

# GONIOPHOTOMETERS SYSTEM TEST REPORT

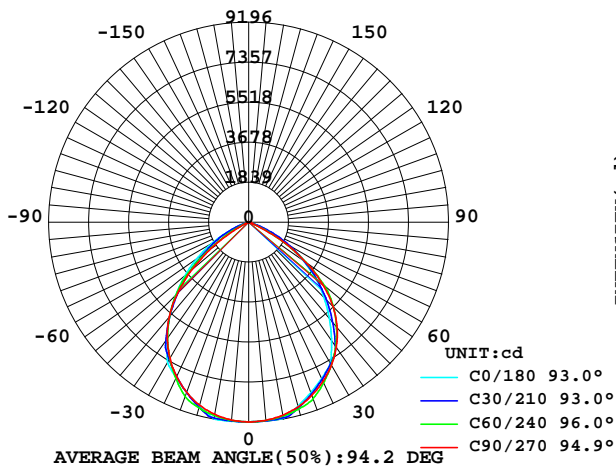
## STREETLIGHT PHOTOMETRIC TEST REPORT

Report number: FL-B171215-02

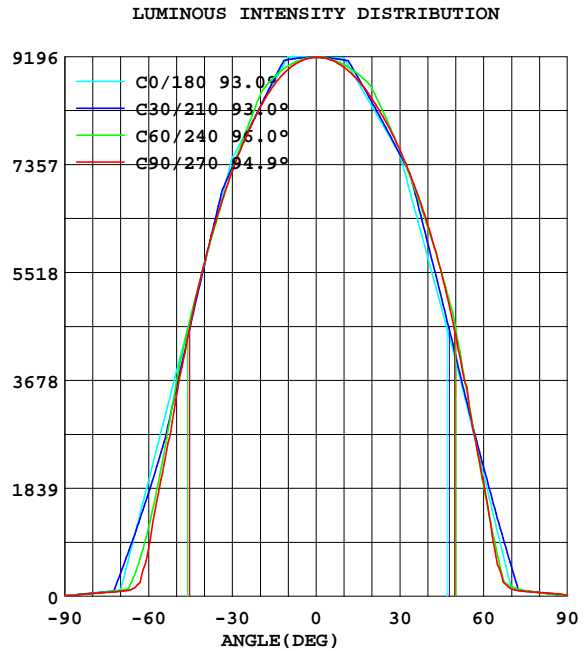
MANUFACTURER: Feilong lighting	Address:	
NAME: FL-YZD-KM3-3-120W	TYPE:LED gas station light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:FL-C171215-02

MODEL:	Philips 3030	I <sub>max</sub> (cd):	9196	Effective Flux(lm):	18039.1
NOMINAL POWER(W):	120	MAXIMUM(C, γ):	0, 10.0	EEI	0.091
RATED VOLTAGE(V):	220	EFFICIENCY(%):	100.0	Voltage(V)	220.6
NOMINAL FLUX(lm):	18457.6	η street_up(%):	0.0	Current(A)	0.555
TEST FLUX(lm):	18458	η street_down(%):	48.1	Power(W)	121.0
LAMPS QUANTITY:	1	η house_up(%)	0.0	Power Factor	0.987
TOTAL FLUX(lm):	18458	η house_down(%):	51.9	EFFICIENCY(lm/W)	152.5

INTENSITY DISTRIBUTION DIAGRAM  
IN C PLANS



INTENSITY DISTRIBUTION DIAGRAM  
IN C PLANS



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-12-15

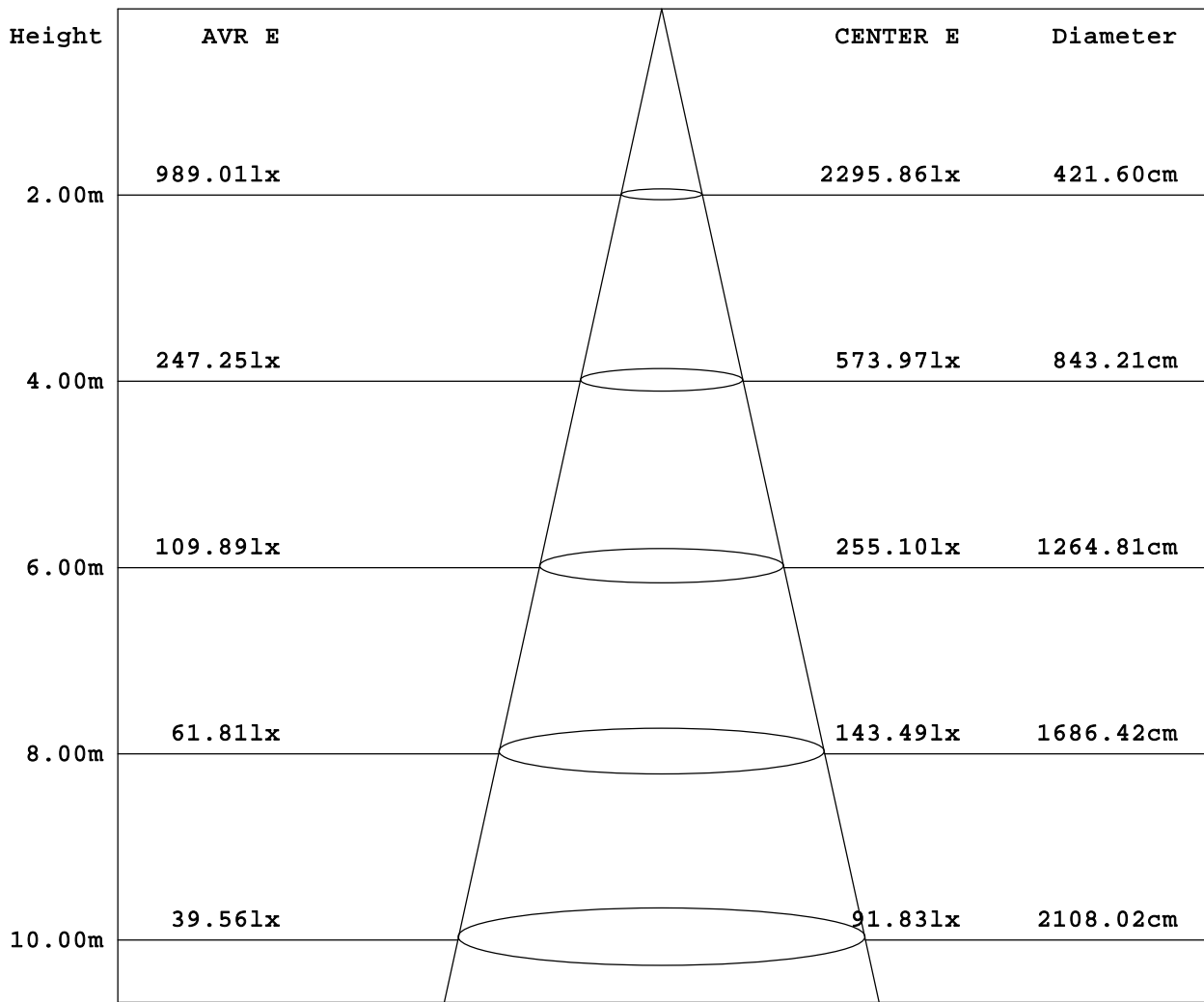
Test Set: 5.0deg/s A-Alpha (TYPE A)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

AVERAGE AND CENTER E Figure

Report number: FL-B171215-02

MANUFACTURER: Feilong lighting	Address:	
NAME: FL-YZD-KM3-3-120W	TYPE:LED gas station light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:FL-C171215-02



Angle: 93.0deg

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-12-15

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-B171215-02

MANUFACTURER: Feilong lighting	Address:	
NAME: FL-YZD-KM3-3-120W	TYPE: LED gas station light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.: FL-C171215-02

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	zone	total
5.0	9190	9160	9130	9150	9177	9162	9145	9167	0- 5	219.2	219.2
10.0	9196	9090	8977	9069	9171	9100	9012	9104	5- 10	652.8	872.1
15.0	8765	8906	8713	8879	8760	8938	8795	8930	10- 15	1063	1935
20.0	8334	8403	8333	8399	8350	8505	8482	8470	15- 20	1421	3357
25.0	7903	7839	7838	7856	7939	8031	8083	7973	20- 25	1719	5075
30.0	7472	7230	7235	7267	7529	7519	7614	7431	25- 30	1950	7025
35.0	6561	6586	6538	6636	6653	6982	7030	6860	30- 35	2093	9118
40.0	5651	5834	5679	5883	5777	6337	6330	6169	35- 40	2113	11231
45.0	4741	4675	4623	4706	4901	5289	5499	5044	40- 45	2010	13241
50.0	3830	3494	3404	3529	4025	4175	4446	3849	45- 50	1781	15022
55.0	2899	2290	2103	2353	3049	2996	3194	2658	50- 55	1435	16457
60.0	1968	1187	802.1	1290	2074	1886	1939	1543	55- 60	1014	17471
65.0	1038	692.5	144.5	756.7	1099	1161	544.3	956.7	60- 65	589.4	18060
70.0	106.9	335.7	84.50	364.3	123.6	591.3	125.0	481.8	65- 70	253.4	18314
75.0	82.55	90.17	65.69	90.77	95.50	129.5	83.05	106.5	70- 75	72.62	18386
80.0	58.20	49.40	48.84	48.11	67.29	60.03	65.25	50.60	75- 80	36.28	18423
85.0	33.84	29.20	23.60	28.77	39.09	35.26	47.70	29.41	80- 85	23.63	18446
90.0	9.500	9.300	14.00	9.700	10.90	11.00	18.45	8.400	85- 90	11.39	18458
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: 25.3 DEG  
 Operators: hu  
 Test Date: 2017-12-15

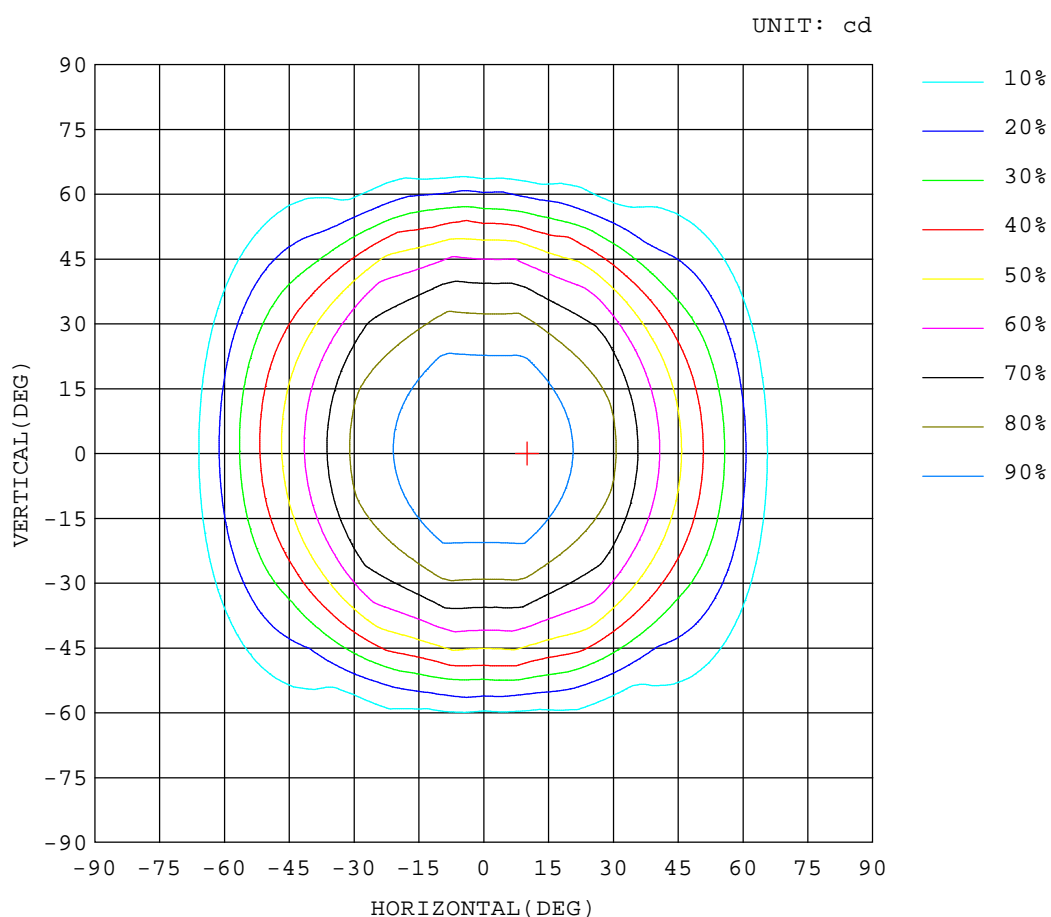
Test Set: 5.0 deg/s A-Alpha (TYPE A)  
 Humidity: 65.0%  
 Test Distance: 10.000 m  
 Remarks:

# GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOCANDELA DIAGRAM

Report number: FL-B171215-02

MANUFACTURER: Feilong lighting	Address:	
NAME: FL-YZD-KM3-3-120W	TYPE:LED gas station light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:FL-C171215-02



Test System:HOP00 HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-12-15

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

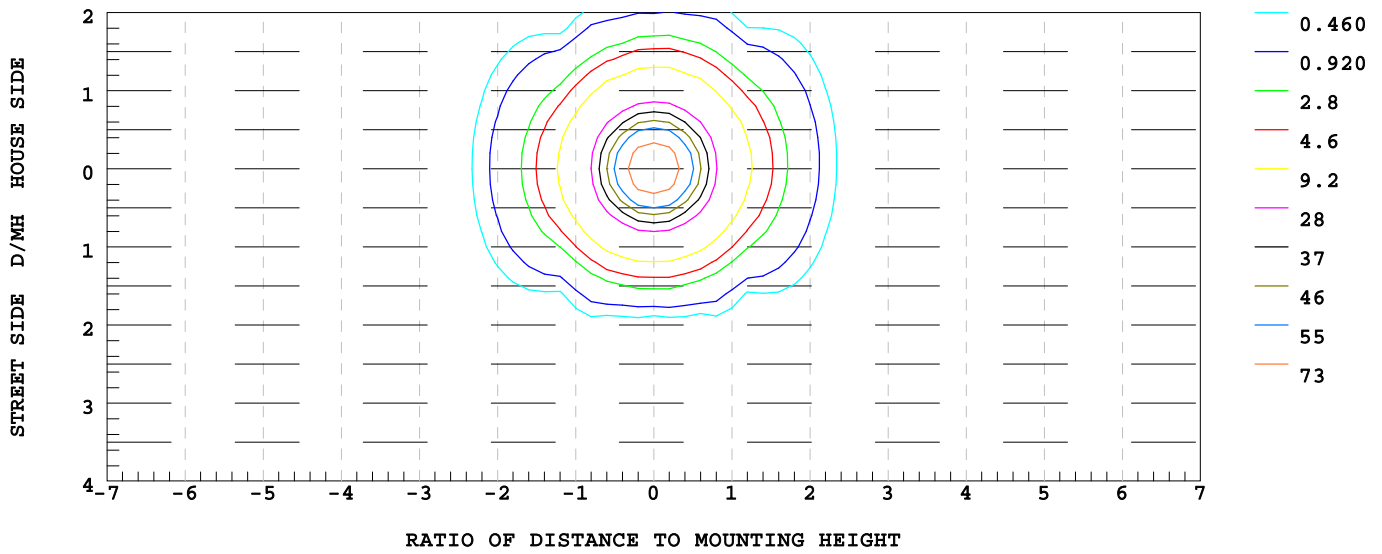
GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number: FL-B171215-02

MANUFACTURER: Feilong lighting	Address:	
NAME: FL-YZD-KM3-3-120W	TYPE:LED gas station light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:FL-C171215-02

ILLUMINANCE AT MH=10 m, Enadir = 91.83 lx



Test System:HOPPO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-12-15

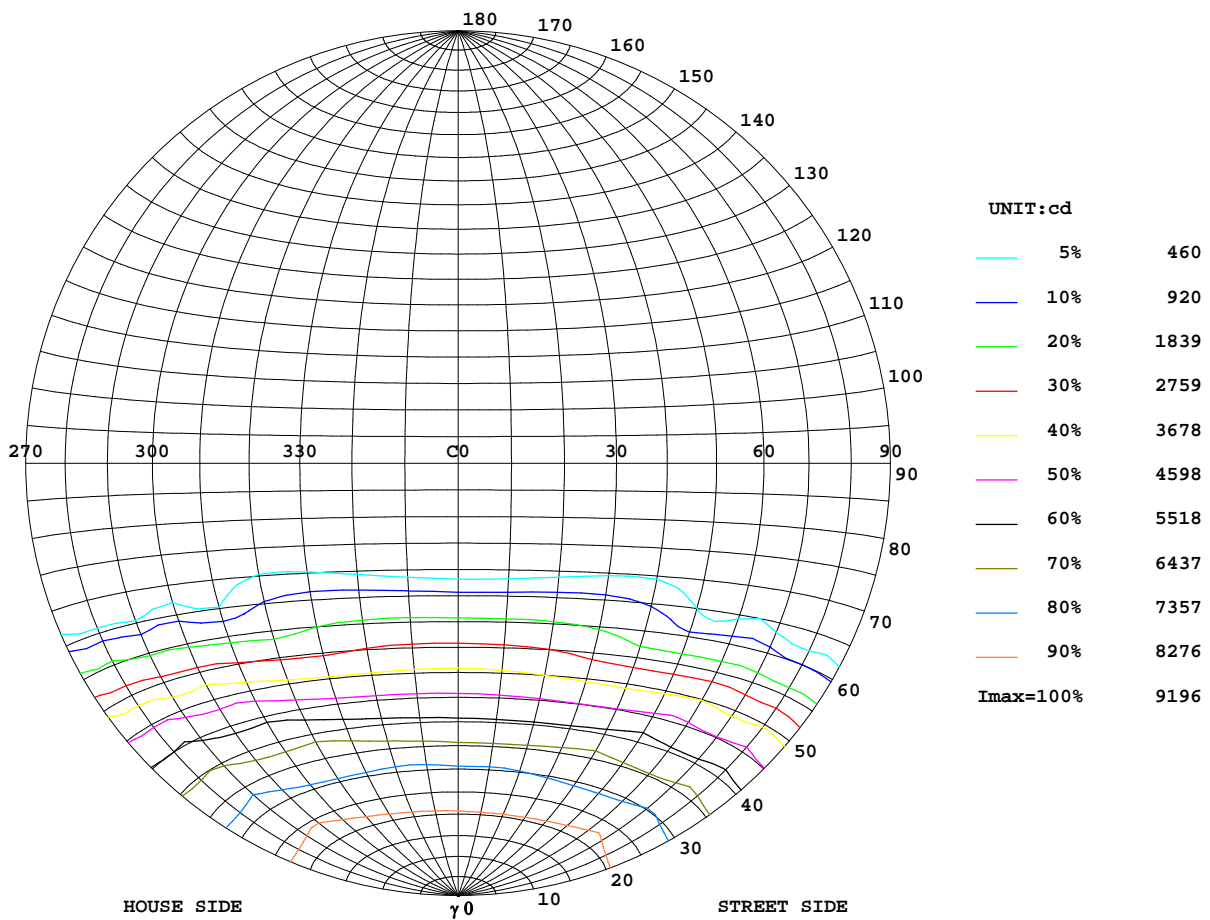
Test Set: 5.0deg/s A-Alpha (TYPE A)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number: FL-B171215-02

MANUFACTURER: Feilong lighting	Address:	
NAME: FL-YZD-KM3-3-120W	TYPE:LED gas station light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:FL-C171215-02



Test System:HOP00 HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-12-15

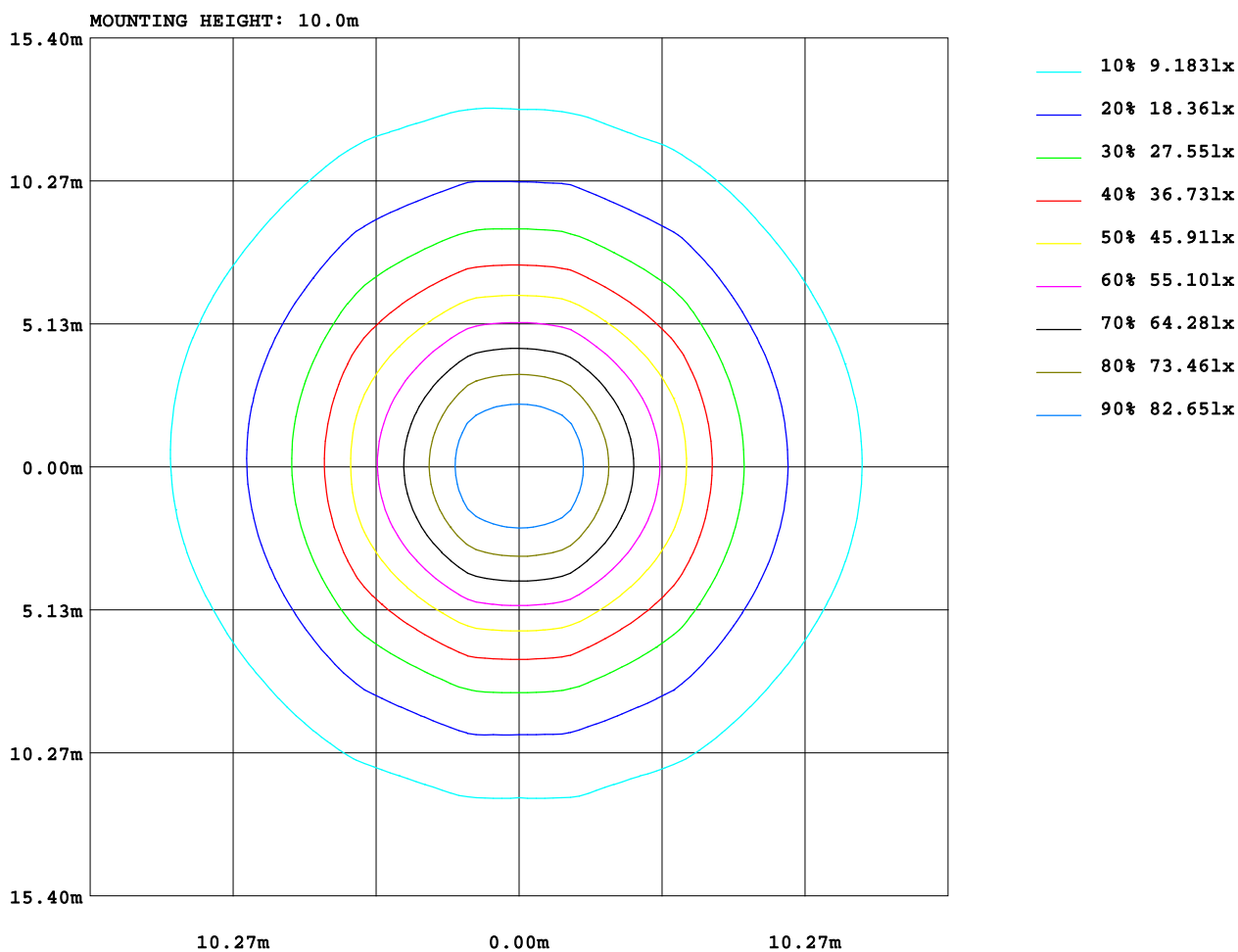
Test Set: 5.0deg/s A-Alpha (TYPE A)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

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Report number: FL-B171215-02

MANUFACTURER: Feilong lighting	Address:	
NAME: FL-YZD-KM3-3-120W	TYPE:LED gas station light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:FL-C171215-02



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-12-15

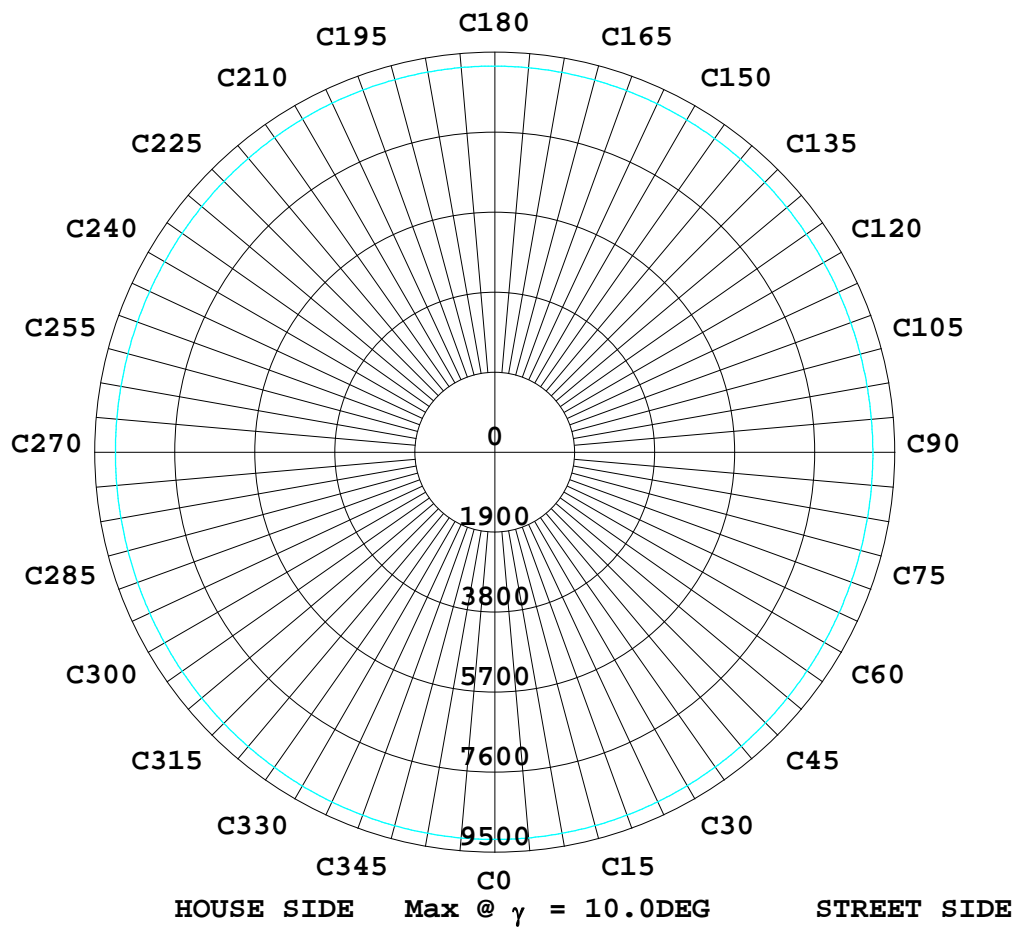
Test Set: 5.0deg/s A-Alpha (TYPE A)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number: FL-B171215-02

MANUFACTURER: Feilong lighting	Address:	
NAME: FL-YZD-KM3-3-120W	TYPE:LED gas station light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:FL-C171215-02



Test System:HOP00 HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-12-15

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-B171215-02

MANUFACTURER: Feilong lighting	Address:	
NAME: FL-YZD-KM3-3-120W	TYPE:LED gas station light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:FL-C171215-02

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.04	0.15	0.29	0.45	0.61	0.77	0.94	1.01	1.23	1.14	0.86	0.74	0.65	0.50	0.37	0.24	0.12	0.03	10.1	0.00
90	0.06	0.26	0.57	0.97	1.39	2.17	2.39	2.77	2.72	2.53	2.38	2.18	1.78	1.16	0.82	0.49	0.22	0.05	24.9	0.00
80	0.07	0.37	0.85	1.66	7.17	10.7	13.6	21.8	24.4	22.2	17.0	11.0	7.99	5.85	1.40	0.72	0.31	0.06	148	61.4
70	0.09	0.48	1.12	7.36	24.1	37.0	62.0	86.4	98.5	94.8	77.8	54.2	30.7	20.1	6.28	0.94	0.40	0.07	603	567
60	0.10	0.57	2.26	19.6	45.9	77.5	120	150	167	165	143	112	69.0	39.1	17.2	1.94	0.48	0.08	1130	1116
50	0.11	0.65	5.69	32.2	68.9	114	164	195	213	212	191	158	107	61.0	28.7	5.07	0.55	0.09	1557	1547
40	0.12	0.72	9.75	42.8	87.7	141	192	226	245	244	224	189	135	81.0	39.1	8.89	0.60	0.10	1868	1860
30	0.13	0.76	13.0	50.2	100	158	210	246	266	266	245	208	154	94.8	46.6	12.0	0.64	0.11	2073	2065
20	0.13	0.78	14.7	53.6	106	165	218	256	277	277	256	217	163	102	50.6	13.8	0.67	0.11	2170	2164
10	0.13	0.77	14.4	52.6	104	164	217	255	276	276	256	216	162	101	50.4	13.7	0.67	0.11	2160	2153
0	0.12	0.73	12.4	47.4	95.1	153	206	243	263	264	243	205	151	93.1	46.0	11.9	0.64	0.11	2035	2028
-10	0.12	0.68	9.04	38.8	79.2	132	183	218	237	237	217	182	130	78.1	38.0	8.73	0.60	0.10	1790	1782
-20	0.11	0.61	5.11	27.9	57.8	100	148	179	198	197	178	147	99.2	57.1	27.4	4.95	0.54	0.09	1428	1417
-30	0.10	0.52	1.98	16.3	35.4	61.1	96.6	123	140	140	123	97.2	59.7	34.6	15.9	1.89	0.47	0.08	948	932
-40	0.08	0.43	1.00	5.89	17.3	23.1	40.0	54.7	64.6	64.1	55.7	40.6	21.8	16.4	5.72	0.94	0.40	0.07	413	348
-50	0.07	0.34	0.76	1.37	4.74	4.93	6.91	7.51	7.87	7.99	8.02	6.89	4.81	4.49	1.34	0.71	0.31	0.06	69.1	0.00
-60	0.05	0.24	0.51	0.81	1.09	1.50	1.81	1.87	1.96	1.98	1.93	1.78	1.53	1.12	0.80	0.48	0.22	0.05	19.7	0.00
-70	0.04	0.14	0.26	0.38	0.50	0.61	0.65	0.69	0.75	0.80	0.74	0.72	0.64	0.50	0.38	0.24	0.12	0.03	8.19	0.00
-80	0.04	0.14	0.26	0.38	0.50	0.61	0.65	0.69	0.75	0.80	0.74	0.72	0.64	0.50	0.38	0.24	0.12	0.03	8.19	0.00
-90	0.04	0.14	0.26	0.38	0.50	0.61	0.65	0.69	0.75	0.80	0.74	0.72	0.64	0.50	0.38	0.24	0.12	0.03	8.19	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	1.64	9.17	93.8	401	837	1346	1884	2268	2485	2474	2241	1849	1300	792	378	87.8	7.95	1.42	18458	
Φ a	0.00	0.00	58.8	373	807	1315	1858	2243	2464	2453	2215	1823	1269	761	349	52.6	0.00	0.00		18039

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-12-15

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

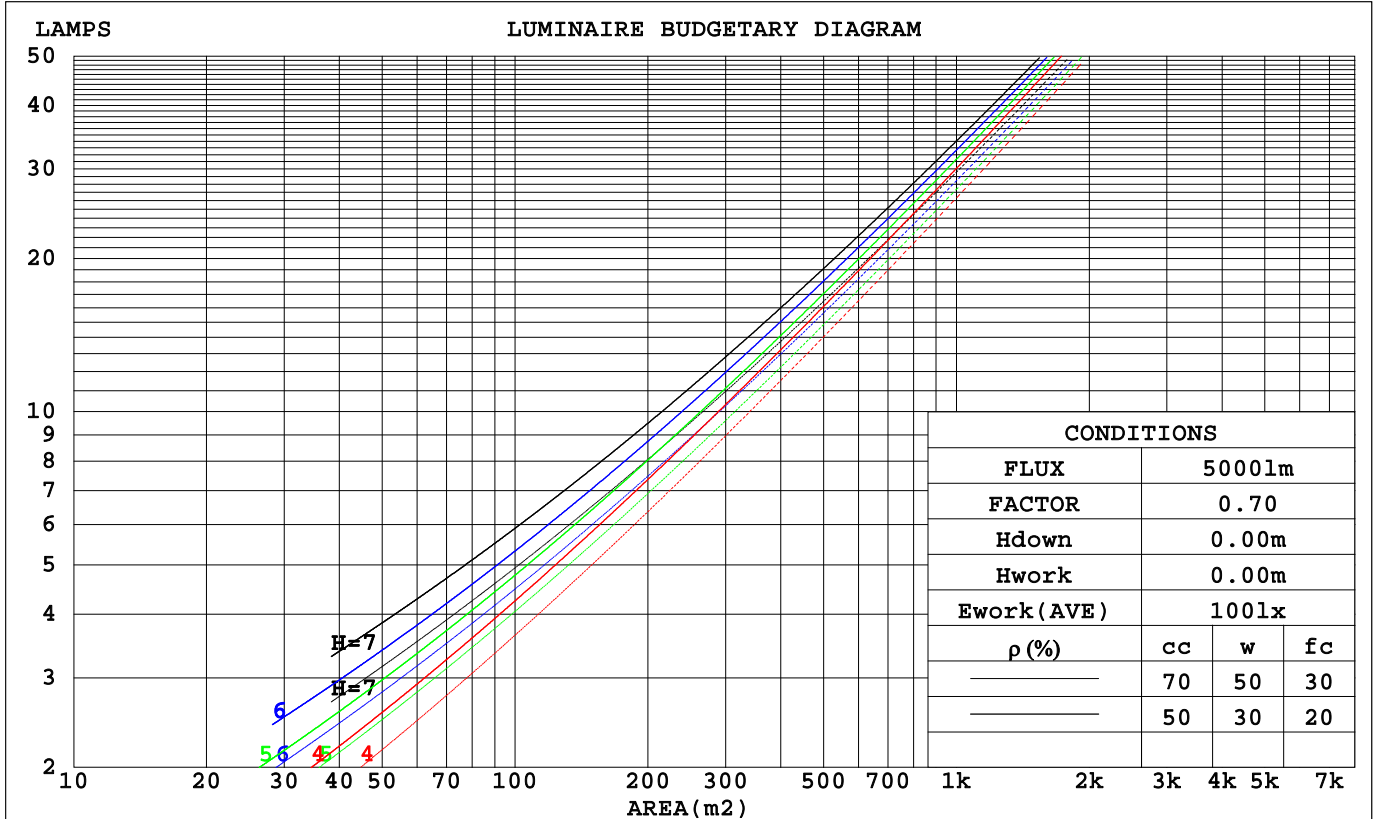
GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number: FL-B171215-02

MANUFACTURER: Feilong lighting				Address:			
NAME: FL-YZD-KM3-3-120W				TYPE:LED gas station light		WEIGHT:	
SPECIFICATION:				DIMENSION:		SERIAL No.:FL-C171215-02	

ρcc	80%			70%			50%			30%			10%			0														
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%															
ρw	20%			20%			20%			20%			20%			0														
ρfc	20%			20%			20%			20%			20%																	
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	1.08	1.05	1.02	1.06	1.03	1.00	1.02	.99	.97	.98	.96	.94	.94	.93	.91	.89														
2.0	.97	.92	.87	.95	.90	.86	.92	.88	.84	.89	.85	.82	.86	.83	.80	.79														
3.0	.87	.81	.75	.86	.80	.75	.83	.78	.73	.80	.76	.72	.78	.74	.71	.69														
4.0	.79	.71	.66	.77	.71	.65	.75	.69	.64	.73	.68	.64	.71	.66	.63	.61														
5.0	.71	.64	.58	.70	.63	.58	.68	.62	.57	.66	.61	.56	.65	.60	.56	.54														
6.0	.65	.57	.51	.64	.57	.51	.62	.56	.51	.61	.55	.50	.59	.54	.50	.48														
7.0	.59	.51	.46	.59	.51	.46	.57	.50	.46	.56	.50	.45	.54	.49	.45	.43														
8.0	.54	.47	.41	.54	.46	.41	.53	.46	.41	.51	.45	.41	.50	.45	.41	.39														
9.0	.50	.43	.38	.50	.42	.38	.49	.42	.37	.48	.42	.37	.47	.41	.37	.35														
10.0	.47	.39	.34	.46	.39	.34	.45	.39	.34	.44	.38	.34	.43	.38	.34	.32														



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-12-15

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-B171215-02

MANUFACTURER: Feilong lighting	Address:	
NAME: FL-YZD-KM3-3-120W	TYPE:LED gas station light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:FL-C171215-02

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	.233	.133	.042	.226	.129	.041	.214	.122	.039	.202	.116	.037	.191	.111	.036	
2.0	.229	.126	.039	.223	.123	.038	.212	.118	.037	.202	.113	.035	.192	.109	.034	
3.0	.220	.117	.035	.214	.115	.035	.205	.111	.034	.196	.107	.033	.187	.104	.032	
4.0	.209	.108	.032	.204	.107	.032	.195	.104	.031	.187	.101	.030	.180	.098	.030	
5.0	.197	.101	.029	.193	.099	.029	.186	.097	.028	.179	.094	.028	.172	.092	.028	
6.0	.187	.094	.027	.183	.092	.027	.176	.090	.026	.170	.088	.026	.164	.086	.026	
7.0	.176	.087	.025	.173	.086	.025	.167	.084	.024	.161	.083	.024	.156	.081	.024	
8.0	.167	.082	.023	.164	.081	.023	.159	.079	.023	.153	.078	.022	.149	.076	.022	
9.0	.158	.076	.021	.156	.076	.021	.151	.074	.021	.146	.073	.021	.142	.072	.021	
10.0	.150	.072	.020	.148	.071	.020	.143	.070	.020	.139	.069	.020	.135	.068	.020	

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	.175	.157	.140	.150	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.164	.132	.106	.140	.114	.091	.096	.079	.064	.055	.046	.037	.018	.015	.012	
3.0	.155	.114	.081	.133	.098	.071	.091	.068	.050	.053	.040	.029	.017	.013	.010	
4.0	.147	.100	.064	.126	.086	.056	.087	.060	.039	.050	.035	.023	.016	.011	.008	
5.0	.140	.089	.052	.120	.077	.045	.083	.054	.032	.048	.032	.019	.015	.010	.006	
6.0	.133	.081	.043	.114	.070	.037	.079	.049	.027	.046	.029	.016	.015	.009	.005	
7.0	.127	.074	.036	.109	.064	.032	.075	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.121	.068	.031	.104	.059	.027	.072	.041	.019	.042	.024	.011	.014	.008	.004	
9.0	.116	.063	.027	.100	.055	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.111	.059	.024	.095	.051	.021	.066	.036	.015	.039	.021	.009	.013	.007	.003	

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-12-15

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-B171215-02

MANUFACTURER: Feilong lighting					Address:					
NAME: FL-YZD-KM3-3-120W					TYPE:LED gas station light			WEIGHT:		
SPECIFICATION:					DIMENSION:			SERIAL No.:FL-C171215-02		
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	25.8	27.1	26.0	27.3	27.4	24.6	25.9	24.9	26.1	26.3
3H	25.8	27.0	26.1	27.2	27.5	24.5	25.6	24.7	25.9	26.1
4H	25.7	26.9	26.0	27.1	27.3	24.4	25.5	24.7	25.7	26.0
6H	25.6	26.7	26.0	27.0	27.2	24.3	25.3	24.6	25.6	25.8
8H	25.6	26.6	25.9	26.9	27.2	24.2	25.2	24.6	25.5	25.8
12H	25.6	26.5	25.9	26.8	27.1	24.2	25.2	24.5	25.4	25.7
4H 2H	25.7	26.9	26.0	27.1	27.3	24.7	25.8	25.0	26.0	26.3
3H	25.8	26.8	26.2	27.1	27.4	24.5	25.5	24.8	25.7	26.0
4H	25.7	26.6	26.1	26.9	27.2	24.4	25.3	24.8	25.6	25.9
6H	25.7	26.4	26.1	26.8	27.1	24.3	25.1	24.7	25.4	25.8
8H	25.6	26.3	26.0	26.7	27.1	24.3	25.0	24.7	25.3	25.7
12H	25.6	26.2	26.0	26.6	27.0	24.2	24.9	24.7	25.3	25.7
8H 4H	25.6	26.3	26.0	26.7	27.1	24.3	25.0	24.7	25.4	25.7
6H	25.5	26.1	26.0	26.5	26.9	24.2	24.8	24.7	25.2	25.6
8H	25.5	26.0	26.0	26.4	26.9	24.2	24.7	24.6	25.1	25.6
12H	25.5	25.9	26.0	26.4	26.8	24.2	24.6	24.6	25.0	25.5
12H 4H	25.6	26.2	26.0	26.6	27.0	24.3	24.9	24.7	25.3	25.7
6H	25.5	26.0	26.0	26.4	26.9	24.2	24.7	24.6	25.1	25.6
8H	25.5	25.9	25.9	26.3	26.8	24.2	24.6	24.6	25.0	25.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 1.2					+ 1.4 / - 2.3				
1.5H	+ 0.4 / - 0.6					+ 0.7 / - 0.9				
2.0H	+ 1.6 / - 2.0					+ 3.0 / - 6.1				

CIE Pub.117 Corrected 18458 lm Total Lamp Luminous Flux.(8log(F/F0) = 10.1)

Test System:HOPPOO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-12-15

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-B171215-02

MANUFACTURER: Feilong lighting	Address:	
NAME: FL-YZD-KM3-3-120W	TYPE:LED gas station light	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:FL-C171215-02

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	66	56	50	66	56	50	65	56	50	44
0.80	77	67	61	76	67	61	74	66	60	55
1.00	85	76	70	84	76	70	82	77	70	64
1.25	92	84	78	91	83	78	88	82	77	71
1.50	96	89	83	95	88	83	92	86	82	76
2.00	102	95	91	100	94	90	97	92	88	82
2.50	105	99	94	103	97	93	99	95	91	84
3.00	107	102	98	105	101	97	101	98	95	87
4.00	110	106	102	108	104	101	104	101	98	90
5.00	112	108	105	109	106	103	105	103	100	92
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

Test System:HOPPO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-12-15

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-B171215-02

<b>MANUFACTURER:</b> Feilong lighting	<b>Address:</b>	
<b>NAME:</b> FL-YZD-KM3-3-120W	<b>TYPE:</b> LED gas station light	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b> FL-C171215-02

UNIT: cd

γ (DEG)	C (DEG)														
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
0.0	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183
5.0	9190	9188	9187	9185	9182	9178	9174	9171	9166	9160	9155	9151	9146	9142	9138
10.0	9196	9194	9189	9182	9171	9158	9144	9126	9108	9090	9071	9053	9037	9022	9007
15.0	8765	8764	8767	8773	8783	8796	8815	8840	8870	8906	8929	8886	8845	8810	8780
20.0	8334	8329	8327	8327	8328	8333	8342	8357	8374	8403	8436	8483	8538	8503	8441
25.0	7903	7894	7883	7871	7860	7849	7839	7835	7833	7839	7855	7889	7934	7999	8006
30.0	7472	7456	7436	7410	7379	7346	7311	7278	7250	7230	7222	7231	7258	7307	7395
35.0	6561	6553	6551	6559	6576	6607	6649	6701	6641	6586	6544	6516	6498	6527	6591
40.0	5651	5639	5629	5622	5624	5624	5639	5680	5743	5834	5801	5721	5667	5651	5688
45.0	4741	4726	4706	4680	4657	4625	4606	4609	4628	4675	4767	4865	4738	4651	4632
50.0	3830	3812	3779	3732	3678	3610	3552	3510	3481	3494	3523	3584	3641	3530	3421
55.0	2899	2886	2862	2824	2764	2669	2536	2393	2320	2290	2289	2292	2296	2331	2228
60.0	1968	1962	1953	1944	1907	1851	1760	1621	1434	1187	1098	1115	1168	1209	1129
65.0	1038	1039	1050	1068	1078	1076	1048	983	867	693	461	235	368	460	289
70.0	107	118	152	206	272	339	396	424	408	336	235	118	104	108	109
75.0	82.5	81.6	79.8	78.1	76.6	75.3	74.5	73.9	71.8	90.1	87.8	75.7	73.9	71.2	67.0
80.0	58.2	57.6	56.3	55.2	54.2	53.2	52.7	52.1	50.5	49.4	49.1	49.5	49.7	48.0	44.6
85.0	33.8	33.5	33.0	32.3	31.8	31.3	31.0	30.6	29.7	29.2	29.1	29.2	29.1	27.5	26.4
90.0	9.50	9.60	9.70	9.60	9.60	9.50	9.50	9.30	9.30	9.30	9.20	9.30	9.09	9.09	9.09

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-12-15

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-B171215-02

<b>MANUFACTURER:</b> Feilong lighting	<b>Address:</b>	
<b>NAME:</b> FL-YZD-KM3-3-120W	<b>TYPE:</b> LED gas station light	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b> FL-C171215-02

UNIT: cd

γ (DEG)	C(DEG)														
	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145
0.0	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183
5.0	9135	9133	9131	9130	9130	9130	9131	9133	9135	9138	9142	9146	9150	9154	9158
10.0	8995	8986	8980	8977	8977	8980	8987	8996	9008	9020	9035	9051	9069	9084	9100
15.0	8752	8731	8718	8713	8715	8725	8743	8768	8797	8831	8862	8900	8879	8845	8818
20.0	8394	8361	8341	8333	8339	8357	8388	8432	8488	8522	8472	8427	8399	8374	8357
25.0	7936	7880	7847	7838	7850	7884	7939	8006	8000	7938	7898	7869	7856	7854	7858
30.0	7379	7297	7249	7235	7255	7309	7395	7413	7327	7283	7258	7254	7267	7291	7323
35.0	6696	6612	6553	6538	6567	6639	6733	6620	6555	6524	6549	6584	6636	6699	6764
40.0	5774	5803	5706	5679	5723	5837	5807	5708	5660	5676	5737	5833	5883	5796	5740
45.0	4695	4811	4667	4623	4683	4848	4712	4638	4628	4706	4844	4780	4706	4678	4652
50.0	3436	3592	3474	3404	3482	3544	3433	3417	3483	3610	3566	3541	3529	3514	3553
55.0	2160	2180	2161	2103	2208	2214	2115	2194	2271	2263	2316	2333	2353	2378	2442
60.0	942	923	892	802	928	958	904	1063	1188	1139	1111	1170	1290	1492	1647
65.0	202	190	155	145	174	159	171	312	430	378	226	503	757	918	1012
70.0	104	94.0	80.6	84.5	91.0	82.3	86.9	103	119	115	127	216	364	436	437
75.0	66.1	69.2	63.0	65.6	66.7	58.9	64.8	71.2	74.1	76.6	78.3	85.0	90.7	70.2	73.9
80.0	42.7	44.6	50.3	48.8	45.3	46.7	45.8	43.5	43.3	45.1	46.9	47.5	48.1	49.7	51.9
85.0	25.8	24.7	25.1	23.6	24.1	22.3	21.6	23.0	24.4	26.6	27.9	28.4	28.7	29.6	30.7
90.0	9.09	9.00	8.90	14.0	8.70	8.80	9.00	9.09	9.40	9.40	9.50	9.60	9.70	10.0	10.0

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-12-15

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-B171215-02

<b>MANUFACTURER:</b> Feilong lighting	<b>Address:</b>	
<b>NAME:</b> FL-YZD-KM3-3-120W	<b>TYPE:</b> LED gas station light	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b> FL-C171215-02

UNIT: cd

γ (DEG)	C(DEG)														
	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220
0.0	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183
5.0	9162	9165	9168	9172	9174	9176	9177	9177	9177	9176	9175	9173	9170	9168	9165
10.0	9117	9131	9143	9153	9161	9168	9171	9172	9169	9165	9158	9149	9139	9126	9113
15.0	8798	8781	8771	8762	8758	8757	8760	8766	8774	8786	8801	8820	8842	8869	8900
20.0	8344	8338	8336	8337	8339	8343	8350	8357	8366	8377	8389	8403	8421	8444	8472
25.0	7864	7876	7888	7902	7916	7928	7939	7949	7956	7963	7969	7975	7984	7995	8010
30.0	7359	7395	7430	7462	7490	7511	7529	7540	7546	7546	7543	7538	7532	7526	7517
35.0	6712	6668	6642	6628	6625	6635	6653	6677	6710	6752	6805	6869	6952	7031	7004
40.0	5695	5686	5687	5702	5721	5747	5777	5806	5839	5873	5914	5962	6018	6101	6205
45.0	4653	4680	4723	4767	4814	4858	4901	4936	4967	4991	5013	5036	5069	5121	5179
50.0	3603	3648	3738	3822	3900	3967	4025	4066	4091	4105	4106	4094	4100	4102	4119
55.0	2558	2697	2812	2892	2956	3005	3049	3087	3117	3141	3151	3145	3118	3046	3001
60.0	1786	1880	1939	1987	2018	2045	2074	2104	2136	2168	2191	2211	2200	2145	2041
65.0	1072	1096	1097	1094	1088	1088	1099	1122	1156	1200	1249	1299	1323	1320	1272
70.0	406	347	280	217	165	133	124	139	178	240	320	412	502	577	617
75.0	77.8	79.8	81.9	84.7	88.5	92.4	95.5	97.0	96.1	94.6	92.4	90.6	89.7	89.7	89.1
80.0	54.8	56.4	58.0	59.9	62.5	65.2	67.2	68.3	67.7	66.6	65.1	63.8	63.5	63.3	62.5
85.0	32.4	33.3	34.2	35.3	36.7	38.1	39.0	39.6	39.3	38.8	38.0	37.3	37.3	37.1	36.3
90.0	10.3	10.4	10.5	10.8	10.9	11.0	10.9	11.0	11.0	11.1	11.1	11.1	11.1	11.0	11.0

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-12-15

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-B171215-02

<b>MANUFACTURER:</b> Feilong lighting	<b>Address:</b>	
<b>NAME:</b> FL-YZD-KM3-3-120W	<b>TYPE:</b> LED gas station light	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b> FL-C171215-02

UNIT: cd

γ (DEG)	C(DEG)														
	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295
0.0	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183
5.0	9162	9159	9156	9153	9150	9148	9146	9145	9145	9145	9145	9146	9148	9150	9153
10.0	9100	9084	9070	9057	9046	9034	9025	9018	9014	9012	9013	9017	9024	9033	9045
15.0	8938	8964	8931	8901	8871	8844	8824	8809	8799	8795	8796	8803	8816	8835	8860
20.0	8505	8547	8593	8651	8627	8577	8538	8509	8491	8482	8484	8497	8520	8554	8601
25.0	8031	8059	8102	8155	8224	8239	8181	8131	8098	8083	8086	8107	8148	8197	8175
30.0	7519	7532	7560	7602	7662	7751	7743	7677	7634	7614	7618	7646	7700	7693	7590
35.0	6982	6967	6967	6986	7023	7097	7202	7121	7058	7030	7037	7080	7139	7011	6919
40.0	6337	6355	6313	6284	6297	6351	6449	6478	6375	6330	6343	6414	6350	6219	6140
45.0	5289	5426	5591	5509	5465	5479	5562	5698	5564	5499	5510	5597	5410	5283	5234
50.0	4175	4252	4395	4564	4509	4453	4489	4604	4540	4446	4468	4483	4280	4268	4194
55.0	2996	3048	3114	3219	3349	3278	3263	3448	3375	3194	3237	3157	3008	2970	2995
60.0	1886	1802	1818	1881	1985	2098	2002	1991	2070	1939	1981	1804	1733	1762	1692
65.0	1161	964	679	706	884	949	704	685	683	544	606	570	531	709	743
70.0	591	479	317	165	176	237	178	165	139	125	134	127	132	176	161
75.0	130	162	127	97.9	94.4	90.9	94.0	94.8	82.3	83.0	82.9	73.4	80.2	86.7	89.0
80.0	60.0	59.4	59.8	61.5	63.2	61.5	57.1	58.2	66.4	65.2	59.6	57.2	55.0	52.7	53.3
85.0	35.2	34.9	35.3	36.2	36.8	36.1	35.0	35.4	40.1	47.7	40.7	32.5	28.3	27.7	28.6
90.0	11.0	11.0	11.1	11.2	11.5	12.1	12.6	13.0	12.3	18.4	8.20	8.50	8.40	8.29	8.20

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-12-15

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-B171215-02

<b>MANUFACTURER:</b> Feilong lighting	<b>Address:</b>	
<b>NAME:</b> FL-YZD-KM3-3-120W	<b>TYPE:</b> LED gas station light	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b> FL-C171215-02

UNIT: cd

C(DEG) γ (DEG)	300	305	310	315	320	325	330	335	340	345	350	355
0.0	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183	9183
5.0	9156	9160	9164	9167	9172	9175	9179	9182	9184	9187	9188	9189
10.0	9057	9071	9087	9104	9119	9135	9151	9163	9174	9183	9190	9194
15.0	8890	8919	8955	8930	8892	8861	8835	8814	8798	8784	8774	8767
20.0	8630	8565	8514	8470	8438	8411	8390	8374	8362	8353	8344	8338
25.0	8100	8045	8000	7973	7950	7936	7927	7922	7920	7917	7914	7909
30.0	7520	7474	7442	7431	7431	7437	7451	7461	7471	7479	7483	7480
35.0	6869	6844	6843	6860	6885	6919	6828	6749	6685	6637	6601	6577
40.0	6111	6128	6179	6169	6026	5913	5832	5775	5734	5702	5680	5664
45.0	5260	5337	5175	5044	4930	4854	4798	4782	4768	4760	4756	4749
50.0	4234	4091	3954	3849	3790	3767	3752	3766	3792	3811	3827	3834
55.0	2914	2807	2731	2658	2621	2629	2721	2799	2863	2889	2902	2904
60.0	1600	1563	1519	1543	1702	1831	1913	1952	1984	1987	1981	1975
65.0	537	476	770	957	1059	1122	1150	1143	1122	1093	1066	1046
70.0	141	199	372	482	506	482	430	359	280	209	154	119
75.0	90.4	95.3	125	107	73.4	75.8	76.9	76.8	77.0	78.2	80.3	81.7
80.0	52.0	51.9	50.6	50.6	51.5	53.2	54.1	54.2	54.4	55.2	56.7	57.6
85.0	29.8	29.9	29.5	29.4	29.7	30.9	31.5	31.7	31.8	32.2	33.1	33.5
90.0	8.20	8.20	8.29	8.40	8.60	8.80	9.00	9.20	9.30	9.40	9.60	9.50

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-12-15

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