

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

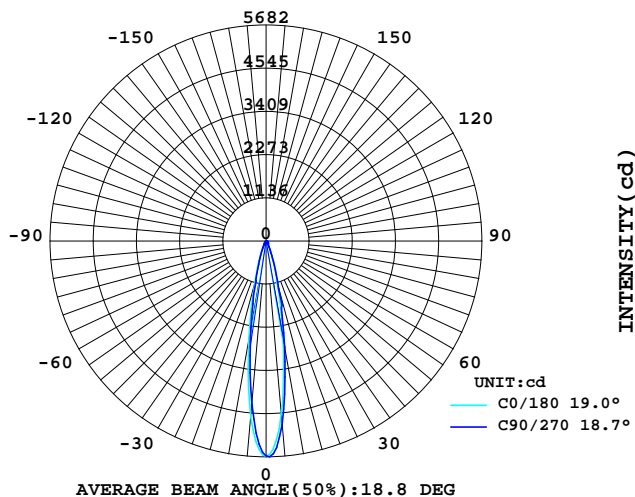
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

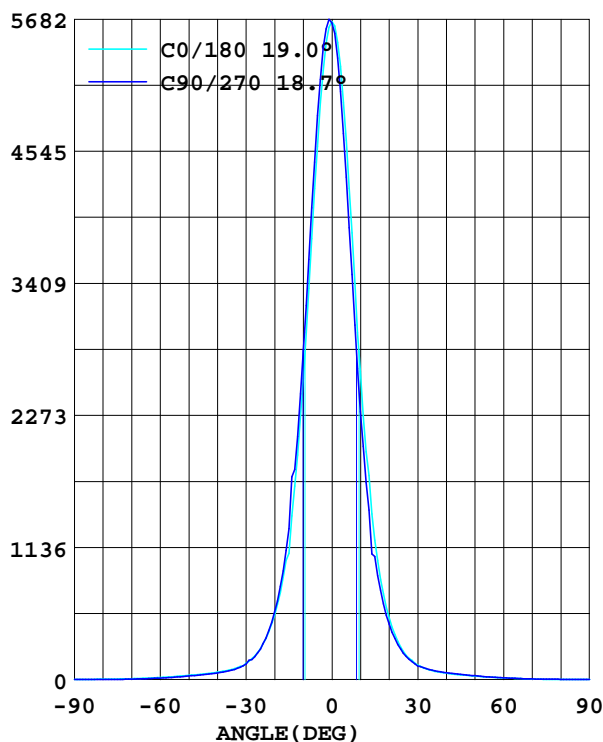
MANUFACTURER:Brilliance LED, LLC			
Address:			
NAME: PAR36 11W 3000K 15 Degree		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	5682	S/MH(C0/180)	0.32
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	0.35
NOMINAL POWER(W)	0	TOTAL FLUX(lm)	972.82	Voltage(V)	12.15
RATED VOLTAGE(V)	12	EFFICIENCY(lm/W)		Current(A)	0
NOMINAL FLUX(lm)	972.8	η up(%)	1.1	Power(W)	0
LAMPS QUANTITY	1	η down(%)	98.9	Power Factor(PF)	0
TEST VOLTAGE(V)	12.1	Effective Flux(lm)	710.0	EEI	0.000

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:2020年05月31日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

Color Temperature Data List

Report number:

MANUFACTURER:			
Address:			
NAME: PAR36-11W-3000K-15度		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 样

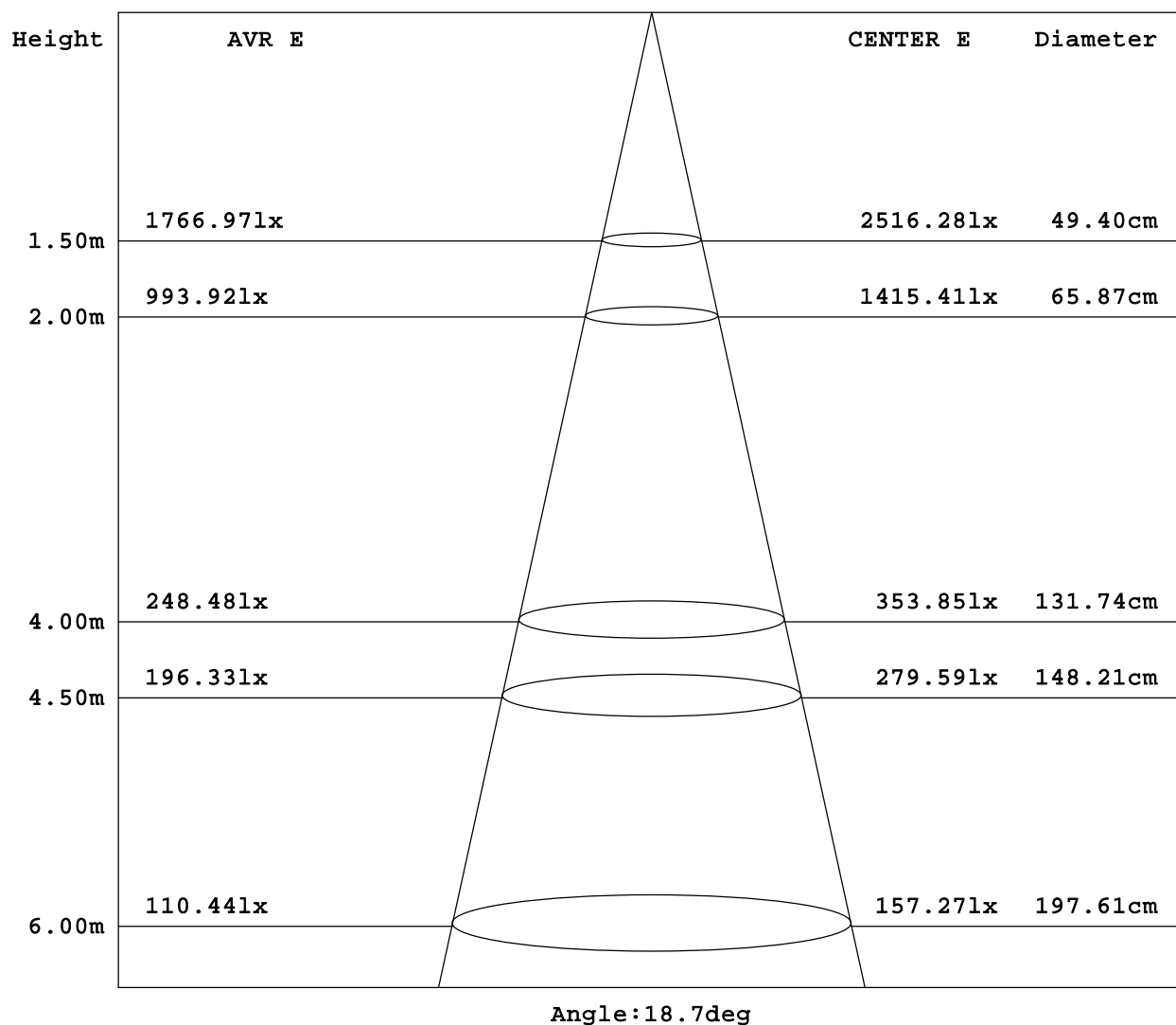
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Temperature:25.3DEG
Operators:
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AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:			
Address:			
NAME: PAR36-11W-3000K-15度		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 样



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Temperature:25.3DEG
Operators:
Test Date:2020年05月31日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
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HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: PAR36-11W-3000K-15度		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 样

γ	C0	C90	C180	C270					γ	zone	total
5.0	4588	4851	4639	4322					0- 5	122.1	122.1
10.0	2590	2840	2650	2303					5- 10	248.6	370.8
15.0	1087	1298	1199	1059					10- 15	211.5	582.3
20.0	552.2	581.8	533.4	477.6					15- 20	132.3	714.6
25.0	265.6	262.9	242.9	227.4					20- 25	77.40	792.0
30.0	141.4	134.6	125.3	116.3					25- 30	46.00	838.1
35.0	88.00	81.27	77.82	80.70					30- 35	30.12	868.2
40.0	63.68	57.47	55.36	58.94					35- 40	23.01	891.2
45.0	48.57	43.52	41.08	44.99					40- 45	18.98	910.2
50.0	36.35	31.16	30.20	33.15					45- 50	15.50	925.7
55.0	25.79	20.60	21.44	22.52					50- 55	11.92	937.6
60.0	18.17	13.69	14.97	16.06					55- 60	8.778	946.4
65.0	12.60	7.872	9.536	10.30					60- 65	6.209	952.6
70.0	8.192	4.352	4.736	5.952					65- 70	3.977	956.6
75.0	5.376	1.600	2.048	3.520					70- 75	2.269	958.8
80.0	3.456	0.384	0.768	2.688					75- 80	1.288	960.1
85.0	2.560	0.320	0.576	2.368					80- 85	0.858	961.0
90.0	2.304	0.320	0.576	2.176					85- 90	0.760	961.7
95.0	2.176	0.320	0.576	1.984					90- 95	0.714	962.5
100.0	1.984	0.320	0.640	1.920					95-100	0.672	963.1
105.0	1.920	0.384	0.640	1.792					100-105	0.639	963.8
110.0	1.792	0.384	0.704	1.664					105-110	0.606	964.4
115.0	1.728	0.448	0.768	1.664					110-115	0.579	965.0
120.0	1.664	0.448	0.832	1.600					115-120	0.552	965.5
125.0	1.600	0.512	0.896	1.600					120-125	0.532	966.0
130.0	1.600	0.640	1.024	1.600					125-130	0.517	966.6
135.0	1.728	0.768	1.216	1.664					130-135	0.516	967.1
140.0	1.984	1.088	1.600	1.984					135-140	0.550	967.6
145.0	2.432	1.600	2.176	2.624					140-145	0.634	968.3
150.0	3.136	2.368	3.072	3.392					145-150	0.760	969.0
155.0	4.032	3.328	4.032	4.352					150-155	0.878	969.9
160.0	4.800	4.160	4.864	5.056					155-160	0.908	970.8
165.0	5.312	4.672	5.376	5.568					160-165	0.823	971.6
170.0	5.504	4.992	5.632	5.696					165-170	0.636	972.3
175.0	5.376	4.864	5.504	5.568					170-175	0.387	972.7
180.0	5.376	4.992	5.504	5.312					175-180	0.126	972.8
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

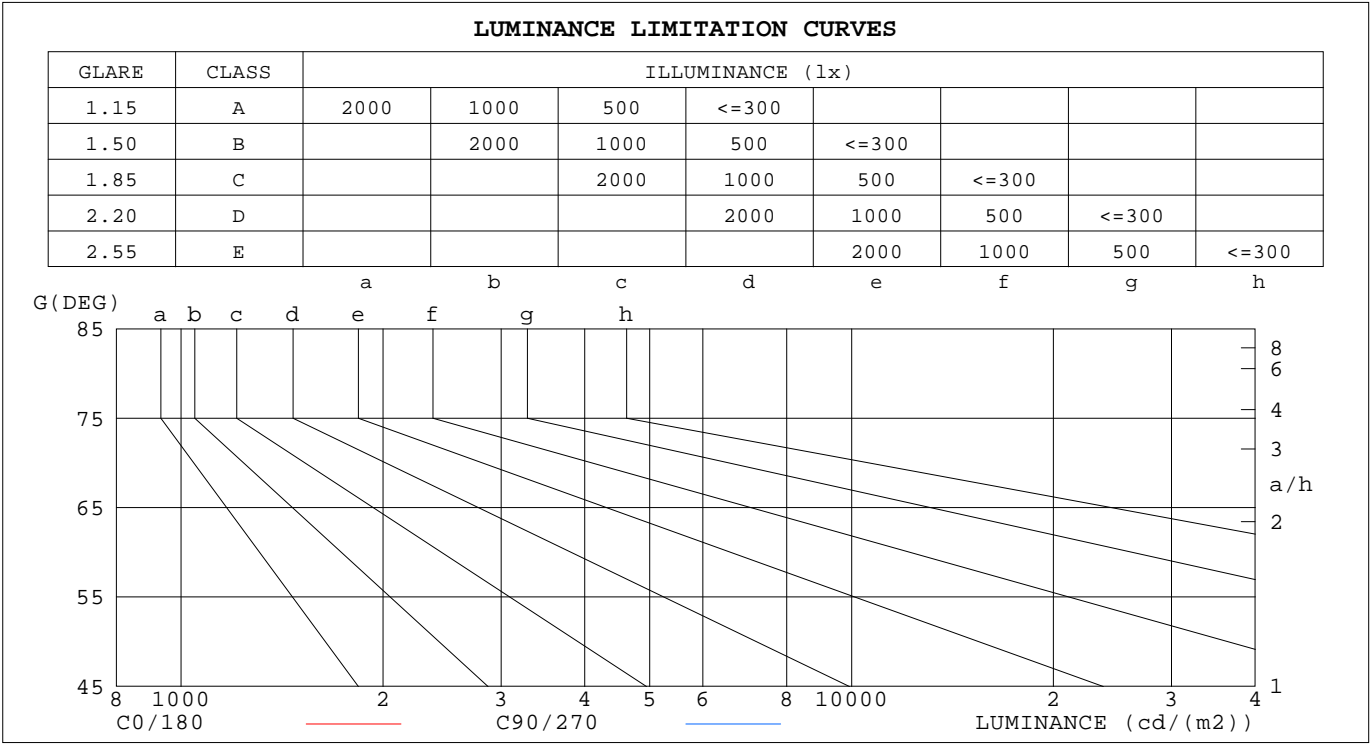
Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2020年05月31日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.000 m
 Remarks:

LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:			
Address:			
NAME: PAR36-11W-3000K-15度		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 样



LUMINANCE cd/m2		
G (DEG)	C0/180	C90/270
85	294	37
80	199	22
75	208	62
70	240	127
65	298	186
60	364	274
55	450	359
50	566	485
45	687	615

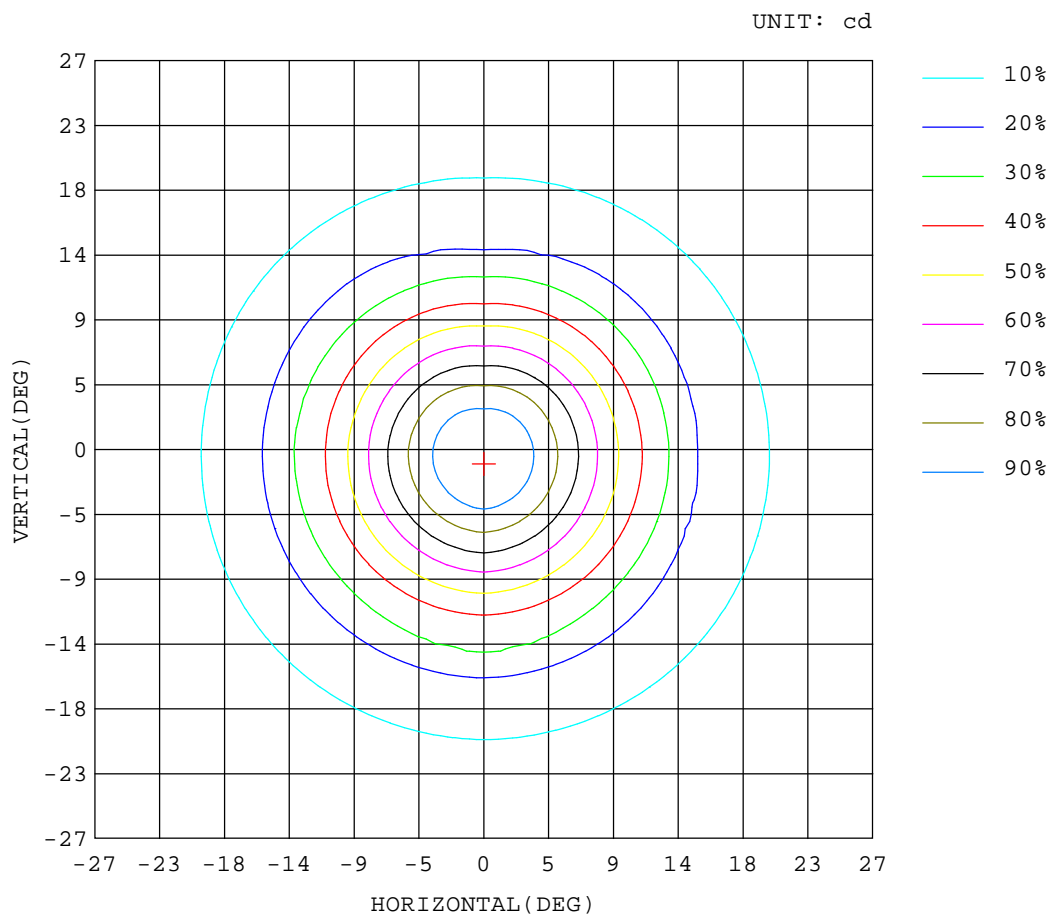
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ISOCANDELA DIAGRAM

Report number:

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Address:			
NAME: PAR36-11W-3000K-15度		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 样



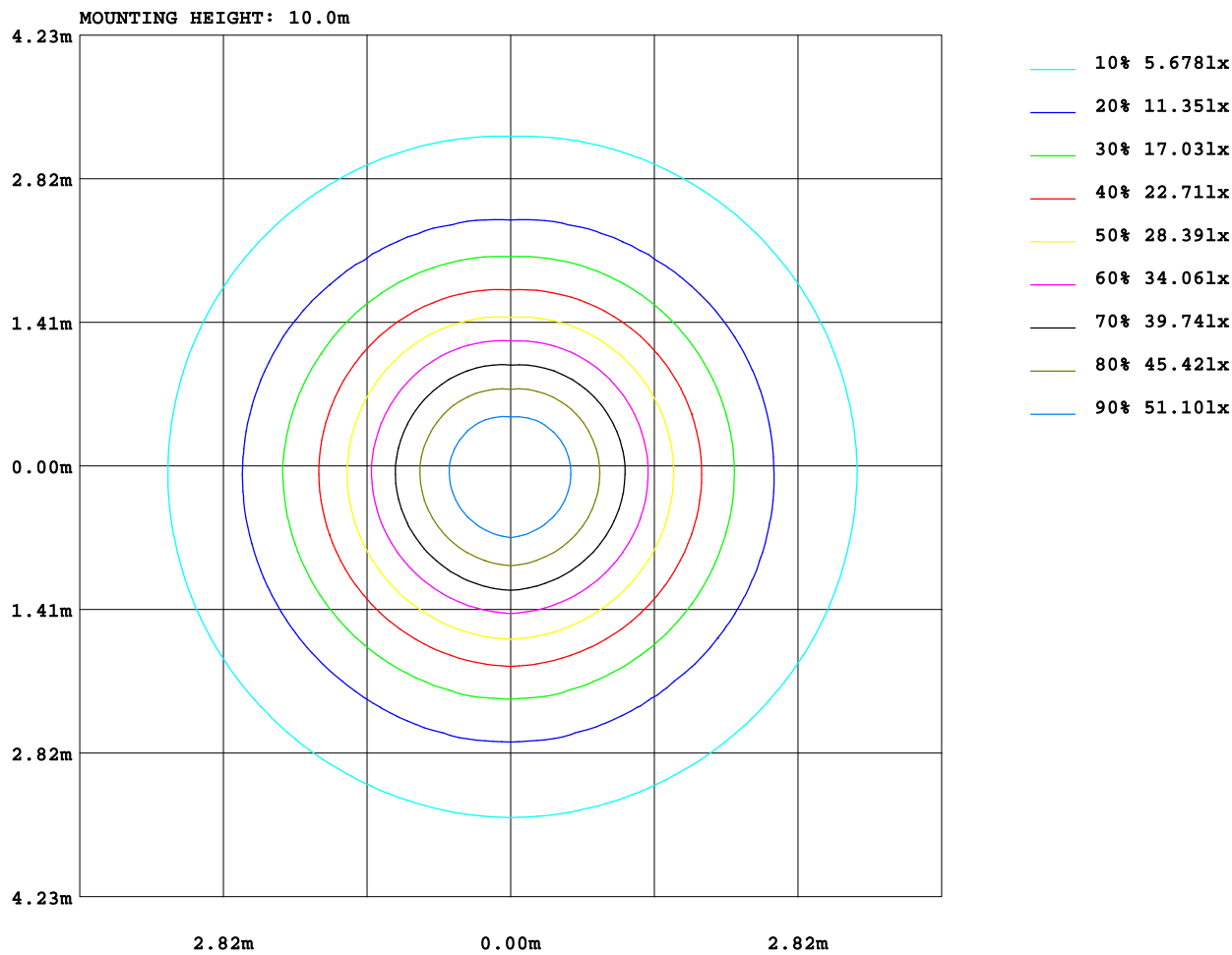
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ISOLUX DIAGRAM

Report number:

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Address:			
NAME: PAR36-11W-3000K-15度		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 样



Test System:HOPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:2020年05月31日

Test Set: 5.0deg/s C-Gamma (TYPE C)
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Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:			
Address:			
NAME: PAR36-11W-3000K-15度		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 样

27	AREA FLUX DIAGRAM																	UNIT:lm			Φ t	Φ a
	0.19	0.23	0.27	0.32	0.39	0.46	0.52	0.56	0.59	0.59	0.57	0.53	0.47	0.40	0.34	0.28	0.24	0.20	7.14	0.00		
24	0.22	0.27	0.34	0.44	0.54	0.66	0.77	0.85	0.90	0.90	0.86	0.78	0.68	0.56	0.46	0.36	0.29	0.24	10.1	0.00		
21	0.26	0.34	0.45	0.59	0.77	0.98	1.17	1.33	1.41	1.41	1.34	1.19	1.00	0.80	0.62	0.48	0.36	0.28	14.8	1.44		
18	0.31	0.43	0.59	0.82	1.11	1.46	1.82	2.12	2.28	2.28	2.13	1.83	1.48	1.14	0.85	0.62	0.45	0.33	22.0	13.4		
15	0.37	0.52	0.76	1.11	1.58	2.18	2.78	3.28	3.56	3.55	3.25	2.74	2.19	1.61	1.15	0.81	0.56	0.40	32.4	25.8		
12	0.43	0.63	0.97	1.47	2.20	3.11	4.27	5.32	5.88	5.87	5.30	4.21	3.03	2.21	1.51	1.01	0.68	0.46	48.6	43.0		
9	0.49	0.75	1.18	1.86	2.88	4.40	6.17	7.87	8.87	8.86	7.84	6.14	4.31	2.81	1.90	1.23	0.80	0.53	68.9	64.1		
VERTICAL(°)	0.53	0.84	1.36	2.22	3.59	5.61	8.11	10.6	12.1	12.1	10.6	8.06	5.56	3.45	2.24	1.41	0.90	0.58	90.0	85.5		
	0.56	0.90	1.48	2.45	4.11	6.44	9.50	12.6	14.5	14.5	12.5	9.42	6.38	3.95	2.43	1.53	0.96	0.61	105	101		
	0.56	0.91	1.49	2.48	4.19	6.55	9.69	12.8	14.9	14.9	12.8	9.62	6.49	4.03	2.46	1.55	0.97	0.62	107	103		
	0.54	0.86	1.40	2.29	3.82	5.91	8.62	11.4	13.2	13.2	11.3	8.57	5.85	3.68	2.32	1.45	0.92	0.59	96.1	91.6		
	0.50	0.77	1.23	1.96	3.13	4.86	6.82	8.85	10.2	10.2	8.82	6.79	4.77	3.05	2.00	1.28	0.82	0.54	76.6	71.8		
-9	0.44	0.66	1.02	1.57	2.39	3.60	4.98	6.20	7.07	7.07	6.18	4.93	3.52	2.40	1.61	1.07	0.71	0.48	55.9	50.4		
-12	0.39	0.55	0.81	1.20	1.74	2.45	3.31	4.18	4.68	4.67	4.14	3.27	2.46	1.77	1.24	0.85	0.58	0.41	38.7	32.7		
-15	0.32	0.45	0.62	0.89	1.23	1.65	2.11	2.51	2.77	2.77	2.52	2.12	1.68	1.26	0.92	0.66	0.47	0.34	25.3	17.7		
-18	0.27	0.36	0.48	0.64	0.85	1.10	1.36	1.57	1.71	1.71	1.58	1.37	1.12	0.88	0.67	0.50	0.38	0.28	16.8	5.11		
-21	0.22	0.28	0.37	0.47	0.59	0.73	0.87	0.99	1.06	1.06	1.00	0.89	0.75	0.61	0.49	0.39	0.30	0.24	11.3	0.00		
-24	0.19	0.23	0.28	0.35	0.43	0.50	0.57	0.63	0.67	0.68	0.64	0.58	0.51	0.44	0.36	0.29	0.24	0.20	7.82	0.00		
-27																						
-27 -24 -21 -18 -15 -12 -9 -6 HORIZONTAL(°) 6 9 12 15 18 21 24 27																						
Φ t	6.78	9.98	15.1	23.1	35.6	52.7	73.5	93.8	107	107	93.5	73.1	52.3	35.1	23.6	15.8	10.6	7.32	973			
Φ a	0.00	0.00	3.06	15.1	29.2	46.8	68.4	89.0	102	102	88.7	67.9	46.7	28.5	15.6	3.82	0.00	0.00		710		

Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2020年05月31日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.000 m
 Remarks:

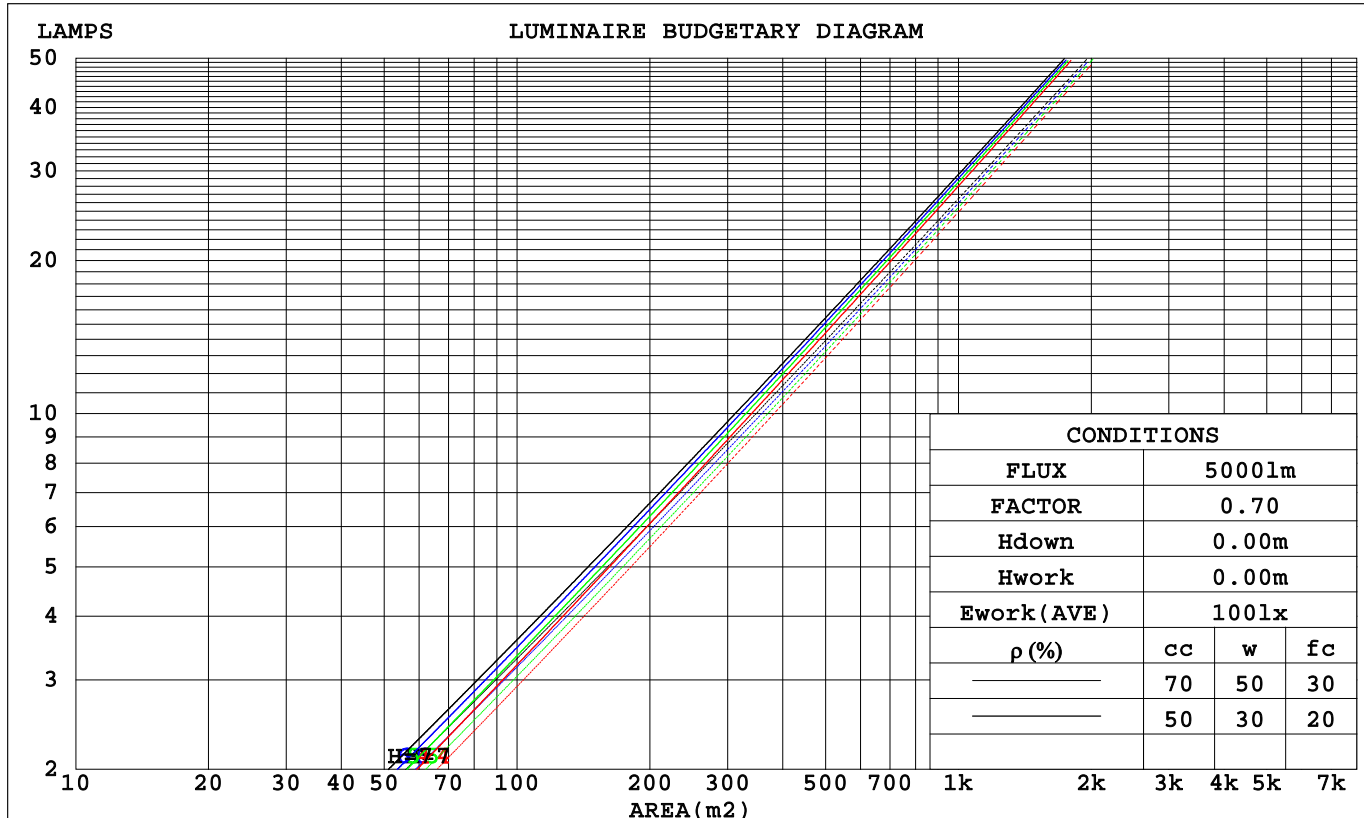
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: PAR36-11W-3000K-15度		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 样

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															



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HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Report number:

MANUFACTURER:											
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NAME: PAR36-11W-3000K-15度						TYPE:			WEIGHT:		
SPECIFICATION:			CCT(K): 3000			DIMENSION:			SERIAL No.: 样		

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	.150	.085	.027	.143	.081	.026	.130	.074	.024	.118	.068	.022	.106	.062	.020	
2.0	.139	.076	.023	.134	.074	.023	.123	.068	.021	.113	.063	.020	.103	.058	.018	
3.0	.130	.069	.021	.125	.067	.020	.116	.063	.019	.107	.059	.018	.099	.055	.017	
4.0	.121	.063	.019	.117	.061	.018	.109	.058	.017	.102	.055	.017	.095	.052	.016	
5.0	.114	.058	.017	.110	.057	.016	.104	.054	.016	.097	.051	.015	.091	.049	.015	
6.0	.107	.054	.015	.104	.053	.015	.098	.050	.015	.093	.048	.014	.088	.046	.014	
7.0	.101	.050	.014	.099	.049	.014	.094	.047	.014	.089	.045	.013	.084	.044	.013	
8.0	.096	.047	.013	.094	.046	.013	.089	.045	.013	.085	.043	.012	.081	.042	.012	
9.0	.091	.044	.012	.089	.044	.012	.085	.042	.012	.081	.041	.012	.078	.040	.011	
10.0	.087	.042	.012	.085	.041	.011	.082	.040	.011	.078	.039	.011	.075	.038	.011	

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	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.178	.166	.156	.152	.143	.134	.104	.098	.093	.060	.057	.054	.019	.018	.017	
2.0	.161	.141	.125	.138	.122	.108	.094	.084	.076	.054	.049	.044	.017	.016	.014	
3.0	.146	.122	.103	.125	.105	.089	.086	.073	.063	.050	.043	.037	.016	.014	.012	
4.0	.134	.107	.086	.115	.092	.075	.079	.064	.053	.046	.038	.031	.015	.012	.010	
5.0	.124	.095	.073	.106	.082	.064	.073	.057	.045	.042	.034	.027	.014	.011	.009	
6.0	.115	.085	.063	.099	.074	.055	.068	.052	.039	.040	.030	.023	.013	.010	.008	
7.0	.108	.077	.055	.093	.067	.048	.064	.047	.034	.037	.028	.020	.012	.009	.007	
8.0	.101	.070	.049	.087	.061	.043	.060	.043	.030	.035	.025	.018	.011	.008	.006	
9.0	.095	.065	.044	.082	.056	.038	.057	.039	.027	.033	.023	.016	.011	.008	.005	
10.0	.090	.060	.040	.078	.052	.035	.054	.037	.025	.031	.022	.015	.010	.007	.005	

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 Temperature:25.3DEG
 Operators:
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Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.000 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR Table

Report number:

MANUFACTURER:											
Address:											
NAME: PAR36-11W-3000K-15度						TYPE:		WEIGHT:			
SPECIFICATION:		CCT(K): 3000				DIMENSION:		SERIAL No.: 样			
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	4.1	4.8	4.3	5.0	5.2	3.4	4.1	3.6	4.3	4.5	
	3H	4.6	5.3	4.9	5.5	5.7	3.6	4.3	3.9	4.5	4.7
	4H	4.8	5.4	5.1	5.6	5.9	3.6	4.2	3.9	4.5	4.7
	6H	4.9	5.5	5.2	5.8	6.0	3.5	4.1	3.8	4.4	4.6
	8H	5.0	5.5	5.3	5.8	6.1	3.5	4.1	3.8	4.3	4.6
	12H	5.1	5.6	5.4	5.9	6.2	3.4	4.0	3.8	4.3	4.6
4H 2H	4.2	4.9	4.5	5.1	5.3	3.6	4.2	3.9	4.5	4.7	
	3H	4.8	5.4	5.2	5.7	5.9	3.9	4.4	4.2	4.7	5.0
	4H	5.0	5.5	5.4	5.9	6.2	3.9	4.4	4.3	4.7	5.0
	6H	5.3	5.7	5.6	6.0	6.4	3.8	4.3	4.2	4.6	5.0
	8H	5.3	5.8	5.8	6.1	6.5	3.8	4.2	4.2	4.6	5.0
	12H	5.5	5.9	5.9	6.3	6.7	3.7	4.1	4.2	4.5	4.9
8H 4H	5.0	5.4	5.4	5.8	6.2	3.9	4.3	4.3	4.7	5.0	
	6H	5.2	5.6	5.7	6.0	6.4	3.8	4.2	4.3	4.6	5.0
	8H	5.4	5.7	5.9	6.1	6.6	3.8	4.1	4.3	4.5	5.0
	12H	5.6	5.9	6.1	6.4	6.9	3.8	4.0	4.3	4.5	5.0
12H 4H	4.9	5.3	5.4	5.7	6.1	3.8	4.2	4.3	4.6	5.0	
	6H	5.2	5.5	5.7	5.9	6.4	3.8	4.1	4.3	4.6	5.0
	8H	5.4	5.6	5.9	6.1	6.6	3.8	4.1	4.3	4.5	5.0
Variations with the observer position at spacings:											
S = 1.0H	+ 0.7 / - 0.9					+ 1.0 / - 1.5					
1.5H	+ 0.7 / - 0.6					+ 0.8 / - 0.8					
2.0H	+ 1.5 / - 1.4					+ 2.0 / - 1.9					

CIE Pub.117 Corrected 972.8 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.1)

Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2020年05月31日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.000 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:			
Address:			
NAME: PAR36-11W-3000K-15度		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 样

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) $k(RI) \times RCR = 5$									
$k = 0.60$	86	80	76	86	80	76	85	79	76	72
0.80	94	88	84	93	87	84	92	87	83	80
1.00	98	92	89	97	92	88	96	92	88	84
1.25	102	97	93	101	96	93	99	95	92	88
1.50	105	100	97	104	99	96	101	98	95	90
2.00	108	103	100	106	102	99	103	100	98	92
2.50	110	106	103	108	104	102	105	102	100	93
3.00	111	108	105	109	106	104	106	103	101	95
4.00	113	110	108	111	109	107	107	105	104	96
5.00	115	112	110	112	110	109	108	107	105	97
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHRNOM = 1.25		

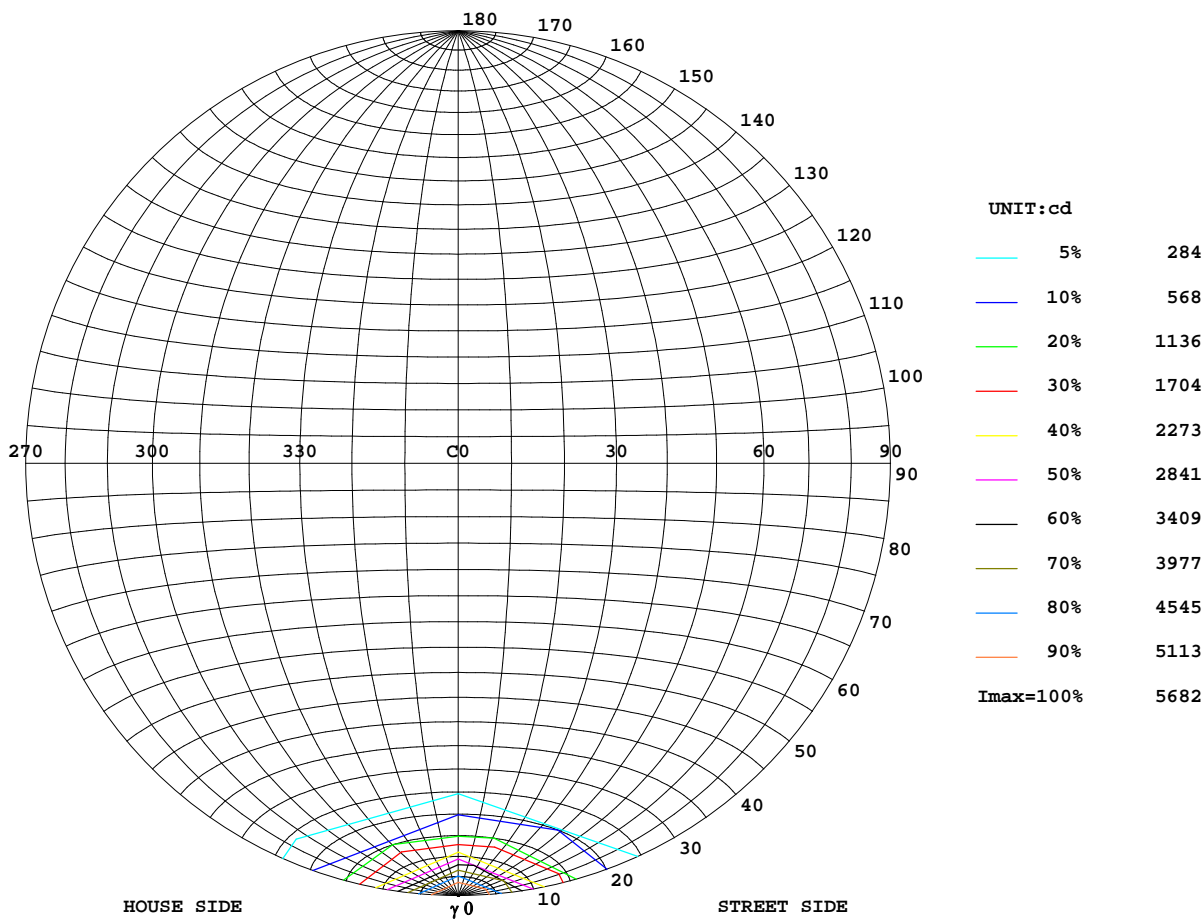
Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2020年05月31日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: PAR36-11W-3000K-15度		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 样



Test System:HOPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:2020年05月31日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

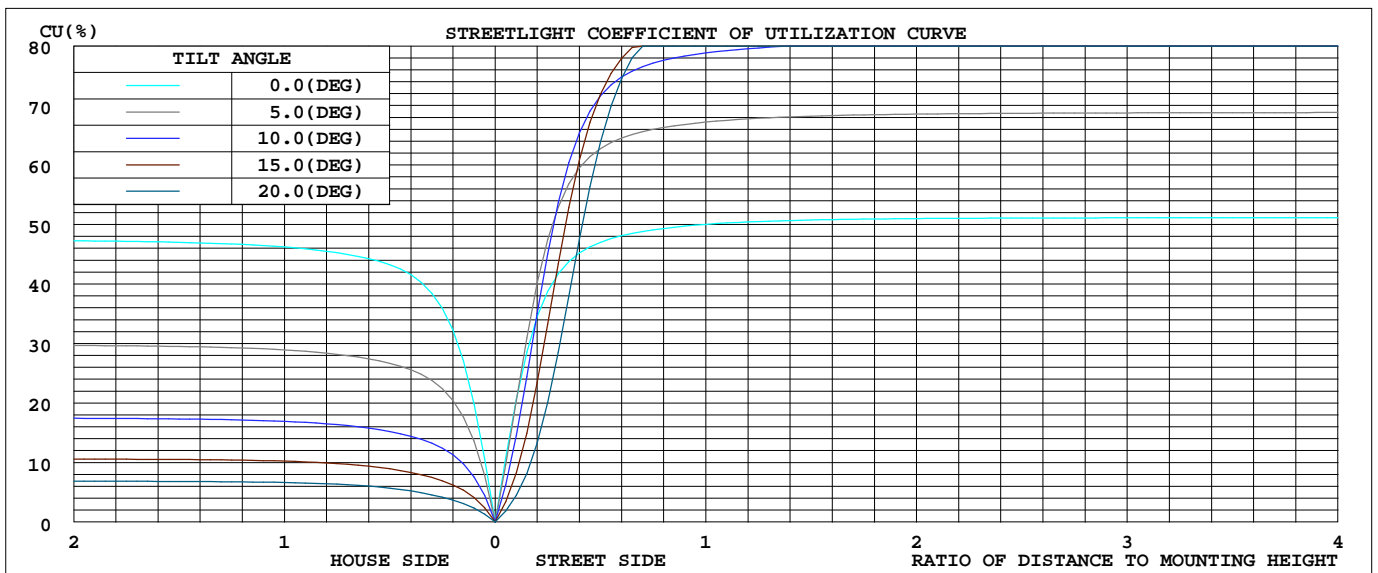
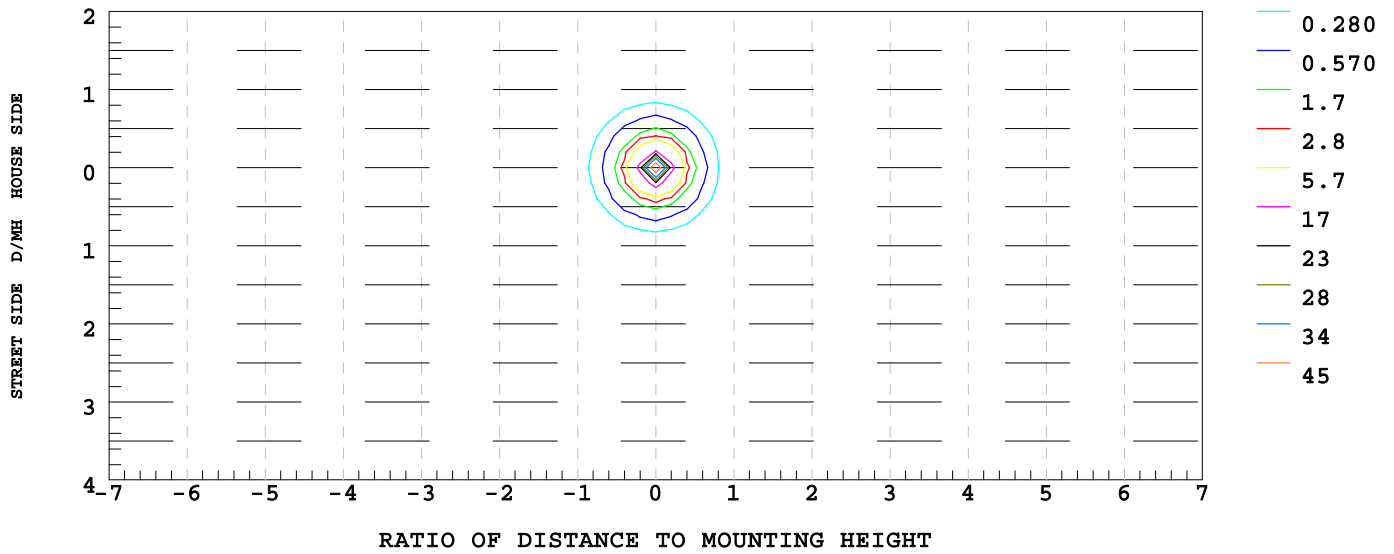
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: PAR36-11W-3000K-15度		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 样

ILLUMINANCE AT MH=10 m, Enadir = 56.62 lx



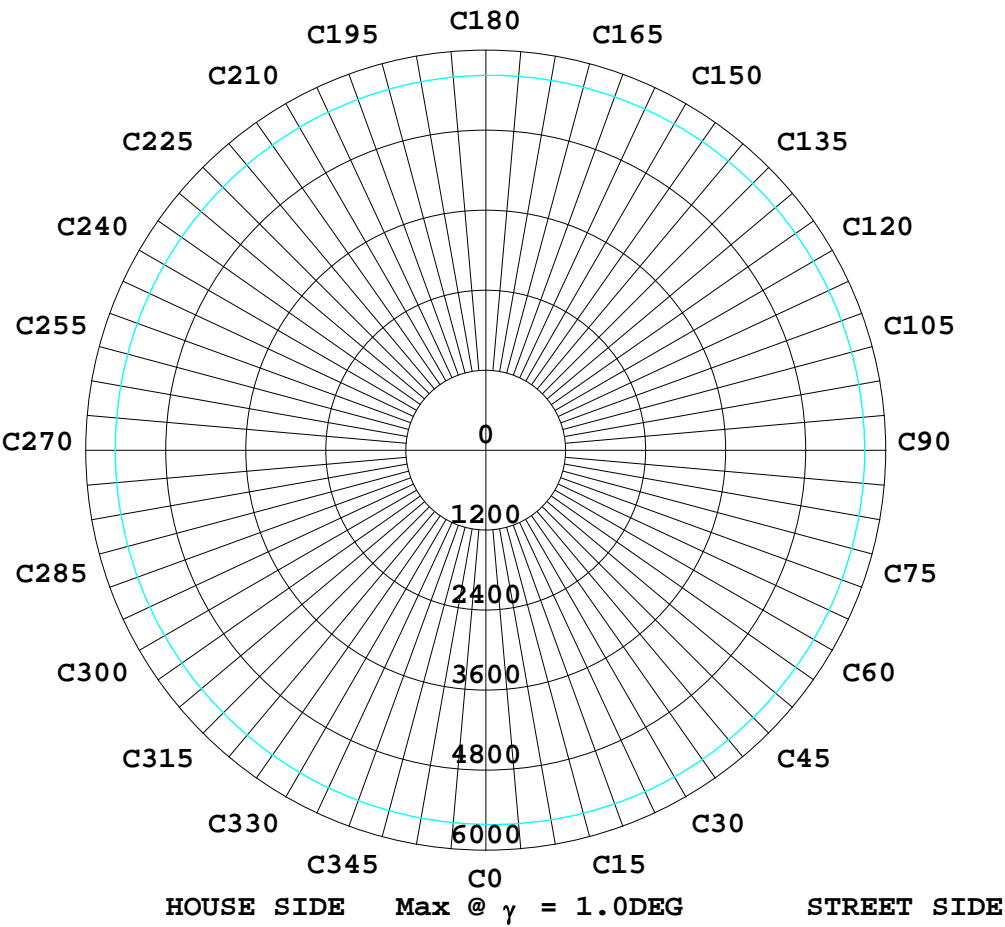
Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2020年05月31日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: PAR36-11W-3000K-15度		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 样



Test System:HOPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:2020年05月31日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:			
Address:			
NAME: PAR36-11W-3000K-15度		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 样

UNIT: cd

C(DEG)					
γ (DEG)		0	90	180	270
0.0		5662	5649	5662	5649
5.0		4588	4851	4639	4322
10.0		2590	2840	2650	2303
15.0		1087	1298	1199	1059
20.0		552	582	533	478
25.0		266	263	243	227
30.0		141	135	125	116
35.0		88.0	81.2	77.8	80.7
40.0		63.6	57.4	55.3	58.9
45.0		48.5	43.5	41.0	44.9
50.0		36.3	31.1	30.2	33.1
55.0		25.7	20.6	21.4	22.5
60.0		18.1	13.6	14.9	16.0
65.0		12.6	7.87	9.53	10.3
70.0		8.19	4.35	4.73	5.95
75.0		5.37	1.60	2.04	3.52
80.0		3.45	0.38	0.77	2.68
85.0		2.56	0.32	0.58	2.36
90.0		2.30	0.32	0.58	2.17
95.0		2.17	0.32	0.58	1.98
100.0		1.98	0.32	0.64	1.92
105.0		1.92	0.38	0.64	1.79
110.0		1.79	0.38	0.70	1.66
115.0		1.72	0.45	0.77	1.66
120.0		1.66	0.45	0.83	1.60
125.0		1.60	0.51	0.90	1.60
130.0		1.60	0.64	1.02	1.60
135.0		1.72	0.77	1.21	1.66
140.0		1.98	1.08	1.60	1.98
145.0		2.43	1.60	2.17	2.62
150.0		3.13	2.36	3.07	3.39
155.0		4.03	3.32	4.03	4.35
160.0		4.80	4.16	4.86	5.05
165.0		5.31	4.67	5.37	5.56
170.0		5.50	4.99	5.63	5.69
175.0		5.37	4.86	5.50	5.56
180.0		5.37	4.99	5.50	5.31

Test System:HOPOO HPG1600
Temperature:25.3DEG
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