

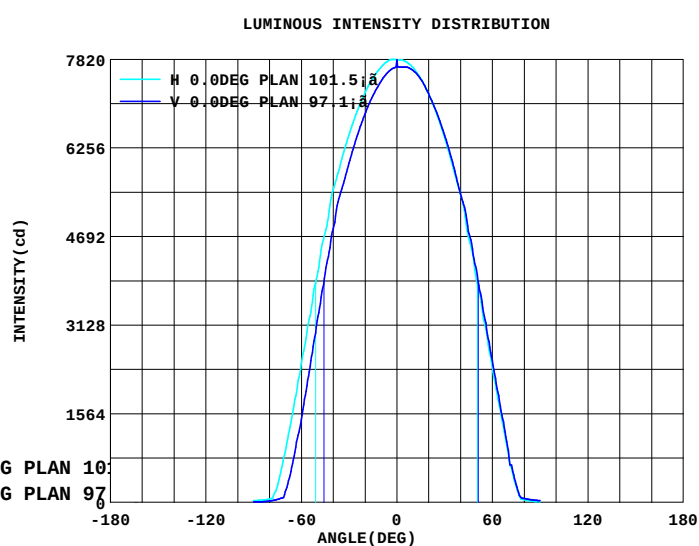
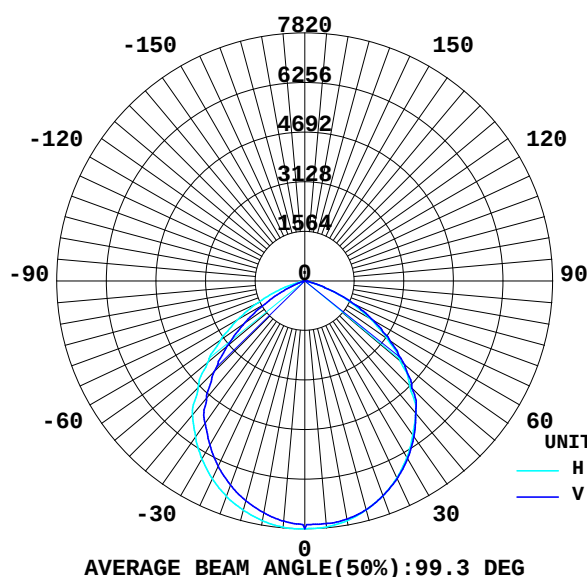
HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER:		
Address:		
NAME: 200W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 356*318*85	SERIAL No.: LA/YE6L-990706

MODEL:	SMD				
NOMINAL POWER(W):	194	Imax(cd):	7820	Voltage(V)	230.3
RATED VOLTAGE(V):	230	AVAILABILITY(%):	88.5	Current(A)	0.859
NOMINAL FLUX(lm):	17883	Avai. FLUX(lm):	15821	Power(W)	193.0
TEST FLUX(lm):	17883	EFFICIENCY(%):	100.0	Power Factor(PF)	0.974
LAMPS QUANTITY :	1	TOTAL FLUX(lm):	17883	EFFICIENCY(lm/W)	92.7
Effective Flux(lm) :	15821.3	θ @50%(H, V):	101.5, 97.1DEG	EEI:	0.166



Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-07-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

Color Temperature Data List

Report number:

MANUFACTURER:		
Address:		
NAME: 200W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 356*318*85	SERIAL No.: LA/YE6L-990706

Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-07-2020

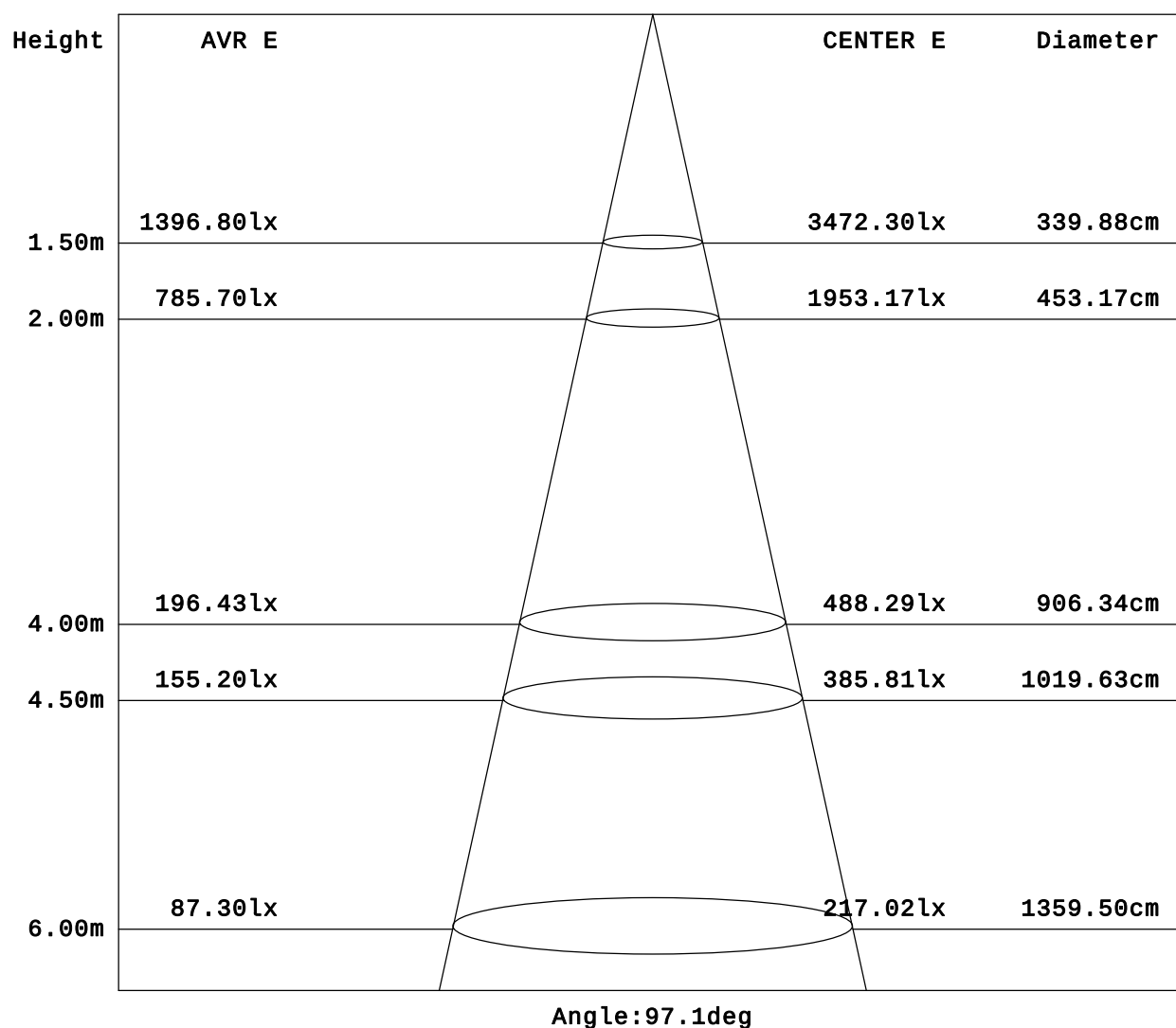
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:		
Address:		
NAME: 200W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 356*318*85	SERIAL No.: LA/YE6L-990706



Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-07-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:		
Address:		
NAME: 200W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 356*318*85	SERIAL No.: LA/YE6L-990706

VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT: lm		Φ t	Φ a
	0.09	0.26	0.44	0.63	0.82	1.00	1.17	1.30	1.39	1.36	1.22	1.04	0.84	0.62	0.43	0.26	0.13	0.03	13.0	11.8		
90	0.09	0.29	0.57	0.97	1.89	3.97	6.81	9.22	10.7	10.6	9.05	6.63	3.79	1.69	0.82	0.42	0.17	0.04	67.8	66.2		
80	0.09	0.34	0.96	4.36	12.6	24.0	35.8	45.5	51.0	50.9	45.3	35.4	23.6	12.1	4.10	0.80	0.24	0.04	348	345		
70	0.10	0.43	3.29	14.3	32.5	53.7	73.9	89.8	98.6	98.5	89.5	73.5	53.2	32.1	13.7	3.06	0.34	0.05	731	724		
60	0.10	0.73	7.80	26.4	53.0	82.8	111	133	145	145	132	110	82.2	52.4	26.0	7.33	0.60	0.06	1116	1099		
50	0.11	1.36	12.7	37.6	71.4	109	143	168	180	180	167	143	108	70.8	37.0	12.2	1.23	0.06	1443	1415		
40	0.11	2.15	16.9	46.7	86.5	129	166	193	207	207	192	165	129	85.6	46.1	16.5	1.97	0.07	1690	1652		
30	0.11	2.81	20.0	53.2	96.9	143	181	210	225	225	209	180	141	95.9	52.5	19.6	2.53	0.07	1857	1812		
	0.12	3.18	21.6	56.5	102	149	189	218	233	233	218	188	147	101	55.7	21.1	2.87	0.08	1940	1891		
	0.12	3.13	21.2	55.8	101	148	187	216	231	231	216	186	146	100	55.0	20.8	2.82	0.08	1923	1875		
	0.11	2.69	19.1	51.2	94.0	139	177	204	217	217	204	176	138	93.0	50.5	18.6	2.41	0.07	1805	1762		
-30	0.11	2.00	15.5	43.5	81.6	123	159	184	195	195	183	158	123	80.7	42.8	15.1	1.82	0.07	1604	1570		
-40	0.10	1.24	11.1	33.3	64.5	99.6	132	155	166	166	155	132	98.8	63.9	32.8	10.6	1.10	0.06	1323	1299		
-50	0.10	0.66	6.44	21.7	44.5	70.6	95.4	114	122	122	114	94.9	70.1	43.9	21.3	5.97	0.53	0.05	948	935		
-60	0.09	0.38	2.61	10.5	23.9	40.0	55.4	66.5	71.0	70.9	66.3	55.0	39.6	23.5	9.95	2.37	0.29	0.05	539	533		
-70	0.09	0.29	0.77	3.01	7.69	13.6	19.6	23.8	24.5	24.4	23.6	19.3	13.2	7.18	2.75	0.62	0.19	0.04	185	183		
-80	0.08	0.25	0.43	0.68	1.20	2.04	2.75	2.82	2.26	2.20	2.65	2.57	1.86	1.01	0.53	0.29	0.13	0.03	23.8	22.6		
-90	0.08	0.22	0.34	0.42	0.48	0.51	0.50	0.47	0.40	0.37	0.38	0.37	0.34	0.29	0.23	0.16	0.09	0.03	5.68	4.76		
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)				20	30	40	50	60	70	80	90		
Φ t	1.77	22.4	162	461	878	1333	1736	2034	2181	2180	2029	1727	1321	867	453	156	19.5	0.99	17883			
Φ a	0.00	0.00	0.00	461	878	1333	1736	2034	2181	2180	2029	1727	1321	867	453	0.00	0.00	0.00		15821		

Test System:HOP00 HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:10-07-2020

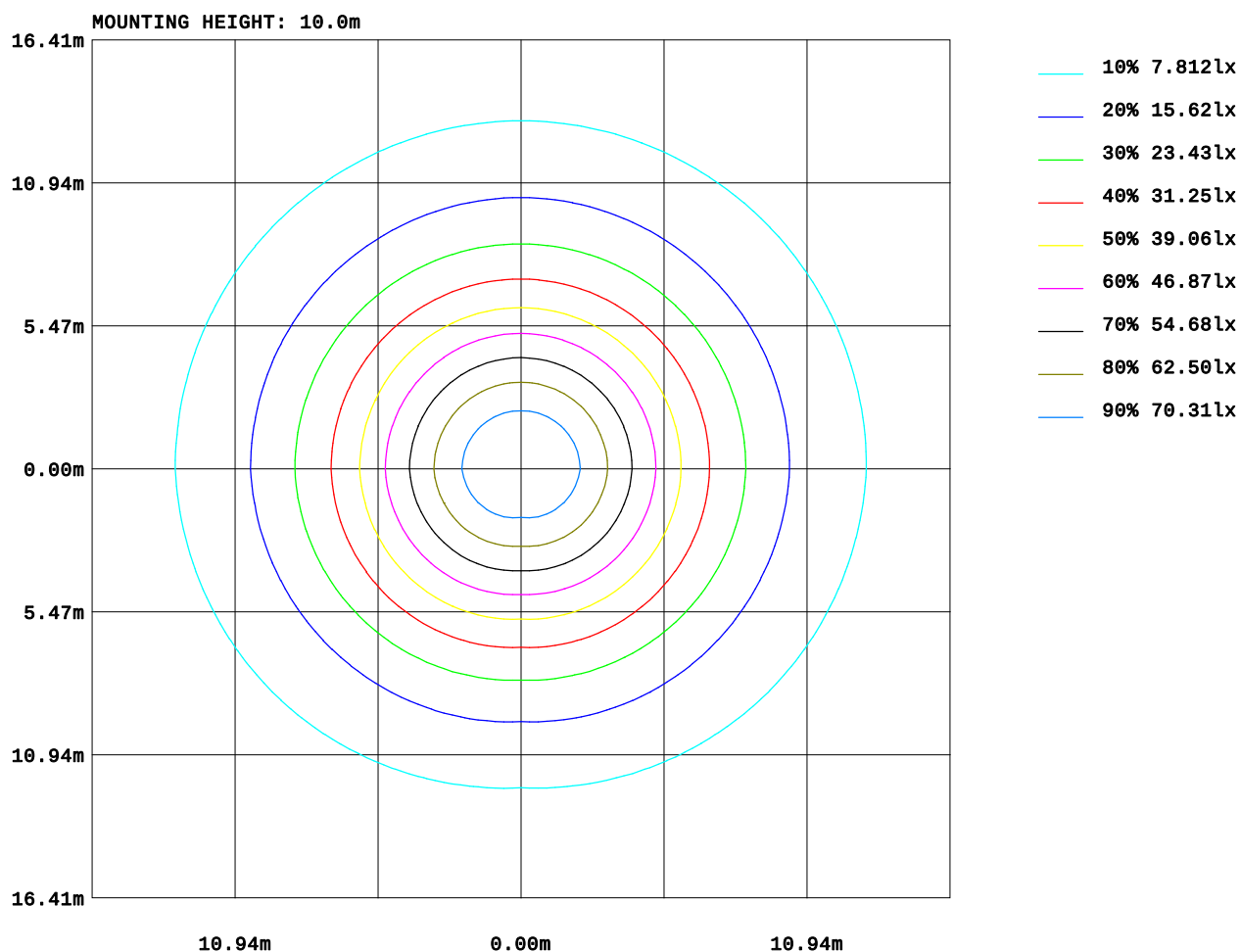
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.150 m
 Remarks:

HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 200W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 356*318*85	SERIAL No.: LA/YE6L-990706



Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-07-2020

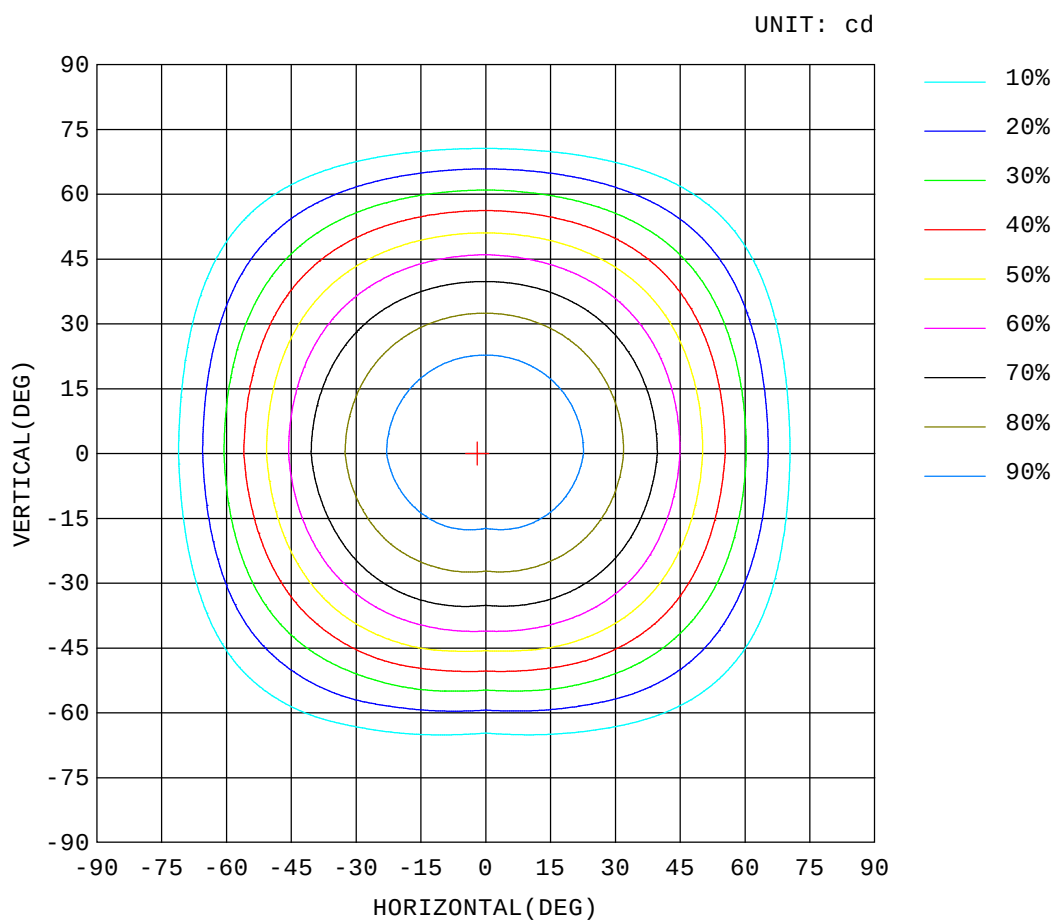
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 200W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 356*318*85	SERIAL No.: LA/YE6L-990706



Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-07-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

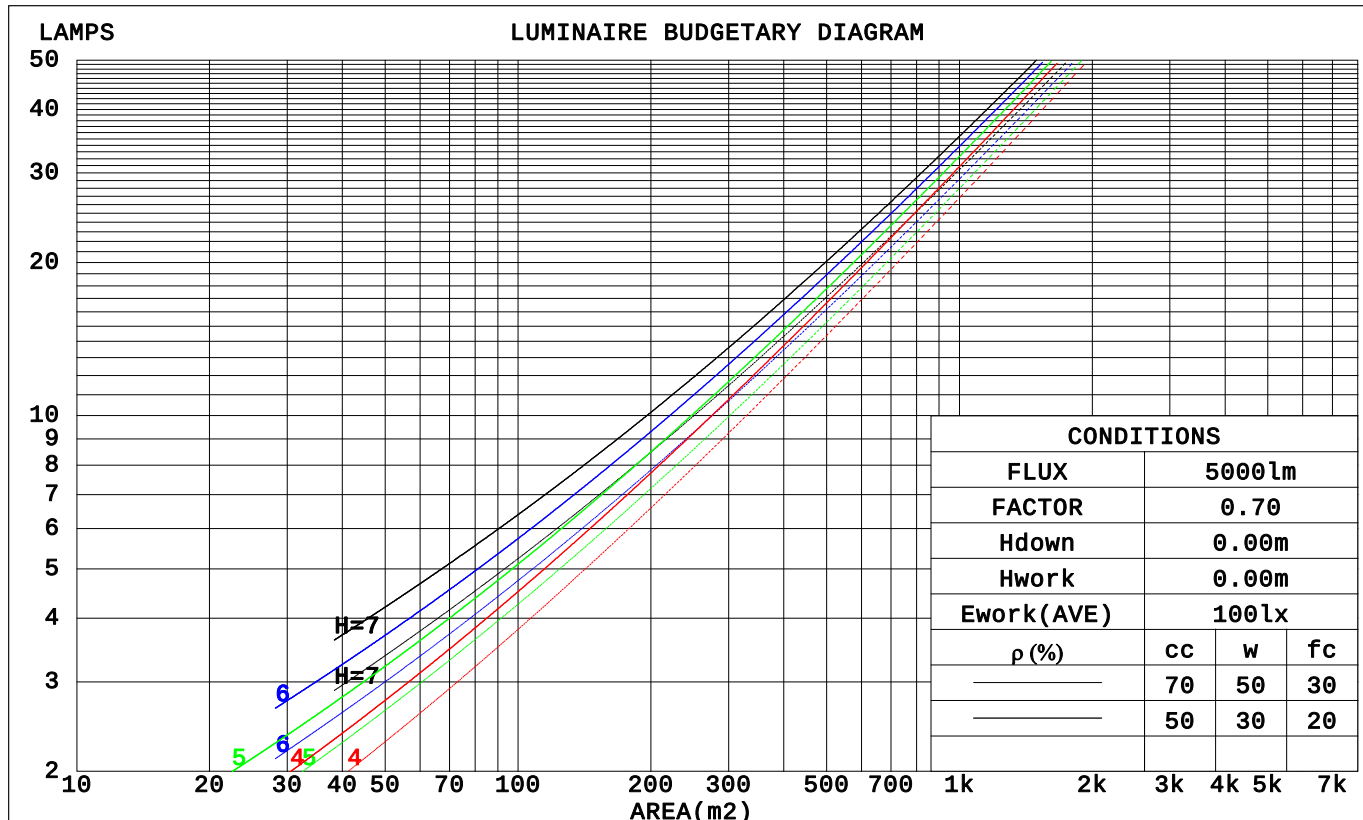
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 200W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 356*318*85	SERIAL No.: LA/YE6L-990706

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 Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	.98
1.0	1.06	1.03	.90	1.04	1.01	.98	.90	.97	.95	.95	.93	.91	.92	.90	.89	.86
2.0	.95	.89	.84	.93	.87	.83	.89	.85	.81	.86	.82	.79	.82	.79	.77	.75
3.0	.84	.77	.72	.83	.76	.71	.80	.74	.69	.77	.72	.68	.74	.70	.67	.65
4.0	.76	.68	.62	.74	.67	.61	.72	.65	.60	.69	.64	.59	.67	.62	.58	.56
5.0	.68	.60	.54	.67	.59	.53	.65	.58	.53	.63	.57	.52	.61	.55	.51	.49
6.0	.62	.53	.47	.61	.53	.47	.59	.52	.47	.57	.51	.46	.55	.50	.46	.44
7.0	.56	.48	.42	.55	.47	.42	.54	.47	.42	.52	.46	.41	.51	.45	.41	.39
8.0	.51	.43	.38	.51	.43	.38	.49	.42	.37	.48	.42	.37	.47	.41	.37	.35
9.0	.47	.39	.34	.47	.39	.34	.45	.39	.34	.44	.38	.34	.43	.37	.33	.32
10.0	.44	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.31	.40	.34	.30	.29



Test System:HOP00 HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:10-07-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.150 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 200W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 356*318*85	SERIAL No.: LA/YE6L-990706

γ	C0	C90	C180	C270					γ	zone	total
5.0	7791	7606	7798	7681					0- 5	184.9	184.9
10.0	7679	7426	7678	7629					5- 10	548.2	733.2
15.0	7478	7178	7487	7469					10- 15	890.0	1623
20.0	7212	6853	7230	7212					15- 20	1198	2821
25.0	6864	6462	6895	6887					20- 25	1458	4279
30.0	6434	5988	6492	6479					25- 30	1661	5939
35.0	5945	5485	6009	6004					30- 35	1797	7737
40.0	5444	4827	5512	5447					35- 40	1865	9601
45.0	4681	4051	4763	4780					40- 45	1836	11437
50.0	3933	3209	3996	4114					45- 50	1699	13137
55.0	3173	2304	3235	3285					50- 55	1481	14618
60.0	2405	1456	2455	2506					55- 60	1203	15821
65.0	1633	742.3	1635	1695					60- 65	879.1	16700
70.0	873.3	191.2	891.9	920.7					65- 70	538.9	17239
75.0	282.5	51.50	292.0	320.7					70- 75	234.3	17474
80.0	46.17	22.30	58.98	71.15					75- 80	56.77	17531
85.0	20.95	8.938	37.29	44.42					80- 85	20.20	17551
90.0	11.29	9.309	32.38	32.06					85- 90	12.84	17564
95.0	13.52	12.01	39.12	34.69					90- 95	12.49	17576
100.0	17.26	15.75	46.33	40.84					95-100	14.87	17591
105.0	21.96	20.18	53.57	47.18					100-105	17.58	17609
110.0	26.81	24.55	60.68	53.54					105-110	20.16	17629
115.0	31.61	28.19	67.31	59.86					110-115	22.31	17651
120.0	36.20	31.03	72.61	64.84					115-120	23.80	17675
125.0	39.49	34.79	77.76	69.51					120-125	24.60	17699
130.0	42.51	37.90	82.40	74.13					125-130	24.92	17724
135.0	44.37	41.16	86.80	78.42					130-135	24.64	17749
140.0	46.67	44.58	90.25	82.03					135-140	23.80	17773
145.0	50.65	48.19	92.37	83.62					140-145	22.46	17795
150.0	55.43	53.04	93.43	83.78					145-150	20.62	17816
155.0	61.53	59.27	95.40	85.64					150-155	18.57	17834
160.0	68.34	65.61	96.80	87.20					155-160	16.23	17851
165.0	75.45	72.53	98.00	88.77					160-165	13.42	17864
170.0	82.98	78.66	99.14	89.80					165-170	10.16	17874
175.0	90.20	84.07	99.56	89.99					170-175	6.393	17881
180.0	94.84	88.05	96.54	87.12					175-180	2.183	17883
DEG	LUMINOUS INTENSITY:cd								UNIT: lm		

Test System:HOP00 HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:10-07-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.150 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Report number:

MANUFACTURER:														
Address:														
NAME: 200W							TYPE: SLIM					WEIGHT:		
SPECIFICATION:							DIMENSION: 356*318*85					SERIAL No.: LA/YE6L-990706		

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	.251	.143	.045	.244	.139	.044	.230	.132	.042	.217	.125	.040	.205	.119	.038		
2.0	.246	.135	.041	.240	.132	.041	.228	.127	.039	.216	.121	.038	.206	.116	.037		
3.0	.235	.125	.037	.229	.123	.037	.218	.118	.036	.208	.114	.035	.199	.110	.034		
4.0	.221	.115	.034	.216	.113	.033	.207	.110	.033	.198	.106	.032	.190	.103	.031		
5.0	.208	.106	.031	.204	.105	.030	.195	.102	.030	.187	.099	.029	.180	.096	.029		
6.0	.196	.098	.028	.192	.097	.028	.184	.094	.027	.177	.092	.027	.170	.090	.027		
7.0	.184	.091	.026	.180	.090	.026	.174	.088	.025	.167	.086	.025	.161	.084	.025		
8.0	.173	.085	.024	.170	.084	.024	.164	.082	.023	.158	.080	.023	.153	.078	.023		
9.0	.164	.079	.022	.161	.078	.022	.155	.077	.022	.150	.075	.021	.145	.074	.021		
10.0	.155	.074	.021	.152	.073	.020	.147	.072	.020	.142	.071	.020	.138	.069	.020		

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	.204	.204	.204	.174	.174	.174	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.190	.170	.153	.163	.146	.131	.111	.101	.091	.064	.058	.053	.020	.019	.017	
2.0	.180	.146	.117	.154	.126	.101	.106	.087	.071	.061	.051	.041	.020	.016	.014	
3.0	.172	.128	.093	.147	.110	.081	.101	.077	.057	.058	.045	.033	.019	.015	.011	
4.0	.164	.114	.076	.141	.099	.066	.097	.069	.047	.056	.040	.028	.018	.013	.009	
5.0	.157	.104	.064	.135	.090	.056	.093	.063	.040	.054	.037	.023	.017	.012	.008	
6.0	.150	.095	.056	.129	.082	.049	.089	.058	.034	.052	.034	.020	.017	.011	.007	
7.0	.144	.088	.049	.124	.077	.043	.086	.054	.030	.050	.032	.018	.016	.010	.006	
8.0	.138	.082	.044	.119	.072	.039	.082	.050	.027	.048	.030	.016	.015	.010	.005	
9.0	.132	.078	.041	.114	.067	.035	.079	.047	.025	.046	.028	.015	.015	.009	.005	
10.0	.127	.073	.038	.110	.064	.033	.076	.045	.023	.044	.026	.014	.014	.009	.005	

Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-07-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

Uncorrected UGR Table

Report number:

MANUFACTURER:										
Address:										
NAME: 200W					TYPE: SLIM			WEIGHT:		
SPECIFICATION:					DIMENSION: 356*318*85			SERIAL No.: LA/YE6L-990706		
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	26.3	27.6	26.6	27.9	28.1	25.0	26.4	25.3	26.6	26.9
3H	26.8	28.0	27.1	28.3	28.5	25.1	26.3	25.4	26.6	26.8
4H	26.8	27.9	27.1	28.2	28.5	25.0	26.2	25.3	26.4	26.7
6H	26.7	27.8	27.0	28.1	28.4	24.9	26.0	25.2	26.3	26.6
8H	26.6	27.7	27.0	28.0	28.3	24.8	25.9	25.2	26.2	26.5
12H	26.6	27.6	26.9	27.9	28.2	24.8	25.8	25.1	26.1	26.4
4H 2H	26.4	27.6	26.7	27.8	28.1	25.3	26.5	25.7	26.8	27.1
3H	26.9	28.0	27.3	28.3	28.6	25.4	26.4	25.8	26.7	27.1
4H	26.9	27.9	27.3	28.2	28.6	25.3	26.2	25.7	26.6	26.9
6H	26.9	27.7	27.3	28.0	28.4	25.2	26.0	25.6	26.4	26.8
8H	26.8	27.6	27.3	28.0	28.4	25.2	25.9	25.6	26.3	26.7
12H	26.8	27.4	27.2	27.9	28.3	25.1	25.8	25.6	26.2	26.7
8H 4H	26.8	27.6	27.3	28.0	28.4	25.2	26.0	25.7	26.4	26.8
6H	26.7	27.4	27.2	27.8	28.2	25.1	25.8	25.6	26.2	26.6
8H	26.7	27.2	27.2	27.7	28.2	25.1	25.6	25.6	26.1	26.6
12H	26.7	27.1	27.2	27.6	28.1	25.1	25.5	25.6	26.0	26.5
12H 4H	26.8	27.5	27.2	27.9	28.3	25.2	25.9	25.6	26.3	26.7
6H	26.7	27.2	27.2	27.7	28.2	25.1	25.6	25.6	26.1	26.6
8H	26.7	27.1	27.2	27.6	28.1	25.1	25.5	25.6	26.0	26.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.5					+ 0.9 / - 1.2				
1.5H	+ 0.3 / - 0.5					+ 0.4 / - 0.6				
2.0H	+ 1.2 / - 1.6					+ 1.2 / - 2.3				

CIE Pub.117 Corrected 17883 lm Total Lamp Luminous Flux.(8log(F/F0) = 10.0)

Test System:HOP00 HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:10-07-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.150 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:		
Address:		
NAME: 200W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 356*318*85	SERIAL No.: LA/YE6L-990706

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) $k(RI) \times RCR = 5$									
$k = 0.60$	62	51	45	61	51	45	60	51	45	39
0.80	73	62	56	72	62	55	70	61	55	49
1.00	81	72	65	80	71	65	78	72	64	58
1.25	88	79	73	87	78	73	84	77	72	65
1.50	93	84	79	91	84	78	88	82	77	70
2.00	99	92	87	97	91	86	94	88	84	77
2.50	102	96	91	100	94	90	96	92	88	80
3.00	105	99	95	103	98	94	99	95	91	83
4.00	108	104	100	106	102	98	102	98	96	87
5.00	110	106	103	108	104	101	103	100	98	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

Test System:HOP00 HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:10-07-2020

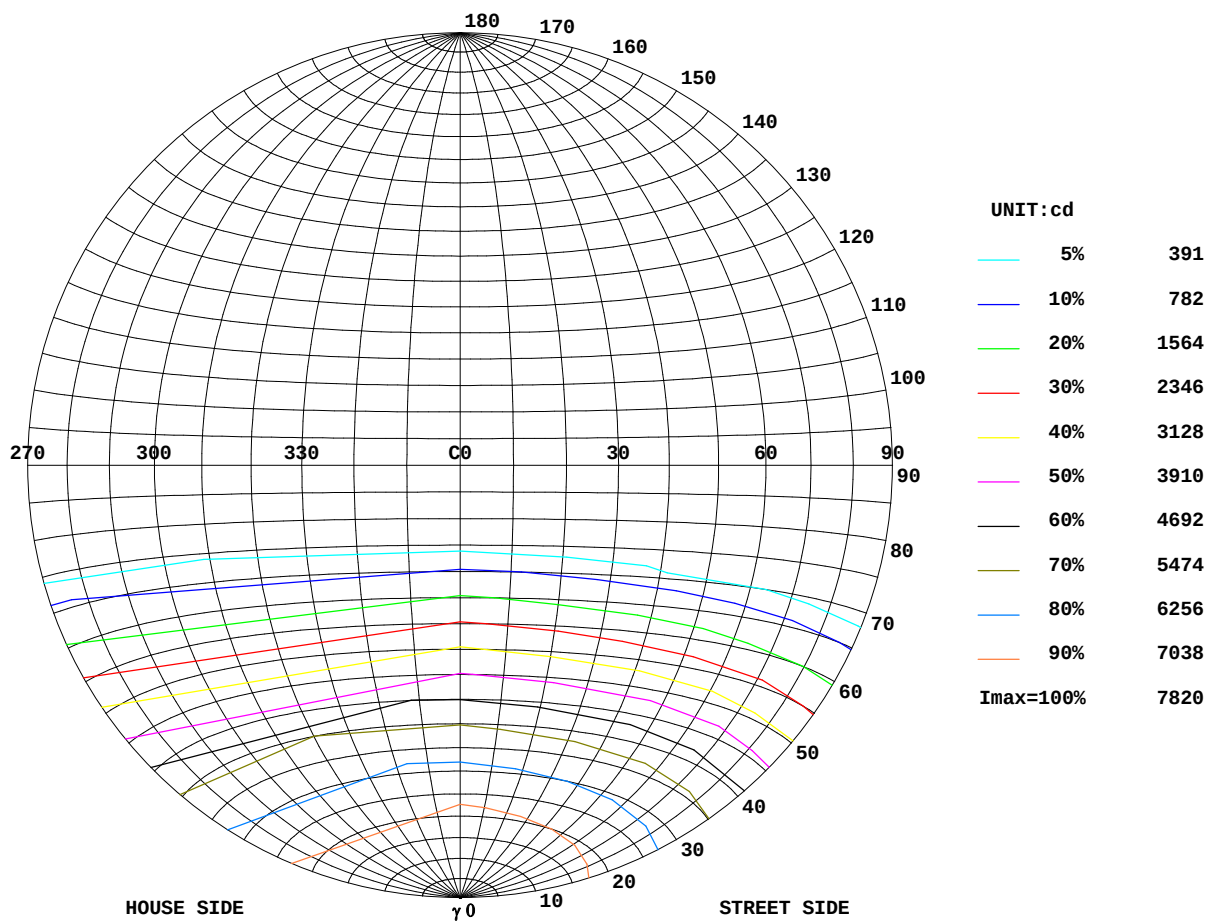
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.150 m
 Remarks:

HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 200W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 356*318*85	SERIAL No.: LA/YE6L-990706



Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-07-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

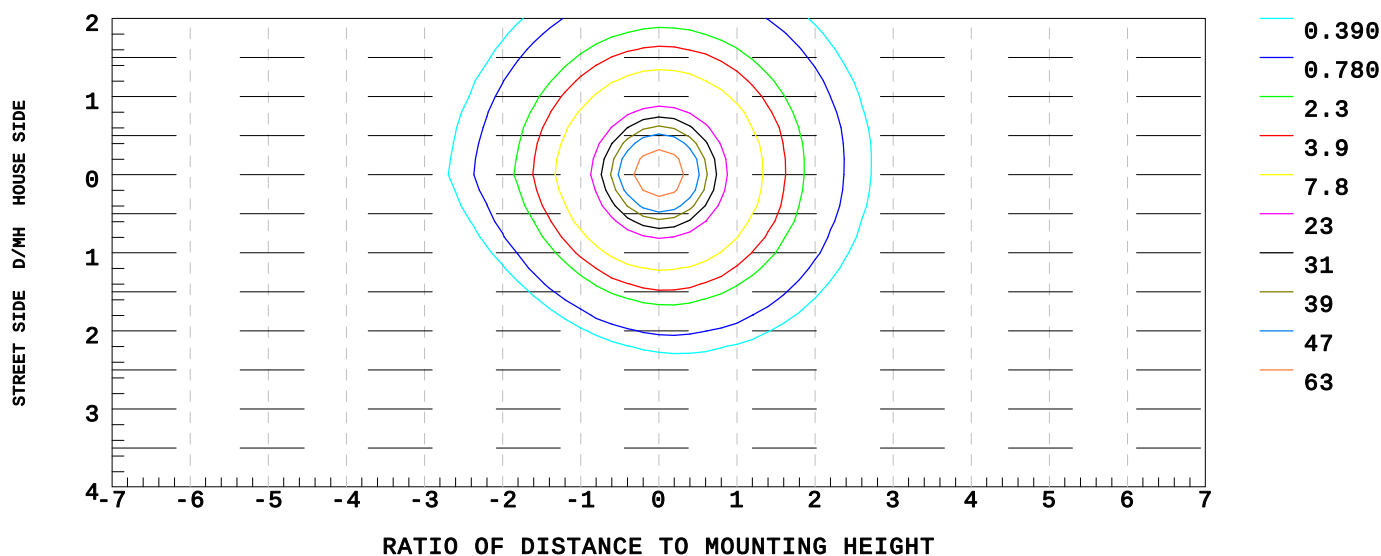
HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 200W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 356*318*85	SERIAL No.: LA/YE6L-990706

ILLUMINANCE AT MH=10 m, Enadir = 78.13 lx



Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-07-2020

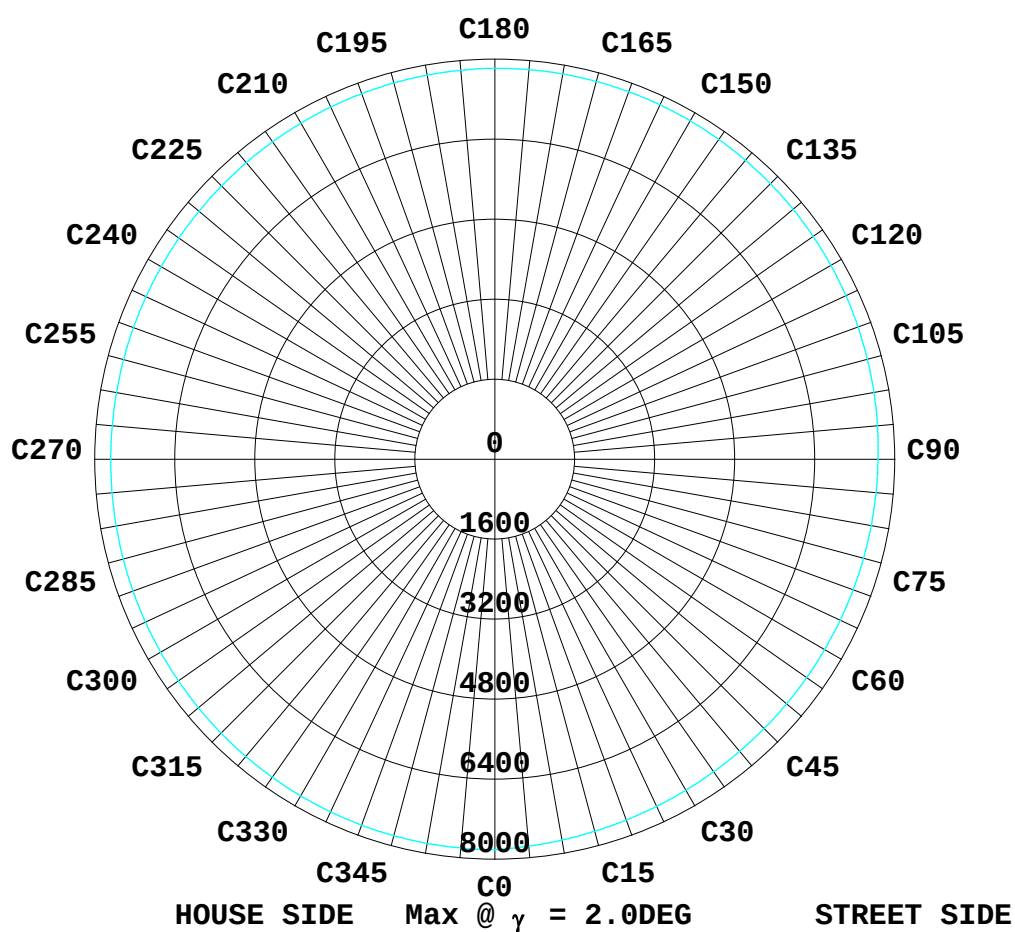
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 200W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 356*318*85	SERIAL No.: LA/YE6L-990706



Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-07-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:		
Address:		
NAME: 200W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 356*318*85	SERIAL No.: LA/YE6L-990706

UNIT: cd

H(DEC)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20
V(DEC)	-90.0	-85.0	-80.0	-75.0	-70.0	-65.0	-60.0	-55.0	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0
-90.0	32.3	31.1	29.8	28.5	27.2	25.9	24.6	23.4	22.1	20.8	19.5	18.2	17.0	15.7	14.4
-85.0	32.3	30.9	29.4	28.3	27.3	26.2	25.0	23.8	22.6	21.3	20.0	18.7	17.4	16.1	14.8
-80.0	32.3	30.7	30.0	29.3	28.7	28.2	27.9	28.0	28.1	28.1	28.4	28.6	28.8	28.6	28.0
-75.0	32.3	30.9	30.8	30.8	31.3	32.7	34.7	37.7	40.9	44.4	47.9	57.9	76.9	81.0	81.3
-70.0	32.3	31.4	31.8	33.0	35.7	40.3	46.5	54.3	91.4	125	174	215	241	249	243
-65.0	32.3	31.8	33.0	36.2	42.3	51.6	73.8	145	245	340	415	512	610	684	741
-60.0	32.3	32.2	34.5	40.2	50.9	77.5	186	340	488	658	842	1018	1180	1330	1432
-55.0	32.3	32.6	36.5	45.7	62.0	166	368	579	838	1097	1366	1623	1809	2011	2151
-50.0	32.3	33.1	38.5	51.8	116	307	578	895	1228	1577	1894	2217	2518	2735	2929
-45.0	32.3	33.7	40.6	58.6	175	474	815	1223	1642	2064	2446	2830	3197	3475	3704
-40.0	32.3	34.2	43.3	66.2	275	648	1080	1573	2047	2522	2990	3439	3824	4159	4440
-35.0	32.3	34.8	46.1	89.2	388	812	1337	1919	2443	2985	3520	4019	4434	4813	5109
-30.0	32.3	35.3	49.0	143	501	1005	1589	2200	2841	3441	3983	4506	5020	5377	5646
-25.0	32.3	35.8	51.5	171	602	1165	1792	2479	3121	3775	4405	4978	5446	5787	6057
-20.0	32.3	36.2	53.9	198	703	1306	2034	2694	3410	4109	4715	5348	5779	6132	6434
-15.0	32.3	36.5	55.8	235	778	1436	2151	2933	3684	4422	5050	5618	6043	6424	6739
-10.0	32.3	36.8	57.3	264	832	1531	2292	3094	3829	4577	5319	5804	6257	6649	6969
-5.0	32.3	37.1	58.3	283	870	1598	2398	3182	3937	4697	5441	5936	6406	6809	7133
0.0	32.3	37.2	58.9	292	892	1635	2455	3235	3996	4763	5512	6009	6492	6895	7230
5.0	32.3	37.2	58.8	287	884	1622	2432	3220	3979	4739	5482	5976	6454	6860	7187
10.0	32.3	37.2	58.2	271	859	1579	2358	3171	3914	4668	5401	5880	6353	6752	7079
15.0	32.3	37.0	57.2	245	816	1506	2248	3047	3807	4558	5199	5731	6185	6579	6905
20.0	32.3	36.8	55.7	208	748	1400	2159	2843	3584	4289	4903	5527	5950	6340	6654
25.0	32.3	36.6	53.7	181	659	1277	1935	2663	3327	4006	4657	5243	5663	6030	6339
30.0	32.3	36.2	51.5	151	558	1127	1765	2424	3095	3712	4277	4796	5330	5658	5948
35.0	32.3	35.8	48.9	95.3	439	937	1525	2163	2732	3303	3871	4392	4800	5246	5505
40.0	32.3	35.4	46.3	71.5	317	755	1284	1841	2375	2884	3379	3874	4284	4669	4953
45.0	32.3	34.9	43.7	64.2	202	578	1009	1492	1962	2475	2890	3313	3715	4045	4303
50.0	32.3	34.4	41.8	57.9	130	382	731	1158	1567	1967	2385	2752	3110	3354	3632
55.0	32.3	33.9	39.9	51.7	70.8	206	491	781	1161	1499	1857	2175	2447	2686	2885
60.0	32.3	33.5	37.9	46.1	60.3	92.4	250	492	719	1015	1303	1543	1796	1973	2183
65.0	32.3	33.1	36.4	42.0	51.2	63.8	92.6	208	386	581	717	948	1142	1315	1448
70.0	32.3	32.7	35.0	38.6	43.9	51.8	61.8	72.1	125	207	327	447	564	658	685
75.0	32.3	32.2	33.8	36.0	39.0	43.0	48.0	54.4	61.4	67.3	74.6	95.5	135	179	220
80.0	32.3	32.0	32.8	34.0	35.5	37.3	39.5	42.3	45.0	47.7	51.4	54.9	58.1	61.0	64.0
85.0	32.3	32.2	32.0	32.4	33.0	33.6	34.3	35.1	36.0	36.9	37.9	38.8	39.9	40.8	41.8
90.0	32.3	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1

Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-07-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:		
Address:		
NAME: 200W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 356*318*85	SERIAL No.: LA/YE6L-990706

UNIT: cd

H(DEG) V(DEG)	-15	-10	-5	0	5	10	15	20	25	30	35	40	45	50	55
-90.0	13.1	11.8	10.5	9.30	9.41	9.53	9.64	9.75	9.86	9.97	10.0	10.1	10.3	10.4	10.5
-85.0	13.4	12.0	10.4	8.93	9.58	10.1	10.6	11.1	11.4	11.7	11.9	12.1	12.2	12.2	12.1
-80.0	27.1	25.8	24.2	22.3	23.5	24.3	24.9	25.0	24.7	24.1	23.2	22.1	20.9	19.7	18.4
-75.0	81.1	75.0	64.5	51.5	64.0	73.8	79.3	78.7	74.3	64.0	47.8	40.3	37.7	33.4	29.1
-70.0	242	241	225	191	223	235	224	216	235	227	201	167	119	72.3	44.4
-65.0	789	800	784	742	784	798	782	736	678	595	502	353	318	230	138
-60.0	1469	1503	1500	1456	1496	1496	1459	1416	1324	1165	1004	832	639	418	316
-55.0	2279	2344	2345	2304	2341	2336	2271	2145	1993	1789	1594	1338	1076	813	502
-50.0	3096	3172	3227	3209	3222	3163	3083	2927	2717	2498	2192	1868	1566	1212	867
-45.0	3925	3991	4062	4051	4056	3980	3906	3694	3451	3177	2802	2436	2033	1629	1196
-40.0	4638	4832	4859	4827	4853	4821	4634	4426	4131	3808	3405	2962	2511	2012	1532
-35.0	5356	5476	5510	5485	5503	5463	5338	5085	4802	4396	4001	3480	2947	2405	1871
-30.0	5818	5947	6004	5988	5998	5935	5800	5620	5347	4993	4461	3960	3409	2804	2160
-25.0	6268	6410	6477	6462	6472	6402	6252	6031	5751	5409	4962	4355	3727	3079	2434
-20.0	6660	6803	6872	6853	6869	6798	6646	6410	6098	5735	5301	4682	4083	3404	2672
-15.0	6970	7129	7196	7178	7194	7123	6962	6720	6395	6001	5570	5037	4352	3629	2897
-10.0	7217	7374	7452	7426	7452	7374	7207	6956	6623	6212	5749	5261	4513	3770	3039
-5.0	7384	7560	7653	7606	7650	7562	7379	7119	6780	6358	5876	5378	4623	3876	3123
0.0	7487	7678	7798	7813	7791	7679	7478	7212	6864	6434	5945	5444	4681	3933	3173
5.0	7446	7626	7720	7681	7716	7627	7441	7172	6830	6406	5916	5419	4664	3918	3161
10.0	7339	7516	7610	7629	7611	7516	7329	7065	6726	6308	5824	5343	4604	3855	3116
15.0	7148	7335	7440	7469	7439	7329	7140	6887	6550	6143	5683	5186	4488	3753	3012
20.0	6904	7073	7175	7212	7173	7067	6890	6630	6306	5907	5479	4870	4263	3578	2822
25.0	6577	6750	6852	6887	6848	6741	6561	6314	5995	5625	5227	4607	3958	3285	2618
30.0	6182	6351	6450	6479	6444	6340	6163	5922	5628	5303	4751	4254	3680	3058	2385
35.0	5716	5873	5971	6004	5964	5860	5699	5481	5236	4762	4374	3831	3266	2694	2116
40.0	5222	5354	5426	5447	5421	5343	5218	4938	4641	4267	3840	3351	2873	2340	1800
45.0	4576	4695	4758	4780	4752	4684	4557	4293	4022	3695	3285	2880	2445	1949	1465
50.0	3808	3958	4069	4114	4065	3949	3795	3630	3336	3090	2727	2358	1956	1551	1131
55.0	3079	3207	3263	3285	3259	3199	3071	2878	2668	2427	2147	1829	1478	1136	704
60.0	2302	2411	2481	2506	2478	2405	2292	2167	1967	1781	1528	1293	996	649	468
65.0	1542	1624	1676	1695	1675	1622	1535	1444	1309	1127	938	655	559	371	201
70.0	754	842	899	921	898	835	735	658	644	550	434	321	201	106	62.2
75.0	262	293	313	321	312	292	260	217	172	122	85.4	67.0	60.6	53.9	45.7
80.0	66.6	68.6	70.1	71.1	69.4	67.2	64.3	61.0	57.1	53.4	49.5	45.1	40.5	36.7	32.7
85.0	42.6	43.3	43.9	44.4	43.0	41.5	39.8	38.0	36.1	34.1	32.0	30.0	27.8	25.7	23.5
90.0	32.1	32.1	32.0	32.0	30.9	29.7	28.6	27.4	26.2	25.1	23.9	22.8	21.6	20.5	19.3

Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-07-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:		
Address:		
NAME: 200W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 356*318*85	SERIAL No.: LA/YE6L-990706

UNIT: cd

H(DEG) V(DEG)	60	65	70	75	80	85	90
-90.0	10.6	10.7	10.8	10.9	11.0	11.1	11.2
-85.0	12.0	11.8	11.6	11.4	11.2	11.2	11.2
-80.0	16.9	15.7	14.4	13.1	12.1	11.3	11.2
-75.0	25.1	21.8	18.6	15.9	13.5	11.7	11.2
-70.0	37.6	30.1	24.1	19.3	15.4	12.3	11.2
-65.0	56.7	42.0	31.3	23.5	17.5	12.9	11.2
-60.0	178	58.9	40.5	28.1	19.7	13.7	11.2
-55.0	342	157	49.2	33.7	22.4	14.4	11.2
-50.0	493	288	88.3	40.2	24.9	15.3	11.2
-45.0	789	441	165	47.2	27.3	16.3	11.2
-40.0	1064	542	264	51.4	30.3	17.1	11.2
-35.0	1310	792	360	66.4	33.2	17.9	11.2
-30.0	1557	971	465	109	35.8	18.6	11.2
-25.0	1774	1148	559	150	38.3	19.3	11.2
-20.0	1979	1290	596	187	40.9	19.8	11.2
-15.0	2104	1402	679	225	43.0	20.2	11.2
-10.0	2245	1514	777	254	44.6	20.6	11.2
-5.0	2350	1592	842	274	45.6	20.8	11.2
0.0	2405	1633	873	283	46.1	20.9	11.2
5.0	2383	1616	857	278	46.1	21.0	11.2
10.0	2311	1562	804	262	45.5	20.9	11.2
15.0	2201	1472	717	235	44.3	20.7	11.2
20.0	2104	1385	641	197	42.6	20.5	11.2
25.0	1917	1260	615	160	40.4	20.1	11.2
30.0	1733	1092	522	116	38.3	19.6	11.2
35.0	1498	916	411	72.5	35.9	19.0	11.2
40.0	1269	649	306	56.7	33.3	18.3	11.2
45.0	983	545	192	52.8	30.5	17.5	11.2
50.0	646	362	102	46.3	28.2	16.6	11.2
55.0	464	197	58.1	39.7	25.8	15.8	11.2
60.0	243	73.9	49.9	34.1	23.1	15.0	11.2
65.0	75.5	54.2	40.1	29.3	20.9	14.2	11.2
70.0	52.9	41.6	32.3	24.9	18.6	13.6	11.2
75.0	38.4	32.1	26.3	21.1	16.5	13.1	11.2
80.0	28.6	24.8	21.2	17.8	14.9	12.6	11.2
85.0	21.3	19.2	17.3	15.5	13.8	12.5	11.2
90.0	18.2	17.0	15.9	14.7	13.6	12.4	11.2

Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-07-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks: