

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

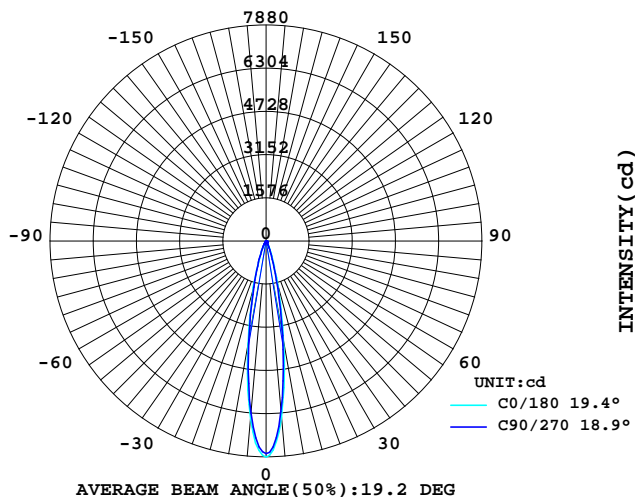
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

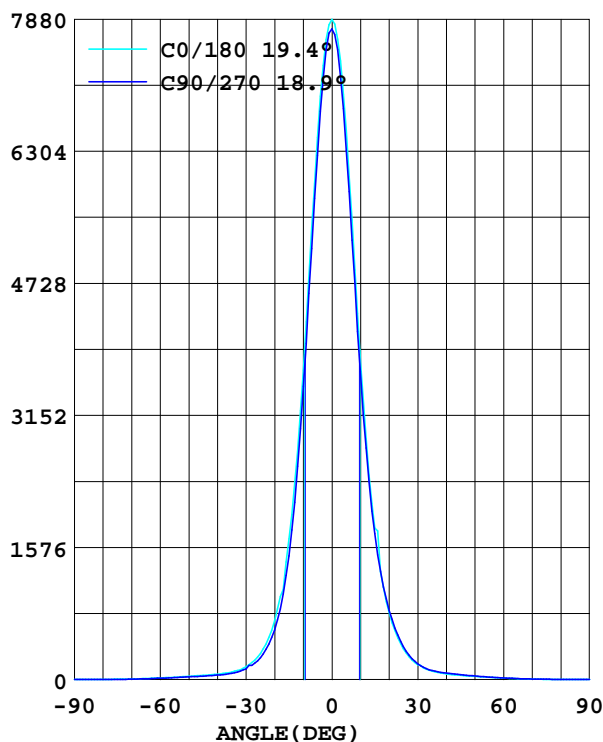
MANUFACTURER:Brilliance LED, LLC			
Address:			
NAME:PAR36 15W 3000K 15 Degree		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 1

DATA OF LAMP		Imax(cd)	7880	S/MH(C0/180)	0.33
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	0.32
NOMINAL POWER(W)	0	TOTAL FLUX(lm)	1323.9	Voltage(V)	12.15
RATED VOLTAGE(V)	12	EFFICIENCY(lm/W)		Current(A)	0
NOMINAL FLUX(lm)	1323.9	η up(%)	1.0	Power(W)	0
LAMPS QUANTITY	1	η down(%)	99.0	Power Factor(PF)	0
TEST VOLTAGE(V)	12.1	Effective Flux(lm)	982.2	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: PAR36-15°-3000K-15W		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 1

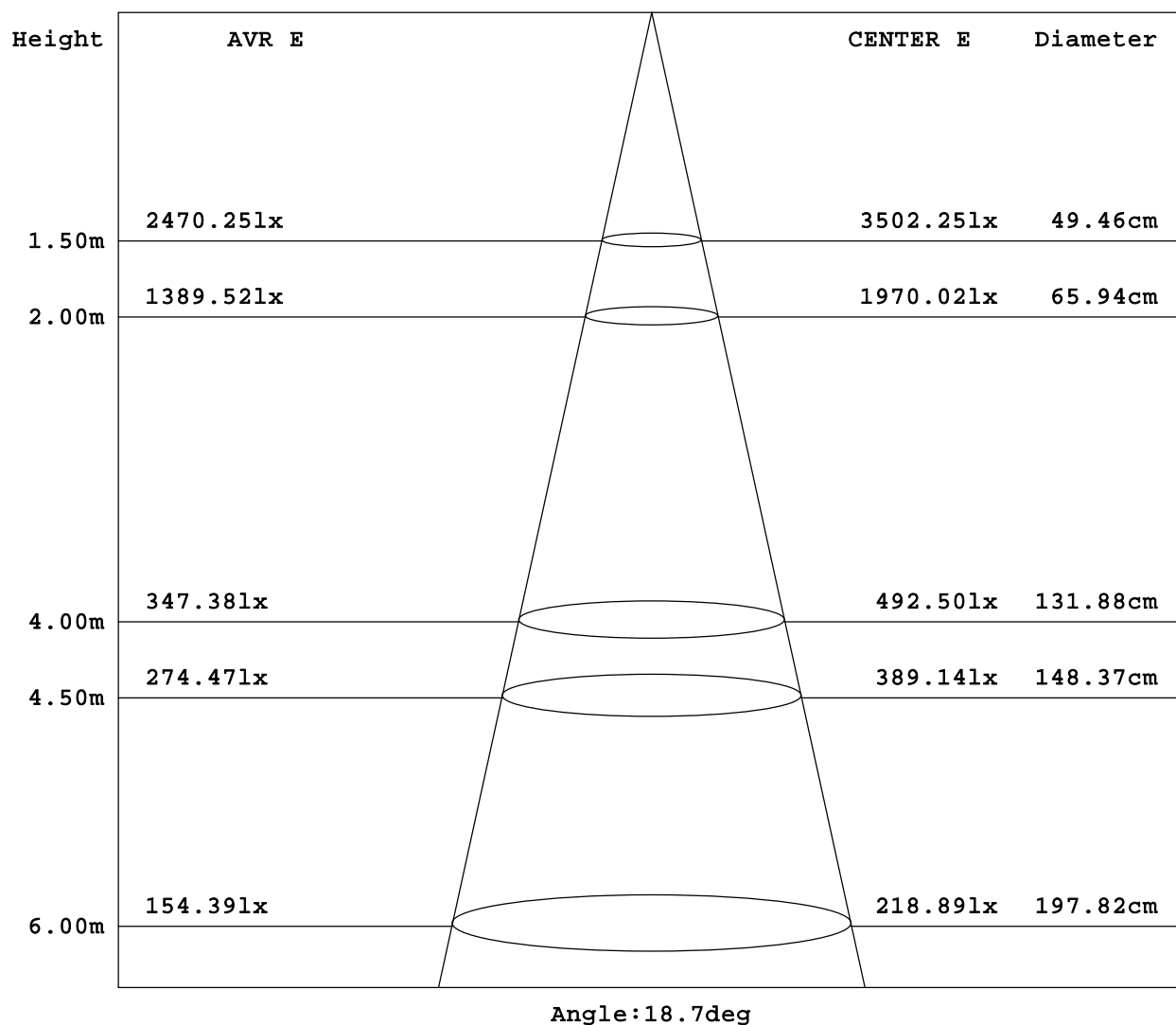
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Temperature:25.3DEG
Operators:
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AVERAGE AND CENTER E Figure

Report number:

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

γ	C0	C90	C180	C270					γ	zone	total
5.0	6470	6256	6547	6313					0- 5	169.4	169.4
10.0	3693	3502	3809	3673					5- 10	349.7	519.2
15.0	1680	1475	1809	1745					10- 15	297.6	816.8
20.0	702.1	590.4	799.4	825.0					15- 20	185.0	1002
25.0	310.5	262.7	367.3	396.0					20- 25	104.6	1107
30.0	155.9	129.2	178.9	190.3					25- 30	59.86	1166
35.0	91.07	75.26	101.6	109.1					30- 35	36.23	1203
40.0	64.38	53.56	68.28	77.50					35- 40	26.04	1229
45.0	50.56	41.72	50.88	59.00					40- 45	21.37	1250
50.0	39.04	32.57	38.20	42.49					45- 50	17.88	1268
55.0	28.22	23.29	27.52	30.08					50- 55	14.11	1282
60.0	20.67	16.38	18.17	20.73					55- 60	10.62	1293
65.0	13.69	10.11	11.07	12.28					60- 65	7.421	1300
70.0	7.680	5.056	6.464	7.168					65- 70	4.597	1305
75.0	4.480	1.792	2.560	4.224					70- 75	2.488	1307
80.0	3.008	0.448	0.896	3.072					75- 80	1.305	1309
85.0	2.624	0.384	0.576	2.624					80- 85	0.905	1309
90.0	2.368	0.320	0.576	2.368					85- 90	0.819	1310
95.0	2.240	0.384	0.640	2.240					90- 95	0.766	1311
100.0	2.112	0.384	0.640	2.048					95-100	0.728	1312
105.0	2.048	0.448	0.704	1.920					100-105	0.693	1312
110.0	1.920	0.512	0.704	1.856					105-110	0.659	1313
115.0	1.856	0.576	0.768	1.792					110-115	0.630	1314
120.0	1.792	0.576	0.832	1.728					115-120	0.603	1314
125.0	1.792	0.704	0.960	1.728					120-125	0.587	1315
130.0	1.792	0.896	1.152	1.728					125-130	0.577	1315
135.0	1.984	1.216	1.408	1.856					130-135	0.599	1316
140.0	2.432	1.728	1.984	2.304					135-140	0.678	1317
145.0	3.264	2.624	2.944	3.136					140-145	0.838	1318
150.0	4.480	3.904	4.288	4.416					145-150	1.059	1319
155.0	5.760	5.312	5.632	5.632					150-155	1.245	1320
160.0	6.784	6.336	6.784	6.784					155-160	1.288	1321
165.0	7.360	6.912	7.424	7.552					160-165	1.156	1322
170.0	7.552	7.040	7.680	7.808					165-170	0.884	1323
175.0	7.360	6.848	7.360	7.488					170-175	0.532	1324
180.0	7.232	6.784	7.168	7.232					175-180	0.172	1324
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:

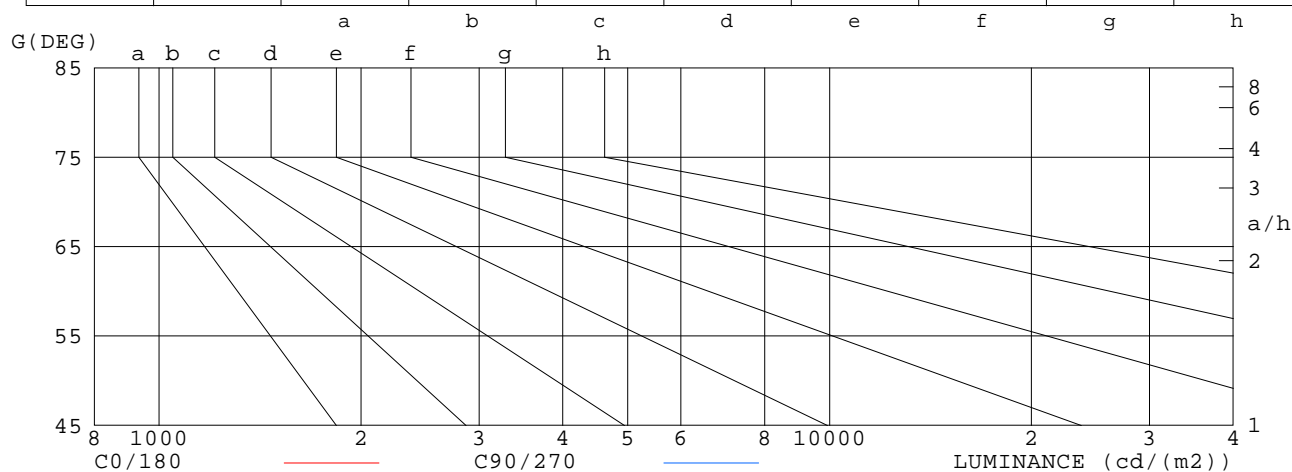
LUMINANCE LIMITATION CURVES

Report number:

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

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



LUMINANCE cd/m2		
G (DEG)	C0/180	C90/270
85	301	44
80	173	26
75	173	69
70	225	148
65	324	239
60	413	328
55	492	406
50	607	507
45	715	590

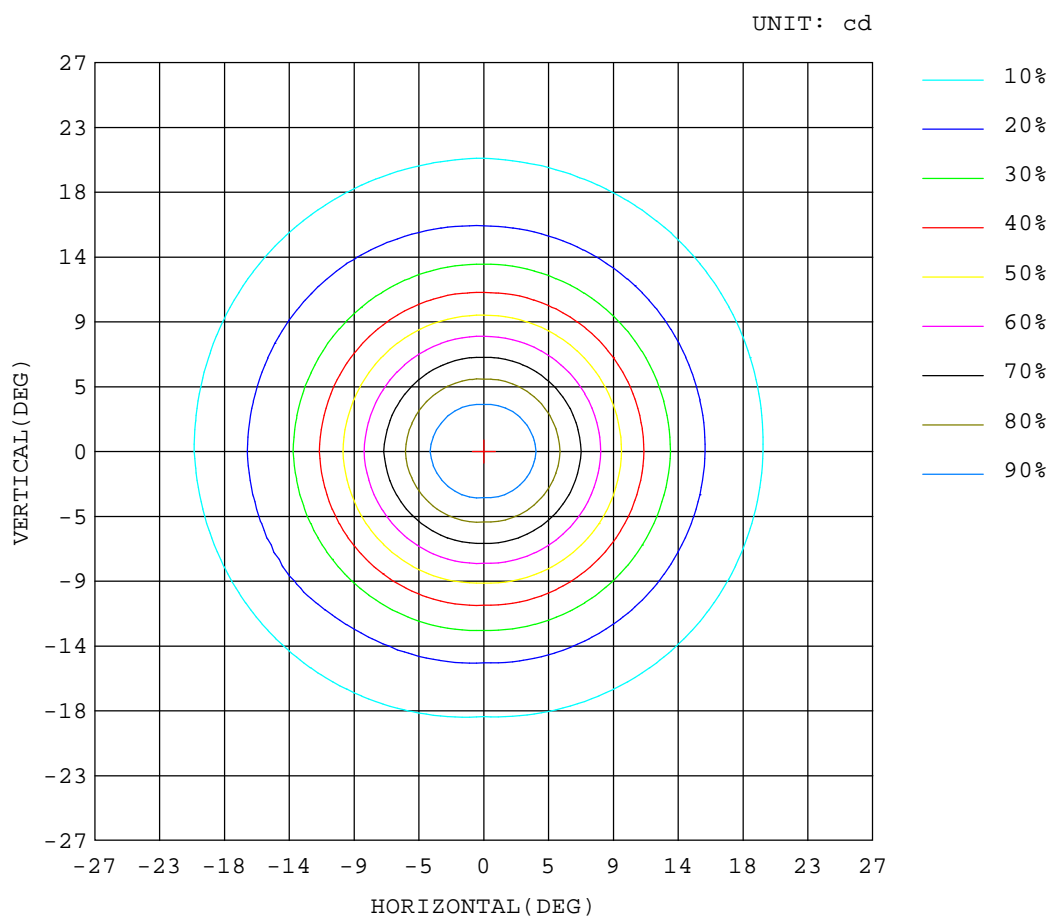
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Temperature:25.3DEG
Operators:
Test Date:2020年05月26日

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ISOCANDELA DIAGRAM

Report number:

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



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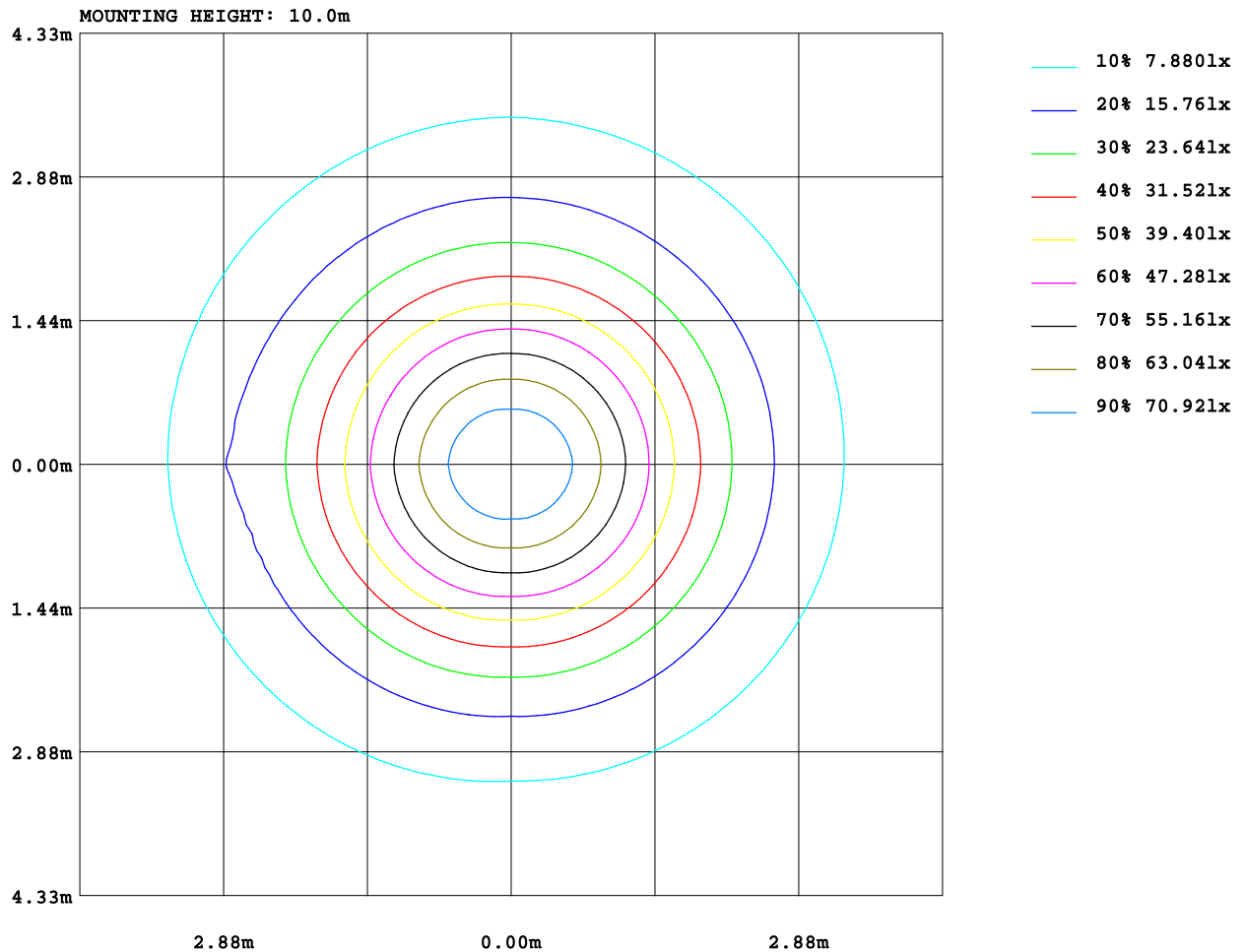
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Humidity:65.0%
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Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

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

27	AREA FLUX DIAGRAM																		UNIT:1m		Φ t	Φ a
	0.25	0.31	0.39	0.49	0.61	0.73	0.85	0.95	1.00	1.00	0.93	0.83	0.71	0.58	0.46	0.36	0.29	0.24	10.9	0.00		
24	0.30	0.40	0.52	0.69	0.88	1.09	1.30	1.46	1.56	1.55	1.43	1.26	1.05	0.84	0.65	0.49	0.36	0.28	16.1	0.00		
21	0.37	0.51	0.70	0.96	1.27	1.63	1.98	2.26	2.43	2.42	2.23	1.92	1.56	1.20	0.90	0.65	0.47	0.34	23.8	7.46		
18	0.46	0.65	0.94	1.33	1.82	2.39	2.99	3.53	3.81	3.77	3.42	2.90	2.30	1.71	1.23	0.86	0.60	0.41	35.1	24.5		
15	0.55	0.82	1.22	1.78	2.54	3.54	4.58	5.43	5.97	5.94	5.35	4.38	3.30	2.40	1.65	1.11	0.74	0.50	51.8	43.2		
12	0.65	1.00	1.53	2.31	3.52	5.01	6.67	8.30	9.26	9.23	8.21	6.54	4.76	3.20	2.15	1.38	0.89	0.58	75.2	67.9		
9	0.74	1.17	1.83	2.89	4.63	6.67	9.38	11.9	13.4	13.4	11.8	9.20	6.47	4.22	2.63	1.65	1.02	0.65	104	97.1		
VERTICAL (DEG)	0.81	1.30	2.08	3.52	5.44	8.36	12.0	15.5	17.6	17.6	15.3	11.8	8.10	5.15	3.05	1.88	1.13	0.70	132	126		
	0.85	1.37	2.23	3.89	6.00	9.46	13.7	17.9	20.4	20.4	17.7	13.5	9.15	5.70	3.31	2.00	1.18	0.73	150	144		
	0.84	1.35	2.20	3.85	5.95	9.41	13.7	17.8	20.4	20.4	17.7	13.4	9.10	5.65	3.27	1.97	1.16	0.72	149	143		
	0.78	1.25	2.00	3.41	5.31	8.23	11.8	15.4	17.5	17.5	15.2	11.7	7.97	5.01	2.93	1.79	1.08	0.67	130	124		
	0.70	1.09	1.71	2.70	4.42	6.43	9.14	11.6	13.1	13.1	11.5	8.96	6.23	4.00	2.45	1.53	0.95	0.61	101	93.9		
	0.60	0.91	1.38	2.09	3.23	4.67	6.29	7.90	8.82	8.79	7.81	6.16	4.43	2.91	1.93	1.23	0.80	0.53	70.5	63.0		
	0.50	0.73	1.06	1.55	2.21	3.13	4.12	4.89	5.36	5.33	4.81	3.92	2.89	2.07	1.41	0.96	0.65	0.45	46.1	36.8		
	0.41	0.57	0.80	1.11	1.51	1.98	2.48	2.93	3.13	3.09	2.83	2.38	1.89	1.40	1.01	0.72	0.51	0.37	29.1	17.2		
	0.33	0.44	0.59	0.78	1.02	1.28	1.53	1.72	1.80	1.79	1.68	1.47	1.20	0.95	0.72	0.54	0.40	0.29	18.5	0.00		
	0.26	0.34	0.44	0.56	0.69	0.83	0.96	1.05	1.08	1.07	1.02	0.92	0.79	0.64	0.52	0.41	0.30	0.24	12.1	0.00		
0.21	0.26	0.32	0.40	0.49	0.56	0.62	0.66	0.68	0.67	0.65	0.60	0.53	0.46	0.37	0.30	0.24	0.20	8.21	0.00			
-27	-27	-24	-21	-18	-15	-12	-9	-6	HORIZONTAL (DEG)				6	9	12	15	18	21	24	27		
Φ t	9.63	14.4	22.0	34.3	51.6	75.4	104	131	148	147	130	102	72.4	48.1	30.6	19.8	12.8	8.49	1324			
Φ a	0.00	0.00	6.19	23.6	42.6	67.6	97.0	125	141	140	123	95.0	64.5	39.1	19.5	2.79	0.00	0.00		982		

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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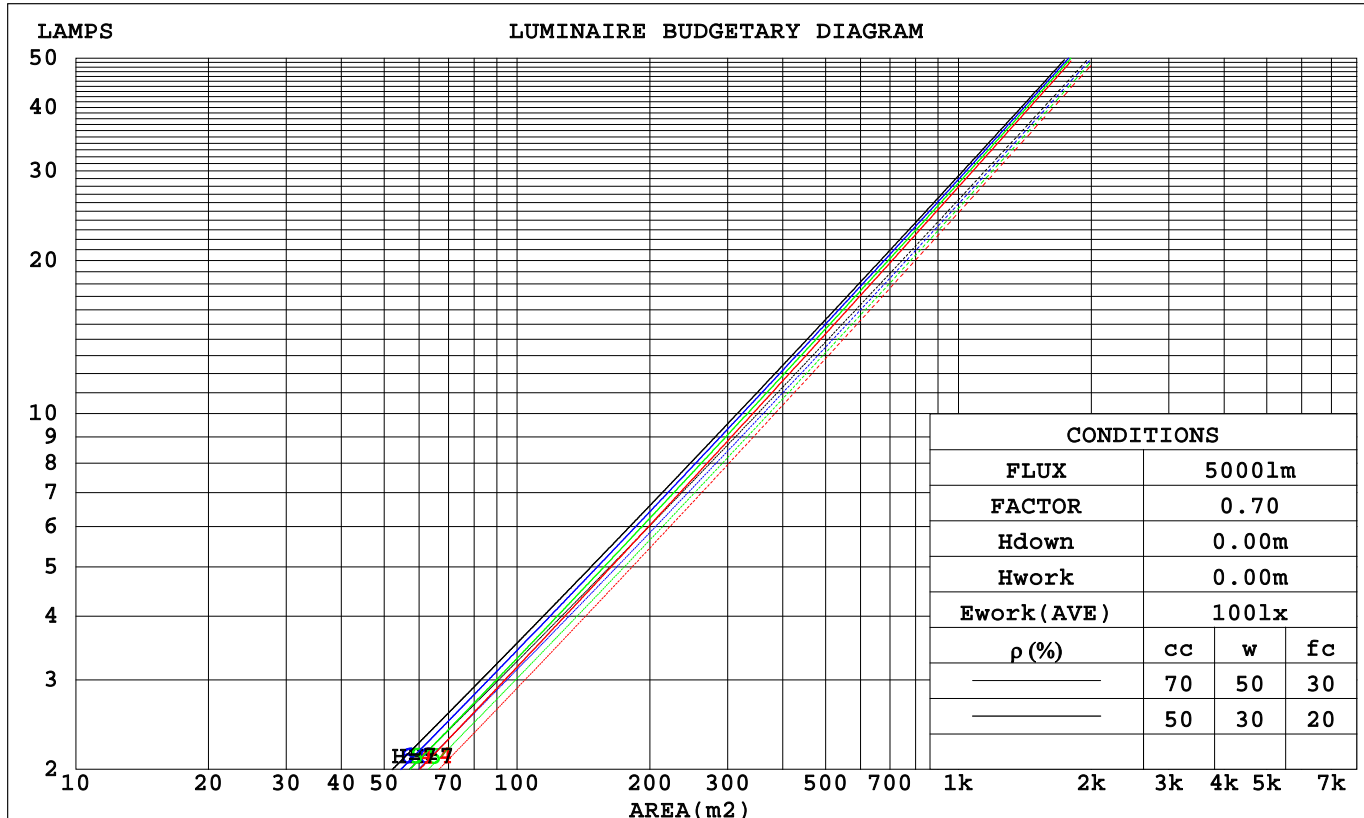
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:															
Address:															
NAME: PAR36-15°-3000K-15W								TYPE:				WEIGHT:			
SPECIFICATION:				CCT(K): 3000				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: PAR36-15°-3000K-15W						TYPE:			WEIGHT:		
SPECIFICATION:				CCT(K): 3000			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	.146	.083	.026	.139	.079	.025	.126	.072	.023	.114	.066	.021	.103	.060	.019	
2.0	.136	.074	.023	.130	.072	.022	.119	.066	.021	.109	.061	.019	.100	.056	.018	
3.0	.126	.067	.020	.121	.065	.020	.112	.061	.018	.104	.057	.017	.096	.053	.016	
4.0	.118	.061	.018	.114	.060	.018	.106	.056	.017	.099	.053	.016	.092	.050	.015	
5.0	.111	.056	.016	.107	.055	.016	.101	.052	.015	.094	.050	.015	.089	.047	.014	
6.0	.104	.052	.015	.101	.051	.015	.095	.049	.014	.090	.047	.014	.085	.045	.013	
7.0	.099	.049	.014	.096	.048	.014	.091	.046	.013	.086	.044	.013	.082	.042	.012	
8.0	.094	.046	.013	.091	.045	.013	.087	.043	.012	.083	.042	.012	.079	.040	.012	
9.0	.089	.043	.012	.087	.042	.012	.083	.041	.012	.079	.040	.011	.076	.038	.011	
10.0	.085	.041	.011	.083	.040	.011	.079	.039	.011	.076	.038	.011	.073	.037	.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	.151	.142	.134	.104	.098	.092	.060	.057	.054	.019	.018	.017	
2.0	.159	.141	.125	.137	.121	.108	.094	.084	.075	.054	.049	.044	.017	.016	.014	
3.0	.145	.121	.103	.124	.105	.089	.085	.073	.062	.049	.042	.037	.016	.014	.012	
4.0	.133	.106	.086	.114	.092	.075	.078	.064	.053	.045	.037	.031	.015	.012	.010	
5.0	.122	.094	.073	.105	.081	.064	.072	.057	.045	.042	.033	.027	.013	.011	.009	
6.0	.113	.084	.063	.097	.073	.055	.067	.051	.039	.039	.030	.023	.013	.010	.008	
7.0	.106	.076	.055	.091	.066	.048	.063	.046	.034	.037	.027	.020	.012	.009	.007	
8.0	.099	.069	.049	.085	.060	.042	.059	.042	.030	.034	.025	.018	.011	.008	.006	
9.0	.093	.064	.043	.080	.055	.038	.056	.039	.027	.032	.023	.016	.011	.008	.005	
10.0	.088	.059	.039	.076	.051	.034	.053	.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: PAR36-15°-3000K-15W						TYPE:		WEIGHT:			
SPECIFICATION:		CCT(K): 3000				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	3.5	4.2	3.8	4.4	4.6	2.8	3.4	3.0	3.6	3.8
	4H	4.0	4.6	4.2	4.8	5.0	3.0	3.7	3.3	3.9	4.1
	6H	4.1	4.7	4.3	4.9	5.1	3.0	3.6	3.3	3.9	4.1
	8H	4.1	4.7	4.4	4.9	5.2	3.0	3.5	3.3	3.8	4.0
	12H	4.2	4.7	4.5	5.0	5.2	2.9	3.5	3.2	3.7	4.0
	12H	4.2	4.8	4.6	5.1	5.3	2.9	3.4	3.2	3.7	4.0
4H 2H	3H	3.7	4.3	4.0	4.5	4.8	3.0	3.6	3.3	3.9	4.1
	4H	4.2	4.7	4.5	5.0	5.3	3.4	3.9	3.7	4.2	4.5
	6H	4.3	4.8	4.7	5.1	5.4	3.4	3.9	3.7	4.2	4.5
	8H	4.4	4.8	4.8	5.2	5.6	3.3	3.7	3.7	4.1	4.4
	12H	4.5	4.9	4.9	5.3	5.6	3.2	3.7	3.6	4.0	4.4
	12H	4.6	5.0	5.1	5.4	5.8	3.2	3.6	3.6	4.0	4.4
8H 4H	6H	4.2	4.6	4.6	5.0	5.4	3.3	3.7	3.7	4.1	4.5
	8H	4.4	4.7	4.8	5.1	5.5	3.2	3.6	3.7	4.0	4.4
	12H	4.5	4.8	5.0	5.2	5.7	3.2	3.5	3.7	3.9	4.4
	12H	4.8	5.0	5.2	5.5	6.0	3.2	3.4	3.7	3.9	4.4
12H 4H	6H	4.2	4.6	4.6	4.9	5.4	3.3	3.6	3.7	4.0	4.4
	8H	4.3	4.6	4.8	5.1	5.5	3.2	3.5	3.7	3.9	4.4
	8H	4.5	4.7	5.0	5.2	5.7	3.2	3.5	3.7	3.9	4.4
Variations with the observer position at spacings:											
S = 1.0H	+ 0.6 / - 0.9					+ 0.8 / - 1.2					
1.5H	+ 0.7 / - 0.6					+ 0.4 / - 0.5					
2.0H	+ 1.3 / - 1.3					+ 1.4 / - 1.4					

CIE Pub.117 Corrected 1324 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.0)

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: PAR36-15°-3000K-15W		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	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	86	81	77	86	80	77	73
0.80	94	89	85	94	88	85	92	88	84	80
1.00	99	93	90	98	93	89	96	92	89	85
1.25	103	97	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		

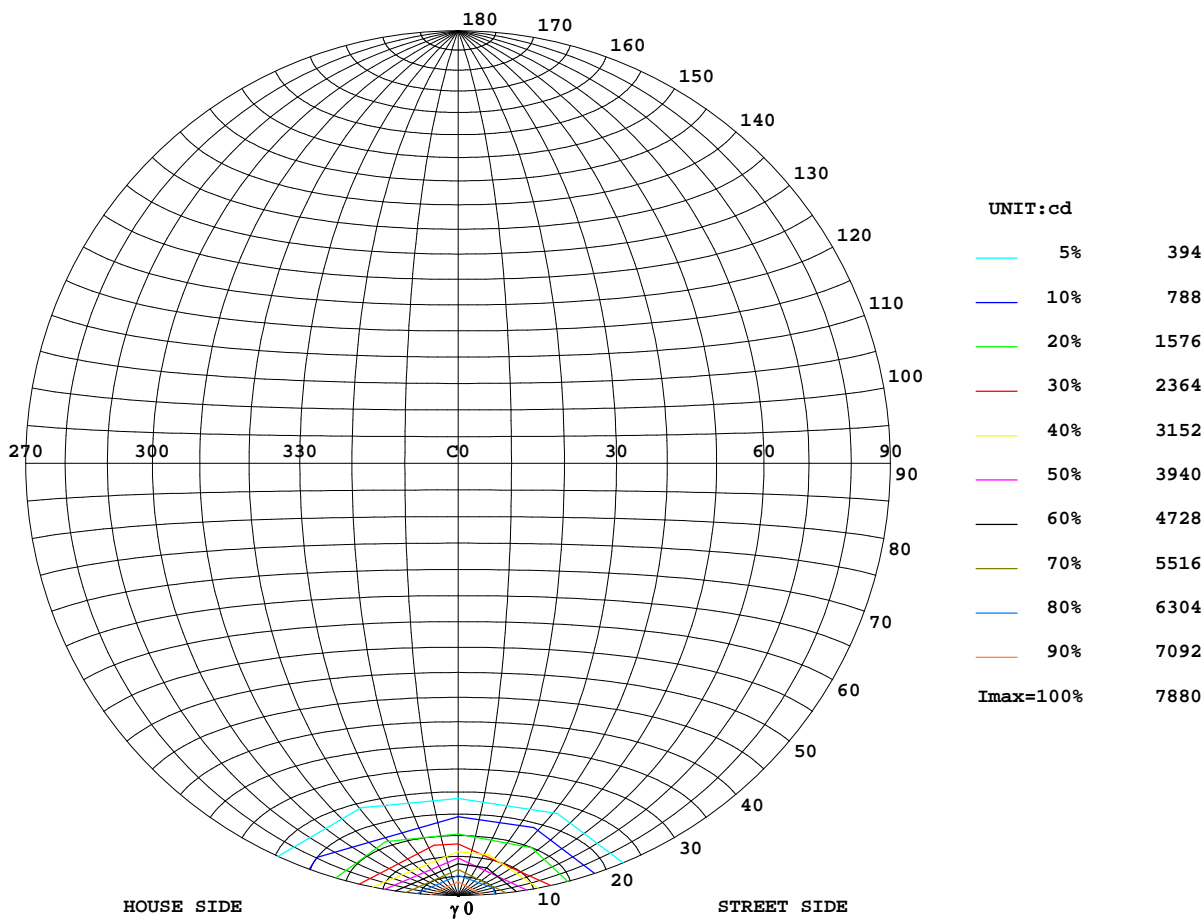
Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2020年05月26日

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: PAR36-15°-3000K-15W		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	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:

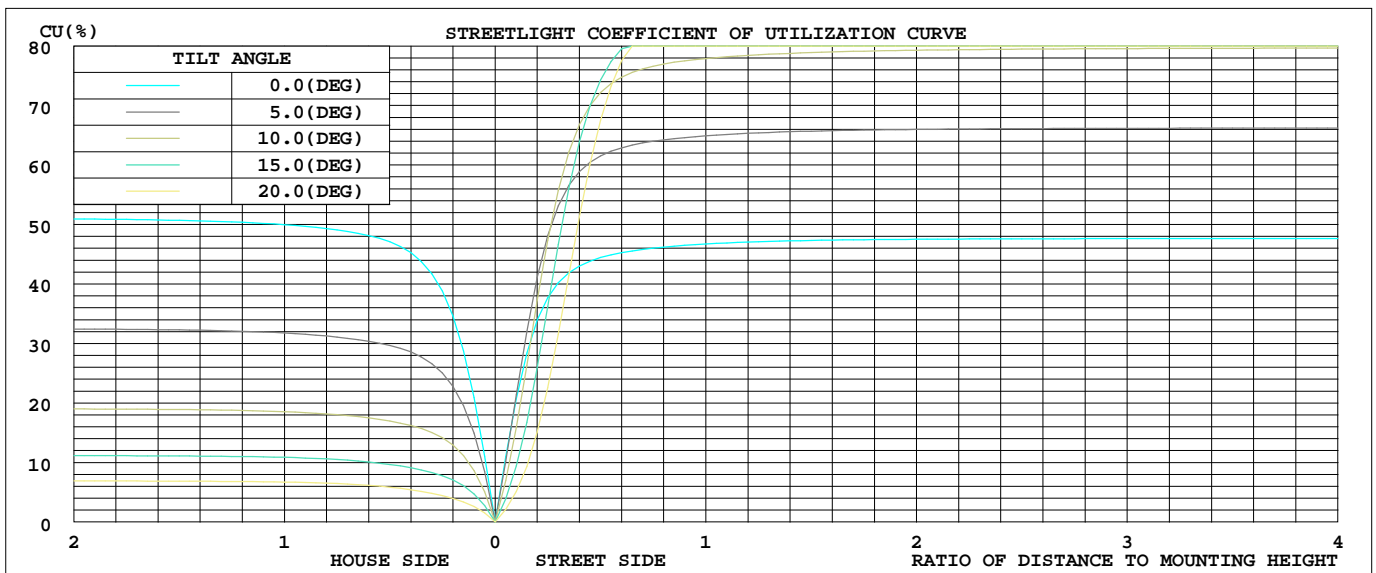
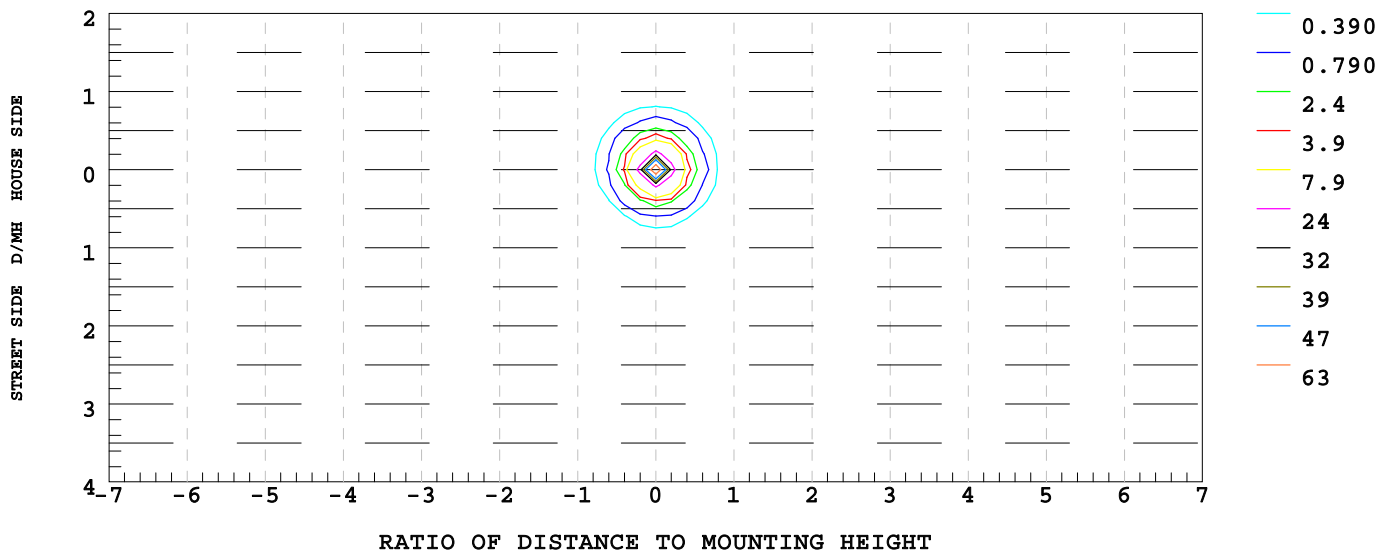
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

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

ILLUMINANCE AT MH=10 m,Enadir = 78.80 lx



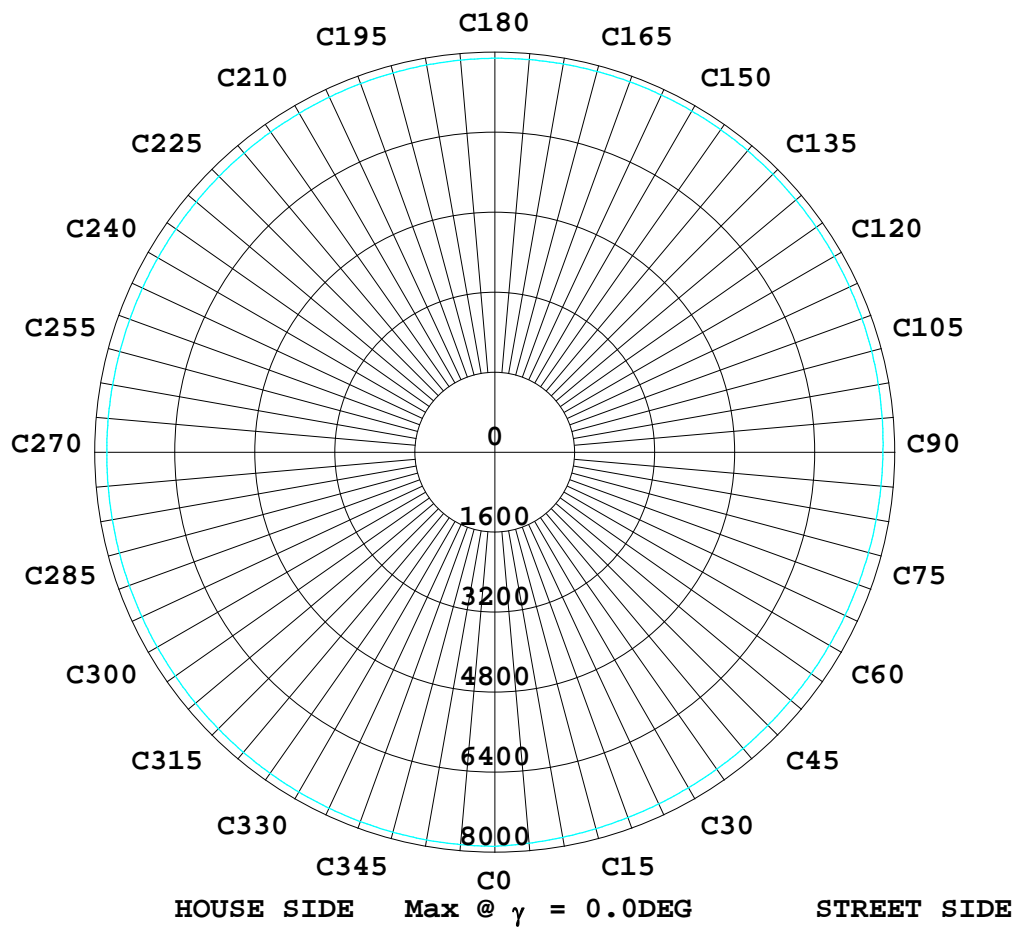
Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2020年05月26日

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

UNIT: cd

C(DEG) γ (DEG)	0	90	180	270
0.0	7880	7762	7880	7762
5.0	6470	6256	6547	6313
10.0	3693	3502	3809	3673
15.0	1680	1475	1809	1745
20.0	702	590	799	825
25.0	311	263	367	396
30.0	156	129	179	190
35.0	91.0	75.2	102	109
40.0	64.3	53.5	68.2	77.5
45.0	50.5	41.7	50.8	59.0
50.0	39.0	32.5	38.2	42.4
55.0	28.2	23.2	27.5	30.0
60.0	20.6	16.3	18.1	20.7
65.0	13.6	10.1	11.0	12.2
70.0	7.68	5.05	6.46	7.16
75.0	4.48	1.79	2.56	4.22
80.0	3.00	0.45	0.90	3.07
85.0	2.62	0.38	0.58	2.62
90.0	2.36	0.32	0.58	2.36
95.0	2.24	0.38	0.64	2.24
100.0	2.11	0.38	0.64	2.04
105.0	2.04	0.45	0.70	1.92
110.0	1.92	0.51	0.70	1.85
115.0	1.85	0.58	0.77	1.79
120.0	1.79	0.58	0.83	1.72
125.0	1.79	0.70	0.96	1.72
130.0	1.79	0.90	1.15	1.72
135.0	1.98	1.21	1.40	1.85
140.0	2.43	1.72	1.98	2.30
145.0	3.26	2.62	2.94	3.13
150.0	4.48	3.90	4.28	4.41
155.0	5.76	5.31	5.63	5.63
160.0	6.78	6.33	6.78	6.78
165.0	7.36	6.91	7.42	7.55
170.0	7.55	7.04	7.68	7.80
175.0	7.36	6.84	7.36	7.48
180.0	7.23	6.78	7.16	7.23

Test System:HOPOO HPG1600
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