

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

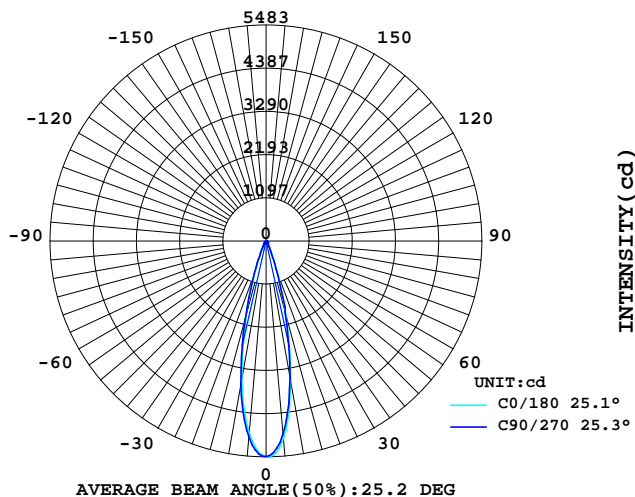
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

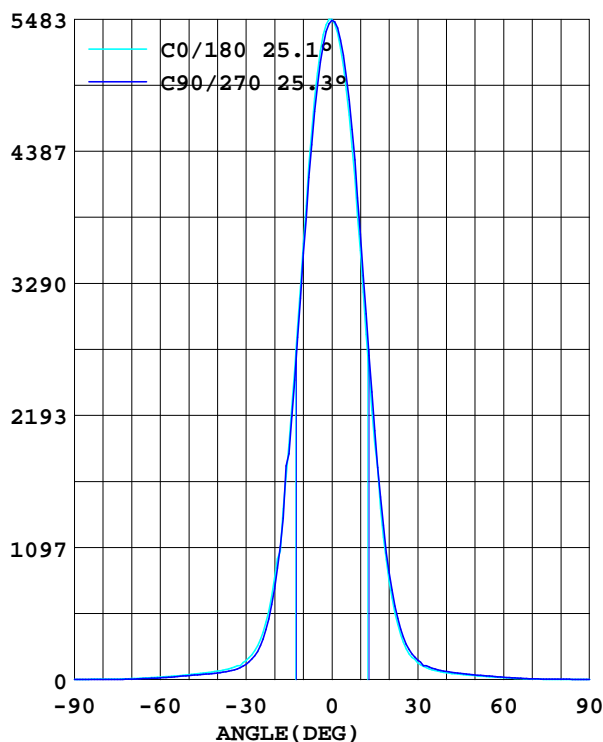
MANUFACTURER:Brilliance LED, LLC			
Address:			
NAME:PAR36 15W 3000K 30 Degree		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 1

DATA OF LAMP		Imax(cd)	5483	S/MH(C0/180)	0.42
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	0.42
NOMINAL POWER(W)	0	TOTAL FLUX(lm)	1280.6	Voltage(V)	12.38
RATED VOLTAGE(V)	12	EFFICIENCY(lm/W)		Current(A)	0
NOMINAL FLUX(lm)	1280.6	η up(%)	1.0	Power(W)	0
LAMPS QUANTITY	1	η down(%)	99.0	Power Factor(PF)	0
TEST VOLTAGE(V)	12.4	Effective Flux(lm)	1027.9	EEI	0.000

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:2020年05月26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: PAR36-30°-3000K-15W		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K):	DIMENSION:	SERIAL No.: 1

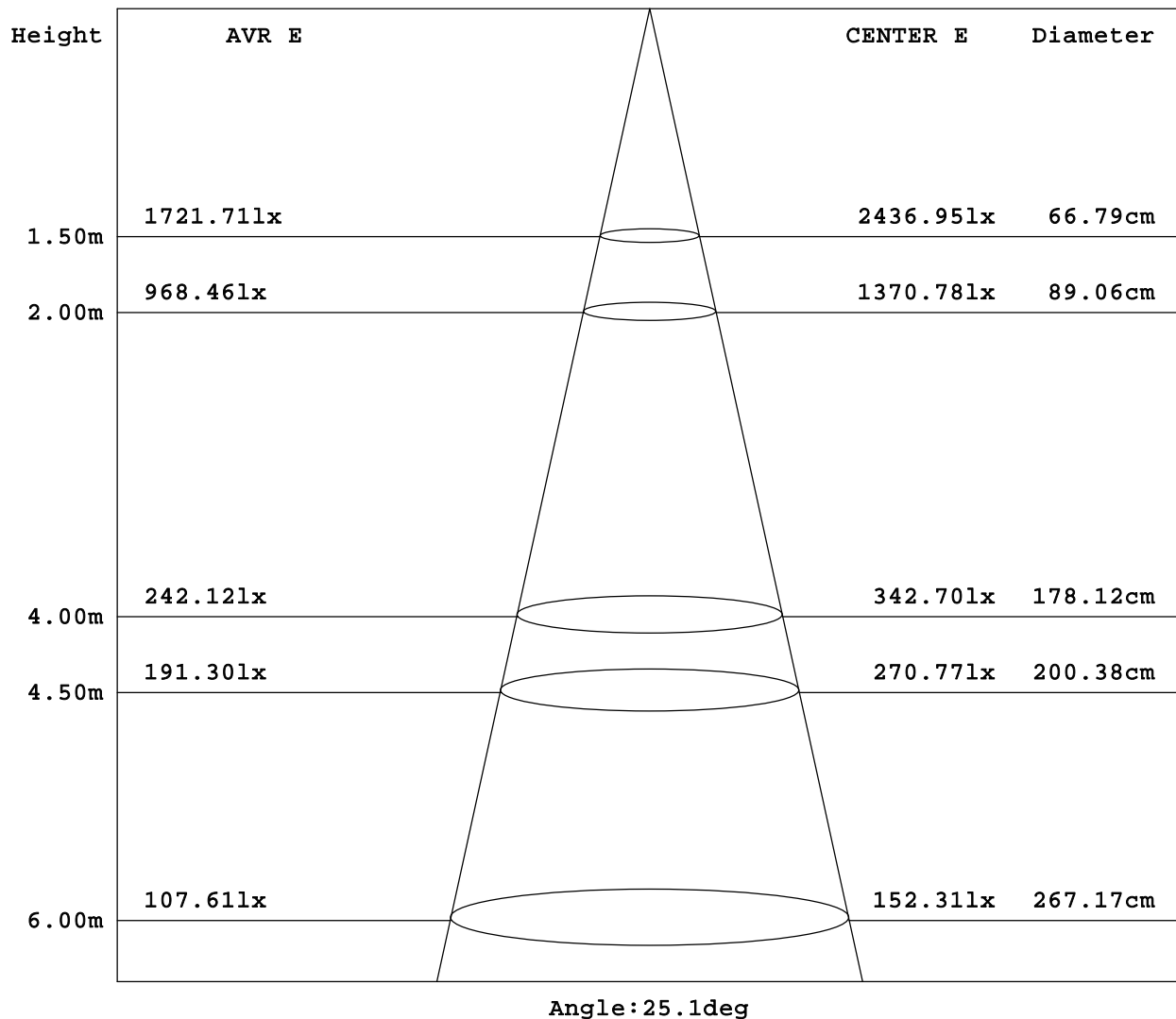
Test System:HOPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:2020年05月26日

Test Set: 5.0deg/s C-Gamma (TYPE C)
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Test Distance:8.000 m
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AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:			
Address:			
NAME: PAR36-30°-3000K-15W		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K):	DIMENSION:	SERIAL No.: 1



Test System: HOPOO HPG1600
Temperature: 25.3DEG
Operators:
Test Date: 2020年05月26日

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

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: PAR36-30°-3000K-15W		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K):	DIMENSION:	SERIAL No.: 1

γ	C0	C90	C180	C270					γ	zone	total
5.0	5036	4930	4897	5005					0- 5	124.9	124.9
10.0	3619	3542	3562	3698					5- 10	304.8	429.7
15.0	1952	1874	1957	2065					10- 15	321.3	751.1
20.0	844.6	754.4	814.1	885.5					15- 20	217.0	968.1
25.0	332.6	281.7	312.1	353.6					20- 25	109.7	1078
30.0	157.9	126.5	139.9	162.4					25- 30	54.66	1133
35.0	97.02	75.26	81.72	95.42					30- 35	32.69	1165
40.0	70.27	55.36	56.63	67.77					35- 40	24.42	1190
45.0	54.59	43.64	43.13	52.22					40- 45	20.34	1210
50.0	41.85	33.53	32.19	39.48					45- 50	17.19	1227
55.0	29.31	23.87	23.68	29.24					50- 55	13.63	1241
60.0	20.86	14.59	16.19	19.90					55- 60	10.18	1251
65.0	13.37	8.896	9.216	12.48					60- 65	6.932	1258
70.0	8.000	4.288	4.864	6.912					65- 70	4.201	1262
75.0	4.352	1.024	1.856	4.224					70- 75	2.205	1264
80.0	3.008	0.384	0.768	3.072					75- 80	1.206	1266
85.0	2.624	0.384	0.576	2.560					80- 85	0.895	1267
90.0	2.368	0.320	0.576	2.368					85- 90	0.808	1267
95.0	2.240	0.384	0.576	2.176					90- 95	0.752	1268
100.0	2.048	0.384	0.640	2.048					95-100	0.710	1269
105.0	1.984	0.384	0.704	1.856					100-105	0.672	1269
110.0	1.856	0.448	0.768	1.856					105-110	0.651	1270
115.0	1.792	0.512	0.768	1.792					110-115	0.615	1271
120.0	1.728	0.576	0.896	1.728					115-120	0.592	1271
125.0	1.728	0.640	0.960	1.664					120-125	0.570	1272
130.0	1.728	0.768	1.152	1.728					125-130	0.561	1272
135.0	1.920	1.088	1.472	1.920					130-135	0.590	1273
140.0	2.368	1.664	2.112	2.496					135-140	0.684	1274
145.0	3.072	2.496	3.136	3.328					140-145	0.853	1275
150.0	4.096	3.584	4.288	4.480					145-150	1.037	1276
155.0	5.248	4.736	5.568	5.568					150-155	1.183	1277
160.0	6.336	5.824	6.592	6.656					155-160	1.220	1278
165.0	6.976	6.464	7.296	7.360					160-165	1.105	1279
170.0	7.168	6.592	7.424	7.488					165-170	0.845	1280
175.0	7.168	6.592	7.232	7.296					170-175	0.510	1280
180.0	7.232	6.720	7.232	7.104					175-180	0.169	1281
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

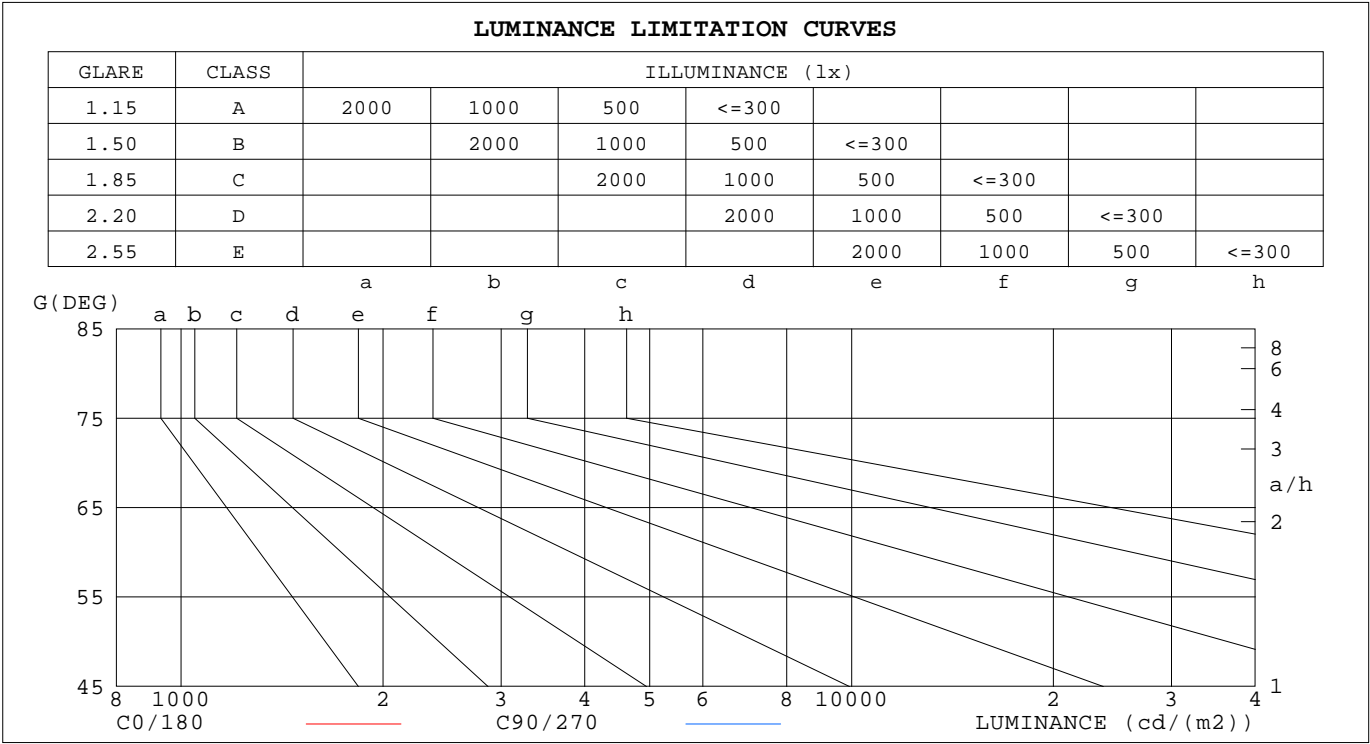
Test System:HOPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:2020年05月26日

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: PAR36-30°-3000K-15W		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K):	DIMENSION:	SERIAL No.: 1



LUMINANCE cd/m2		
G (DEG)	C0/180	C90/270
85	301	44
80	173	22
75	168	40
70	234	125
65	317	210
60	417	292
55	511	416
50	651	522
45	772	617

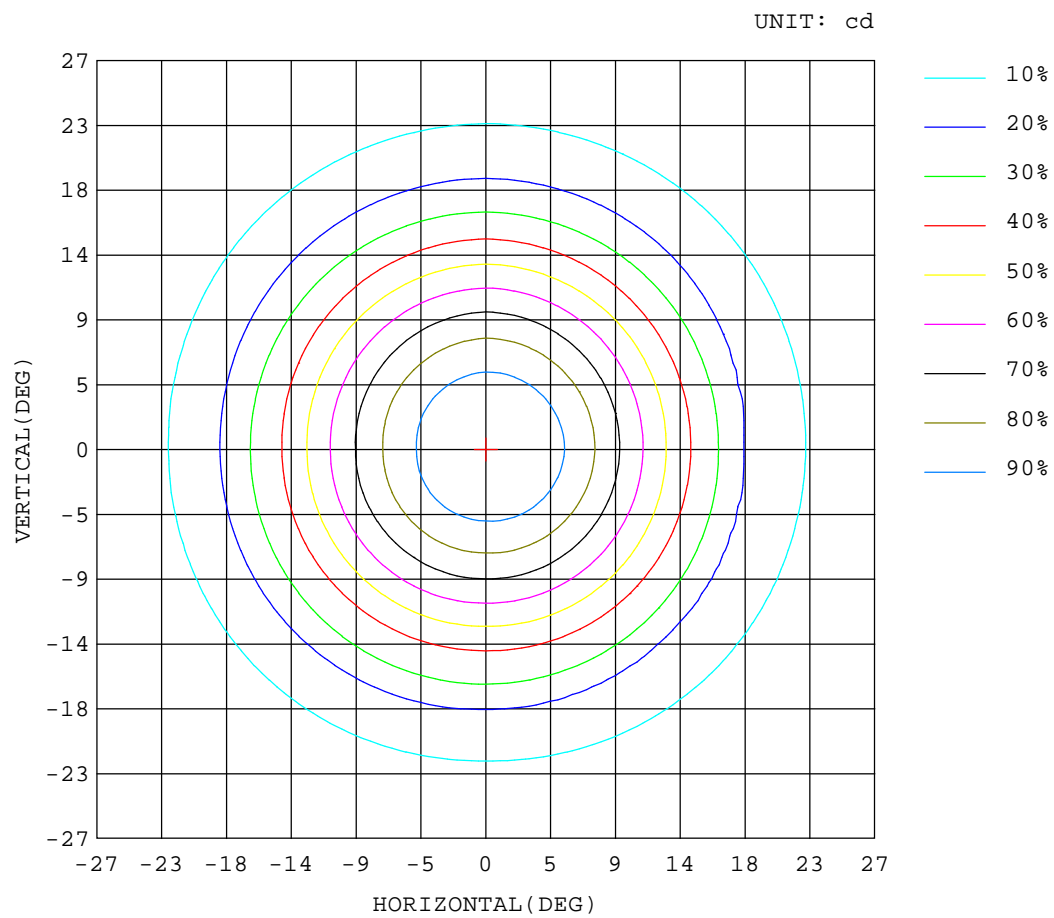
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Operators:
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ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
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SPECIFICATION:	CCT(K):	DIMENSION:	SERIAL No.: 1



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Temperature:25.3DEG
Operators:
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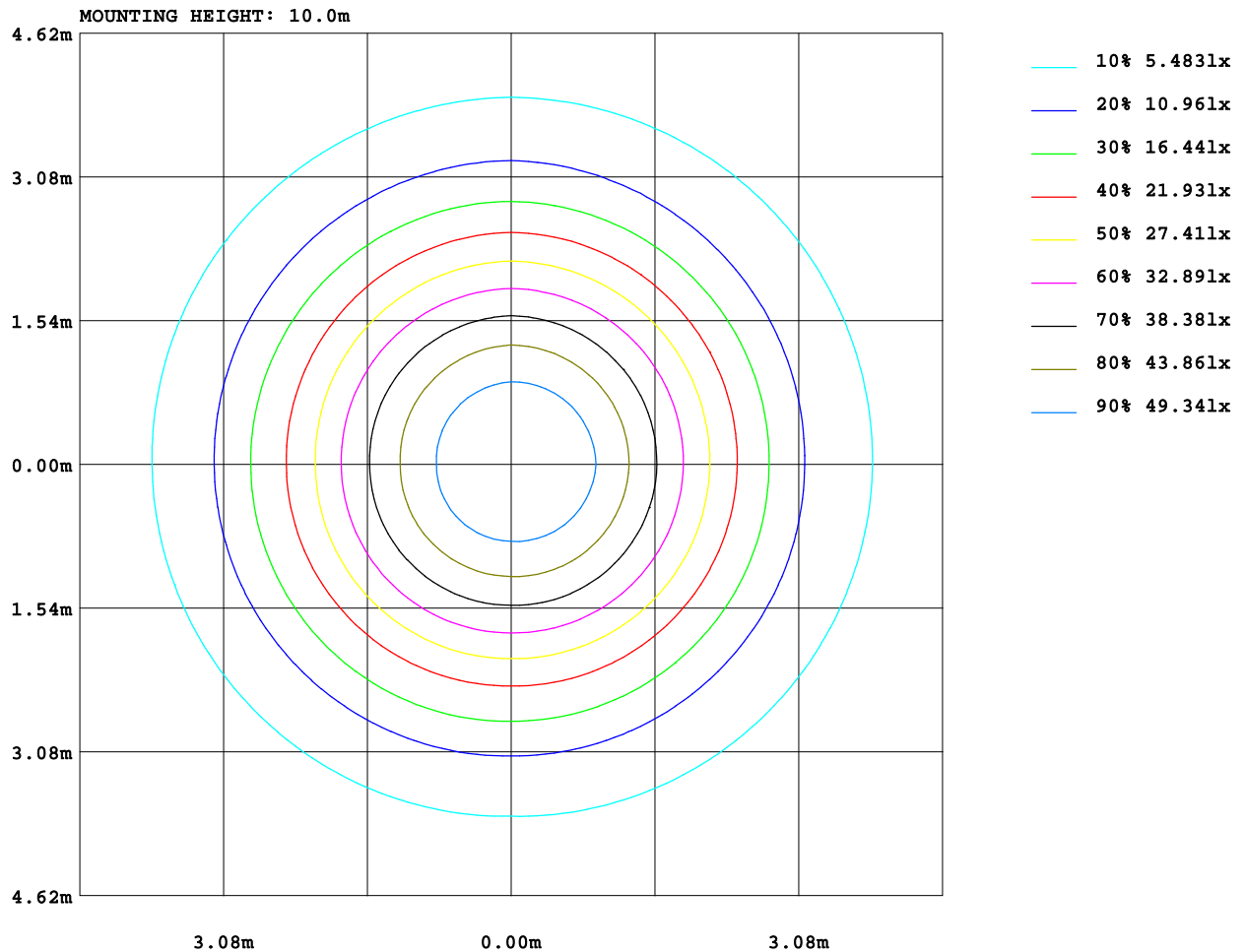
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Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: PAR36-30°-3000K-15W		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K):	DIMENSION:	SERIAL No.: 1



Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2020年05月26日

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

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:			
Address:			
NAME: PAR36-30°-3000K-15W		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K):	DIMENSION:	SERIAL No.: 1

27	AREA FLUX DIAGRAM																		UNIT:lm		Φ t	Φ a
	0.21	0.26	0.32	0.41	0.51	0.62	0.73	0.83	0.89	0.89	0.83	0.74	0.63	0.52	0.42	0.33	0.28	0.23	9.63	0.00		
24	0.25	0.32	0.43	0.57	0.76	0.98	1.20	1.40	1.52	1.53	1.40	1.22	0.99	0.78	0.59	0.45	0.34	0.27	15.0	3.34		
21	0.30	0.42	0.58	0.83	1.18	1.60	2.04	2.41	2.64	2.64	2.42	2.05	1.62	1.20	0.86	0.61	0.44	0.32	24.2	16.5		
18	0.37	0.53	0.81	1.23	1.84	2.57	3.37	4.05	4.45	4.44	4.02	3.34	2.57	1.86	1.26	0.84	0.57	0.40	38.5	32.5		
15	0.45	0.69	1.11	1.79	2.75	3.97	5.21	6.23	6.84	6.85	6.24	5.19	3.92	2.73	1.82	1.14	0.73	0.48	58.2	53.6		
12	0.53	0.87	1.48	2.46	3.90	5.59	7.27	8.67	9.49	9.51	8.71	7.31	5.58	3.82	2.46	1.51	0.91	0.57	80.6	76.6		
9	0.61	1.05	1.85	3.16	5.04	7.13	9.27	10.9	11.9	11.9	11.0	9.34	7.18	5.00	3.08	1.89	1.09	0.65	102	98.9		
VERTICAL(°)	0.67	1.20	2.16	3.78	5.89	8.36	10.7	12.6	13.7	13.8	12.8	10.9	8.46	5.90	3.65	2.20	1.24	0.72	119	116		
	0.71	1.28	2.33	4.11	6.34	9.02	11.5	13.5	14.6	14.7	13.8	11.8	9.16	6.40	3.99	2.33	1.32	0.76	128	125		
	0.70	1.27	2.32	4.09	6.31	8.98	11.5	13.4	14.5	14.7	13.7	11.7	9.12	6.36	3.98	2.32	1.31	0.76	127	124		
	0.66	1.17	2.12	3.72	5.79	8.24	10.6	12.5	13.5	13.6	12.6	10.8	8.34	5.81	3.60	2.15	1.21	0.71	117	114		
	0.58	1.01	1.78	3.05	4.94	6.92	9.03	10.6	11.6	11.6	10.7	9.11	6.97	4.90	2.97	1.82	1.05	0.63	99.5	95.9		
	0.50	0.82	1.40	2.33	3.75	5.38	6.94	8.30	9.06	9.07	8.33	6.98	5.37	3.68	2.33	1.43	0.86	0.54	77.1	73.0		
	0.42	0.64	1.03	1.66	2.57	3.77	5.00	5.84	6.34	6.34	5.84	4.98	3.71	2.55	1.69	1.06	0.68	0.45	54.6	49.7		
	0.34	0.49	0.73	1.12	1.67	2.34	3.07	3.77	4.15	4.14	3.75	3.04	2.35	1.69	1.14	0.76	0.52	0.37	35.4	29.5		
	0.27	0.38	0.52	0.74	1.03	1.41	1.79	2.12	2.30	2.30	2.13	1.81	1.42	1.05	0.76	0.55	0.40	0.29	21.3	13.2		
	0.23	0.29	0.38	0.50	0.65	0.83	1.02	1.17	1.26	1.26	1.18	1.03	0.85	0.67	0.52	0.40	0.31	0.25	12.8	1.01		
0.19	0.23	0.28	0.35	0.43	0.52	0.60	0.67	0.71	0.71	0.68	0.62	0.53	0.45	0.37	0.30	0.25	0.21	8.09	0.00			
-27	-24	-21	-18	-15	-12	-9	-6	HORIZONTAL(°)				6	9	12	15	18	21	24	27			
Φ t	7.97	12.9	21.6	35.9	55.4	78.2	101	119	130	130	121	102	78.8	55.4	35.5	22.1	13.5	8.59	1281			
Φ a	0.00	1.67	14.2	30.1	50.3	74.0	97.3	116	127	127	117	98.3	74.5	50.4	29.5	14.4	1.87	0.00		1028		

Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2020年05月26日

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

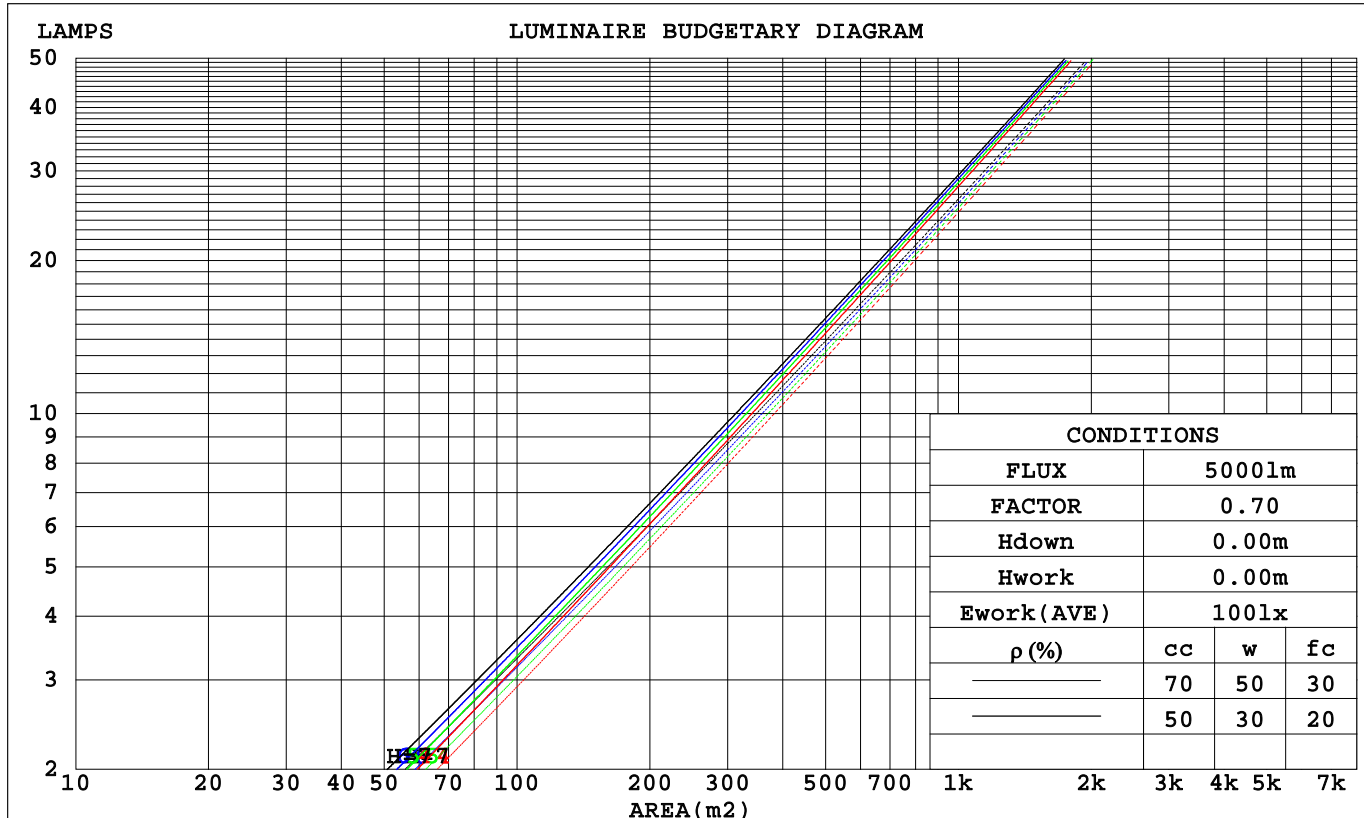
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:															
Address:															
NAME: PAR36-30°-3000K-15W								TYPE:				WEIGHT:			
SPECIFICATION:				CCT(K):				DIMENSION:				SERIAL No.: 1			

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															



Test System:HOPOO HPG1600
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HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Report number:

MANUFACTURER:											
Address:											
NAME: PAR36-30°-3000K-15W						TYPE:			WEIGHT:		
SPECIFICATION:				CCT(K):		DIMENSION:			SERIAL No.: 1		

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	.149	.085	.027	.142	.081	.026	.129	.074	.024	.117	.067	.022	.106	.061	.020															
2.0	.138	.076	.023	.133	.073	.023	.122	.068	.021	.112	.063	.020	.102	.058	.018															
3.0	.129	.069	.021	.124	.067	.020	.115	.062	.019	.107	.058	.018	.099	.055	.017															
4.0	.121	.063	.018	.117	.061	.018	.109	.058	.017	.102	.055	.016	.095	.052	.016															
5.0	.114	.058	.017	.110	.056	.016	.103	.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	.102	.050	.014	.099	.049	.014	.094	.047	.014	.089	.046	.013	.084	.044	.013															
8.0	.096	.047	.013	.094	.046	.013	.090	.045	.013	.085	.043	.012	.081	.042	.012															
9.0	.092	.044	.012	.090	.044	.012	.086	.042	.012	.082	.041	.012	.078	.040	.012															
10.0	.088	.042	.012	.086	.041	.012	.082	.040	.011	.079	.039	.011	.076	.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	.198	.198	.198	.170	.170	.170	.116	.116	.116	.066	.066	.066	.021	.021	.021	
1.0	.177	.166	.155	.152	.142	.133	.104	.098	.092	.060	.057	.054	.019	.018	.017	
2.0	.160	.141	.125	.137	.121	.108	.094	.084	.075	.054	.049	.044	.017	.016	.014	
3.0	.145	.121	.102	.125	.105	.089	.086	.073	.062	.049	.043	.037	.016	.014	.012	
4.0	.133	.106	.086	.114	.092	.074	.079	.064	.052	.046	.037	.031	.015	.012	.010	
5.0	.123	.094	.073	.106	.081	.063	.073	.057	.045	.042	.033	.026	.014	.011	.009	
6.0	.114	.084	.063	.098	.073	.055	.068	.051	.039	.039	.030	.023	.013	.010	.008	
7.0	.107	.076	.055	.092	.066	.048	.064	.046	.034	.037	.027	.020	.012	.009	.007	
8.0	.100	.069	.048	.086	.060	.042	.060	.042	.030	.035	.025	.018	.011	.008	.006	
9.0	.095	.064	.043	.082	.055	.038	.057	.039	.027	.033	.023	.016	.011	.008	.005	
10.0	.090	.059	.039	.077	.051	.034	.054	.036	.024	.031	.021	.014	.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: PAR36-30°-3000K-15W						TYPE:		WEIGHT:			
SPECIFICATION:		CCT(K):				DIMENSION:		SERIAL No.: 1			
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	3H	3.9	4.6	4.1	4.8	5.0	2.9	3.6	3.1	3.8	3.9
	4H	4.3	4.9	4.6	5.2	5.4	3.1	3.7	3.3	3.9	4.2
	6H	4.4	5.0	4.6	5.2	5.4	3.0	3.7	3.3	3.9	4.1
	8H	4.4	5.0	4.7	5.2	5.5	3.0	3.6	3.3	3.8	4.1
	12H	4.4	5.0	4.8	5.3	5.5	2.9	3.5	3.2	3.8	4.0
	12H	4.5	5.1	4.9	5.4	5.6	2.9	3.4	3.2	3.7	4.0
4H	2H	4.0	4.7	4.3	4.9	5.1	3.1	3.8	3.4	4.0	4.2
	3H	4.5	5.0	4.8	5.3	5.6	3.4	3.9	3.7	4.2	4.5
	4H	4.5	5.1	4.9	5.4	5.7	3.3	3.8	3.7	4.1	4.5
	6H	4.6	5.1	5.0	5.4	5.8	3.2	3.7	3.6	4.0	4.4
	8H	4.7	5.1	5.1	5.5	5.9	3.2	3.6	3.6	4.0	4.4
	12H	4.9	5.2	5.3	5.6	6.0	3.2	3.5	3.6	3.9	4.3
8H	4H	4.4	4.9	4.9	5.2	5.6	3.3	3.7	3.7	4.0	4.4
	6H	4.6	4.9	5.0	5.3	5.8	3.2	3.5	3.6	3.9	4.4
	8H	4.7	5.0	5.2	5.4	5.9	3.2	3.5	3.6	3.9	4.4
	12H	4.9	5.2	5.4	5.7	6.2	3.1	3.4	3.6	3.8	4.3
12H	4H	4.4	4.8	4.8	5.2	5.6	3.2	3.6	3.6	4.0	4.4
	6H	4.5	4.8	5.0	5.3	5.7	3.2	3.5	3.6	3.9	4.4
	8H	4.7	4.9	5.2	5.4	5.9	3.1	3.4	3.6	3.9	4.4
Variations with the observer position at spacings:											
S = 1.0H	+ 0.7 / - 1.0					+ 1.0 / - 1.4					
1.5H	+ 0.7 / - 0.6					+ 0.4 / - 0.6					
2.0H	+ 1.6 / - 1.7					+ 1.8 / - 2.1					

CIE Pub.117 Corrected 1281 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.9)

Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2020年05月26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: PAR36-30°-3000K-15W		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K):	DIMENSION:	SERIAL No.: 1

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) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	81	77	86	80	77	73
0.80	94	89	85	94	88	85	92	88	84	81
1.00	99	93	90	98	93	89	96	92	89	85
1.25	103	98	94	102	97	94	100	96	93	88
1.50	105	101	97	104	100	97	102	98	96	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	106	104	106	104	102	95
4.00	113	111	108	111	109	107	108	106	104	97
5.00	115	112	111	113	111	109	108	107	106	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHRNOM = 1.25		

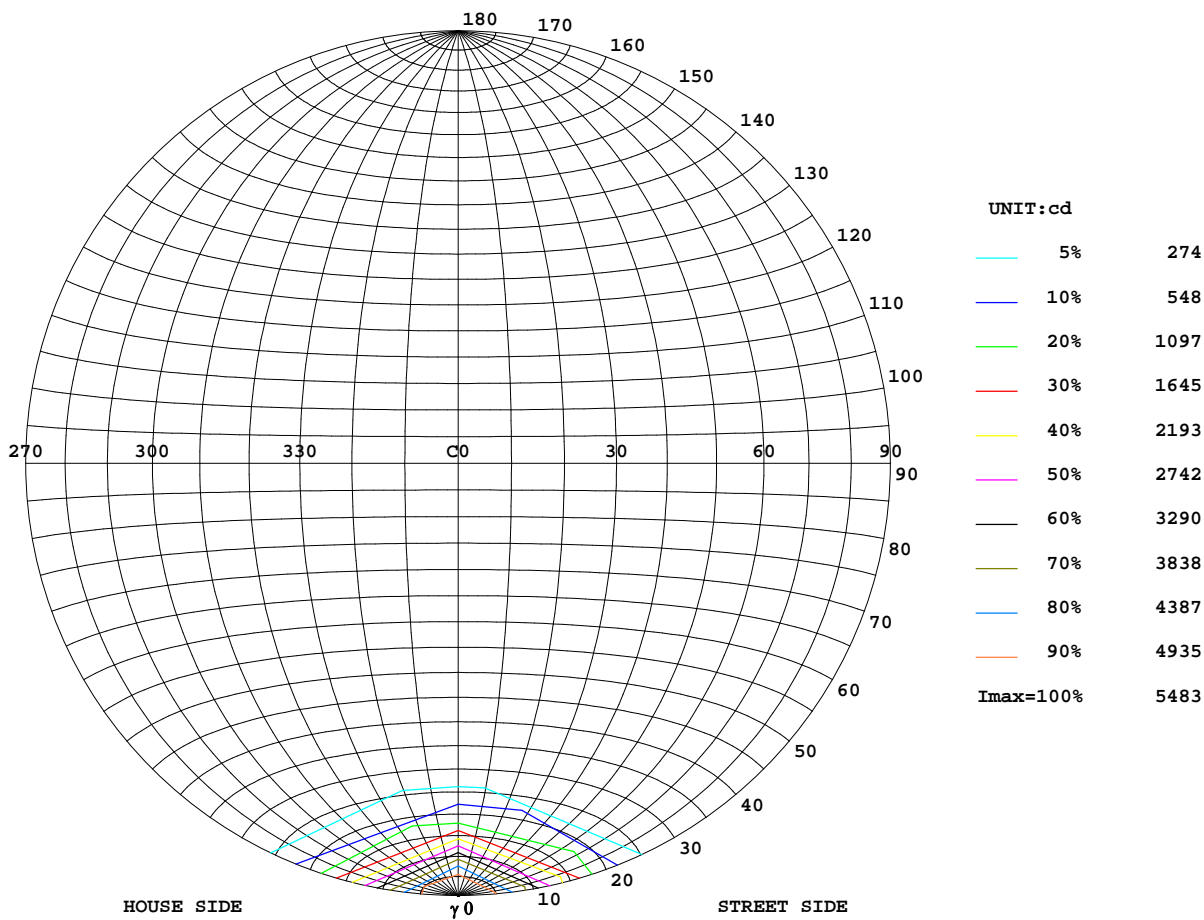
Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2020年05月26日

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: PAR36-30°-3000K-15W		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K):	DIMENSION:	SERIAL No.: 1



Test System:HOPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:2020年05月26日

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

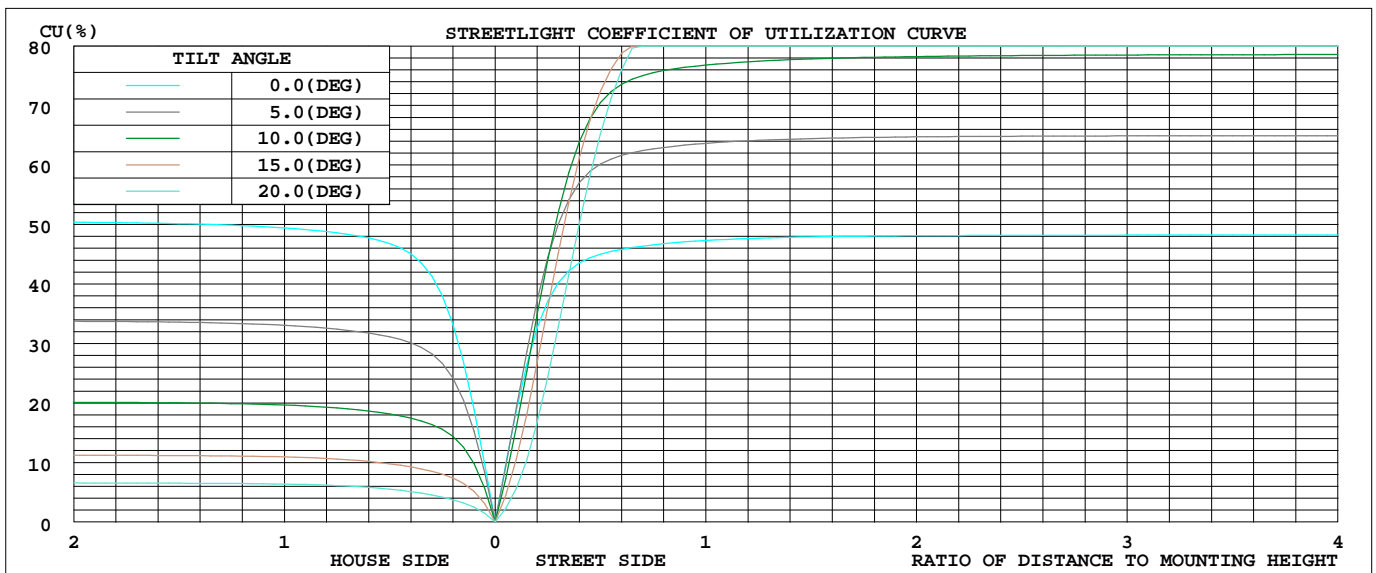
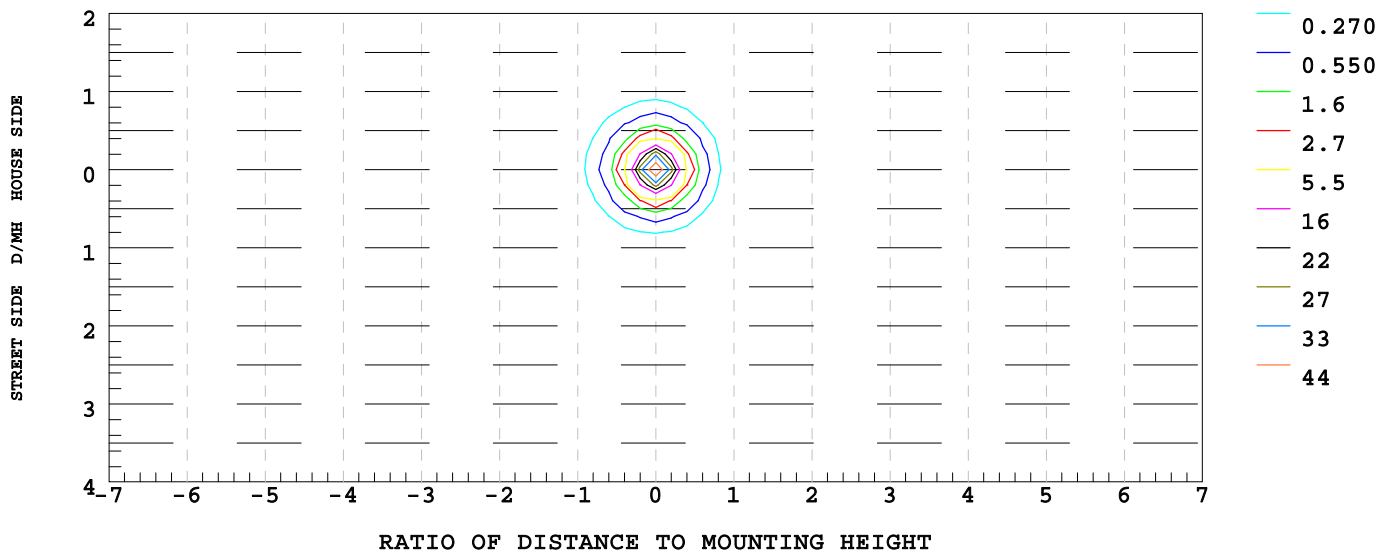
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: PAR36-30°-3000K-15W		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.: 1

ILLUMINANCE AT MH=10 m,Enadir = 54.83 lx



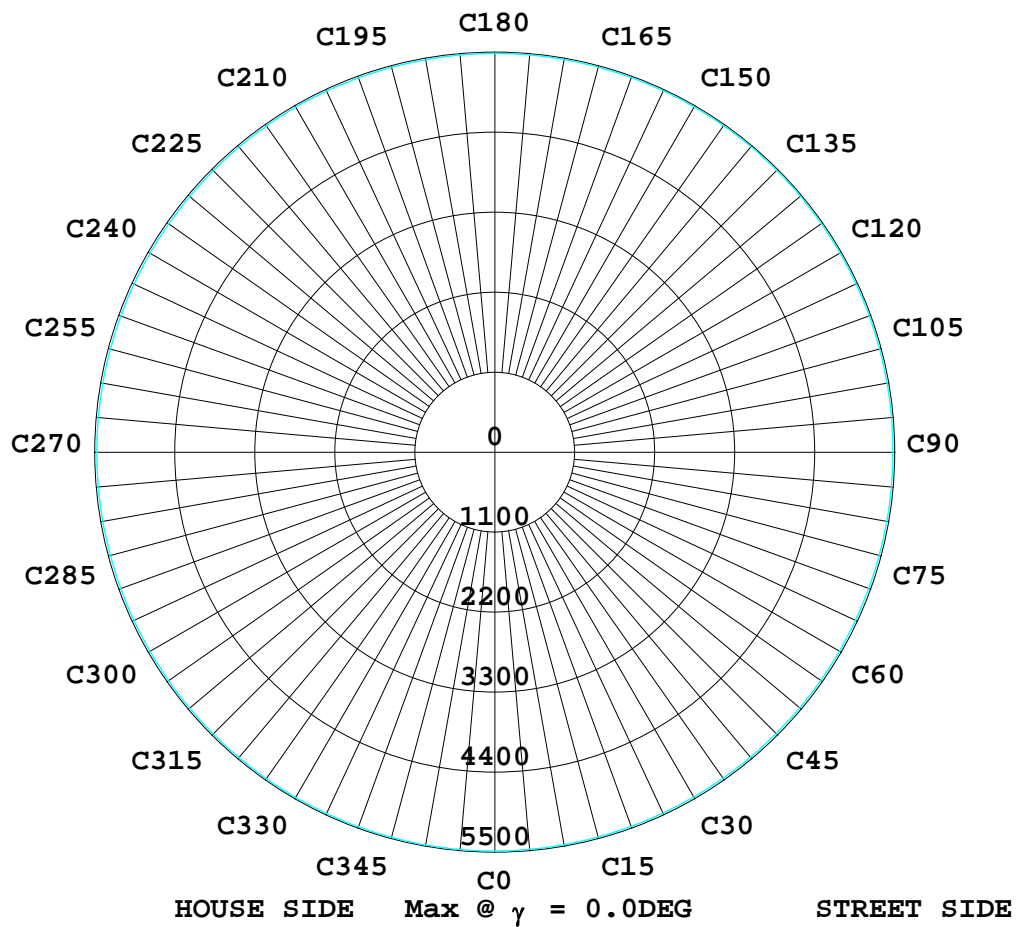
Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2020年05月26日

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: PAR36-30°-3000K-15W		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K):	DIMENSION:	SERIAL No.: 1



Test System:HOPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:2020年05月26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: PAR36-30°-3000K-15W		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.: 1

UNIT: cd

C(DEG)					
γ (DEG)		0	90	180	270
0.0		5483	5473	5483	5473
5.0		5036	4930	4897	5005
10.0		3619	3542	3562	3698
15.0		1952	1874	1957	2065
20.0		845	754	814	886
25.0		333	282	312	354
30.0		158	127	140	162
35.0		97.0	75.2	81.7	95.4
40.0		70.2	55.3	56.6	67.7
45.0		54.5	43.6	43.1	52.2
50.0		41.8	33.5	32.1	39.4
55.0		29.3	23.8	23.6	29.2
60.0		20.8	14.5	16.1	19.9
65.0		13.3	8.89	9.21	12.4
70.0		8.00	4.28	4.86	6.91
75.0		4.35	1.02	1.85	4.22
80.0		3.00	0.38	0.77	3.07
85.0		2.62	0.38	0.58	2.56
90.0		2.36	0.32	0.58	2.36
95.0		2.24	0.38	0.58	2.17
100.0		2.04	0.38	0.64	2.04
105.0		1.98	0.38	0.70	1.85
110.0		1.85	0.45	0.77	1.85
115.0		1.79	0.51	0.77	1.79
120.0		1.72	0.58	0.90	1.72
125.0		1.72	0.64	0.96	1.66
130.0		1.72	0.77	1.15	1.72
135.0		1.92	1.08	1.47	1.92
140.0		2.36	1.66	2.11	2.49
145.0		3.07	2.49	3.13	3.32
150.0		4.09	3.58	4.28	4.48
155.0		5.24	4.73	5.56	5.56
160.0		6.33	5.82	6.59	6.65
165.0		6.97	6.46	7.29	7.36
170.0		7.16	6.59	7.42	7.48
175.0		7.16	6.59	7.23	7.29
180.0		7.23	6.72	7.23	7.10

Test System:HOPOO HPG1600
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