

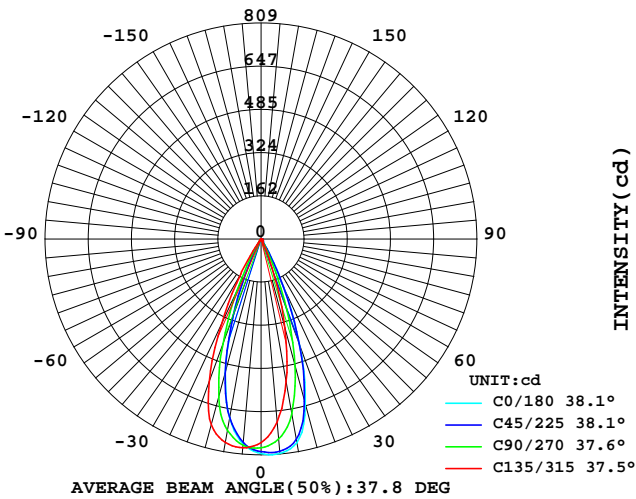
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number: JSM-2018-09-03-005

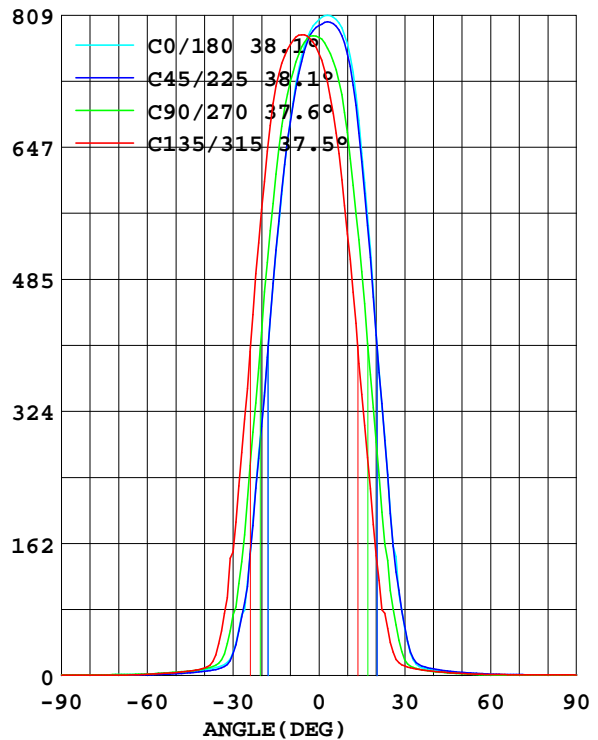
MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL463-A-LED	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	809.0	S/MH(C0/180)	0.56
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	0.63
NOMINAL POWER(W)	10	TOTAL FLUX(lm)	322.21	Voltage(V)	220.0
RATED VOLTAGE(V)	220.0	EFFICIENCY(lm/W)	15.4	Current(A)	0.095
NOMINAL FLUX(lm)	322.2	η up(%)	0.0	Power(W)	20.90
LAMPS QUANTITY	1	η down(%)	100.0	Power Factor(PF)	0.490
TEST VOLTAGE(V)	220.0	Effective Flux(lm)	297.2	EEI	0.703

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-2018-09-03-005

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL463-A-LED	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

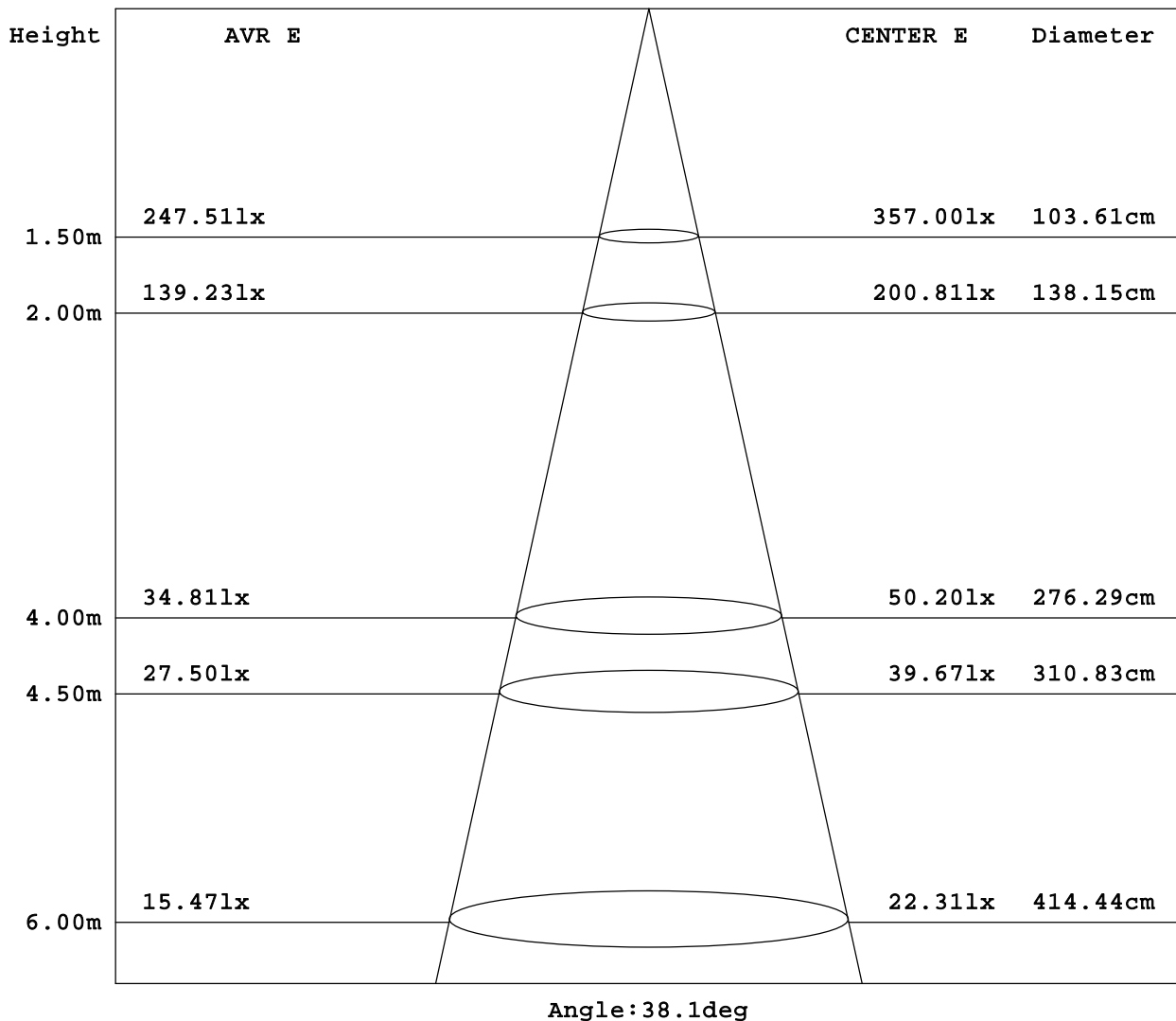
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2018年09月03日

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-2018-09-03-005

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL463-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-2018-09-03-005

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL463-A-LED	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	771.1	766.2	776.0	784.7	806.6	798.7	752.3	688.5	0- 5	18.59	18.59
10.0	680.9	678.2	727.8	773.1	774.3	761.4	665.4	541.1	5- 10	52.59	71.18
15.0	519.9	521.3	614.4	722.0	639.9	629.5	494.6	344.3	10- 15	75.06	146.2
20.0	306.0	305.1	420.4	570.6	417.5	417.0	286.2	147.0	15- 20	75.58	221.8
25.0	114.9	109.1	216.2	351.5	202.3	198.5	103.9	40.71	20- 25	54.15	275.9
30.0	28.32	27.09	74.18	151.6	58.50	60.56	19.50	11.80	25- 30	25.90	301.8
35.0	10.82	8.428	15.09	39.05	11.17	13.42	7.791	7.497	30- 35	8.613	310.5
40.0	7.154	5.145	8.428	9.163	6.566	8.281	5.047	5.243	35- 40	3.140	313.6
45.0	5.194	3.528	5.733	5.733	4.508	5.782	3.381	3.773	40- 45	2.105	315.7
50.0	3.724	2.352	4.165	3.822	3.136	4.018	2.254	2.646	45- 50	1.589	317.3
55.0	2.597	1.519	3.038	2.597	2.058	2.793	1.372	1.862	50- 55	1.181	318.5
60.0	1.862	0.931	2.058	1.617	1.225	1.960	0.833	1.421	55- 60	0.841	319.3
65.0	1.421	0.686	1.519	0.882	0.882	1.470	0.588	1.225	60- 65	0.613	319.9
70.0	1.274	0.588	1.225	0.637	0.784	1.225	0.539	1.078	65- 70	0.504	320.4
75.0	1.176	0.588	1.127	0.539	0.735	1.127	0.490	1.029	70- 75	0.461	320.9
80.0	1.078	0.539	1.029	0.539	0.735	1.029	0.490	0.931	75- 80	0.436	321.3
85.0	0.980	0.539	0.931	0.490	0.784	0.931	0.490	0.882	80- 85	0.420	321.8
90.0	0.931	0.588	0.882	0.539	0.931	0.882	0.539	0.784	85- 90	0.409	322.2
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	

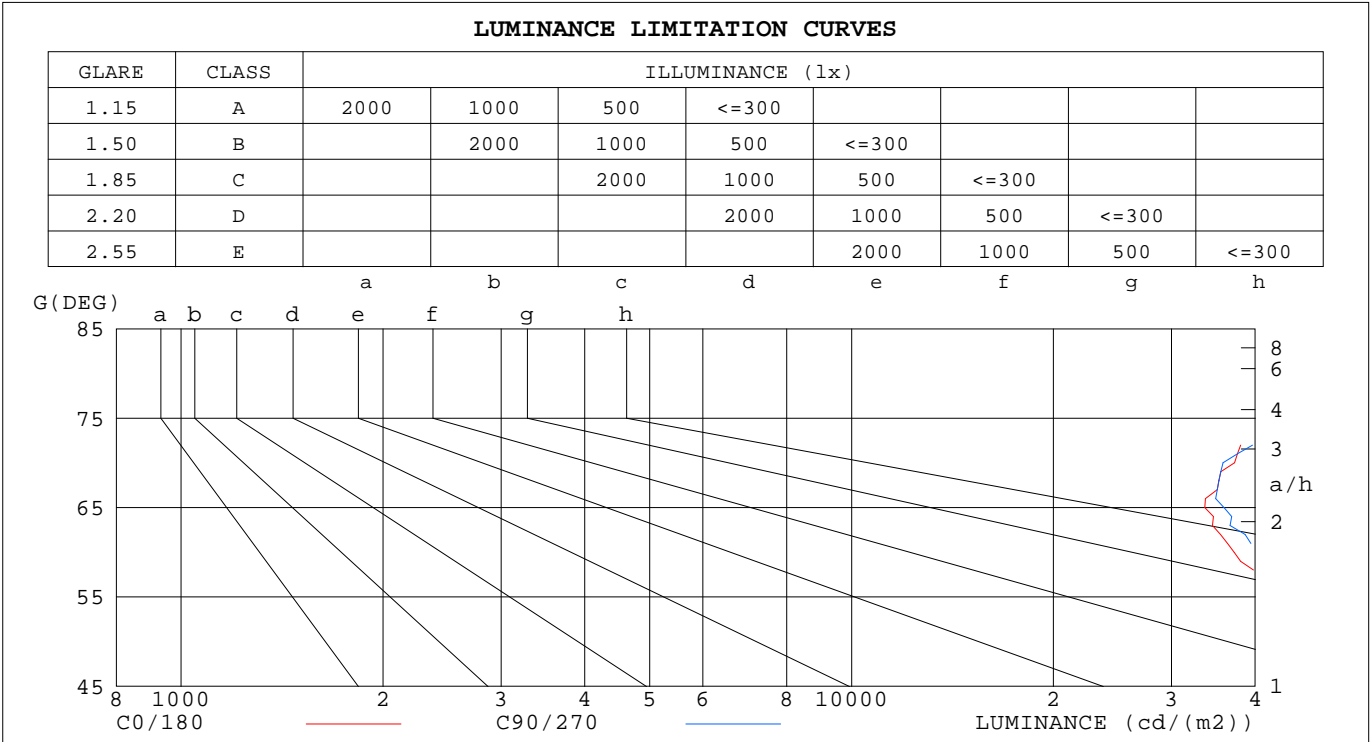
Test System:HOPPO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018年09月03日

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

LUMINANCE LIMITATION CURVES

Report number: JSM-2018-09-03-005

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL463-A-LED	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



LUMINANCE cd/m2		
G (DEG)	C0/180	C90/270
85	112442	106820
80	62080	59258
75	45437	43544
70	37249	35817
65	33624	35943
60	37240	41160
55	45277	52966
50	57935	64796
45	73454	81077

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

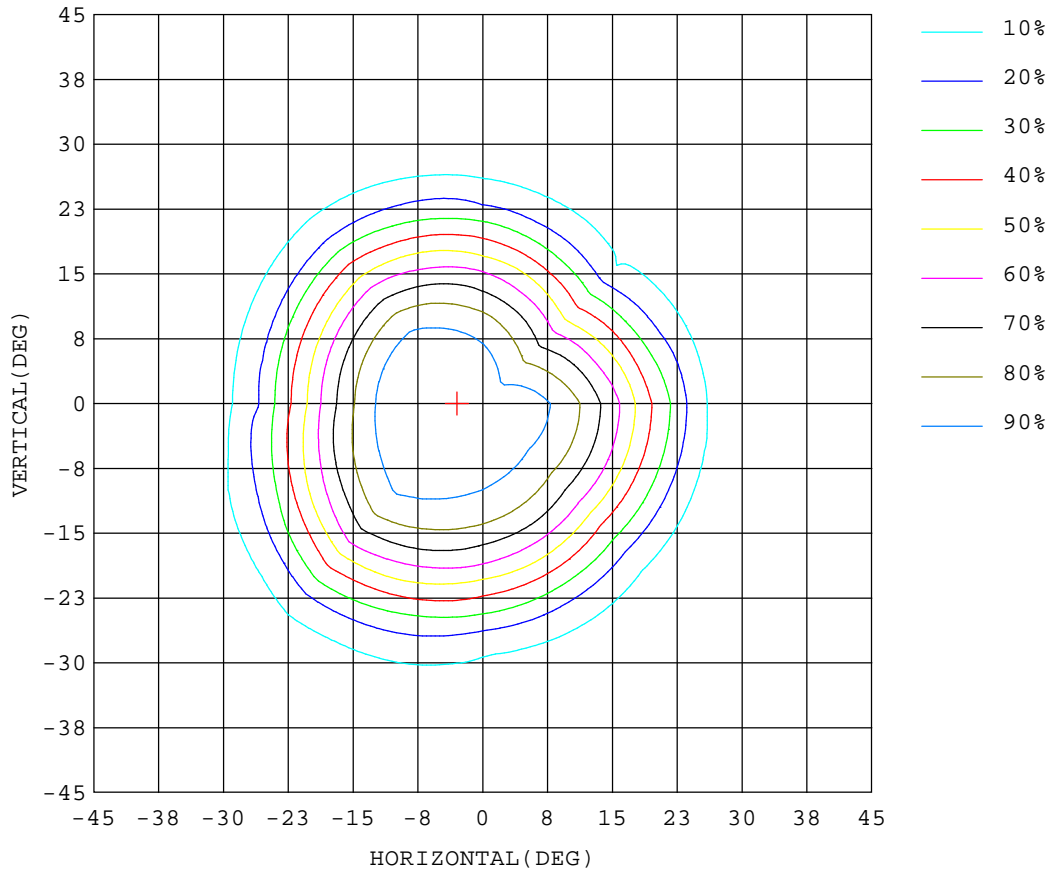
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 7.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number: JSM-2018-09-03-005

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL463-A-LED	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

UNIT: cd



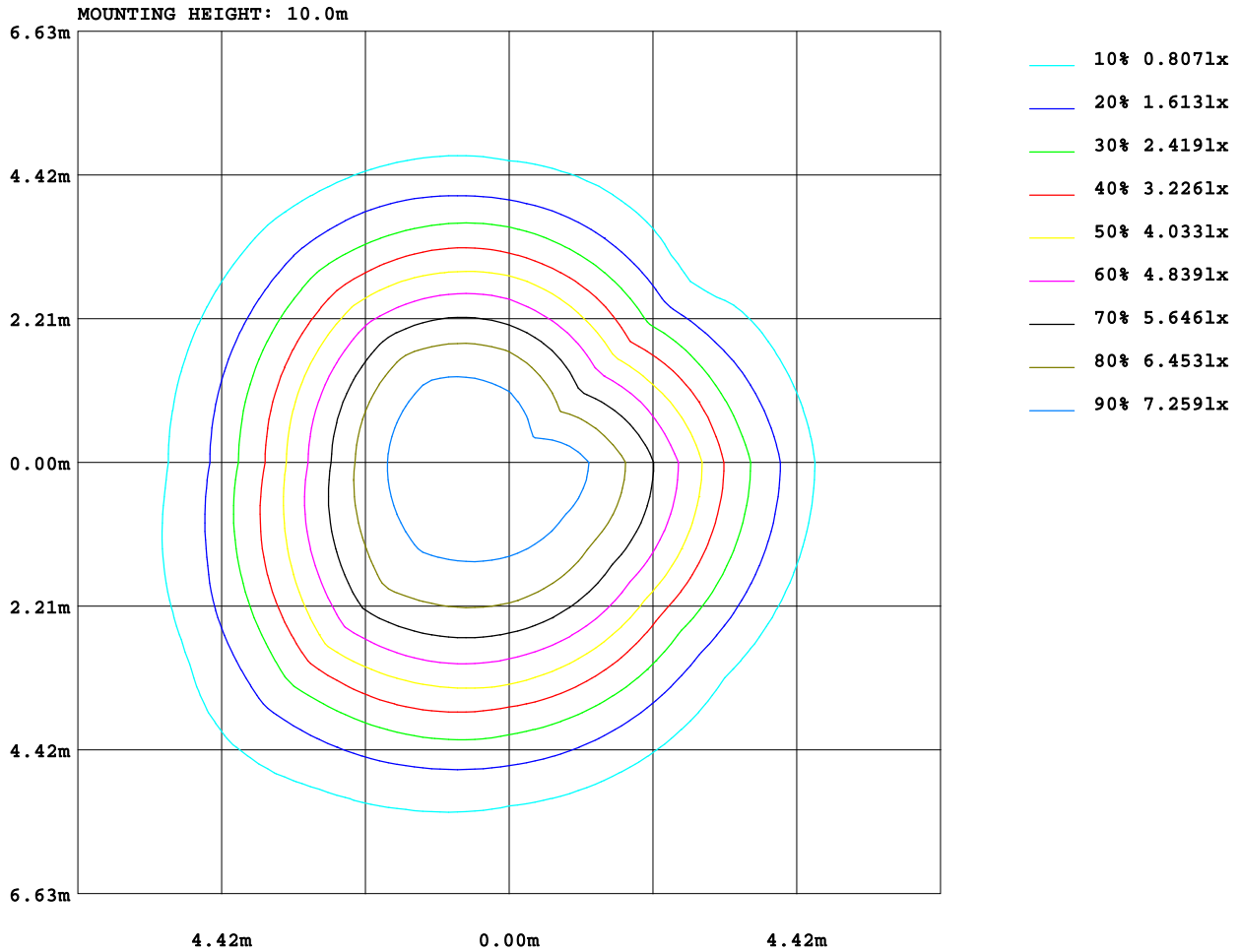
Test System:HOP00 HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018年09月03日

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

ISOLUX DIAGRAM

Report number: JSM-2018-09-03-005

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL463-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:



AREA LUMINOUS FLUX

Report number: JSM-2018-09-03-005

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL463-A-LED	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.01	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.44	0.00
45	0.01	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.44	0.00
40	0.02	0.02	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.03	0.02	0.02	0.02	0.01	0.62	0.00
35	0.02	0.03	0.04	0.05	0.06	0.07	0.09	0.10	0.10	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.02	0.96	0.00
30	0.02	0.03	0.05	0.07	0.10	0.19	0.34	0.45	0.46	0.38	0.24	0.13	0.07	0.05	0.04	0.03	0.03	0.02	2.70	0.43
25	0.03	0.04	0.06	0.10	0.28	0.68	1.12	1.46	1.51	1.27	0.84	0.42	0.15	0.08	0.06	0.04	0.03	0.02	8.19	6.76
20	0.03	0.04	0.07	0.21	0.71	1.58	2.46	2.99	3.08	2.69	1.90	0.98	0.40	0.17	0.08	0.05	0.04	0.03	17.5	16.3
15	0.03	0.05	0.09	0.42	1.28	2.58	3.84	4.52	4.59	4.08	3.06	1.88	1.03	0.44	0.15	0.06	0.04	0.03	28.2	27.2
	0.03	0.05	0.14	0.66	1.82	3.37	4.79	5.58	5.60	5.05	4.03	3.09	1.94	0.88	0.27	0.08	0.05	0.03	37.4	36.5
	0.03	0.05	0.17	0.80	2.13	3.82	5.25	5.93	6.03	5.58	5.08	4.12	2.71	1.31	0.39	0.10	0.05	0.03	43.6	42.8
	0.03	0.05	0.21	0.90	2.27	3.98	5.35	5.93	5.98	5.91	5.43	4.42	2.92	1.42	0.42	0.10	0.05	0.03	45.4	44.5
	0.03	0.06	0.22	0.91	2.24	3.88	5.20	5.76	5.79	5.59	5.00	3.95	2.52	1.15	0.34	0.09	0.05	0.03	42.8	41.9
-15	0.03	0.05	0.18	0.76	1.92	3.44	4.74	5.23	5.25	4.96	4.22	3.04	1.81	0.73	0.21	0.07	0.04	0.03	36.7	35.8
-20	0.03	0.04	0.12	0.51	1.40	2.64	3.58	4.04	4.09	3.75	3.02	2.01	0.98	0.37	0.11	0.05	0.04	0.02	26.8	25.8
-25	0.02	0.04	0.07	0.25	0.81	1.52	2.11	2.48	2.51	2.23	1.68	0.99	0.43	0.14	0.06	0.04	0.03	0.02	15.4	14.3
-30	0.02	0.03	0.05	0.10	0.29	0.61	0.92	1.09	1.07	0.91	0.65	0.36	0.15	0.07	0.04	0.03	0.02	0.02	6.41	4.66
-35	0.02	0.03	0.04	0.05	0.08	0.15	0.25	0.32	0.31	0.25	0.18	0.11	0.07	0.04	0.03	0.02	0.02	0.01	1.98	0.00
-40	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.09	0.09	0.08	0.07	0.06	0.04	0.03	0.02	0.02	0.01	0.01	0.81	0.00
-45	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.03	0.03	0.02	0.01	0.01	0.01	0.55	0.00
	-45	-40	-35	-30	-25	-20	-15	-10	HORIZONTAL (DEG)	10	15	20	25	30	35	40	45			
Φ t	0.42	0.67	1.59	5.90	15.5	28.7	40.2	46.1	46.6	42.9	35.6	25.7	15.3	7.01	2.32	0.87	0.55	0.39	322	
Φ a	0.00	0.00	0.00	3.87	14.3	27.7	39.3	45.2	45.7	42.0	34.6	24.6	14.0	5.50	0.23	0.00	0.00	0.00		297

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

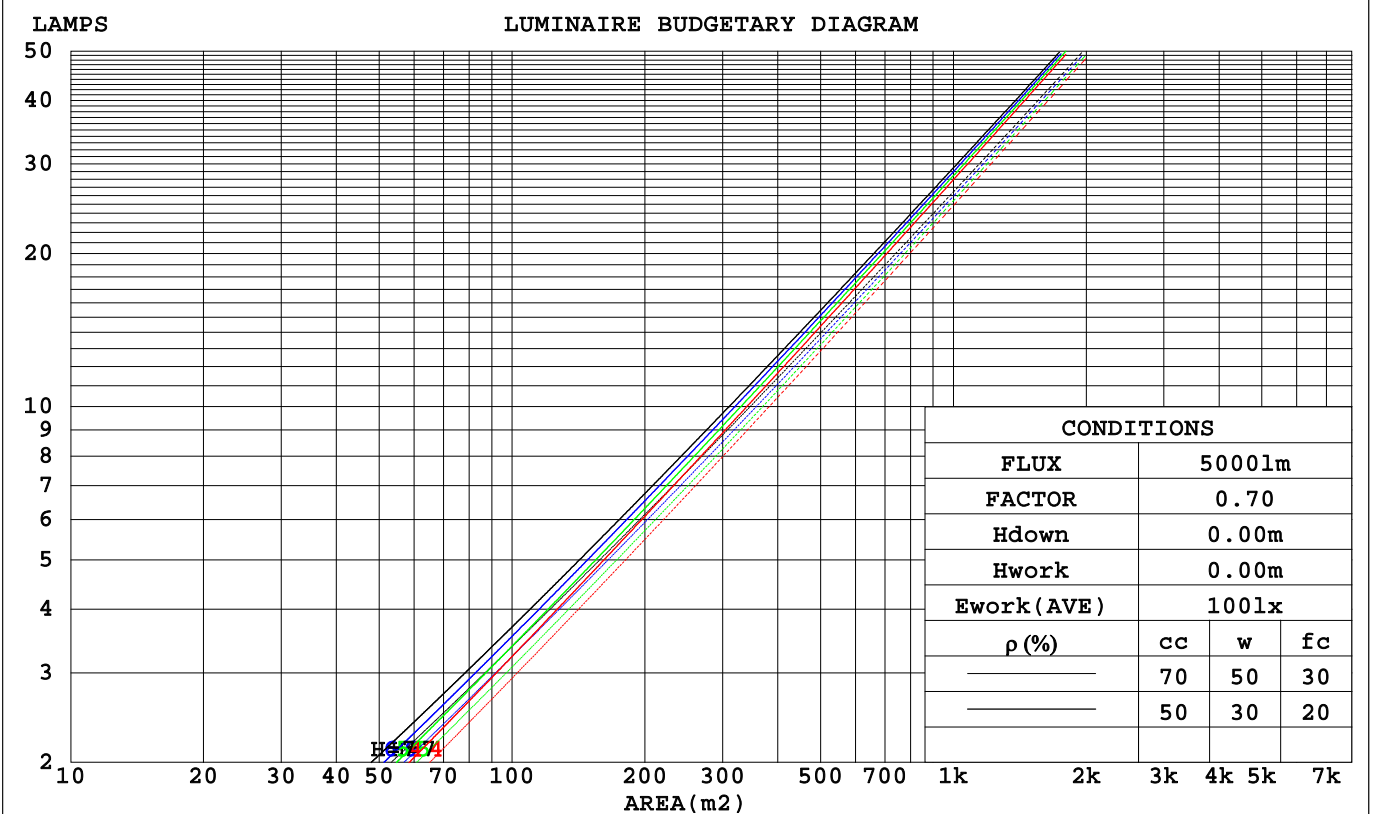
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number: JSM-2018-09-03-005

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL463-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	1.00
1.0	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97	.95
2.0	1.06	1.03	.00	1.04	1.01	.99	1.01	.99	.97	.98	.96	.95	.96	.94	.93	.91
3.0	1.01	.97	.93	.99	.96	.93	.97	.94	.91	.95	.92	.90	.92	.90	.89	.87
4.0	.96	.92	.88	.95	.91	.88	.93	.89	.87	.91	.88	.86	.89	.87	.85	.83
5.0	.92	.87	.84	.91	.87	.83	.89	.86	.83	.88	.85	.82	.86	.84	.81	.80
6.0	.88	.83	.80	.87	.83	.80	.86	.82	.79	.85	.81	.79	.83	.80	.78	.77
7.0	.84	.80	.76	.84	.79	.76	.83	.79	.76	.82	.78	.75	.81	.77	.75	.74
8.0	.81	.76	.73	.81	.76	.73	.80	.76	.73	.79	.75	.73	.78	.75	.72	.71
9.0	.78	.74	.70	.78	.73	.70	.77	.73	.70	.76	.72	.70	.75	.72	.70	.69
10.0	.75	.71	.68	.75	.71	.68	.74	.70	.68	.74	.70	.67	.73	.70	.67	.66



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:

WEC AND CCEC

Report number: JSM-2018-09-03-005

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Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL463-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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.153	.087	.028	.146	.083	.027	.134	.077	.025	.122	.071	.023	.112	.065	.021	
2.0	.142	.078	.024	.137	.075	.023	.126	.070	.022	.117	.065	.020	.108	.061	.019	
3.0	.133	.071	.021	.128	.069	.021	.120	.065	.020	.112	.061	.019	.104	.058	.018	
4.0	.125	.065	.019	.121	.063	.019	.114	.060	.018	.107	.057	.017	.100	.055	.017	
5.0	.118	.060	.017	.115	.059	.017	.108	.056	.017	.103	.054	.016	.097	.052	.016	
6.0	.112	.056	.016	.109	.055	.016	.104	.053	.015	.099	.051	.015	.094	.049	.015	
7.0	.107	.053	.015	.104	.052	.015	.100	.050	.014	.095	.049	.014	.091	.047	.014	
8.0	.102	.050	.014	.100	.049	.014	.096	.048	.014	.092	.046	.013	.088	.045	.013	
9.0	.098	.047	.013	.096	.047	.013	.092	.046	.013	.089	.044	.013	.085	.043	.013	
10.0	.094	.045	.013	.092	.045	.012	.089	.044	.012	.086	.043	.012	.083	.042	.012	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.169	.158	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.116	.130	.114	.100	.089	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.138	.113	.094	.118	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.126	.098	.077	.108	.085	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.116	.086	.064	.100	.075	.056	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.108	.076	.054	.093	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.006	
7.0	.101	.068	.046	.087	.059	.040	.060	.042	.028	.035	.024	.017	.011	.008	.006	
8.0	.094	.062	.039	.081	.054	.034	.056	.038	.024	.033	.022	.015	.011	.007	.005	
9.0	.089	.056	.034	.077	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.084	.052	.030	.073	.045	.026	.050	.032	.019	.029	.019	.011	.010	.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-2018-09-03-005

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.										
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA										
NAME:					TYPE: GL463-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	15.7	16.5	15.9	16.6	16.8	17.4	18.1	17.6	18.3	18.4
3H	16.6	17.3	16.8	17.5	17.7	17.9	18.6	18.2	18.8	19.0
4H	17.4	18.0	17.6	18.2	18.4	18.4	19.1	18.7	19.3	19.5
6H	18.4	19.0	18.7	19.3	19.5	19.2	19.8	19.5	20.1	20.3
8H	19.1	19.7	19.4	20.0	20.2	19.7	20.3	20.0	20.6	20.8
12H	20.1	20.6	20.4	20.9	21.2	20.4	21.0	20.8	21.3	21.5
4H 2H	15.7	16.4	16.0	16.6	16.8	17.3	18.0	17.6	18.2	18.4
3H	16.8	17.4	17.1	17.6	17.9	18.0	18.5	18.3	18.8	19.1
4H	17.8	18.3	18.1	18.6	18.9	18.7	19.2	19.0	19.5	19.8
6H	19.1	19.6	19.5	19.9	20.3	19.7	20.2	20.1	20.5	20.9
8H	20.0	20.5	20.4	20.8	21.2	20.4	20.9	20.8	21.2	21.6
12H	21.2	21.6	21.6	22.0	22.3	21.4	21.8	21.8	22.2	22.5
8H 4H	17.9	18.3	18.3	18.7	19.0	18.7	19.2	19.1	19.5	19.9
6H	19.5	19.9	19.9	20.3	20.7	20.0	20.4	20.4	20.8	21.2
8H	20.6	20.9	21.0	21.3	21.8	20.9	21.2	21.4	21.6	22.1
12H	22.0	22.3	22.5	22.8	23.2	22.1	22.4	22.6	22.9	23.3
12H 4H	17.9	18.3	18.4	18.7	19.1	18.8	19.2	19.2	19.5	19.9
6H	19.6	19.9	20.0	20.3	20.8	20.1	20.4	20.5	20.8	21.2
8H	20.8	21.0	21.2	21.5	21.9	21.0	21.3	21.5	21.8	22.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.3					+ 0.7 / - 0.4				
1.5H	+ 0.7 / - 0.4					+ 1.2 / - 0.7				
2.0H	+ 0.9 / - 0.7					+ 1.1 / - 0.8				

CIE Pub.117 Corrected 322.2 lm Total Lamp Luminous Flux. (8log(F/F0) = -3.9)

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:

UTILIZATION FACTORS TABLE

Report number: JSM-2018-09-03-005

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL463-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	99	95	92	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	102	105	102	100	95
2.50	111	107	104	109	106	104	106	104	102	96
3.00	112	109	106	110	108	105	107	105	103	97
4.00	114	112	110	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			

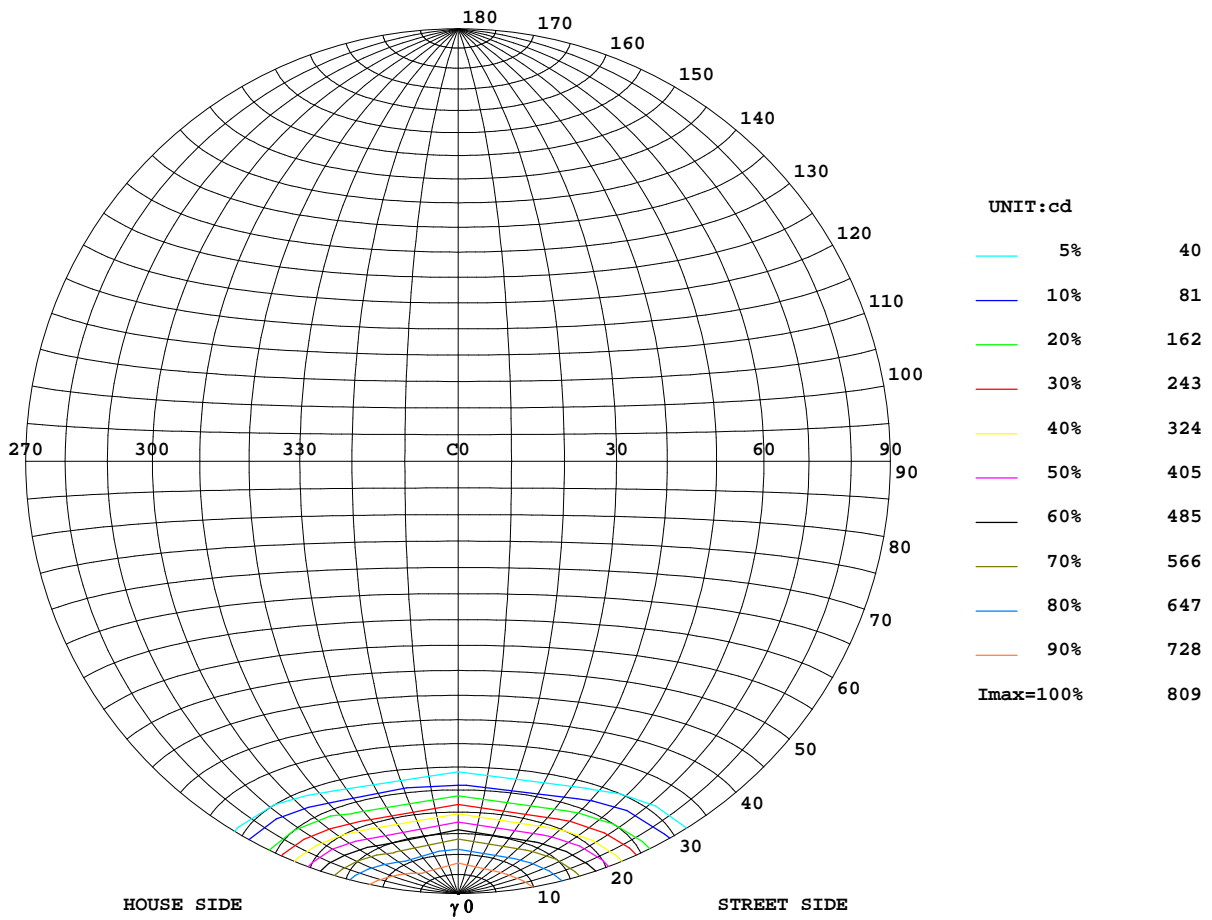
Test System:HOP00 HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018年09月03日

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

ISOCANDELA DIAGRAM

Report number: JSM-2018-09-03-005

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL463-A-LED	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



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

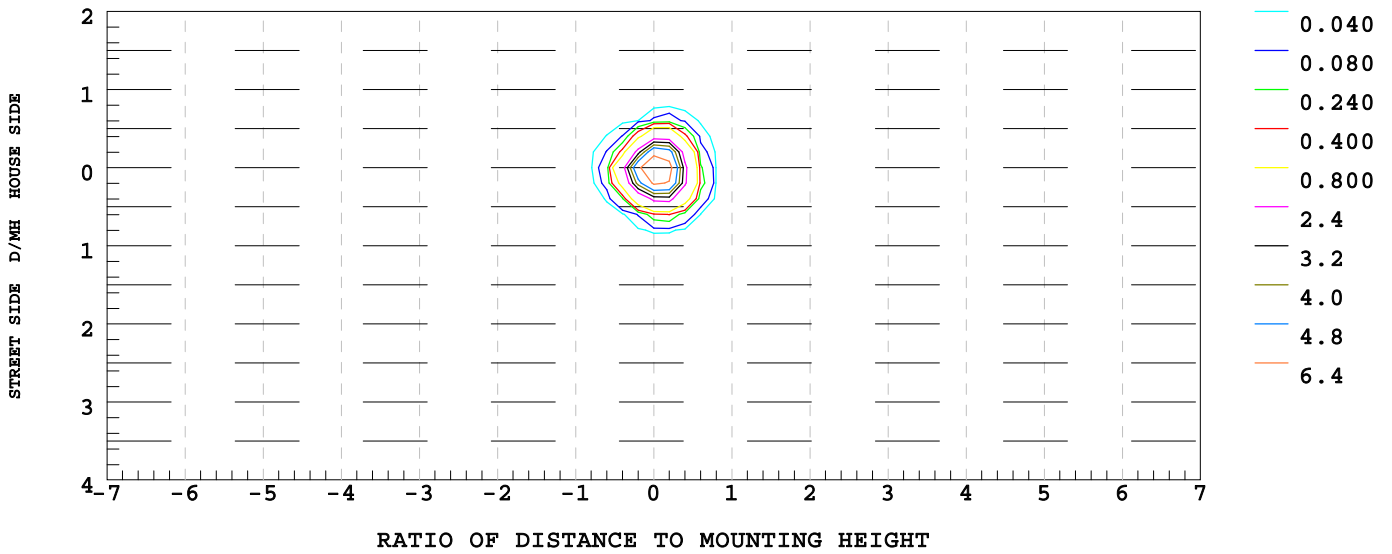
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

ISOLUX DIAGRAM

Report number: JSM-2018-09-03-005

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL463-A-LED	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 8.03 lx



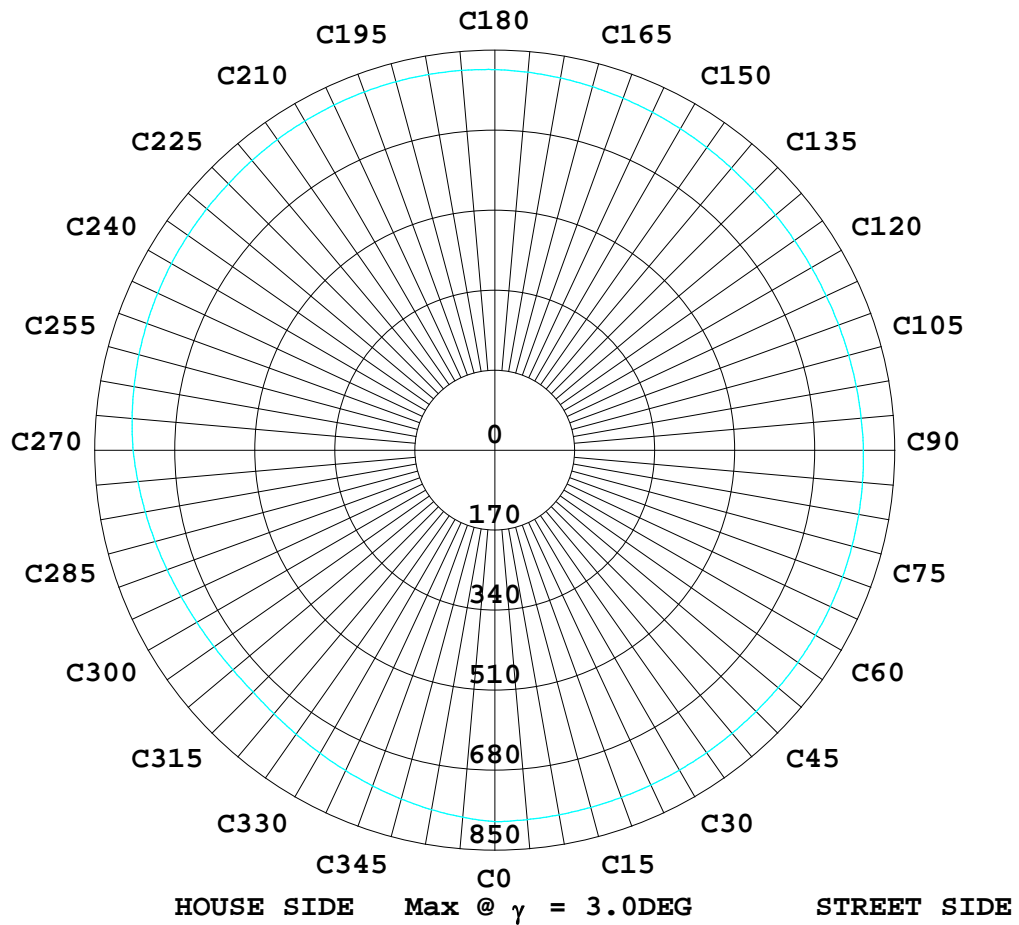
Test System: HOPOO HPG1800
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2018年09月03日

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

ISOCANDELA DIAGRAM

Report number: JSM-2018-09-03-005

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL463-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-2018-09-03-005

MANUFACTURER: GFG LIGHTING MANUFACTORY CO., LTD.		
Address: 30#, LIULIAN ROAD, JIANGGAO, BAIYUN DISTRICT, GUANGZHOU, CHINA		
NAME:	TYPE: GL463-A-LED	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

UNIT: cd

γ (DEG)	C (DEG)							
	0	45	90	135	180	225	270	315
0.0	803	796	782	762	803	796	782	762
5.0	771	766	776	785	807	799	752	689
10.0	681	678	728	773	774	761	665	541
15.0	520	521	614	722	640	630	495	344
20.0	306	305	420	571	418	417	286	147
25.0	115	109	216	352	202	199	104	40.7
30.0	28.3	27.0	74.1	152	58.5	60.5	19.5	11.8
35.0	10.8	8.42	15.0	39.0	11.1	13.4	7.79	7.49
40.0	7.15	5.14	8.42	9.16	6.56	8.28	5.04	5.24
45.0	5.19	3.52	5.73	5.73	4.50	5.78	3.38	3.77
50.0	3.72	2.35	4.16	3.82	3.13	4.01	2.25	2.64
55.0	2.59	1.51	3.03	2.59	2.05	2.79	1.37	1.86
60.0	1.86	0.93	2.05	1.61	1.22	1.96	0.83	1.42
65.0	1.42	0.69	1.51	0.88	0.88	1.47	0.59	1.22
70.0	1.27	0.59	1.22	0.64	0.78	1.22	0.54	1.07
75.0	1.17	0.59	1.12	0.54	0.73	1.12	0.49	1.02
80.0	1.07	0.54	1.02	0.54	0.73	1.02	0.49	0.93
85.0	0.98	0.54	0.93	0.49	0.78	0.93	0.49	0.88
90.0	0.93	0.59	0.88	0.54	0.93	0.88	0.54	0.78

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: