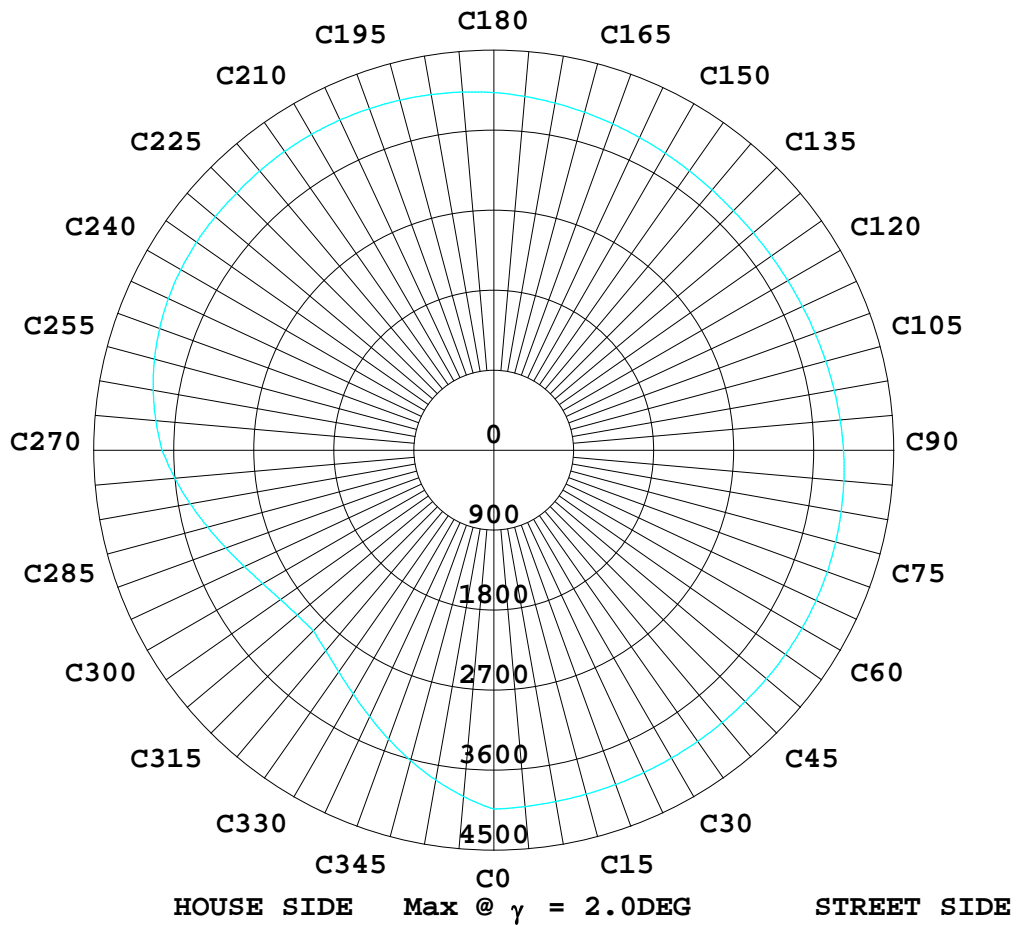
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018年09月03日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number: JSM-2018-09-03-001

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL460-A-LED	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOP00 HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018年09月03日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: JSM-2018-09-03-001

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL460-A-LED	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

UNIT: cd

γ (DEG)	C (DEG)							
	0	45	90	135	180	225	270	315
0.0	4044	4068	3951	3502	4044	4068	3951	3502
5.0	3695	3629	3735	3823	3789	3842	2758	1703
10.0	1764	1747	2366	3283	1985	1864	992	498
15.0	512	541	778	1580	602	545	215	76.2
20.0	74.2	105	214	451	105	115	55.6	35.7
25.0	34.0	35.0	60.4	90.8	33.2	38.8	21.0	15.3
30.0	16.8	14.7	24.3	31.6	15.3	16.7	9.94	9.65
35.0	10.6	9.84	14.3	14.8	9.84	10.7	6.95	7.49
40.0	8.18	7.15	10.7	10.1	7.35	8.08	5.29	5.39
45.0	5.73	4.45	7.64	7.49	4.80	5.53	3.77	4.36
50.0	4.65	3.62	5.29	4.65	3.67	4.50	3.28	3.87
55.0	4.16	3.23	4.55	3.72	3.28	3.92	2.74	2.94
60.0	3.13	2.35	3.62	3.33	2.49	3.03	1.91	2.59
65.0	2.74	2.05	3.03	2.40	2.25	2.69	1.71	2.30
70.0	2.40	1.76	2.69	2.10	1.96	2.35	1.47	1.96
75.0	2.05	1.51	2.30	1.81	1.71	2.05	1.27	1.71
80.0	1.76	1.22	1.96	1.51	1.47	1.76	1.07	1.47
85.0	1.47	1.02	1.61	1.22	1.17	1.47	0.88	1.27
90.0	1.32	0.93	1.32	1.07	1.27	1.27	0.88	1.22

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018年09月03日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks: