

GONIOPHOTOMETERS SYSTEM TEST REPORT

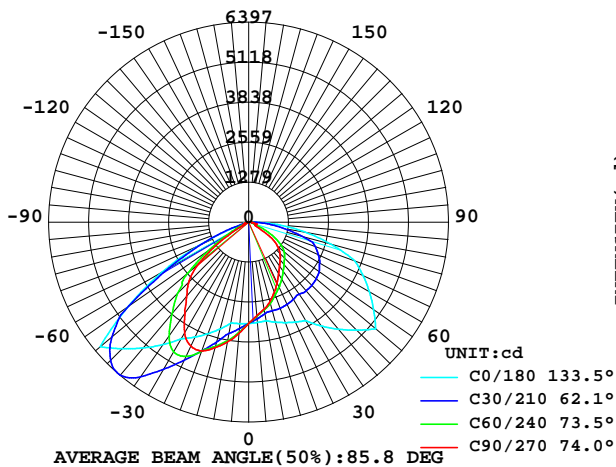
STREETLIGHT PHOTOMETRIC TEST REPORT

Report number: FL-B161027-01

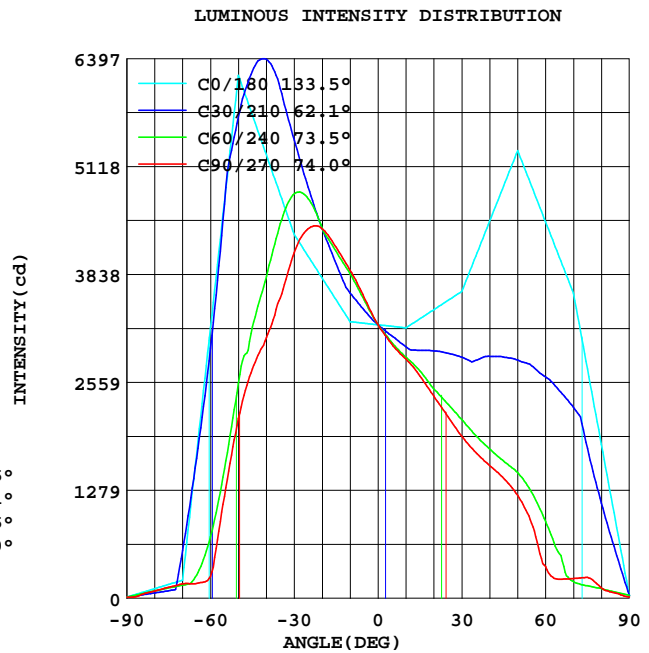
MANUFACTURER: Feilong lighting	Address:	
NAME: led street light	TYPE:led street light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:FL-C161027-01

MODEL:	Philips3030	Imax(cd):	8714	Effictive Flux(lm):	12392.2
NOMINAL POWER(W):	100	MAXIMUM(C, γ):	15, 51.0	EEI	0.104
RATED VOLTAGE(V):	220	EFFICIENCY(%):	100.0	Voltage(V)	220.6
NOMINAL FLUX(lm):	12918.8	η street_up(%):	0.0	Current(A)	0.433
TEST FLUX(lm):	12919	η street_down(%):	58.0	Power(W)	94.22
LAMPS QUANTITY:	1	η house_up(%):	0.0	Power Factor	0.984
TOTAL FLUX(lm):	12919	η house_down(%):	42.0	EEFICIENCY(lm/W)	137.1

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



Test System:HOPPO HPG1900
Temperature:25.3DEG
Operators:hu
Test Date:2016-12-27

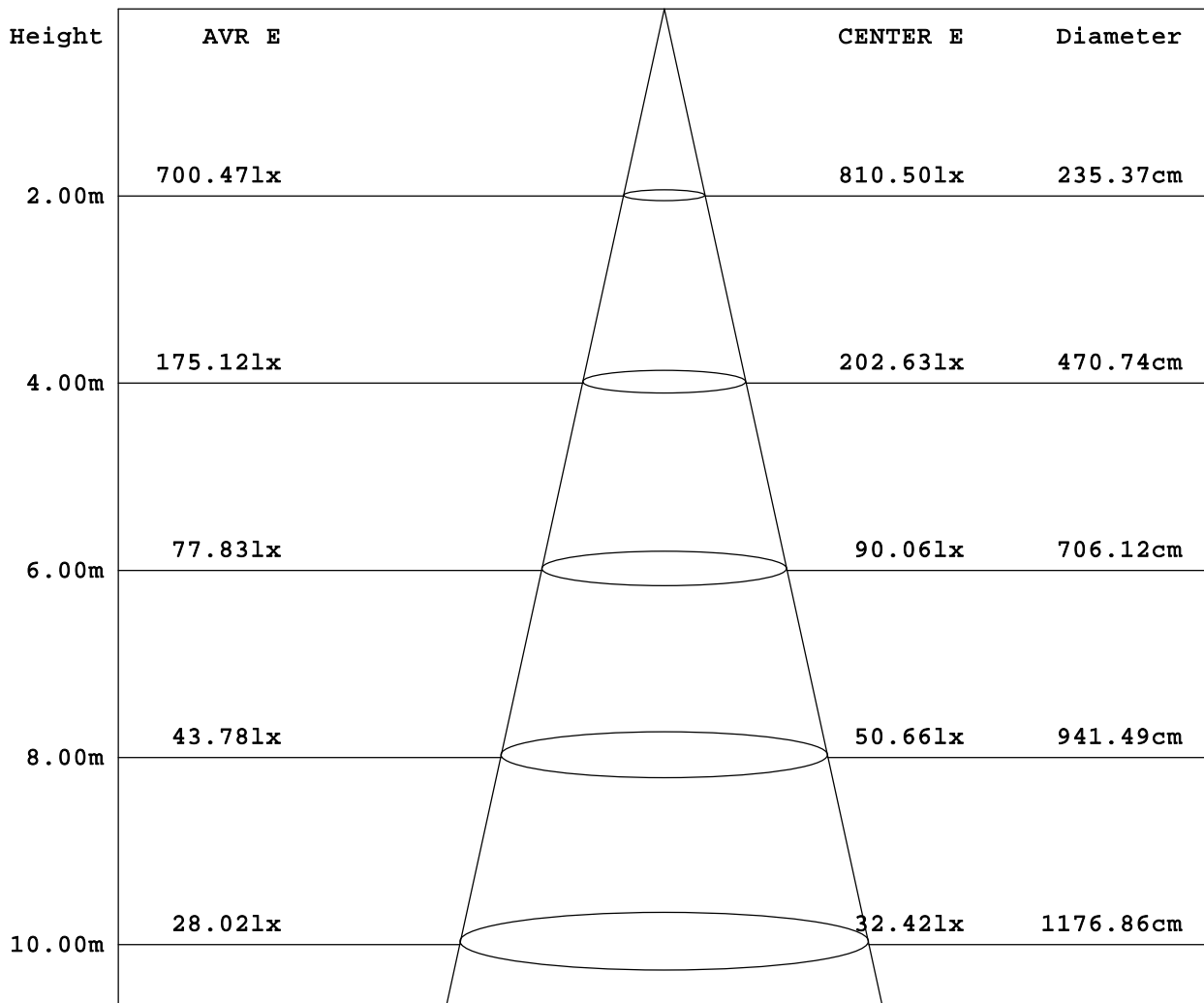
Test Set: 5.0deg/s A-Alpha (TYPE A)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

AVERAGE AND CENTER E Figure

Report number: FL-B161027-01

MANUFACTURER: Feilong lighting	Address:	
NAME: led street light	TYPE:led street light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:FL-C161027-01



Angle:60.9deg

Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:hu
 Test Date:2016-12-27

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

GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Report number: FL-B161027-01

MANUFACTURER: Feilong lighting	Address:	
NAME: led street light	TYPE:led street light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:FL-C161027-01

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	3260	3487	3566	3450	3224	3064	3009	3085	0- 5	77.87	77.87
10.0	3278	3758	3887	3660	3206	2904	2834	2961	5- 10	235.5	313.4
15.0	3537	4032	4159	3865	3314	2788	2636	2884	10- 15	398.6	712.1
20.0	3795	4507	4382	4180	3422	2705	2395	2862	15- 20	571.3	1284
25.0	4053	5033	4381	4557	3529	2572	2154	2784	20- 25	748.7	2032
30.0	4311	5438	4100	4911	3637	2429	1921	2670	25- 30	920.0	2952
35.0	4784	5567	3559	5092	4055	2289	1730	2551	30- 35	1080	4032
40.0	5256	5259	3089	5016	4473	2146	1572	2424	35- 40	1235	5267
45.0	5728	4191	2719	4401	4890	2027	1423	2355	40- 45	1362	6629
50.0	6200	3030	2132	3592	5308	1899	1219	2246	45- 50	1446	8075
55.0	4704	1910	1207	2754	4885	1767	890.0	2109	50- 55	1404	9479
60.0	3207	907.8	259.7	1872	4461	1577	376.8	1851	55- 60	1144	10622
65.0	1711	460.2	175.6	1047	4038	1091	226.1	1160	60- 65	838.5	11461
70.0	214.7	228.4	171.6	500.0	3615	636.2	234.0	592.0	65- 70	585.1	12046
75.0	164.6	114.3	131.1	153.2	2719	253.8	247.1	143.1	70- 75	385.5	12432
80.0	114.5	80.70	86.55	100.4	1823	150.0	121.8	71.56	75- 80	264.9	12697
85.0	64.47	48.27	40.75	72.05	926.4	89.48	60.79	40.89	80- 85	161.3	12858
90.0	14.40	12.60	13.00	43.00	30.30	32.79	16.95	10.00	85- 90	60.83	12919
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:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:hu
 Test Date:2016-12-27

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

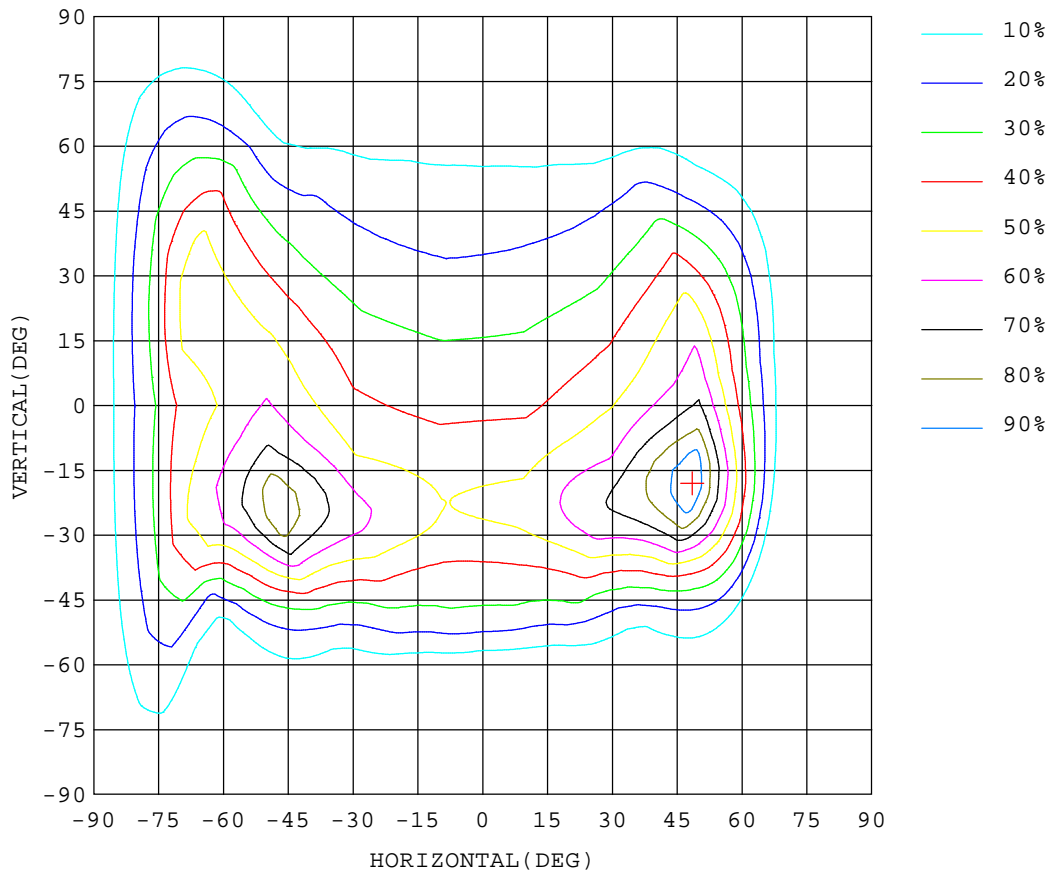
GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number: FL-B161027-01

MANUFACTURER: Feilong lighting	Address:	
NAME: led street light	TYPE:led street light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:FL-C161027-01

UNIT: cd



Test System:HOP00 HPG1900
 Temperature:25.3DEG
 Operators:hu
 Test Date:2016-12-27

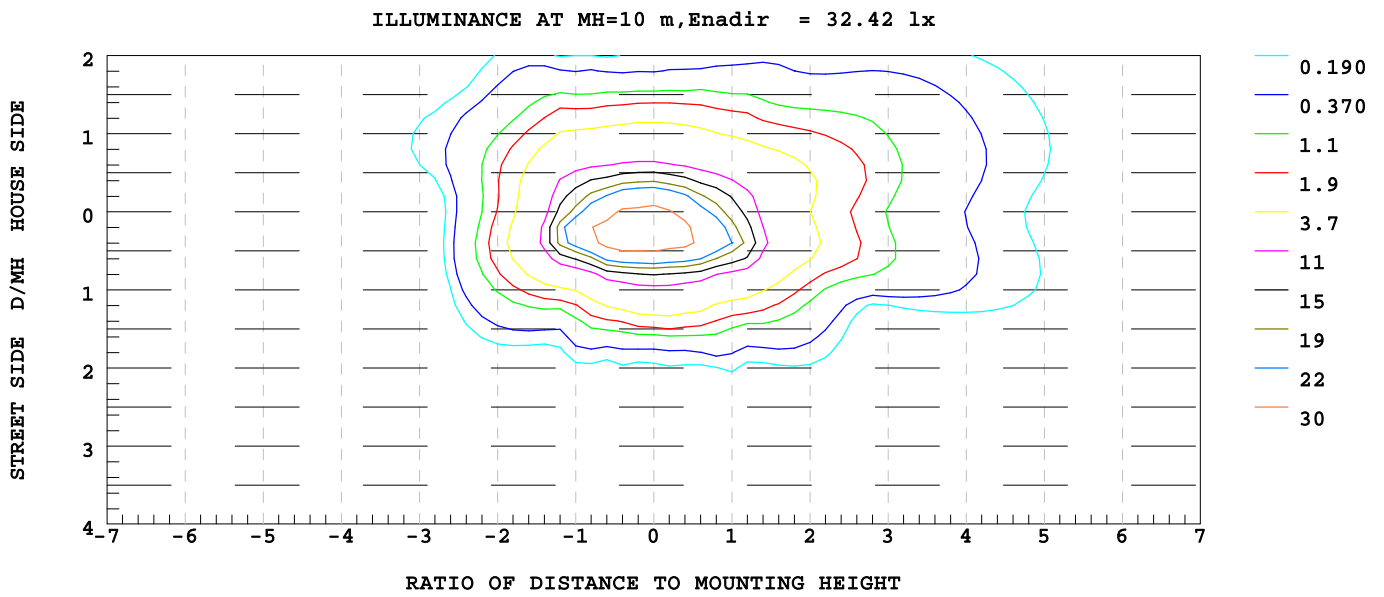
Test Set: 5.0deg/s A-Alpha (TYPE A)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number: FL-B161027-01

MANUFACTURER: Feilong lighting	Address:	
NAME: led street light	TYPE:led street light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:FL-C161027-01



Test System:HOP00 HPG1900
 Temperature:25.3DEG
 Operators:hu
 Test Date:2016-12-27

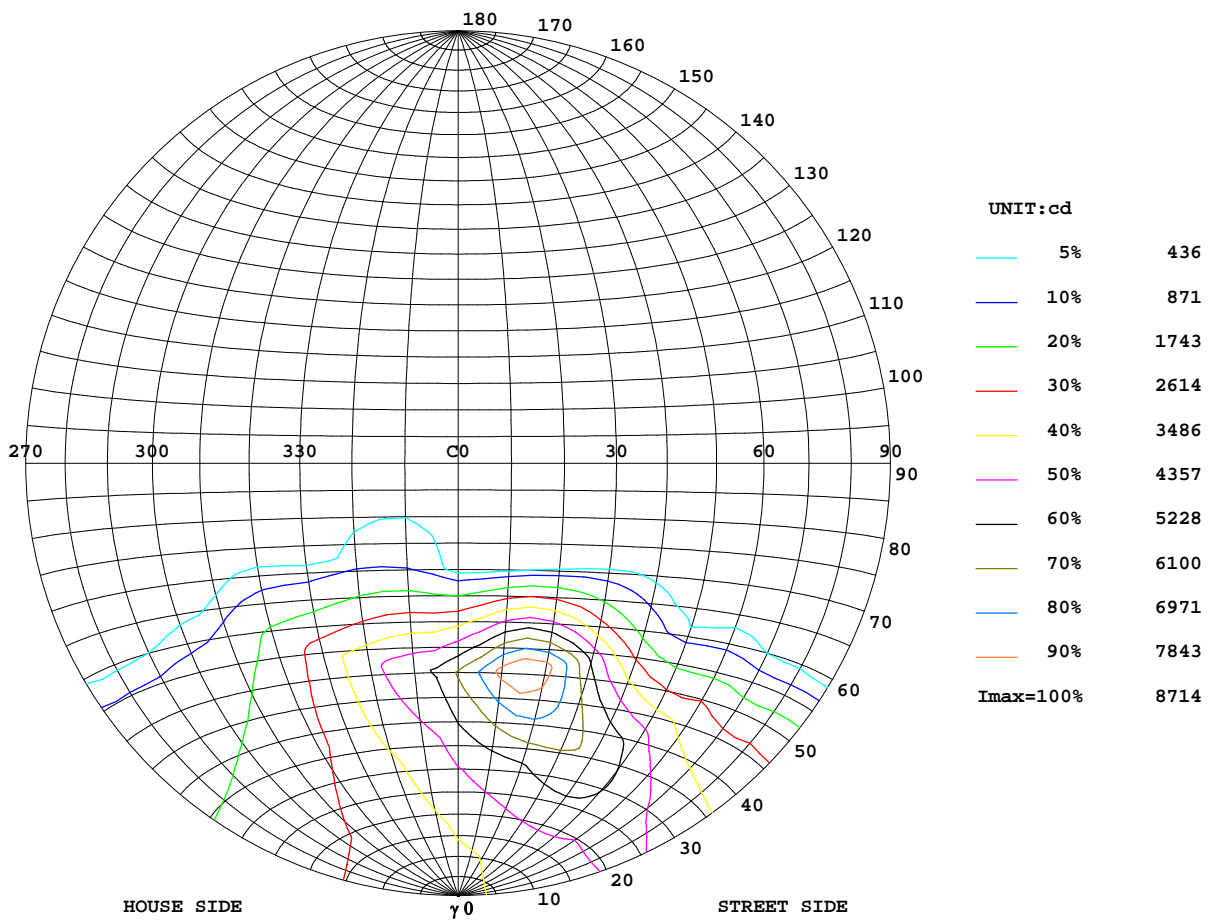
Test Set: 5.0deg/s A-Alpha (TYPE A)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number: FL-B161027-01

MANUFACTURER: Feilong lighting	Address:	
NAME: led street light	TYPE:led street light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:FL-C161027-01



Test System:HOP00 HPG1900
 Temperature:25.3DEG
 Operators:hu
 Test Date:2016-12-27

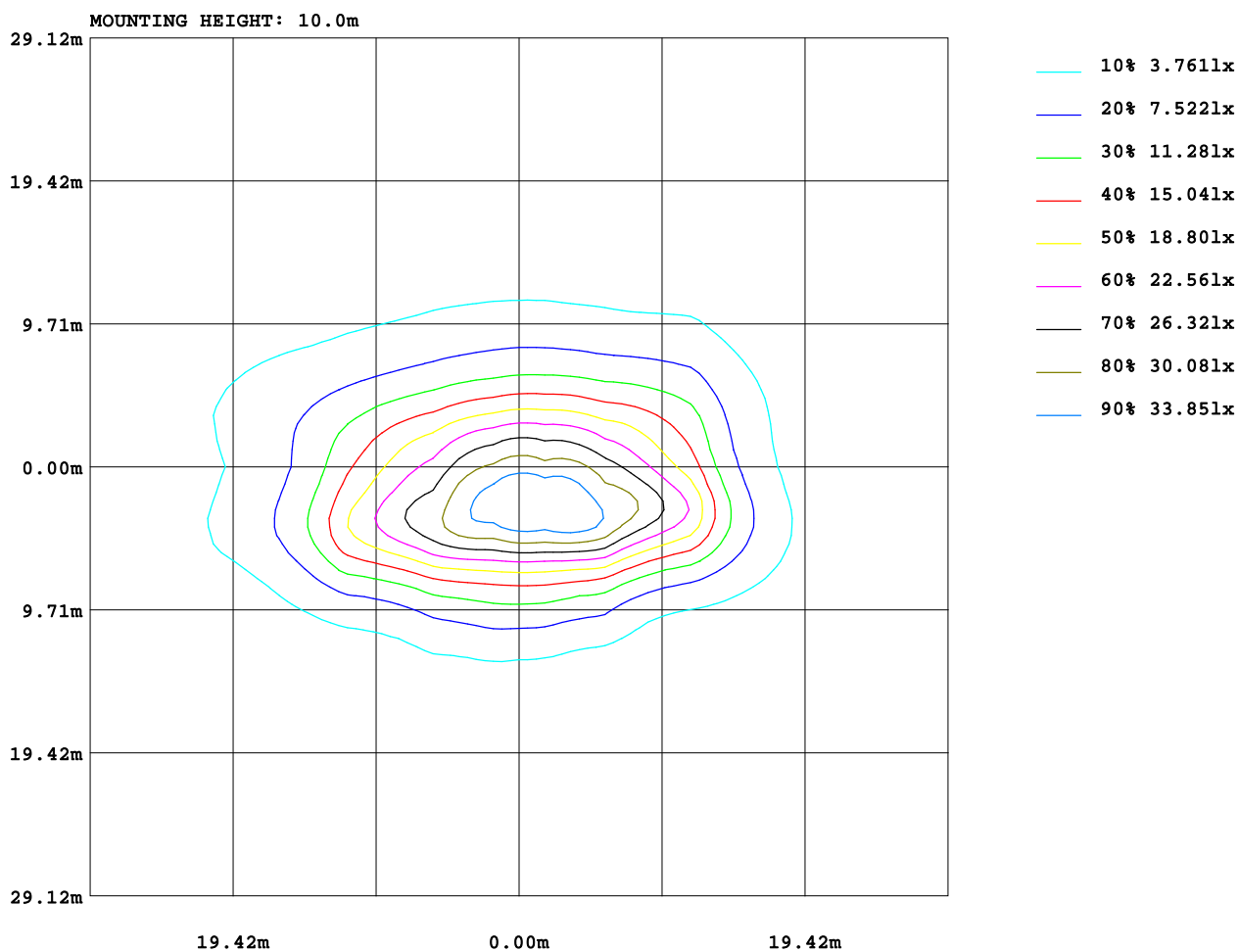
Test Set: 5.0deg/s A-Alpha (TYPE A)
 Humidity:65.0%
 Test Distance:10.000 m
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GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number: FL-B161027-01

MANUFACTURER: Feilong lighting	Address:	
NAME: led street light	TYPE:led street light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:FL-C161027-01



Test System:HOP00 HPG1900
 Temperature:25.3DEG
 Operators:hu
 Test Date:2016-12-27

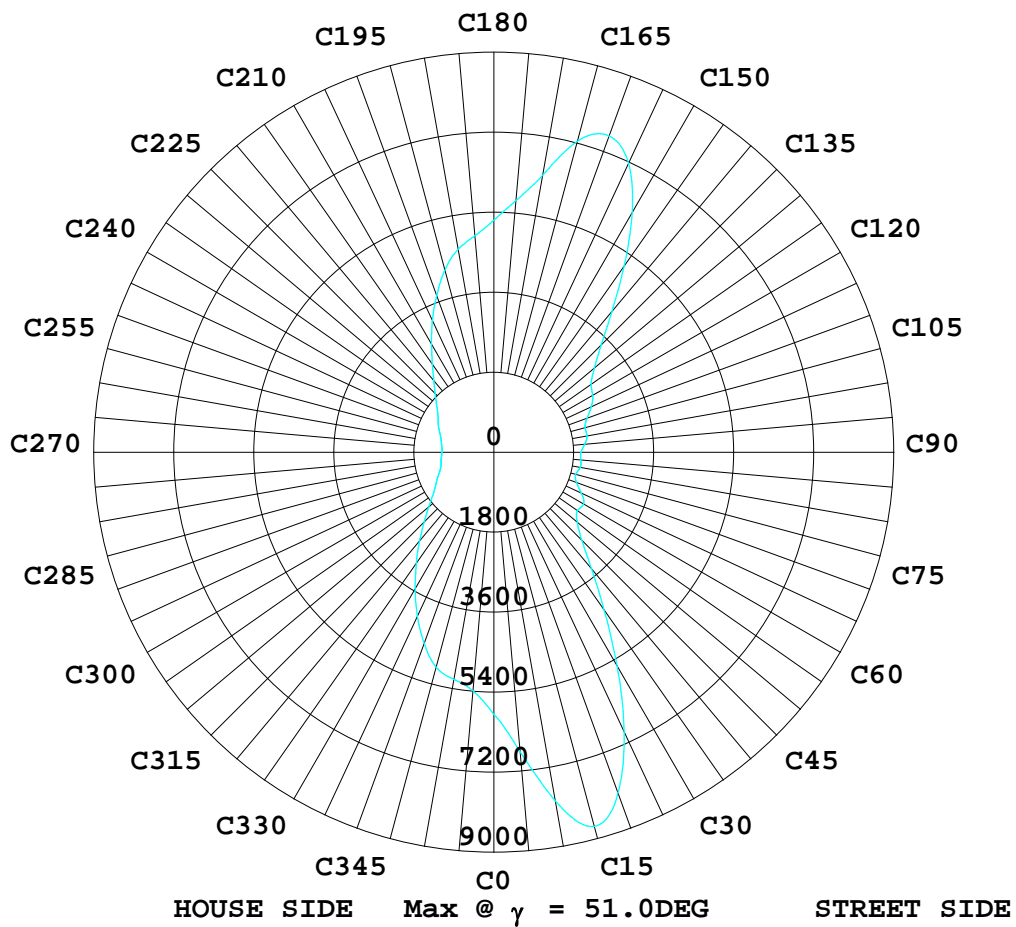
Test Set: 5.0deg/s A-Alpha (TYPE A)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number: FL-B161027-01

MANUFACTURER: Feilong lighting	Address:	
NAME: led street light	TYPE:led street light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:FL-C161027-01



Test System:HOP00 HPG1900
 Temperature:25.3DEG
 Operators:hu
 Test Date:2016-12-27

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

GONIOPHOTOMETERS SYSTEM TEST REPORT

AREA LUMINOUS FLUX

Report number: FL-B161027-01

MANUFACTURER: Feilong lighting	Address:	
NAME: led street light	TYPE:led street light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:FL-C161027-01

VERTICAL (DEG)	AREA FLUX DIAGRAM																	UNIT:lm		Φ t	Φ a
	0.43	2.58	4.50	3.42	1.67	1.73	1.87	2.07	2.05	1.66	1.38	1.16	0.96	0.70	0.62	0.93	0.52	0.07	28.4	0.00	
90	1.12	7.34	13.2	10.6	4.23	3.92	3.86	5.57	6.92	6.46	4.43	3.18	2.62	1.66	1.66	2.65	1.33	0.14	81.1	17.9	
80	1.77	12.1	23.6	22.5	12.6	12.0	8.73	7.91	7.74	7.50	6.77	7.37	10.3	7.41	3.67	4.74	2.09	0.20	159	59.4	
70	2.35	16.7	35.9	38.8	29.2	29.6	27.7	27.3	26.1	25.7	25.8	26.7	31.7	24.5	12.0	7.11	2.70	0.24	391	320	
60	2.82	20.9	48.2	52.0	45.7	44.1	42.5	42.5	42.8	43.4	43.9	45.8	52.3	47.4	27.0	10.0	3.02	0.26	615	604	
50	3.16	24.1	56.3	63.5	60.0	55.7	53.0	52.0	52.1	53.6	55.6	59.0	67.5	70.5	42.7	14.0	2.95	0.26	787	779	
40	3.35	25.6	60.1	73.2	74.6	69.8	65.7	64.7	64.7	66.3	69.5	73.6	82.8	89.2	57.0	17.6	2.46	0.25	961	956	
30	3.39	25.3	58.8	80.1	88.1	83.8	79.6	78.9	79.0	80.5	84.1	89.0	96.8	102	68.0	19.8	1.84	0.25	1120	1116	
20	3.31	23.4	54.6	83.5	98.9	95.0	91.4	90.9	91.0	92.0	96.5	103	110	114	77.4	22.1	1.50	0.23	1250	1247	
10	3.27	22.8	54.7	91.0	114	109	105	106	107	109	114	121	131	138	91.3	24.5	1.33	0.21	1444	1441	
0	3.27	23.5	59.5	104	138	133	125	125	124	127	135	145	157	167	104	25.0	1.29	0.21	1697	1694	
-10	3.16	23.3	60.1	105	151	147	140	134	130	133	143	155	155	155	92.4	20.4	1.20	0.20	1749	1746	
-20	2.94	21.6	47.8	76.1	118	118	118	112	109	110	113	118	107	101	60.6	11.3	1.07	0.18	1344	1340	
-30	2.60	17.7	25.5	38.7	65.2	70.6	76.5	80.3	82.1	81.0	76.2	68.3	51.3	46.7	28.7	3.49	0.90	0.16	817	811	
-40	2.15	13.1	10.7	11.6	27.3	28.6	33.5	37.6	38.6	35.4	29.9	25.2	14.6	15.9	7.86	1.31	0.72	0.14	335	253	
-50	1.62	8.55	4.66	2.49	7.11	7.52	7.33	6.37	5.98	5.62	5.82	5.53	4.42	3.86	1.58	0.95	0.53	0.11	80.1	8.60	
-60	1.03	4.76	2.12	1.49	2.19	3.11	3.57	3.81	3.92	3.75	3.28	2.95	2.73	1.71	0.94	0.63	0.36	0.08	42.5	0.20	
-70	0.40	1.65	0.83	0.81	1.29	1.50	1.57	1.50	1.36	1.30	1.22	1.22	1.13	0.80	0.46	0.32	0.19	0.05	17.6	0.00	
-80																					
-90																					
	Φ t	42.2	295	622	859	1039	1015	986	979	975	983	1009	1051	1079	1088	678	187	26.0	3.24	12919	
	Φ a	31.1	284	603	835	1009	978	948	938	934	942	971	1015	1045	1060	655	144	0.00	0.00		12392

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:hu
 Test Date:2016-12-27

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

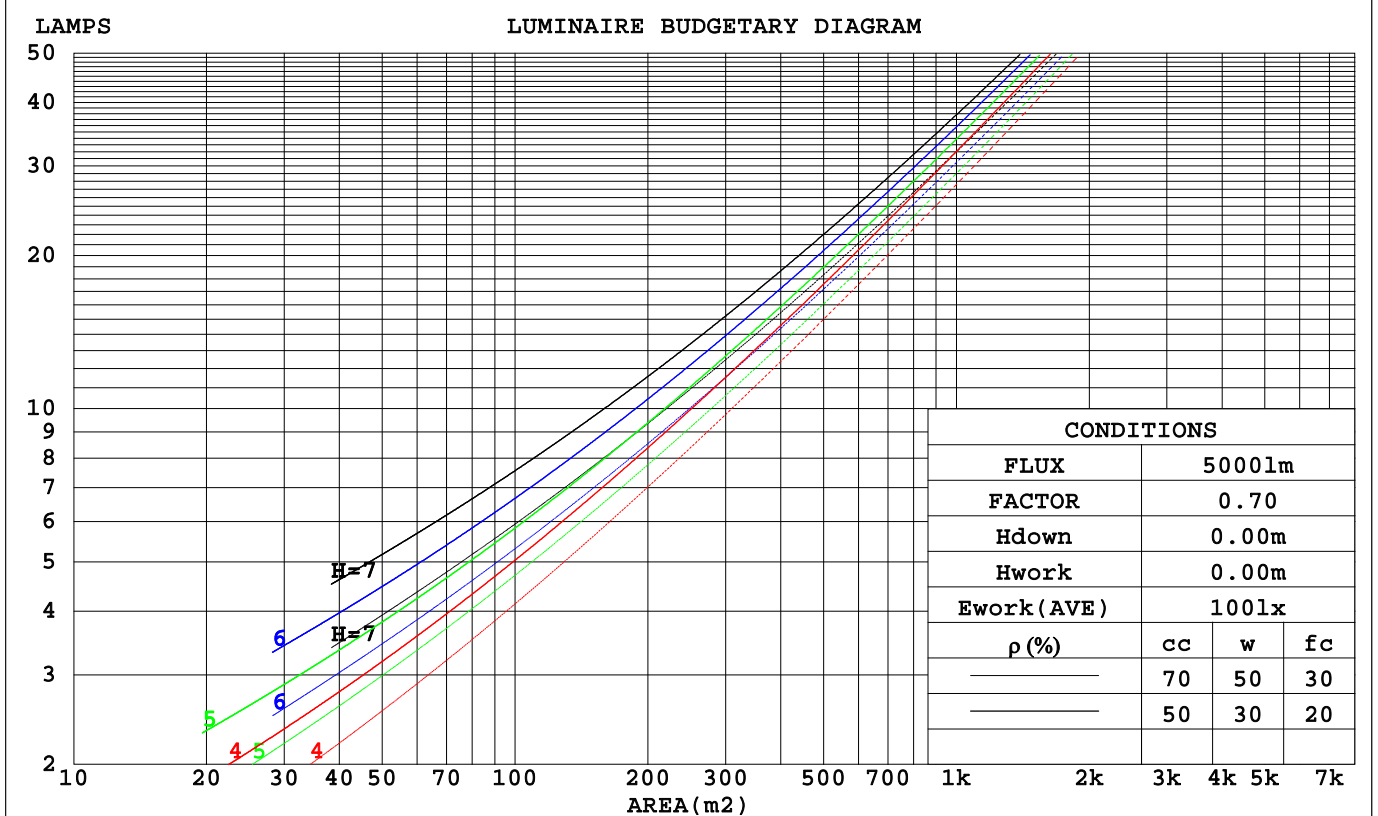
GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number: FL-B161027-01

MANUFACTURER: Feilong lighting				Address:			
NAME: led street light				TYPE:led street light		WEIGHT:	
SPECIFICATION:				DIMENSION:		SERIAL No.:FL-C161027-01	

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	.00														
1.0	1.04	.00	.96	1.02	.98	.95	.98	.95	.92	.94	.91	.89	.90	.88	.86	.84														
2.0	.91	.84	.78	.89	.83	.77	.85	.80	.75	.82	.78	.74	.79	.75	.72	.70														
3.0	.79	.71	.65	.78	.70	.64	.75	.68	.63	.72	.66	.62	.69	.65	.61	.58														
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.57	.52	.61	.56	.52	.49														
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42														
6.0	.55	.46	.40	.54	.46	.39	.53	.45	.39	.51	.44	.39	.49	.43	.38	.36														
7.0	.50	.41	.35	.49	.40	.34	.47	.40	.34	.46	.39	.34	.45	.38	.34	.32														
8.0	.45	.36	.30	.44	.36	.30	.43	.35	.30	.42	.35	.30	.41	.34	.30	.28														
9.0	.41	.33	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.25														
10.0	.38	.30	.24	.37	.29	.24	.36	.29	.24	.35	.29	.24	.34	.28	.24	.22														



Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:hu
 Test Date:2016-12-27

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

GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Report number: FL-B161027-01

MANUFACTURER: Feilong lighting	Address:					
NAME: led street light	TYPE:led street light			WEIGHT:		
SPECIFICATION:	DIMENSION:			SERIAL No.:FL-C161027-01		

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	.304	.173	.055	.296	.169	.054	.283	.163	.052	.271	.156	.050	.260	.151	.049	
2.0	.289	.158	.049	.283	.156	.048	.271	.151	.047	.260	.146	.046	.251	.142	.045	
3.0	.270	.144	.043	.265	.142	.043	.254	.138	.042	.245	.134	.041	.236	.131	.040	
4.0	.251	.131	.038	.246	.129	.038	.237	.126	.038	.229	.123	.037	.221	.120	.037	
5.0	.233	.119	.034	.229	.118	.034	.221	.115	.034	.213	.113	.033	.206	.110	.033	
6.0	.217	.109	.031	.213	.108	.031	.206	.106	.031	.199	.104	.030	.193	.102	.030	
7.0	.203	.100	.028	.199	.099	.028	.193	.097	.028	.187	.096	.028	.181	.094	.028	
8.0	.190	.093	.026	.186	.092	.026	.181	.090	.026	.175	.089	.026	.170	.087	.025	
9.0	.178	.086	.024	.175	.085	.024	.170	.084	.024	.165	.083	.024	.160	.081	.023	
10.0	.167	.080	.022	.165	.080	.022	.160	.078	.022	.155	.077	.022	.151	.076	.022	

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	.180	.156	.135	.154	.134	.116	.105	.092	.080	.061	.053	.047	.019	.017	.015	
2.0	.172	.132	.098	.147	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.165	.114	.074	.141	.099	.064	.097	.068	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.135	.087	.050	.093	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.052	.032	.017	.017	.011	.006	
6.0	.143	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.137	.076	.033	.118	.066	.028	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.131	.070	.028	.112	.061	.025	.078	.043	.017	.045	.025	.010	.015	.008	.003	
9.0	.125	.065	.025	.107	.056	.022	.074	.040	.015	.043	.023	.009	.014	.008	.003	
10.0	.119	.061	.022	.102	.053	.019	.071	.037	.014	.041	.022	.008	.013	.007	.003	

Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:hu
 Test Date:2016-12-27

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

GONIOPHOTOMETERS SYSTEM TEST REPORT

Uncorrected UGR Table

Report number: FL-B161027-01

MANUFACTURER: Feilong lighting						Address:				
NAME: led street light						TYPE:led street light			WEIGHT:	
SPECIFICATION:						DIMENSION:			SERIAL No.:FL-C161027-01	
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	31.0	32.6	31.3	32.8	33.0	22.8	24.4	23.1	24.6	24.8
3H	31.2	32.6	31.5	32.8	33.1	22.7	24.1	23.0	24.3	24.6
4H	31.1	32.4	31.4	32.7	32.9	22.6	24.0	22.9	24.2	24.5
6H	31.0	32.2	31.3	32.5	32.8	22.6	23.8	22.9	24.1	24.4
8H	30.9	32.1	31.2	32.4	32.7	22.5	23.8	22.9	24.1	24.3
12H	30.9	32.0	31.2	32.3	32.6	22.5	23.7	22.9	24.0	24.3
4H 2H	30.8	32.1	31.1	32.4	32.6	23.7	25.1	24.0	25.3	25.6
3H	30.9	32.1	31.3	32.4	32.7	23.6	24.8	23.9	25.1	25.4
4H	30.9	31.9	31.2	32.2	32.6	23.6	24.6	23.9	24.9	25.3
6H	30.8	31.7	31.2	32.1	32.4	23.5	24.5	23.9	24.8	25.2
8H	30.7	31.6	31.1	32.0	32.4	23.5	24.4	23.9	24.8	25.2
12H	30.7	31.5	31.1	31.9	32.3	23.5	24.3	23.9	24.7	25.1
8H 4H	30.7	31.6	31.1	32.0	32.3	23.5	24.4	23.9	24.8	25.2
6H	30.6	31.4	31.1	31.8	32.2	23.5	24.3	24.0	24.7	25.1
8H	30.6	31.3	31.1	31.7	32.1	23.6	24.2	24.0	24.6	25.1
12H	30.6	31.2	31.1	31.6	32.1	23.6	24.1	24.0	24.6	25.0
12H 4H	30.7	31.5	31.1	31.9	32.3	23.5	24.3	23.9	24.7	25.1
6H	30.6	31.3	31.1	31.7	32.1	23.5	24.2	24.0	24.6	25.0
8H	30.6	31.1	31.1	31.6	32.1	23.5	24.1	24.0	24.5	25.0
Variations with the observer position at spacings:										
S = 1.0H	+ 1.3 / - 2.1					+ 1.9 / - 3.5				
1.5H	+ 2.3 / - 3.7					+ 0.9 / - 1.5				
2.0H	+ 2.8 / - 7.2					+ 2.8 / - 6.0				

CIE Pub.117 Corrected 12919 lm Total Lamp Luminous Flux.(8log(F/F0) = 8.9)

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:hu
 Test Date:2016-12-27

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

GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Report number: FL-B161027-01

MANUFACTURER: Feilong lighting	Address:	
NAME: led street light	TYPE:led street light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:FL-C161027-01

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	54	42	35	54	42	35	52	41	35	28
0.80	65	53	46	64	53	45	62	52	45	38
1.00	75	63	56	74	63	56	71	64	55	48
1.25	83	72	65	81	71	64	78	70	63	56
1.50	88	78	71	86	77	70	83	75	69	62
2.00	95	87	80	93	85	79	90	83	78	70
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	95	90	100	94	89	96	91	87	78
4.00	106	100	96	104	99	94	100	95	92	83
5.00	109	104	100	106	102	98	102	98	95	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:hu
 Test Date:2016-12-27

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

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: FL-B161027-01

MANUFACTURER: Feilong lighting	Address:	
NAME: led street light	TYPE: led street light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.: FL-C161027-01

UNIT: cd

γ (DEG)	C (DEG)															
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	
0.0	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	
5.0	3260	3285	3309	3337	3366	3393	3417	3441	3464	3487	3507	3524	3537	3548	3557	
10.0	3278	3329	3389	3448	3508	3566	3617	3673	3719	3758	3794	3824	3847	3866	3878	
15.0	3537	3620	3704	3782	3848	3914	3965	4005	4025	4032	4038	4076	4112	4136	4154	
20.0	3795	3915	4024	4120	4215	4307	4381	4445	4490	4507	4496	4455	4390	4391	4407	
25.0	4053	4210	4342	4462	4598	4735	4873	4975	5034	5033	4978	4873	4738	4590	4496	
30.0	4311	4501	4647	4809	5015	5244	5432	5550	5548	5438	5250	5027	4792	4573	4379	
35.0	4784	5083	5381	5658	5855	5980	6044	6040	5870	5567	5197	4799	4440	4136	3902	
40.0	5256	5702	6224	6651	6792	6685	6387	6012	5619	5259	4748	4220	3811	3552	3336	
45.0	5728	6356	7124	7631	7561	7011	6249	5447	4754	4191	3799	3587	3216	2958	2814	
50.0	6200	7036	8081	8555	8088	6985	5706	4511	3654	3030	2663	2458	2545	2324	2144	
55.0	4704	5430	6438	6986	6733	5868	4674	3467	2515	1910	1577	1554	1534	1422	1245	
60.0	3207	3732	4461	4801	4528	3861	2964	2192	1492	908	678	717	729	626	434	
65.0	1711	1999	2417	2617	2476	2117	1659	1212	797	460	272	198	275	235	193	
70.0	215	238	322	454	547	601	568	484	345	228	175	161	156	154	156	
75.0	165	164	159	142	107	97.8	89.8	86.3	81.2	114	136	128	122	116	112	
80.0	115	115	111	97.2	75.3	68.8	63.7	60.0	59.6	80.7	98.9	92.1	87.9	81.3	75.6	
85.0	64.4	64.6	62.7	55.2	44.3	40.7	38.1	35.9	36.8	48.2	55.7	52.2	50.4	47.4	43.4	
90.0	14.4	14.5	14.5	14.4	13.7	13.0	12.7	12.6	12.5	12.6	13.2	14.0	14.8	15.6	16.3	

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:hu
 Test Date:2016-12-27

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

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: FL-B161027-01

MANUFACTURER: Feilong lighting	Address:	
NAME: led street light	TYPE: led street light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.: FL-C161027-01

UNIT: cd

γ (DEG)	C(DEG)														
	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145
0.0	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242
5.0	3563	3566	3567	3566	3562	3556	3547	3537	3524	3509	3492	3472	3450	3425	3400
10.0	3886	3891	3891	3887	3879	3866	3849	3829	3804	3775	3743	3704	3660	3614	3565
15.0	4166	4170	4168	4159	4144	4124	4099	4069	4034	3993	3948	3895	3865	3834	3792
20.0	4411	4406	4397	4382	4362	4338	4309	4273	4228	4195	4208	4203	4180	4138	4077
25.0	4467	4434	4406	4381	4361	4346	4336	4323	4376	4472	4540	4573	4557	4496	4407
30.0	4258	4181	4128	4100	4093	4104	4129	4214	4369	4536	4699	4830	4911	4909	4808
35.0	3733	3636	3581	3559	3569	3607	3682	3849	4061	4316	4599	4864	5092	5222	5227
40.0	3214	3158	3109	3089	3100	3141	3214	3348	3554	3822	4187	4618	5016	5327	5644
45.0	2751	2771	2724	2719	2749	2807	2823	2890	3051	3303	3673	3962	4401	4975	5633
50.0	2087	2139	2130	2132	2205	2274	2280	2373	2546	2742	2848	3132	3592	4288	5237
55.0	1186	1208	1211	1207	1333	1399	1435	1580	1797	1852	1960	2253	2754	3476	4568
60.0	388	352	267	260	336	420	518	686	889	989	1076	1338	1872	2416	3047
65.0	204	186	169	176	189	188	184	200	348	376	379	658	1047	1426	1762
70.0	164	168	168	172	174	170	165	170	184	183	206	324	500	657	736
75.0	116	120	122	131	131	125	137	141	142	143	149	163	153	123	132
80.0	72.2	76.0	86.7	86.5	85.1	88.9	91.6	93.6	97.7	104	107	104	100	92.6	95.7
85.0	40.4	41.2	39.2	40.7	43.0	46.8	48.5	54.1	59.8	64.7	68.3	67.1	72.0	65.1	59.4
90.0	16.6	14.8	11.5	13.0	12.7	17.8	22.4	24.1	26.8	28.2	30.5	29.8	43.0	37.9	23.7

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:hu
 Test Date:2016-12-27

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

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: FL-B161027-01

MANUFACTURER: Feilong lighting	Address:	
NAME: led street light	TYPE: led street light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.: FL-C161027-01

UNIT: cd

γ (DEG)	C(DEG)														
	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220
0.0	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242
5.0	3376	3351	3325	3298	3271	3248	3224	3203	3183	3163	3144	3126	3110	3094	3079
10.0	3513	3465	3410	3356	3304	3252	3206	3167	3128	3091	3053	3014	2982	2951	2925
15.0	3739	3677	3607	3538	3460	3384	3314	3253	3191	3125	3060	2996	2939	2887	2836
20.0	4002	3921	3829	3728	3624	3518	3422	3339	3257	3170	3085	3007	2933	2859	2782
25.0	4299	4176	4053	3928	3792	3653	3529	3427	3324	3212	3111	3010	2905	2800	2683
30.0	4650	4470	4285	4123	3957	3788	3637	3514	3389	3258	3130	2994	2858	2704	2562
35.0	5172	5069	4917	4699	4479	4262	4055	3867	3689	3496	3284	3060	2820	2602	2434
40.0	5872	5918	5765	5429	5052	4752	4473	4222	4006	3756	3470	3163	2868	2584	2347
45.0	6246	6620	6622	6231	5655	5249	4890	4573	4318	3995	3623	3250	2860	2529	2247
50.0	6265	7104	7427	7075	6313	5750	5308	4922	4616	4215	3742	3282	2823	2440	2131
55.0	5666	6437	6848	6705	6004	5335	4885	4752	4650	4310	3814	3283	2758	2338	2012
60.0	3781	4504	5319	5854	5543	4900	4461	4605	4700	4403	3883	3256	2625	2112	1769
65.0	2147	2668	3618	4923	5030	4464	4038	4482	4781	4506	3961	3219	2459	1808	1352
70.0	774	944	1814	3892	4459	4027	3615	4378	4877	4627	4017	3170	2265	1456	885
75.0	135	240	1000	2741	3370	3049	2719	3319	3727	3579	3163	2530	1777	1047	437
80.0	96.3	151	605	1749	2254	2050	1823	2232	2496	2382	2086	1623	1129	636	254
85.0	59.4	82.7	295	863	1140	1041	926	1133	1262	1200	1048	805	561	311	130
90.0	23.6	25.2	27.5	30.5	27.2	28.0	30.3	29.1	26.1	26.0	30.1	31.7	33.0	33.1	32.0

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:hu
 Test Date:2016-12-27

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

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: FL-B161027-01

MANUFACTURER: Feilong lighting	Address:	
NAME: led street light	TYPE: led street light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.: FL-C161027-01

UNIT: cd

C(DEG) \ γ (DEG)	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295
0.0	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242
5.0	3064	3051	3039	3030	3023	3017	3012	3010	3008	3009	3011	3015	3021	3028	3036
10.0	2904	2885	2869	2858	2849	2841	2835	2832	2832	2834	2839	2847	2857	2869	2883
15.0	2788	2745	2719	2697	2674	2656	2642	2635	2633	2636	2645	2659	2678	2701	2729
20.0	2705	2625	2550	2481	2445	2418	2401	2392	2389	2395	2408	2428	2457	2492	2532
25.0	2572	2472	2383	2302	2233	2187	2166	2152	2147	2154	2170	2197	2234	2278	2347
30.0	2429	2314	2211	2118	2036	1969	1928	1914	1912	1921	1941	1971	2011	2077	2164
35.0	2289	2154	2034	1930	1847	1783	1732	1720	1720	1730	1750	1782	1827	1893	1979
40.0	2146	1993	1869	1769	1690	1633	1592	1572	1566	1572	1588	1616	1658	1719	1801
45.0	2027	1855	1723	1625	1553	1500	1462	1437	1423	1423	1437	1465	1501	1555	1630
50.0	1899	1716	1580	1489	1410	1338	1283	1248	1227	1219	1237	1266	1291	1355	1452
55.0	1767	1561	1385	1258	1194	1096	1002	952	919	890	915	932	963	1055	1173
60.0	1577	1348	1092	912	811	690	509	421	413	377	368	382	439	585	703
65.0	1091	934	721	530	356	269	240	233	222	226	231	219	207	222	315
70.0	636	533	385	197	184	192	222	264	229	234	246	218	187	171	175
75.0	254	246	207	148	149	159	201	291	240	247	255	224	157	137	128
80.0	150	130	122	114	111	116	134	139	139	122	109	110	95.4	87.9	83.0
85.0	89.4	80.5	77.5	73.4	71.4	69.1	69.2	69.7	66.5	60.7	53.3	49.7	43.8	43.9	45.5
90.0	32.7	33.5	35.5	34.7	32.7	30.0	28.2	25.0	20.0	16.9	13.0	13.6	13.9	13.0	11.8

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:hu
 Test Date:2016-12-27

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

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: FL-B161027-01

MANUFACTURER: Feilong lighting	Address:	
NAME: led street light	TYPE: led street light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.: FL-C161027-01

UNIT: cd

γ (DEG)	C(DEG)											
	300	305	310	315	320	325	330	335	340	345	350	355
0.0	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242
5.0	3047	3058	3071	3085	3100	3117	3134	3153	3172	3191	3213	3236
10.0	2898	2915	2936	2961	2983	3009	3037	3073	3108	3146	3186	3228
15.0	2761	2792	2827	2884	2947	3011	3079	3149	3221	3300	3378	3456
20.0	2588	2673	2766	2862	2964	3058	3147	3243	3347	3453	3566	3680
25.0	2438	2541	2657	2784	2919	3059	3208	3317	3449	3593	3744	3898
30.0	2272	2393	2524	2670	2836	3015	3202	3400	3537	3717	3915	4114
35.0	2088	2223	2379	2551	2735	2943	3223	3512	3773	4001	4243	4494
40.0	1909	2044	2211	2424	2708	3017	3360	3713	4049	4322	4591	4872
45.0	1735	1873	2084	2355	2680	3059	3460	3892	4296	4644	4946	5250
50.0	1566	1718	1946	2246	2615	3053	3536	4051	4539	4961	5301	5628
55.0	1274	1473	1760	2109	2523	3019	3380	3663	3924	4105	4203	4303
60.0	838	1100	1479	1851	2023	2209	2456	2698	2907	3013	3001	2961
65.0	370	624	940	1160	1273	1383	1582	1793	1932	1956	1826	1636
70.0	182	282	474	592	621	629	773	936	996	933	672	325
75.0	125	134	173	143	105	132	291	521	625	632	478	241
80.0	80.4	81.9	77.1	71.5	72.1	84.3	178	338	417	428	329	169
85.0	44.9	45.3	44.0	40.8	40.8	46.0	88.7	171	213	222	173	92.7
90.0	10.7	9.90	9.90	10.0	10.2	10.5	11.1	11.7	12.5	13.0	13.7	14.2

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:hu
 Test Date:2016-12-27

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