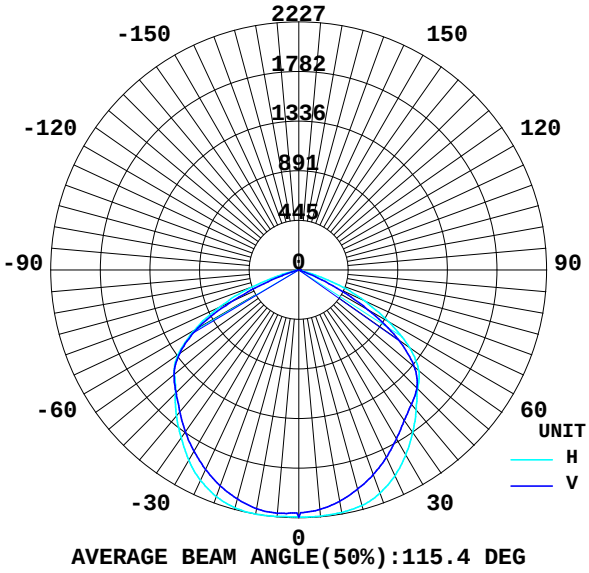
LUMINAIRE PHOTOMETRIC TEST REPORT

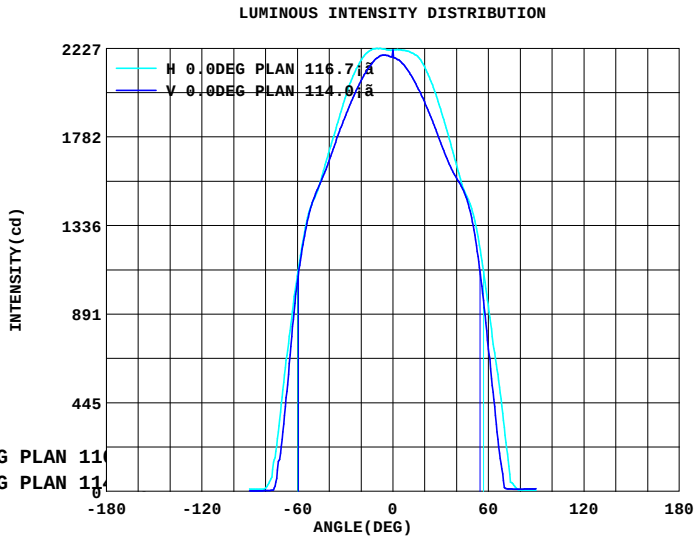
Report number:

MANUFACTURER:		
Address:		
NAME: 100W	TYPE: ATG	WEIGHT:
SPECIFICATION:	DIMENSION: 350*240*55	SERIAL No.: LA/YE6L-990706

MODEL:	SMD				
NOMINAL POWER(W):	96	Imax(cd):	2227	Voltage(V)	230.6
RATED VOLTAGE(V):	230	AVAILABILITY(%):	58.1	Current(A)	0.433
NOMINAL FLUX(lm):	5901	Avai. FLUX(lm):	3426	Power(W)	96.44
TEST FLUX(lm):	5901	EFFICIENCY(%):	100.0	Power Factor(PF)	0.964
LAMPS QUANTITY :	1	TOTAL FLUX(lm):	5901	EFFICIENCY(lm/W)	61.2
Effictive Flux(lm) :	3426.0	θ @50%(H, V):	116.7,113.4DEG	EEI:	0.383



AVERAGE BEAM ANGLE(50%):115.4 DEG



Test System:HOPOO 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:

Color Temperature Data List

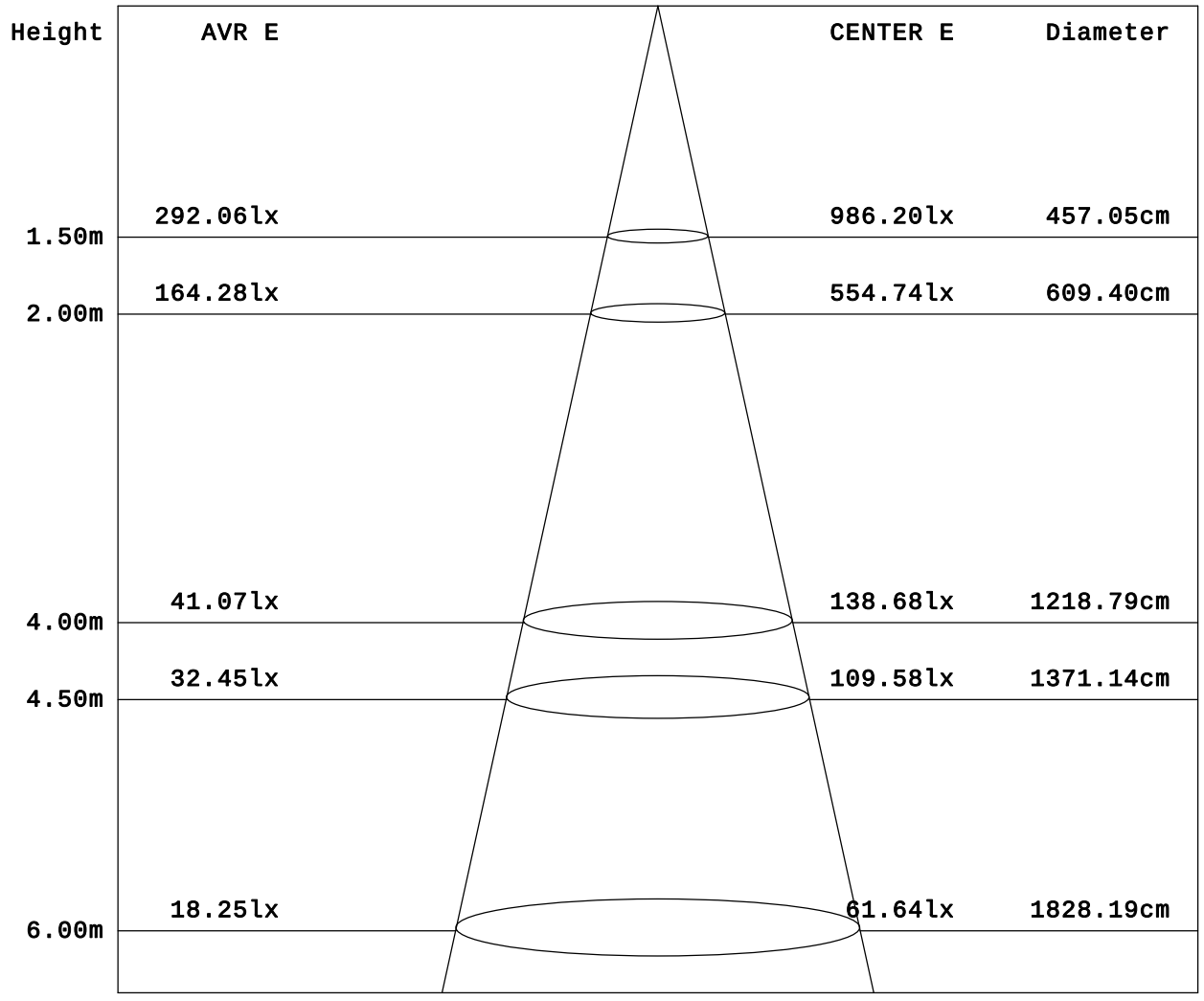
Report number:

MANUFACTURER:		
Address:		
NAME: 100W	TYPE: ATG	WEIGHT:
SPECIFICATION:	DIMENSION: 350*240*55	SERIAL No.: LA/YE6L-990706

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:		
Address:		
NAME: 100W	TYPE: ATG	WEIGHT:
SPECIFICATION:	DIMENSION: 350*240*55	SERIAL No.: LA/YE6L-990706



Angle:113.4deg

Test System:HOPOO 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:

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:		
Address:		
NAME: 100W	TYPE: ATG	WEIGHT:
SPECIFICATION:	DIMENSION: 350*240*55	SERIAL No.: LA/YE6L-990706

AREA FLUX DIAGRAM — UNIT:lm

VERTICAL(DEG)	-90	-80	-70	-60	-50	-40	-30	-20	20	30	40	50	60	70	80	90	Φ t	Φ a
90	0.03	0.09	0.15	0.20	0.25	0.29	0.32	0.34	0.36	0.35	0.32	0.28	0.24	0.19	0.14	0.09	0.05	0.02	3.68	2.71
80	0.03	0.09	0.14	0.23	0.44	0.79	1.03	0.98	0.62	0.49	0.63	0.57	0.38	0.24	0.14	0.09	0.05	0.02	6.95	5.88
70	0.03	0.08	0.27	1.24	3.28	6.00	8.76	10.7	11.2	10.9	10.0	7.70	4.76	2.07	0.53	0.12	0.05	0.02	77.9	73.4
60	0.03	0.11	1.09	4.78	11.1	18.6	25.5	30.5	32.6	32.4	29.7	24.3	17.0	9.53	3.43	0.46	0.05	0.02	242	223
50	0.03	0.24	2.89	10.2	20.2	30.2	37.9	42.9	45.1	45.0	42.5	37.2	28.9	18.3	8.55	1.80	0.10	0.02	372	332
40	0.03	0.51	5.22	15.2	26.9	36.5	43.8	48.6	50.5	50.3	48.1	43.0	35.7	25.4	13.3	3.95	0.18	0.02	448	386
30	0.03	0.86	7.37	19.0	30.6	40.2	48.4	54.4	56.8	56.6	53.9	47.6	39.1	29.6	17.1	5.93	0.38	0.02	508	430
	0.03	1.18	9.00	21.4	32.5	43.2	53.0	59.9	62.3	62.2	59.4	52.1	42.0	31.5	19.5	7.38	0.62	0.02	558	469
	0.03	1.40	9.96	22.6	33.6	45.3	56.3	63.6	66.0	65.8	63.0	55.2	43.9	32.5	20.8	8.21	0.78	0.02	590	495
	0.03	1.41	10.0	22.7	33.7	45.5	56.7	64.1	66.7	66.6	63.5	55.6	44.2	32.6	20.9	8.31	0.79	0.01	594	499
	0.03	1.20	9.29	21.9	32.8	43.8	54.1	61.5	64.6	64.4	60.9	53.2	42.6	31.8	20.0	7.66	0.63	0.01	571	480
-30	0.03	0.87	7.78	19.9	31.2	40.8	50.0	56.8	59.9	59.7	56.2	49.1	39.8	30.2	18.0	6.34	0.39	0.01	528	446
-40	0.03	0.51	5.66	16.6	28.4	37.4	45.0	50.8	53.7	53.5	50.2	44.2	36.7	26.9	14.6	4.39	0.18	0.01	469	402
-50	0.03	0.23	3.17	11.6	22.8	32.8	39.9	44.7	47.1	47.0	44.3	39.3	31.5	20.9	9.99	2.08	0.09	0.01	398	352
-60	0.03	0.10	1.12	5.71	13.7	22.9	30.8	36.2	38.8	38.6	35.5	29.6	21.2	12.1	4.36	0.48	0.05	0.01	292	269
-70	0.03	0.07	0.24	1.28	4.20	8.68	13.4	17.3	19.3	19.0	16.6	12.4	7.45	2.99	0.58	0.10	0.04	0.01	124	119
-80	0.03	0.07	0.11	0.17	0.36	0.73	1.26	1.70	1.76	1.64	1.35	0.80	0.33	0.17	0.09	0.06	0.04	0.01	10.7	9.90
-90	0.03	0.08	0.11	0.14	0.15	0.15	0.14	0.12	0.10	0.09	0.10	0.10	0.10	0.09	0.08	0.06	0.04	0.01	1.68	1.02
HORIZONTAL(DEG)																				
Φ t	0.50	9.10	73.6	195	327	454	567	646	678	675	637	553	436	308	172	57.5	4.51	0.27	5901	
Φ a	0.00	0.00	0.00	0.00	180	454	567	646	678	675	637	553	436	170	0.00	0.00	0.00	0.00		3426

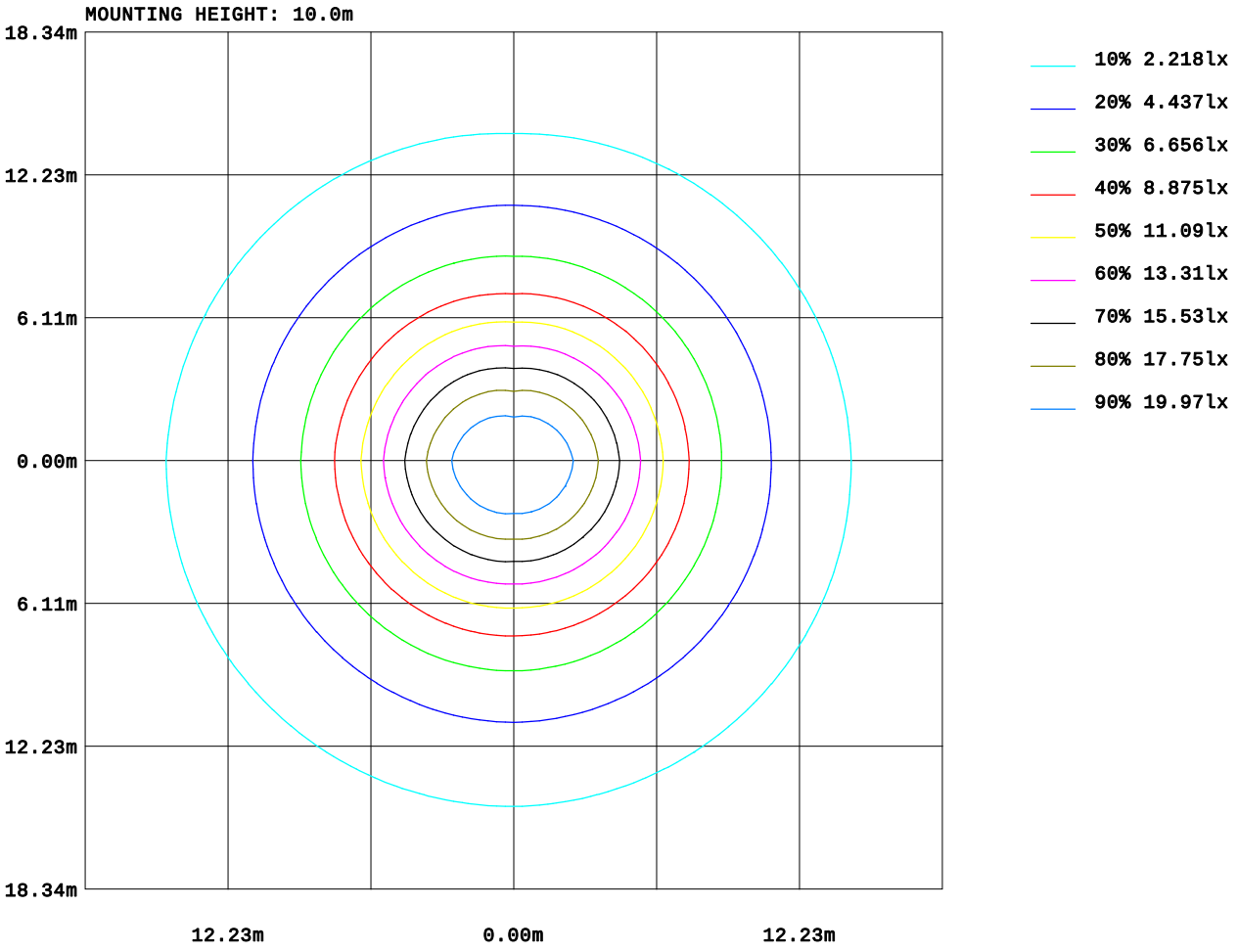
Test System:HOPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-07-2020

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

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 100W	TYPE: ATG	WEIGHT:
SPECIFICATION:	DIMENSION: 350*240*55	SERIAL No.: LA/YE6L-990706



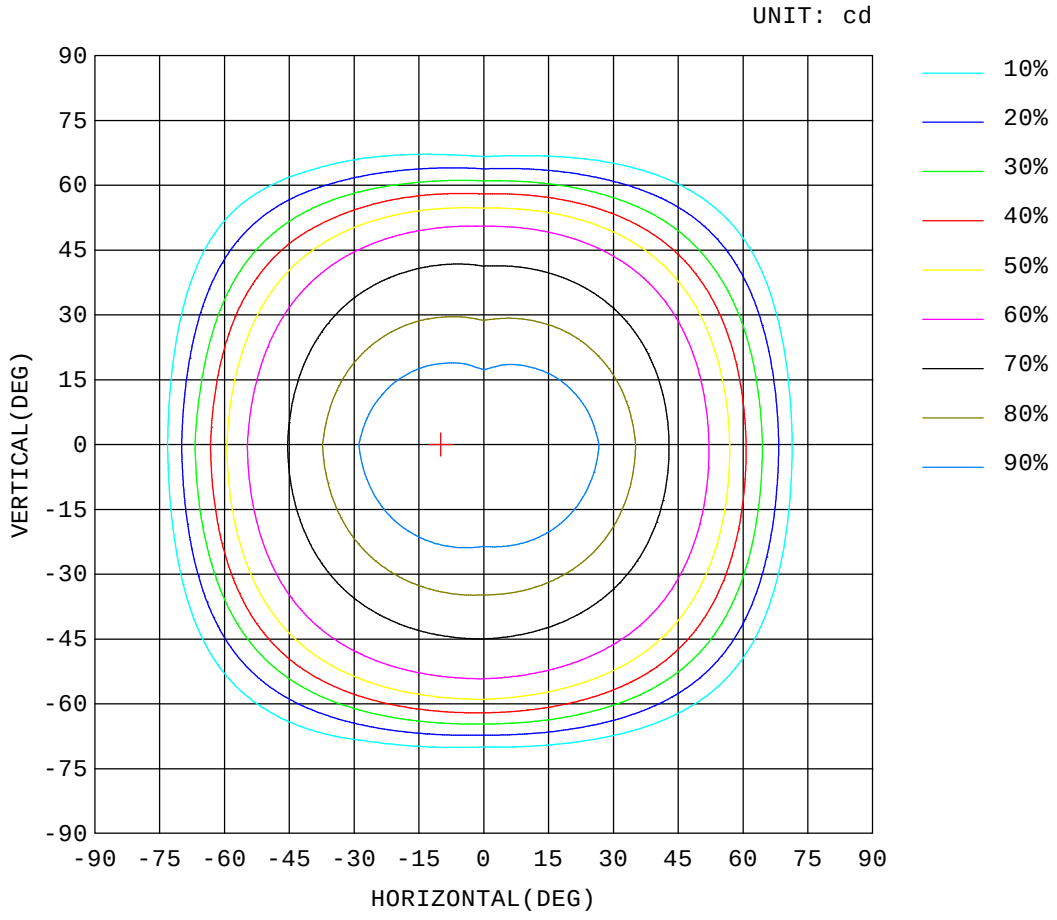
Test System:HOPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-07-2020

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

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 100W	TYPE: ATG	WEIGHT:
SPECIFICATION:	DIMENSION: 350*240*55	SERIAL No.: LA/YE6L-990706



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

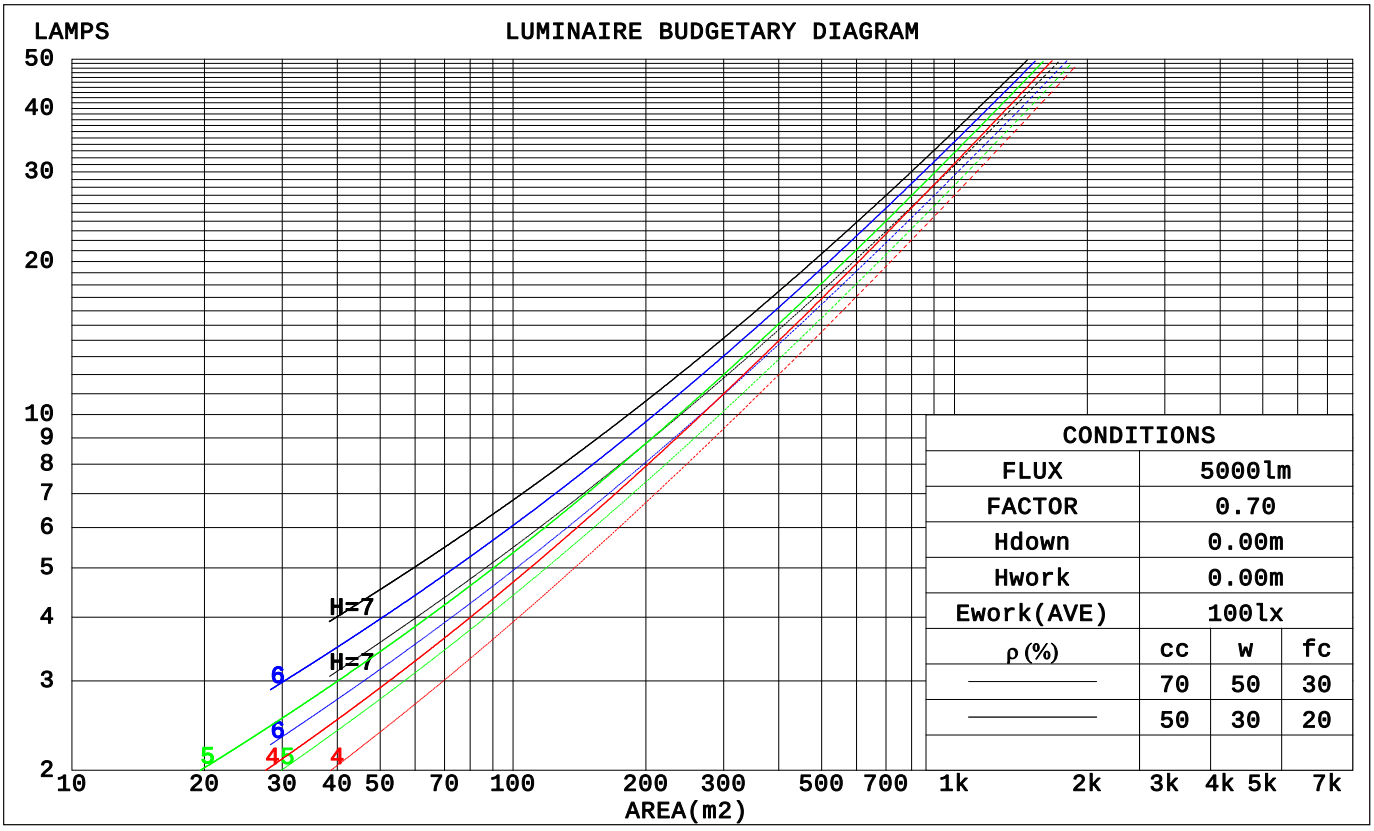
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 100W	TYPE: ATG	WEIGHT:
SPECIFICATION:	DIMENSION: 350*240*55	SERIAL No.: LA/YE6L-990706

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			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	1.02	.99	1.04	1.00	.97	.99	.96	.94	.95	.93	.91	.91	.89	.88	.86
2.0	.94	.88	.82	.92	.86	.81	.88	.83	.79	.84	.81	.77	.81	.78	.75	.73
3.0	.83	.75	.69	.81	.74	.69	.78	.72	.67	.75	.70	.66	.72	.68	.65	.62
4.0	.74	.65	.59	.72	.65	.59	.70	.63	.58	.67	.61	.57	.65	.60	.56	.54
5.0	.66	.57	.51	.65	.57	.51	.62	.55	.50	.60	.54	.49	.58	.53	.49	.47
6.0	.59	.51	.45	.58	.50	.44	.56	.49	.44	.54	.48	.43	.53	.47	.43	.41
7.0	.54	.45	.39	.53	.45	.39	.51	.44	.39	.50	.43	.38	.48	.42	.38	.36
8.0	.49	.41	.35	.48	.40	.35	.47	.40	.35	.45	.39	.34	.44	.38	.34	.32
9.0	.45	.37	.31	.44	.37	.31	.43	.36	.31	.42	.35	.31	.41	.35	.31	.29
10.0	.41	.34	.29	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.26



Test System:HOPOO 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:

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 100W	TYPE: ATG	WEIGHT:
SPECIFICATION:	DIMENSION: 350*240*55	SERIAL No.: LA/YE6L-990706

γ	C0	C90	C180	C270					γ	zone	total
5.0	2221	2193	2223	2160					0- 5	52.59	52.59
10.0	2212	2178	2227	2110					5- 10	156.7	209.3
15.0	2191	2130	2213	2039					10- 15	256.5	465.9
20.0	2134	2064	2167	1957					15- 20	348.2	814.1
25.0	2042	1979	2088	1860					20- 25	427.0	1241
30.0	1922	1881	1976	1754					25- 30	490.3	1732
35.0	1785	1778	1843	1652					30- 35	536.7	2268
40.0	1644	1664	1712	1576					35- 40	568.8	2837
45.0	1510	1559	1569	1501					40- 45	588.7	3426
50.0	1408	1464	1461	1355					45- 50	598.0	4024
55.0	1214	1304	1325	1092					50- 55	580.5	4605
60.0	935.4	1046	1081	714.9					55- 60	506.5	5111
65.0	638.2	643.2	779.3	336.8					60- 65	377.7	5489
70.0	321.1	224.5	437.7	19.12					65- 70	214.5	5704
75.0	43.39	6.922	147.4	11.27					70- 75	70.88	5774
80.0	6.073	3.500	15.86	11.03					75- 80	12.02	5786
85.0	5.463	2.811	10.39	11.77					80- 85	4.166	5791
90.0	5.437	3.209	11.32	12.88					85- 90	4.327	5795
95.0	5.967	3.925	13.02	14.24					90- 95	4.782	5800
100.0	7.028	4.827	15.11	15.91					95-100	5.424	5805
105.0	8.195	5.994	17.39	18.08					100-105	6.187	5811
110.0	9.256	7.452	19.46	20.23					105-110	6.936	5818
115.0	10.26	9.017	21.43	22.04					110-115	7.548	5826
120.0	11.05	10.39	22.88	23.49					115-120	7.943	5834
125.0	11.98	11.32	24.10	24.69					120-125	8.094	5842
130.0	12.73	12.12	25.24	25.72					125-130	8.044	5850
135.0	13.65	13.04	26.28	26.76					130-135	7.870	5858
140.0	14.74	13.95	26.78	27.60					135-140	7.538	5865
145.0	16.28	14.98	27.60	28.32					140-145	7.095	5872
150.0	18.59	16.36	27.92	28.48					145-150	6.562	5879
155.0	21.11	18.51	28.56	28.80					150-155	5.947	5885
160.0	23.28	21.37	28.93	28.98					155-160	5.234	5890
165.0	25.27	24.42	29.28	29.06					160-165	4.334	5894
170.0	27.29	26.99	29.81	30.10					165-170	3.292	5898
175.0	28.64	29.33	29.59	30.39					170-175	2.075	5900
180.0	28.72	30.50	29.20	30.20					175-180	0.709	5901
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO 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:

WEC AND CCEC

Report number:

MANUFACTURER:		
Address:		
NAME: 100W	TYPE: ATG	WEIGHT:
SPECIFICATION:	DIMENSION: 350*240*55	SERIAL No.: LA/YE6L-990706

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 Coeffcients(WEC)									
0.0																
1.0	.261	.148	.047	.253	.145	.046	.239	.137	.044	.226	.131	.042	.215	.124	.040	
2.0	.257	.141	.043	.250	.138	.042	.238	.132	.041	.227	.127	.040	.216	.122	.039	
3.0	.245	.130	.039	.239	.128	.039	.228	.124	.038	.218	.120	.037	.209	.116	.036	
4.0	.231	.120	.035	.226	.118	.035	.216	.115	.034	.207	.111	.034	.199	.108	.033	
5.0	.217	.110	.032	.212	.109	.032	.203	.106	.031	.195	.103	.031	.188	.100	.030	
6.0	.203	.102	.029	.199	.101	.029	.191	.098	.029	.184	.096	.028	.177	.093	.028	
7.0	.191	.094	.027	.187	.093	.027	.180	.091	.026	.173	.089	.026	.167	.087	.026	
8.0	.179	.088	.025	.176	.087	.024	.169	.085	.024	.164	.083	.024	.158	.081	.024	
9.0	.169	.082	.023	.166	.081	.023	.160	.079	.022	.155	.077	.022	.150	.076	.022	
10.0	.159	.076	.021	.156	.076	.021	.151	.074	.021	.146	.073	.021	.142	.071	.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	.204	.204	.204	.174	.174	.174	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.191	.170	.152	.163	.146	.131	.112	.101	.090	.064	.058	.053	.021	.019	.017	
2.0	.181	.146	.116	.155	.126	.100	.106	.087	.070	.061	.051	.041	.020	.016	.013	
3.0	.174	.128	.092	.149	.110	.080	.102	.077	.056	.059	.045	.033	.019	.015	.011	
4.0	.166	.115	.075	.143	.099	.065	.098	.069	.046	.057	.040	.027	.018	.013	.009	
5.0	.159	.104	.063	.137	.090	.055	.094	.063	.039	.055	.037	.023	.018	.012	.008	
6.0	.153	.096	.055	.131	.083	.048	.091	.058	.034	.053	.034	.020	.017	.011	.007	
7.0	.146	.089	.048	.126	.077	.042	.087	.054	.030	.051	.032	.018	.016	.010	.006	
8.0	.140	.083	.044	.121	.072	.038	.084	.051	.027	.049	.030	.016	.016	.010	.005	
9.0	.135	.078	.040	.116	.068	.035	.080	.048	.025	.047	.028	.015	.015	.009	.005	
10.0	.129	.074	.037	.111	.064	.032	.077	.045	.023	.045	.027	.014	.015	.009	.005	

Test System:HOPOO 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:

Uncorrected UGR Table

Report number:

MANUFACTURER:		
Address:		
NAME: 100W	TYPE: ATG	WEIGHT:
SPECIFICATION:	DIMENSION: 350*240*55	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	23.6	25.0	23.9	25.2	25.5	23.9	25.3	24.2	25.5	25.8
3H	24.2	25.5	24.5	25.7	26.0	24.3	25.6	24.6	25.8	26.1
4H	24.1	25.3	24.4	25.6	25.9	24.2	25.4	24.5	25.7	26.0
6H	24.0	25.1	24.4	25.4	25.8	24.1	25.2	24.4	25.5	25.8
8H	24.0	25.1	24.3	25.4	25.7	24.0	25.1	24.4	25.4	25.8
12H	23.9	25.0	24.3	25.3	25.6	24.0	25.0	24.4	25.4	25.7
4H 2H	24.0	25.2	24.3	25.5	25.8	24.2	25.5	24.6	25.7	26.0
3H	24.6	25.7	25.0	26.0	26.3	24.6	25.7	25.0	26.0	26.4
4H	24.5	25.5	24.9	25.8	26.2	24.6	25.5	25.0	25.9	26.2
6H	24.4	25.3	24.9	25.6	26.0	24.5	25.3	24.9	25.7	26.1
8H	24.4	25.2	24.8	25.6	26.0	24.4	25.2	24.9	25.6	26.0
12H	24.3	25.0	24.8	25.5	25.9	24.4	25.1	24.8	25.5	25.9
8H 4H	24.4	25.2	24.8	25.6	26.0	24.4	25.2	24.9	25.6	26.0
6H	24.3	25.0	24.8	25.4	25.9	24.4	25.0	24.8	25.4	25.9
8H	24.3	24.8	24.8	25.3	25.8	24.3	24.9	24.8	25.3	25.8
12H	24.2	24.7	24.7	25.2	25.7	24.3	24.7	24.8	25.2	25.7
12H 4H	24.4	25.1	24.8	25.5	25.9	24.4	25.1	24.9	25.5	26.0
6H	24.3	24.8	24.8	25.3	25.8	24.3	24.9	24.8	25.3	25.8
8H	24.2	24.7	24.7	25.2	25.7	24.3	24.7	24.8	25.2	25.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				
1.5H	+ 0.5 / - 0.8					+ 0.7 / - 0.9				
2.0H	+ 0.7 / - 0.7					+ 0.7 / - 1.0				

CIE Pub.117 Corrected 5901 lm Total Lamp Luminous Flux.(8log(F/F0) = 6.2)

Test System:HOPOO 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:

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:		
Address:		
NAME: 100W	TYPE: ATG	WEIGHT:
SPECIFICATION:	DIMENSION: 350*240*55	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) x RCR = 5									
k = 0.60	59	47	40	58	47	40	57	46	40	34
0.80	69	58	51	68	58	51	66	57	51	44
1.00	79	68	61	77	68	61	75	69	60	54
1.25	86	76	70	84	76	69	82	74	68	61
1.50	91	82	76	89	81	75	86	79	74	67
2.00	98	90	84	96	89	83	92	86	82	74
2.50	101	94	89	99	93	88	95	90	86	78
3.00	104	98	93	102	97	92	98	94	90	82
4.00	108	103	99	105	101	97	101	97	94	85
5.00	110	106	102	107	104	100	103	100	97	88
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004	Suspended								SHRNOM = 1.25	

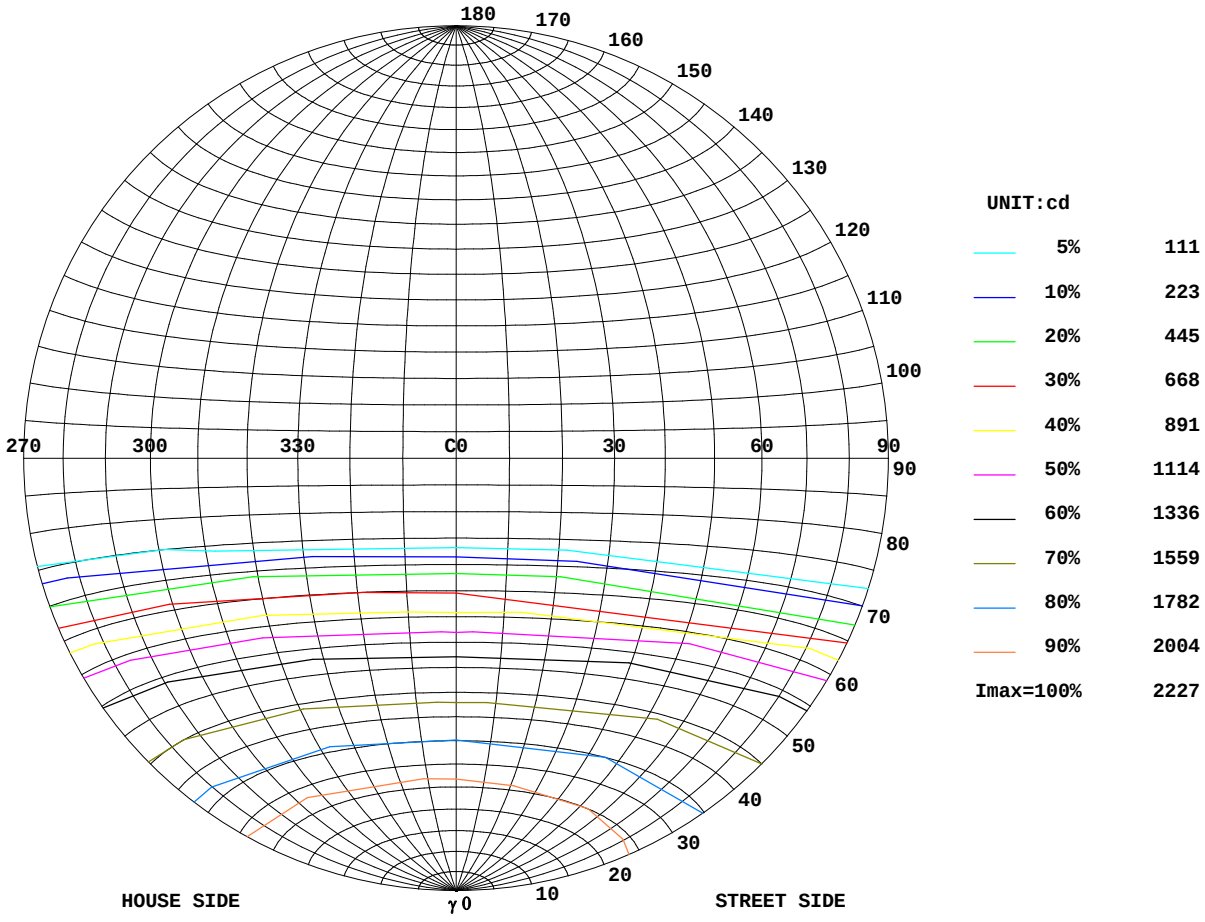
Test System:HOPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-07-2020

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

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 100W	TYPE: ATG	WEIGHT:
SPECIFICATION:	DIMENSION: 350*240*55	SERIAL No.: LA/YE6L-990706



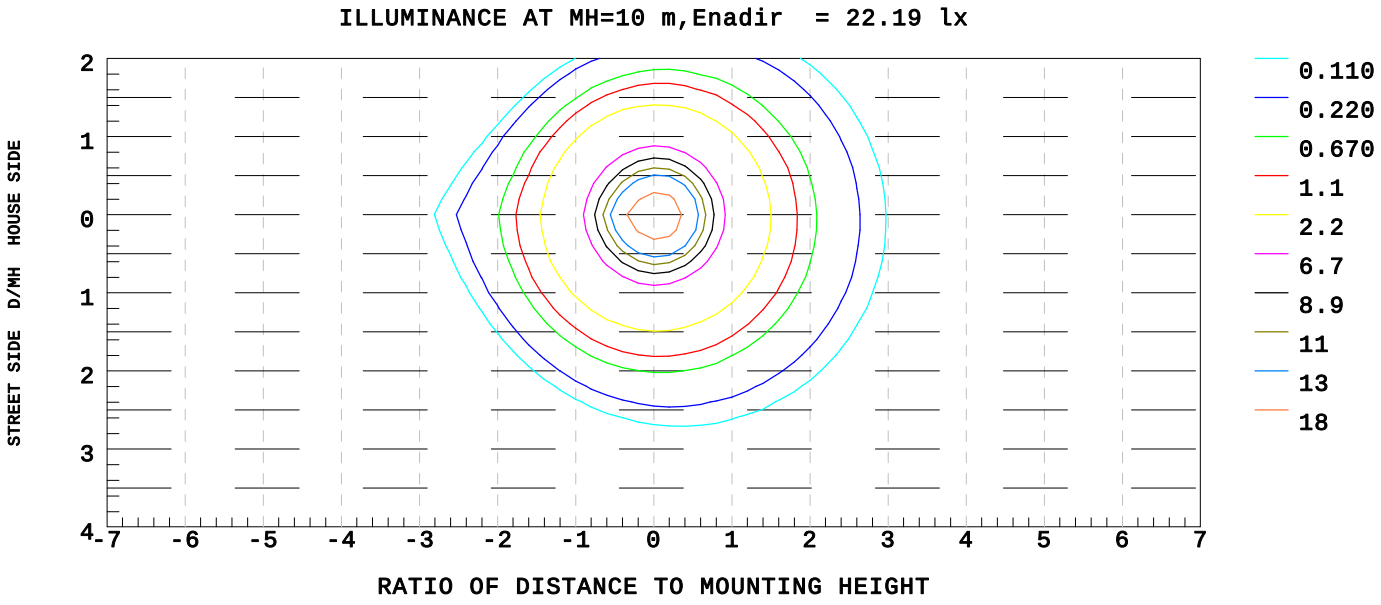
Test System:HOPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-07-2020

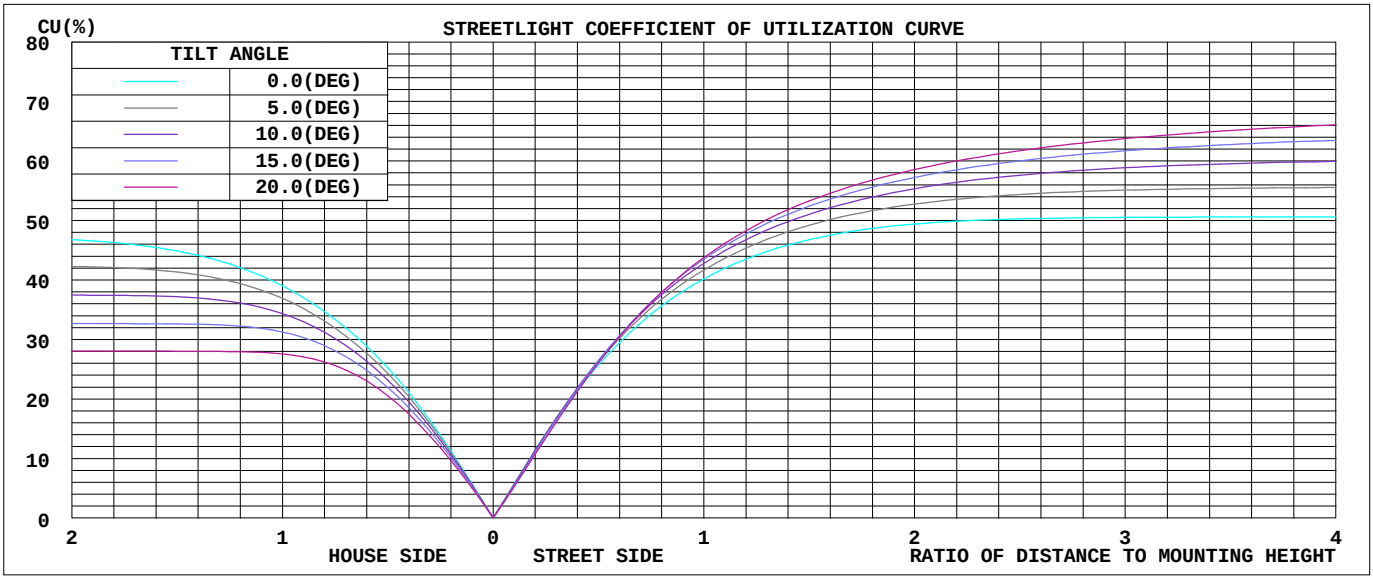
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 100W	TYPE: ATG	WEIGHT:
SPECIFICATION:	DIMENSION: 350*240*55	SERIAL No.: LA/YE6L-990706





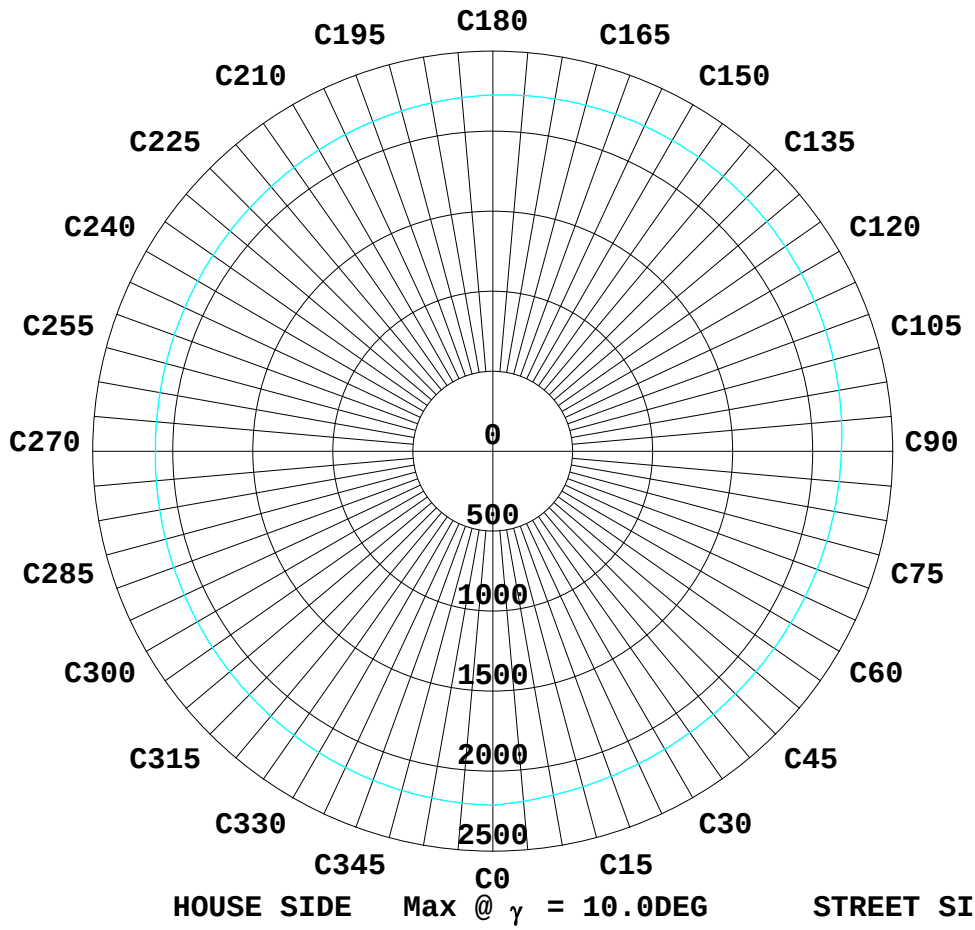
Test System:HOPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-07-2020

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

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 100W	TYPE: ATG	WEIGHT:
SPECIFICATION:	DIMENSION: 350*240*55	SERIAL No.: LA/YE6L-990706



Test System:HOPOO 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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:		
Address:		
NAME: 100W	TYPE: ATG	WEIGHT:
SPECIFICATION:	DIMENSION: 350*240*55	SERIAL No.: LA/YE6L-990706

UNIT: cd

H(DEG) / V(DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20
-90.0	11.3	10.8	10.4	9.97	9.52	9.07	8.61	8.16	7.71	7.26	6.81	6.36	5.91	5.46	5.01
-85.0	11.3	10.8	10.2	9.79	9.29	8.79	8.28	7.78	7.29	6.80	6.33	5.86	5.41	4.96	4.52
-80.0	11.3	10.7	10.2	9.61	9.03	8.46	7.90	7.41	6.93	6.47	6.08	5.73	5.43	5.21	5.34
-75.0	11.3	10.7	10.0	9.40	8.75	8.19	7.66	7.31	9.02	12.5	16.5	19.9	21.8	22.3	22.2
-70.0	11.3	10.6	9.93	9.19	8.55	8.06	11.3	20.2	30.9	40.2	76.0	97.9	142	195	202
-65.0	11.3	10.6	9.80	9.06	8.47	14.8	30.8	49.6	105	183	251	332	412	487	540
-60.0	11.3	10.5	9.66	8.90	12.7	33.2	78.0	156	269	392	524	626	744	847	921
-55.0	11.3	10.5	9.60	8.93	25.0	58.4	166	309	478	628	789	937	1048	1137	1201
-50.0	11.3	10.4	9.51	12.0	42.5	133	295	493	679	875	1037	1162	1262	1336	1388
-45.0	11.3	10.4	9.42	19.0	61.5	225	436	653	881	1067	1217	1330	1408	1460	1496
-40.0	11.3	10.3	9.38	28.5	131	317	579	814	1043	1219	1352	1437	1492	1541	1587
-35.0	11.3	10.3	9.39	39.4	166	421	686	961	1168	1333	1437	1503	1569	1634	1689
-30.0	11.3	10.3	9.49	50.1	228	515	797	1062	1267	1410	1490	1570	1654	1728	1790
-25.0	11.3	10.3	9.88	60.5	288	600	889	1149	1344	1459	1541	1642	1735	1818	1887
-20.0	11.3	10.3	11.8	73.8	329	660	971	1214	1396	1491	1595	1706	1807	1899	1975
-15.0	11.3	10.3	13.5	104	370	701	1017	1262	1427	1518	1642	1759	1870	1972	2048
-10.0	11.3	10.3	14.7	126	404	742	1052	1296	1447	1545	1676	1800	1921	2028	2103
-5.0	11.3	10.3	15.5	141	427	768	1073	1318	1458	1562	1701	1830	1957	2066	2143
0.0	11.3	10.3	15.8	147	438	779	1081	1325	1461	1569	1712	1843	1976	2088	2167
5.0	11.3	10.4	15.5	141	423	761	1063	1309	1453	1559	1696	1820	1945	2052	2127
10.0	11.3	10.4	14.8	126	397	727	1031	1279	1435	1538	1666	1782	1897	2000	2071
15.0	11.3	10.4	13.7	104	360	680	986	1234	1407	1508	1629	1735	1835	1931	2002
20.0	11.3	10.4	12.1	74.1	318	632	929	1174	1366	1473	1580	1680	1766	1847	1915
25.0	11.3	10.5	10.2	60.9	274	567	839	1094	1300	1431	1522	1618	1693	1759	1817
30.0	11.3	10.5	9.93	50.6	220	482	743	991	1208	1365	1462	1547	1620	1674	1718
35.0	11.3	10.6	9.91	40.1	163	386	629	880	1087	1265	1388	1468	1539	1595	1630
40.0	11.3	10.7	9.98	29.3	131	289	520	732	939	1124	1271	1376	1447	1503	1546
45.0	11.3	10.7	10.0	19.8	62.4	208	385	573	768	938	1100	1227	1321	1390	1437
50.0	11.3	10.8	10.2	13.0	43.6	131	256	421	575	738	882	1013	1122	1207	1267
55.0	11.3	10.9	10.4	10.0	26.3	59.7	154	256	390	508	640	754	847	938	1007
60.0	11.3	11.0	10.5	10.1	14.1	34.8	79.5	141	212	298	390	467	554	622	673
65.0	11.3	11.1	10.7	10.3	10.1	16.6	32.8	51.6	101	142	175	212	268	304	331
70.0	11.3	11.1	10.9	10.6	10.3	10.1	13.7	22.8	33.6	42.8	76.3	82.6	94.3	97.7	91.1
75.0	11.3	11.2	11.0	10.8	10.6	10.5	10.3	10.3	12.3	16.1	20.3	23.8	25.8	26.4	26.4
80.0	11.3	11.2	11.2	11.1	11.0	10.9	10.8	10.7	10.7	10.6	10.6	10.6	10.7	10.8	11.3
85.0	11.3	11.3	11.3	11.3	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.5
90.0	11.3	11.4	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.1	12.2	12.3	12.4	12.5

Test System:HOPOO 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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:		
Address:		
NAME: 100W	TYPE: ATG	WEIGHT:
SPECIFICATION:	DIMENSION: 350*240*55	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	4.56	4.11	3.66	3.20	3.33	3.45	3.58	3.70	3.82	3.95	4.07	4.19	4.32	4.44	4.57
-85.0	4.09	3.66	3.23	2.81	2.95	3.10	3.25	3.40	3.55	3.70	3.85	3.99	4.14	4.28	4.41
-80.0	5.16	4.75	4.17	3.50	3.63	3.75	3.84	3.92	3.98	4.06	4.12	4.19	4.26	4.36	4.47
-75.0	23.7	20.7	14.6	6.92	8.90	10.5	11.5	11.7	11.5	10.6	8.73	6.41	4.99	4.85	4.78
-70.0	215	229	232	225	225	215	195	175	163	104	49.6	26.0	18.8	13.1	6.80
-65.0	576	618	641	643	632	601	553	509	448	369	283	197	126	35.6	22.2
-60.0	988	1023	1041	1046	1032	1004	958	880	796	691	572	461	328	202	82.9
-55.0	1250	1281	1299	1304	1292	1266	1225	1167	1089	990	864	717	560	404	232
-50.0	1424	1447	1459	1464	1455	1438	1409	1363	1300	1212	1096	958	779	597	411
-45.0	1523	1545	1556	1559	1551	1537	1514	1483	1439	1373	1277	1146	979	773	567
-40.0	1622	1647	1662	1664	1656	1635	1604	1564	1521	1473	1403	1292	1137	940	709
-35.0	1731	1760	1777	1778	1771	1749	1714	1664	1603	1538	1481	1397	1261	1068	839
-30.0	1840	1870	1884	1881	1878	1858	1822	1767	1697	1615	1533	1464	1353	1177	946
-25.0	1940	1972	1984	1979	1978	1959	1920	1862	1787	1696	1595	1506	1418	1261	1031
-20.0	2028	2059	2071	2064	2066	2048	2009	1948	1866	1769	1658	1542	1459	1323	1103
-15.0	2100	2130	2139	2130	2135	2120	2082	2021	1934	1830	1711	1584	1484	1364	1153
-10.0	2154	2179	2186	2178	2181	2168	2138	2075	1989	1876	1751	1615	1500	1392	1188
-5.0	2190	2209	2208	2193	2204	2196	2172	2114	2024	1908	1776	1637	1509	1405	1210
0.0	2213	2227	2223	2219	2221	2212	2191	2134	2042	1922	1785	1644	1510	1408	1214
5.0	2171	2187	2184	2160	2180	2174	2153	2097	2010	1895	1767	1632	1505	1400	1201
10.0	2117	2136	2133	2110	2128	2125	2100	2043	1961	1852	1733	1604	1493	1380	1171
15.0	2046	2066	2064	2039	2059	2056	2027	1974	1892	1795	1686	1571	1473	1345	1126
20.0	1960	1981	1979	1957	1974	1969	1941	1888	1815	1727	1632	1527	1441	1293	1063
25.0	1858	1880	1880	1860	1874	1868	1838	1792	1728	1655	1572	1487	1389	1218	976
30.0	1750	1769	1770	1754	1764	1757	1733	1695	1643	1581	1510	1435	1308	1117	875
35.0	1654	1666	1665	1652	1660	1655	1636	1606	1564	1509	1446	1348	1194	988	758
40.0	1572	1582	1583	1576	1578	1570	1554	1522	1484	1429	1342	1212	1042	837	627
45.0	1472	1492	1502	1501	1497	1484	1462	1425	1369	1286	1174	1029	849	660	487
50.0	1313	1342	1355	1355	1351	1334	1298	1242	1170	1072	948	803	642	493	338
55.0	1057	1087	1098	1092	1091	1072	1032	973	891	789	681	567	440	316	179
60.0	723	736	732	715	723	717	694	632	571	501	414	327	233	144	68.7
65.0	350	361	356	337	348	344	328	300	266	225	163	121	85.4	31.1	24.1
70.0	80.0	64.0	43.0	19.1	36.2	50.4	59.8	64.5	65.0	57.0	34.3	26.3	21.5	15.8	9.38
75.0	27.8	24.8	18.8	11.2	13.0	14.5	15.6	15.9	15.7	14.7	12.6	10.1	8.56	8.18	7.82
80.0	11.5	11.4	11.2	11.0	10.7	10.4	10.1	9.91	9.61	9.34	9.05	8.76	8.45	8.16	7.85
85.0	11.5	11.6	11.7	11.7	11.4	11.0	10.7	10.4	10.0	9.74	9.40	9.07	8.74	8.40	8.05
90.0	12.6	12.7	12.8	12.8	12.4	12.0	11.6	11.2	10.8	10.4	9.99	9.57	9.16	8.74	8.33

Test System:HOPOO 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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:		
Address:		
NAME: 100W	TYPE: ATG	WEIGHT:
SPECIFICATION:	DIMENSION: 350*240*55	SERIAL No.: LA/YE6L-990706

UNIT: cd

H(DEG) / V(DEG)	60	65	70	75	80	85	90
-90.0	4.69	4.81	4.94	5.06	5.18	5.31	5.43
-85.0	4.54	4.67	4.81	4.96	5.11	5.27	5.43
-80.0	4.59	4.72	4.84	4.95	5.08	5.24	5.43
-75.0	4.77	4.81	4.89	5.01	5.09	5.22	5.43
-70.0	5.22	5.05	5.00	5.05	5.14	5.21	5.43
-65.0	11.6	5.51	5.21	5.13	5.17	5.21	5.43
-60.0	27.9	12.2	5.53	5.25	5.20	5.23	5.43
-55.0	85.9	25.5	7.64	5.42	5.25	5.26	5.43
-50.0	211	40.0	16.9	5.64	5.31	5.28	5.43
-45.0	347	139	27.0	5.95	5.38	5.31	5.43
-40.0	480	224	38.9	8.70	5.47	5.33	5.43
-35.0	588	323	63.3	14.1	5.56	5.35	5.43
-30.0	681	413	134	20.4	5.65	5.37	5.43
-25.0	751	487	187	25.7	5.74	5.38	5.43
-20.0	829	544	225	30.5	5.84	5.40	5.43
-15.0	877	589	262	35.6	5.92	5.42	5.43
-10.0	912	617	293	39.5	5.99	5.43	5.43
-5.0	931	633	313	42.1	6.04	5.45	5.43
0.0	935	638	321	43.3	6.07	5.46	5.43
5.0	921	625	309	42.2	6.11	5.49	5.43
10.0	891	602	286	39.6	6.13	5.52	5.43
15.0	846	568	252	35.8	6.14	5.55	5.43
20.0	787	516	213	30.8	6.14	5.57	5.43
25.0	701	455	174	26.1	6.11	5.60	5.43
30.0	626	380	125	20.9	6.10	5.62	5.43
35.0	531	289	59.9	14.7	6.08	5.64	5.43
40.0	421	197	39.0	9.45	6.06	5.66	5.43
45.0	296	122	27.9	6.82	6.05	5.67	5.43
50.0	173	37.6	18.0	6.63	6.05	5.68	5.43
55.0	74.5	26.7	8.92	6.52	6.06	5.69	5.43
60.0	29.3	13.8	7.01	6.46	6.07	5.69	5.43
65.0	13.6	7.40	6.85	6.44	6.09	5.69	5.43
70.0	7.62	7.18	6.80	6.45	6.10	5.71	5.43
75.0	7.48	7.14	6.82	6.48	6.11	5.74	5.43
80.0	7.54	7.21	6.88	6.51	6.12	5.77	5.43
85.0	7.68	7.31	6.93	6.56	6.18	5.81	5.43
90.0	7.92	7.50	7.09	6.67	6.26	5.85	5.43

Test System:HOPOO 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: