

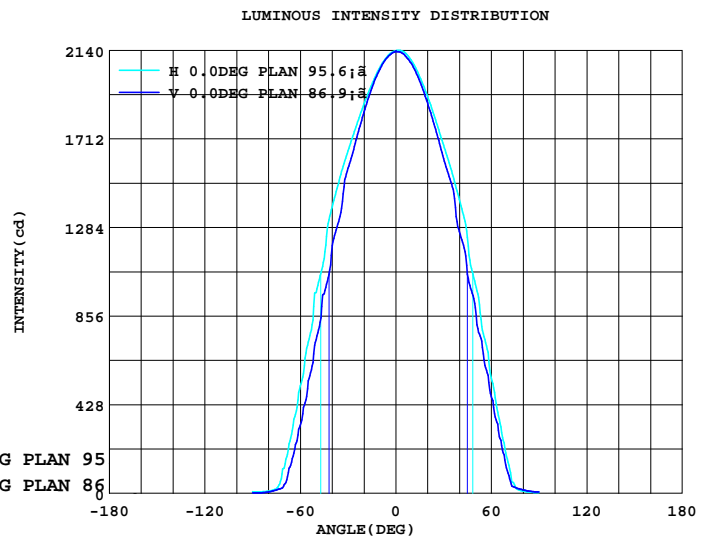
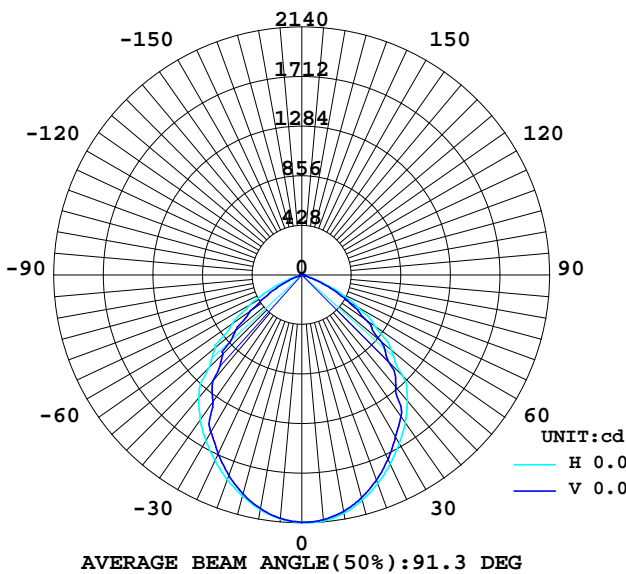
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER:		
Address:		
NAME: 50W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 240*210*60	SERIAL No.: LA/YE6L-990706

MODEL:	SMD				
NOMINAL POWER(W):	46	Imax(cd):	2140	Voltage(V)	230.6
RATED VOLTAGE(V):	230	AVAILABILITY(%):	67.5	Current(A)	0.206
NOMINAL FLUX(lm):	4362	Avai. FLUX(lm):	2943	Power(W)	46.32
TEST FLUX(lm):	4362	EFFICIENCY(%):	100.0	Power Factor(PF)	0.971
LAMPS QUANTITY :	1	TOTAL FLUX(lm):	4362	EFFICIENCY(lm/W)	94.2
Effective Flux(lm) :	2943.3	θ @50%(H, V):	95.6,87.1DEG	EEl:	0.214



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:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

Color Temperature Data List

Report number:

MANUFACTURER:		
Address:		
NAME: 50W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 240*210*60	SERIAL No.: LA/YE6L-990706

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

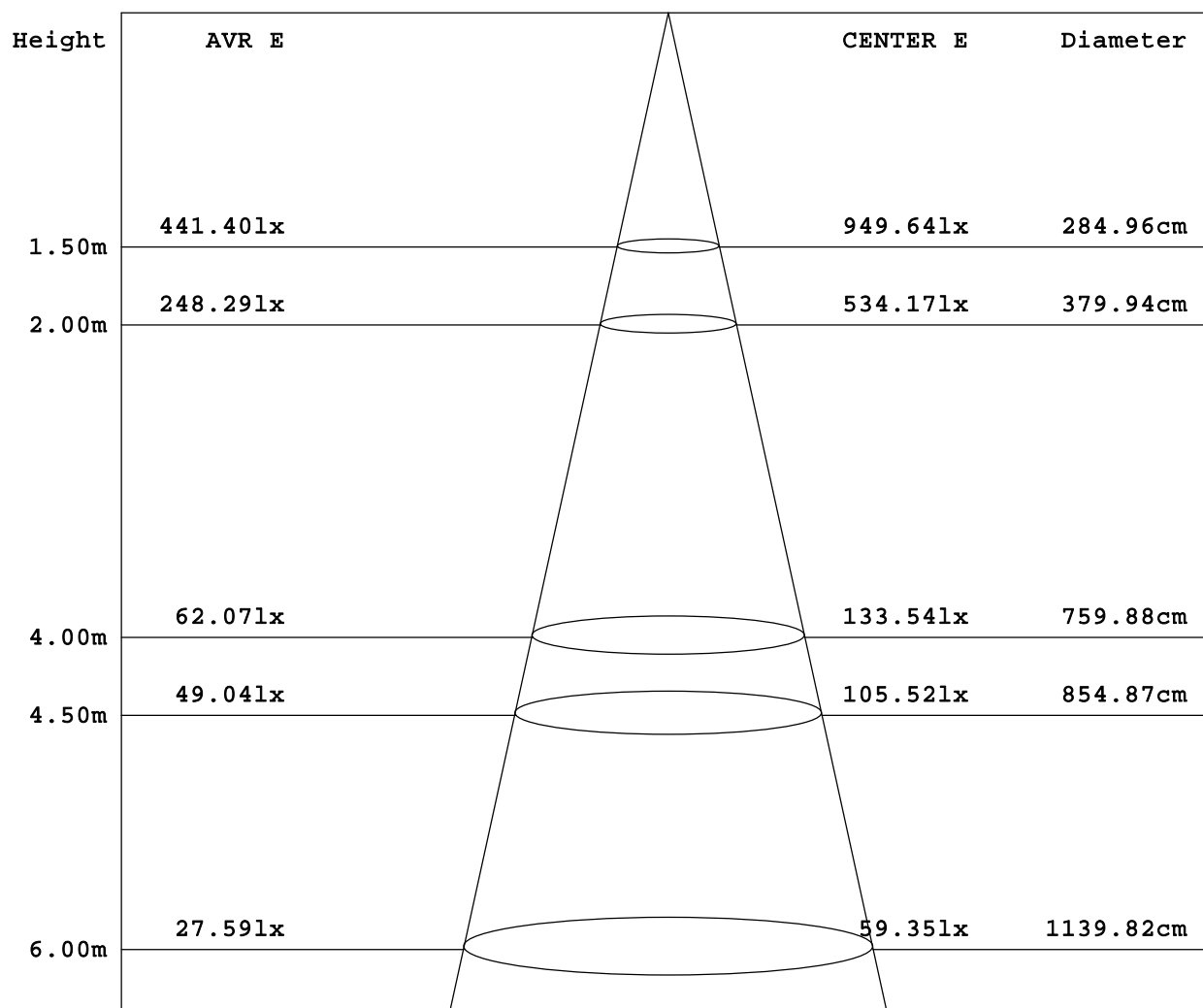
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:		
Address:		
NAME: 50W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 240*210*60	SERIAL No.: LA/YE6L-990706



Angle: 87.1deg

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:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:		
Address:		
NAME: 50W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 240*210*60	SERIAL No.: LA/YE6L-990706

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a	
	0.02	0.06	0.10	0.13	0.17	0.21	0.25	0.28	0.30	0.30	0.27	0.23	0.19	0.14	0.10	0.07	0.04	0.01	2.88	2.21	
90	0.02	0.06	0.11	0.20	0.32	0.49	0.71	0.98	1.15	1.17	1.03	0.77	0.53	0.33	0.19	0.10	0.04	0.01	8.23	7.21	
80	0.02	0.07	0.17	0.43	1.41	3.35	5.66	7.54	8.58	8.67	7.79	6.00	3.69	1.64	0.51	0.17	0.06	0.01	55.8	53.2	
70	0.02	0.08	0.32	1.90	5.59	10.2	14.8	18.4	20.2	20.3	18.7	15.3	10.8	6.15	2.24	0.39	0.08	0.01	146	136	
60	0.02	0.11	0.92	4.63	10.7	17.8	24.7	29.9	32.7	32.8	30.3	25.2	18.5	11.4	5.20	1.13	0.11	0.01	247	225	
50	0.02	0.14	1.90	7.45	15.6	25.1	34.0	40.8	44.1	44.2	41.0	34.6	25.8	16.5	8.15	2.27	0.17	0.02	342	309	
40	0.02	0.21	2.91	9.90	19.9	31.3	41.4	48.7	52.7	52.8	49.0	41.9	32.1	20.7	10.6	3.37	0.27	0.02	418	373	
30	0.02	0.30	3.65	11.6	23.1	35.6	45.9	54.4	59.5	59.7	54.9	46.5	36.3	24.0	12.5	4.21	0.39	0.02	473	420	
20	0.02	0.36	4.08	12.7	24.8	37.6	48.3	57.5	63.2	63.6	58.3	49.1	38.3	25.9	13.6	4.68	0.46	0.02	503	445	
10	0.02	0.36	4.05	12.6	24.7	37.4	48.2	57.3	63.0	63.3	58.1	48.9	38.1	25.7	13.5	4.64	0.46	0.02	501	444	
0	0.02	0.30	3.54	11.3	22.6	35.0	45.4	53.7	58.6	58.8	54.2	45.9	35.6	23.6	12.2	4.10	0.38	0.02	466	414	
-10	0.02	0.20	2.75	9.43	19.1	30.3	40.0	47.5	51.3	51.5	47.8	40.5	31.1	19.9	10.2	3.21	0.26	0.02	406	363	
-20	0.02	0.13	1.74	6.88	14.6	23.6	32.2	38.3	41.4	41.5	38.6	32.8	24.3	15.4	7.58	2.11	0.16	0.02	322	290	
-30	0.02	0.10	0.82	4.07	9.55	16.0	22.2	26.9	28.9	29.0	27.3	22.7	16.7	10.2	4.64	1.03	0.10	0.01	221	202	
-40	0.02	0.07	0.28	1.57	4.57	8.47	12.2	14.9	16.1	16.2	15.2	12.7	9.06	5.13	1.91	0.35	0.07	0.01	119	111	
-50	0.02	0.06	0.14	0.35	1.06	2.37	3.86	4.98	5.39	5.48	5.23	4.20	2.71	1.30	0.43	0.14	0.05	0.01	37.8	35.7	
-60	0.02	0.05	0.09	0.14	0.22	0.33	0.46	0.56	0.57	0.59	0.61	0.51	0.37	0.23	0.13	0.07	0.03	0.01	4.97	4.23	
-70	0.02	0.05	0.08	0.09	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.09	0.08	0.06	0.05	0.03	0.01	1.39	0.92	
-80	0.02	0.05	0.08	0.09	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.09	0.08	0.06	0.05	0.03	0.01	1.39	0.92	
-90	0.02	0.05	0.08	0.09	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.09	0.08	0.06	0.05	0.03	0.01	1.39	0.92	
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL(DEG)				20	30	40	50	60	70	80	90	
Φ t	0.36	2.70	27.6	95.5	199	316	421	503	548	551	509	429	325	209	104	32.1	3.16	0.26	4362		
Φ a	0.00	0.00	0.00	0.00	114	316	421	503	548	551	509	429	325	119	0.00	0.00	0.00	0.00		2943	

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

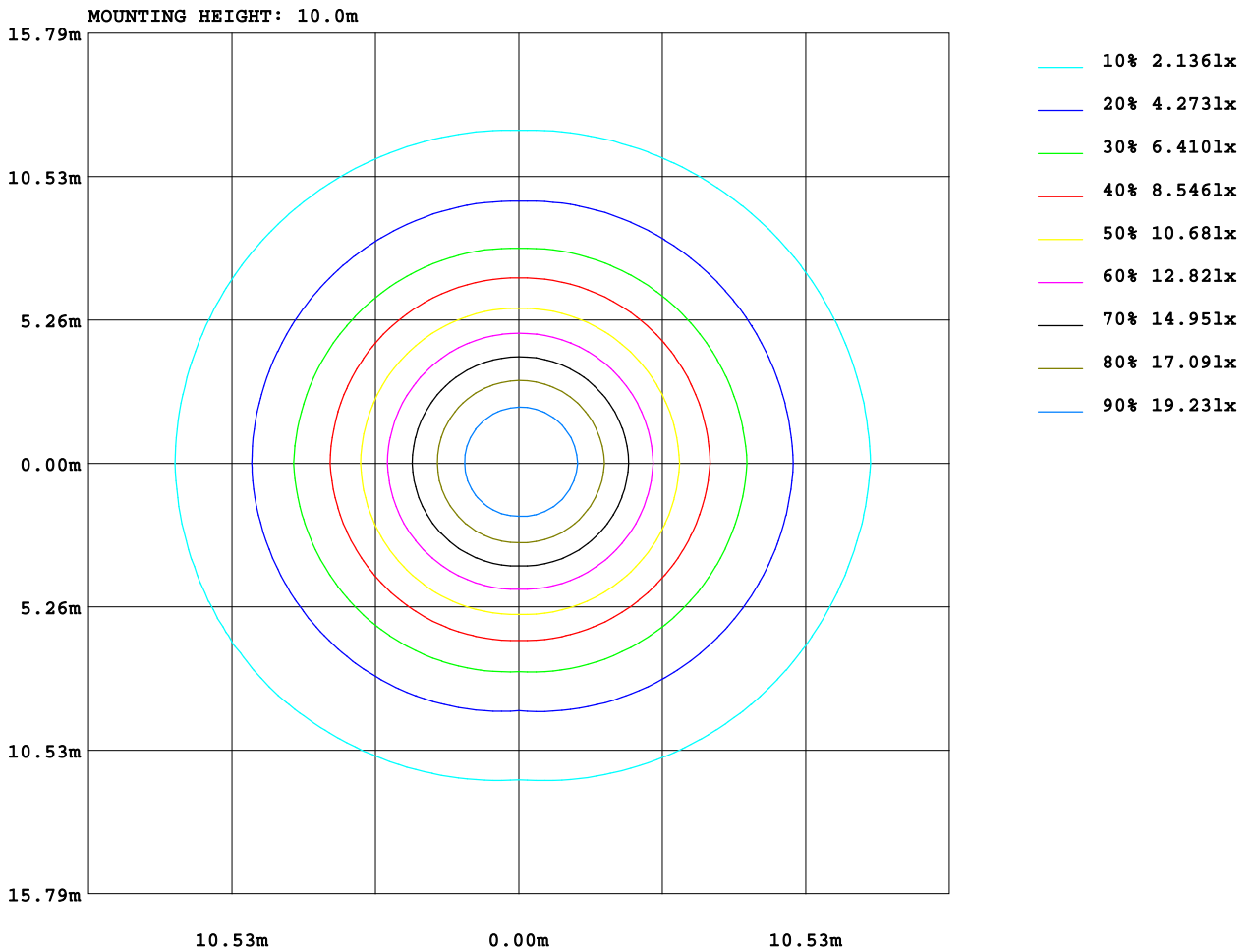
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.150 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 50W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 240*210*60	SERIAL No.: LA/YE6L-990706



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

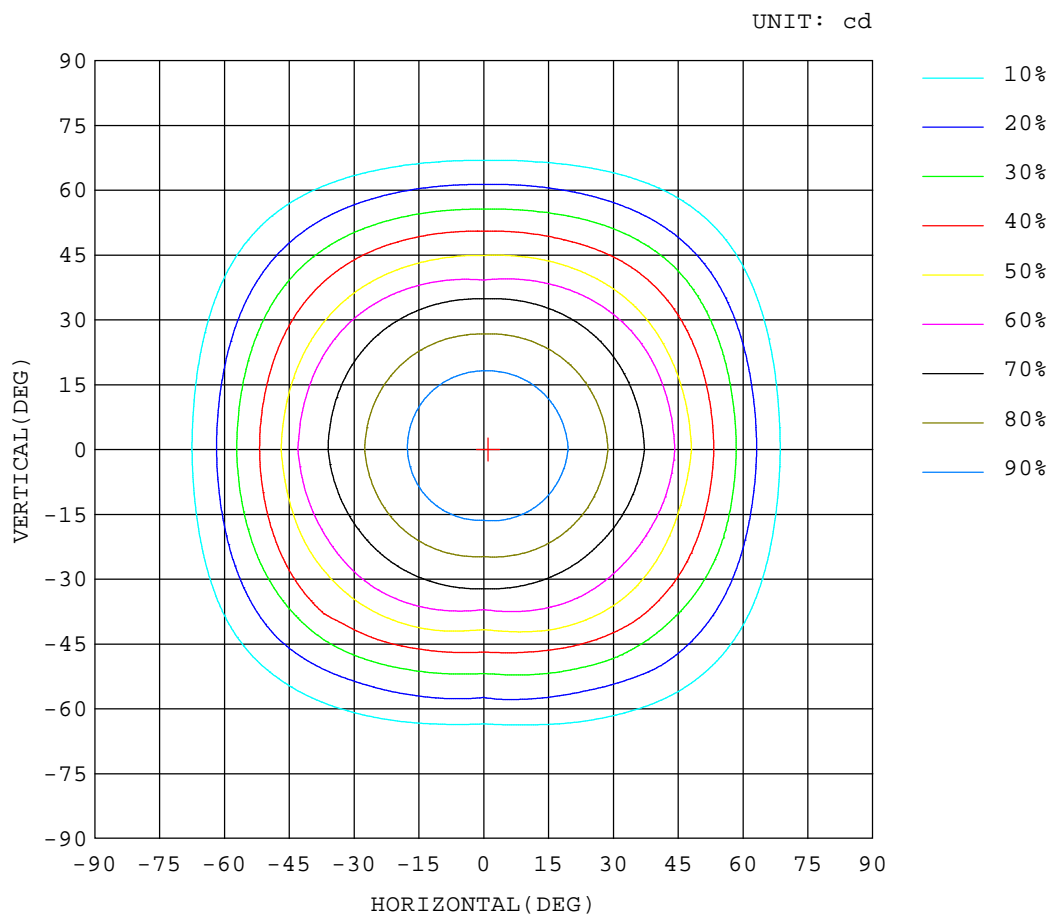
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.150 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 50W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 240*210*60	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:

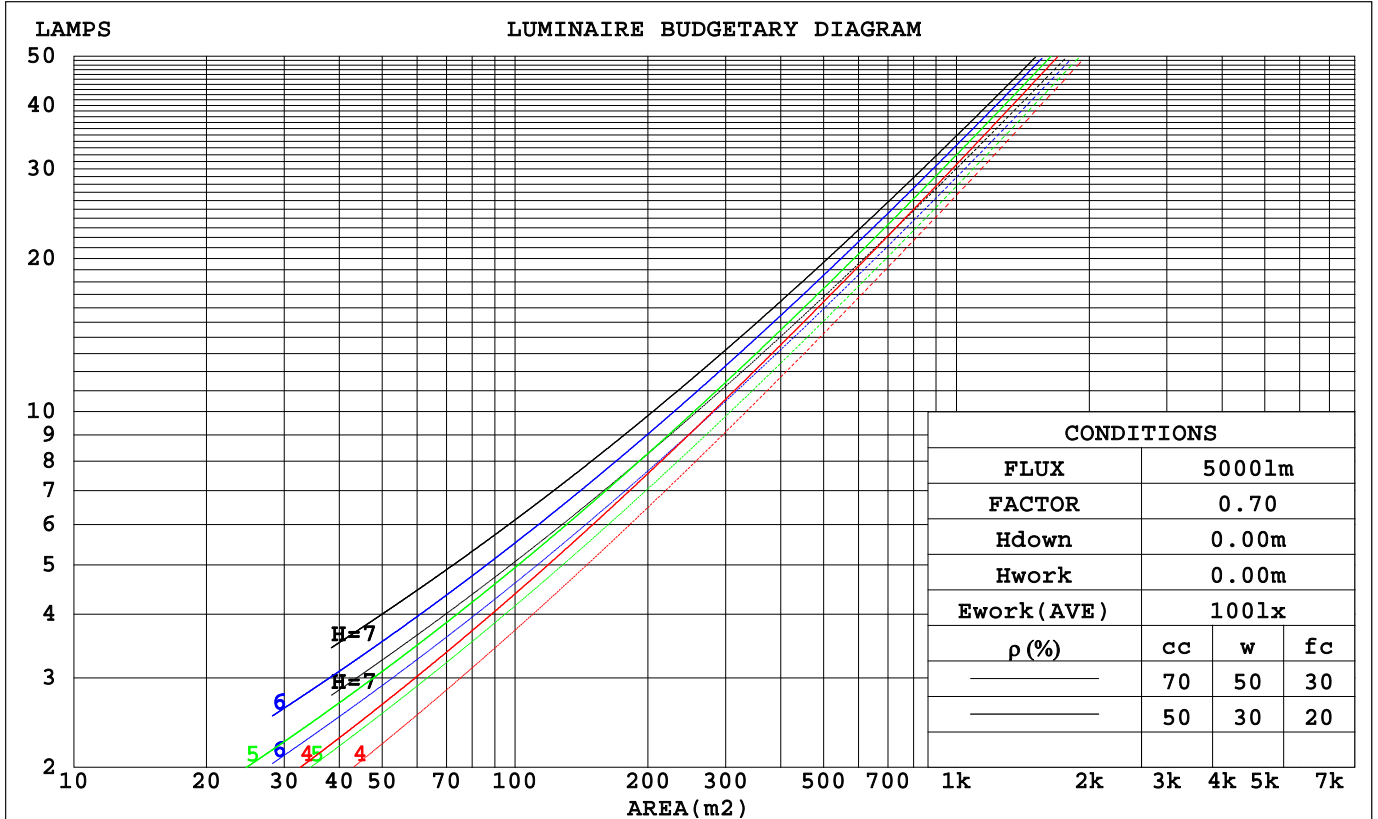
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 50W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 240*210*60	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	1.07	1.04	1.01	1.05	1.02	.99	1.00	.98	.95	.96	.94	.92	.92	.91	.89	.87
2.0	.96	.90	.85	.94	.89	.84	.90	.86	.82	.87	.83	.80	.83	.81	.78	.76
3.0	.86	.79	.73	.84	.78	.73	.81	.76	.71	.78	.74	.70	.75	.72	.68	.66
4.0	.77	.70	.64	.76	.69	.63	.73	.67	.62	.71	.65	.61	.68	.64	.60	.58
5.0	.70	.62	.56	.69	.61	.56	.66	.60	.55	.64	.59	.54	.62	.57	.53	.51
6.0	.63	.55	.50	.62	.55	.49	.60	.54	.49	.59	.53	.48	.57	.52	.48	.46
7.0	.58	.50	.44	.57	.49	.44	.55	.49	.44	.54	.48	.43	.52	.47	.43	.41
8.0	.53	.45	.40	.52	.45	.40	.51	.44	.39	.50	.43	.39	.48	.43	.39	.37
9.0	.49	.41	.36	.48	.41	.36	.47	.40	.36	.46	.40	.36	.45	.39	.35	.34
10.0	.45	.38	.33	.45	.38	.33	.44	.37	.33	.43	.37	.32	.42	.36	.32	.31



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:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 50W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 240*210*60	SERIAL No.: LA/YE6L-990706

γ	C0	C90	C180	C270				γ	zone	total
5.0	2133	2108	2114	2121				0- 5	50.86	50.86
10.0	2088	2048	2057	2073				5- 10	149.6	200.5
15.0	2011	1957	1975	1991				10- 15	240.2	440.8
20.0	1917	1841	1881	1885				15- 20	318.3	759.1
25.0	1803	1707	1769	1758				20- 25	381.5	1141
30.0	1681	1569	1654	1617				25- 30	428.3	1569
35.0	1558	1337	1527	1494				30- 35	458.4	2027
40.0	1418	1196	1383	1263				35- 40	466.1	2494
45.0	1237	964.1	1135	1058				40- 45	449.6	2943
50.0	1010	742.9	970.4	895.4				45- 50	401.0	3344
55.0	770.6	543.3	730.2	672.5				50- 55	341.3	3686
60.0	556.3	328.6	518.1	466.6				55- 60	264.3	3950
65.0	358.4	167.5	301.5	273.4				60- 65	181.6	4132
70.0	165.8	42.86	122.1	109.4				65- 70	96.79	4228
75.0	34.10	16.55	21.05	28.69				70- 75	30.67	4259
80.0	10.87	6.789	10.34	16.76				75- 80	8.896	4268
85.0	5.304	2.360	7.346	9.335				80- 85	4.460	4272
90.0	3.713	2.148	7.824	7.505				85- 90	2.945	4275
95.0	4.057	2.784	9.548	8.778				90- 95	3.162	4279
100.0	4.694	3.554	11.40	10.29				95-100	3.734	4282
105.0	5.622	4.614	13.23	12.04				100-105	4.373	4287
110.0	6.710	5.994	15.19	13.87				105-110	5.047	4292
115.0	7.930	7.399	17.18	15.70				110-115	5.688	4297
120.0	9.150	8.858	18.99	17.50				115-120	6.242	4304
125.0	10.34	10.39	20.82	19.20				120-125	6.658	4310
130.0	11.40	11.80	22.46	20.66				125-130	6.906	4317
135.0	12.41	13.15	23.26	22.06				130-135	6.936	4324
140.0	13.39	14.50	24.29	23.02				135-140	6.771	4331
145.0	14.37	15.75	25.19	23.57				140-145	6.430	4337
150.0	15.43	17.05	25.43	23.92				145-150	5.930	4343
155.0	16.81	18.56	25.75	24.24				150-155	5.282	4349
160.0	18.51	20.28	26.09	24.58				155-160	4.579	4353
165.0	20.55	22.30	26.49	24.93				160-165	3.778	4357
170.0	22.86	24.42	27.90	26.20				165-170	2.891	4360
175.0	25.30	26.49	28.19	26.76				170-175	1.858	4362
180.0	27.60	26.84	27.82	26.84				175-180	0.647	4362
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:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Report number:

MANUFACTURER:		
Address:		
NAME: 50W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 240*210*60	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 Coefficients(WEC)									
0.0																
1.0	.241	.137	.043	.233	.133	.042	.219	.126	.040	.207	.119	.038	.195	.113	.036	
2.0	.236	.130	.040	.230	.127	.039	.218	.121	.038	.206	.116	.036	.196	.111	.035	
3.0	.226	.120	.036	.220	.118	.035	.209	.113	.034	.199	.109	.033	.190	.105	.033	
4.0	.214	.111	.033	.209	.109	.032	.199	.106	.032	.190	.102	.031	.182	.099	.030	
5.0	.202	.103	.030	.197	.101	.029	.189	.098	.029	.181	.095	.028	.173	.093	.028	
6.0	.190	.095	.027	.186	.094	.027	.178	.091	.027	.171	.089	.026	.164	.087	.026	
7.0	.179	.089	.025	.176	.087	.025	.169	.085	.025	.162	.083	.024	.156	.081	.024	
8.0	.169	.083	.023	.166	.082	.023	.160	.080	.023	.154	.078	.022	.148	.076	.022	
9.0	.160	.077	.022	.157	.077	.021	.151	.075	.021	.146	.073	.021	.141	.072	.021	
10.0	.151	.073	.020	.149	.072	.020	.144	.070	.020	.139	.069	.020	.134	.068	.019	

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	.206	.206	.206	.176	.176	.176	.120	.120	.120	.069	.069	.069	.022	.022	.022	
1.0	.191	.172	.155	.163	.148	.134	.112	.102	.092	.064	.059	.054	.021	.019	.017	
2.0	.180	.148	.120	.154	.127	.104	.106	.088	.072	.061	.051	.042	.020	.017	.014	
3.0	.171	.129	.096	.147	.112	.083	.101	.078	.058	.058	.045	.034	.019	.015	.011	
4.0	.164	.116	.079	.140	.100	.069	.097	.070	.048	.056	.041	.029	.018	.013	.009	
5.0	.157	.105	.067	.134	.091	.058	.093	.063	.041	.054	.037	.024	.017	.012	.008	
6.0	.150	.097	.058	.129	.084	.051	.089	.059	.036	.052	.034	.021	.017	.011	.007	
7.0	.144	.090	.052	.124	.078	.045	.085	.054	.032	.050	.032	.019	.016	.010	.006	
8.0	.138	.084	.047	.119	.073	.041	.082	.051	.029	.048	.030	.017	.015	.010	.006	
9.0	.132	.079	.043	.114	.068	.037	.079	.048	.026	.046	.028	.016	.015	.009	.005	
10.0	.127	.075	.040	.110	.065	.034	.076	.046	.024	.044	.027	.015	.014	.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:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

Uncorrected UGR Table

Report number:

MANUFACTURER:										
Address:										
NAME: 50W					TYPE: SLIM			WEIGHT:		
SPECIFICATION:					DIMENSION: 240*210*60			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	21.3	22.6	21.6	22.9	23.1	19.9	21.2	20.2	21.5	21.7
3H	21.7	22.9	22.0	23.1	23.4	19.9	21.1	20.2	21.4	21.6
4H	21.6	22.7	21.9	23.0	23.3	19.8	21.0	20.2	21.2	21.5
6H	21.5	22.6	21.9	22.9	23.2	19.7	20.8	20.1	21.1	21.4
8H	21.5	22.5	21.8	22.8	23.1	19.7	20.7	20.0	21.0	21.3
12H	21.4	22.4	21.8	22.7	23.0	19.6	20.6	20.0	20.9	21.2
4H 2H	21.4	22.5	21.7	22.8	23.1	20.2	21.3	20.5	21.6	21.9
3H	21.8	22.8	22.2	23.1	23.4	20.2	21.2	20.6	21.5	21.8
4H	21.7	22.6	22.1	22.9	23.3	20.1	21.0	20.5	21.4	21.7
6H	21.6	22.4	22.0	22.8	23.2	20.0	20.8	20.5	21.2	21.6
8H	21.6	22.3	22.0	22.7	23.1	20.0	20.7	20.4	21.1	21.5
12H	21.5	22.2	22.0	22.6	23.0	19.9	20.6	20.4	21.0	21.4
8H 4H	21.6	22.3	22.0	22.7	23.1	20.0	20.7	20.5	21.1	21.5
6H	21.5	22.1	22.0	22.5	23.0	19.9	20.5	20.4	20.9	21.4
8H	21.5	22.0	21.9	22.4	22.9	19.9	20.4	20.4	20.9	21.3
12H	21.4	21.8	21.9	22.3	22.8	19.8	20.3	20.4	20.8	21.3
12H 4H	21.5	22.2	22.0	22.6	23.0	20.0	20.6	20.4	21.0	21.5
6H	21.5	22.0	21.9	22.4	22.9	19.9	20.4	20.4	20.9	21.3
8H	21.4	21.8	21.9	22.3	22.8	19.8	20.3	20.4	20.8	21.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.7					+ 1.0 / - 1.5				
1.5H	+ 0.6 / - 0.7					+ 0.5 / - 0.8				
2.0H	+ 1.5 / - 2.1					+ 1.8 / - 2.2				

CIE Pub.117 Corrected 4362 lm Total Lamp Luminous Flux. (8log(F/F0) = 5.1)

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:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:		
Address:		
NAME: 50W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 240*210*60	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	64	54	48	63	54	48	62	53	47	42
0.80	75	65	58	74	64	58	72	63	58	51
1.00	83	74	68	82	73	67	80	74	67	60
1.25	90	81	75	88	80	75	86	79	74	67
1.50	94	86	81	93	85	80	90	83	79	72
2.00	100	93	88	98	92	87	95	90	86	79
2.50	103	97	92	101	96	91	97	93	89	81
3.00	106	100	96	104	99	95	100	96	92	84
4.00	109	104	101	107	103	99	102	99	96	88
5.00	111	107	104	108	105	102	104	101	99	90
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

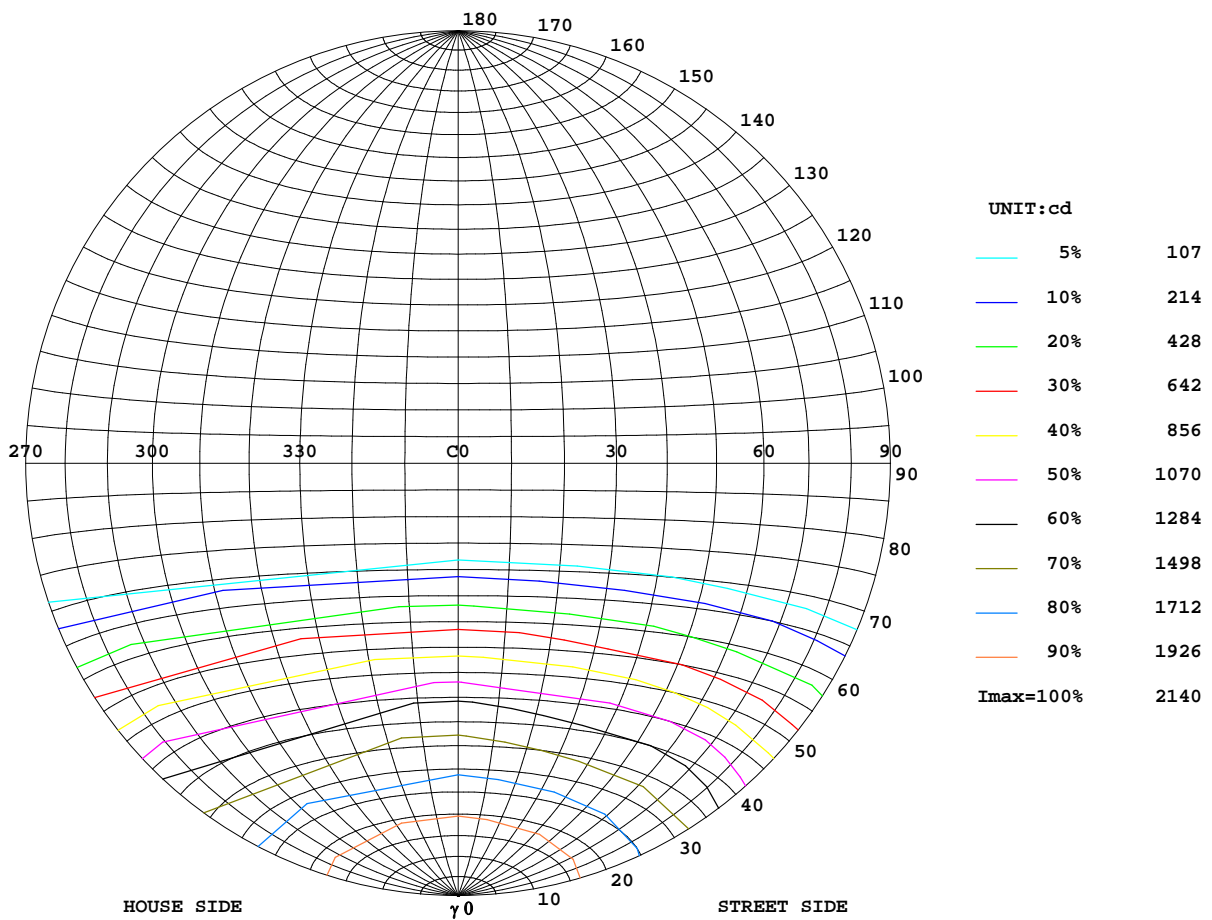
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.150 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 50W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 240*210*60	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:

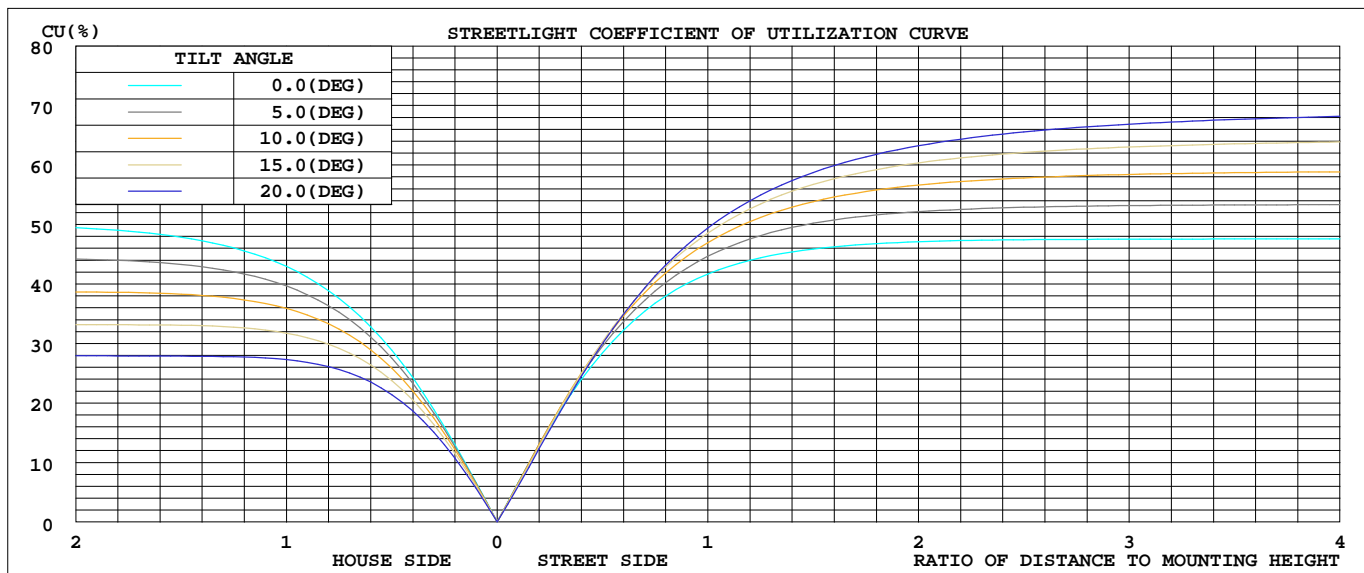
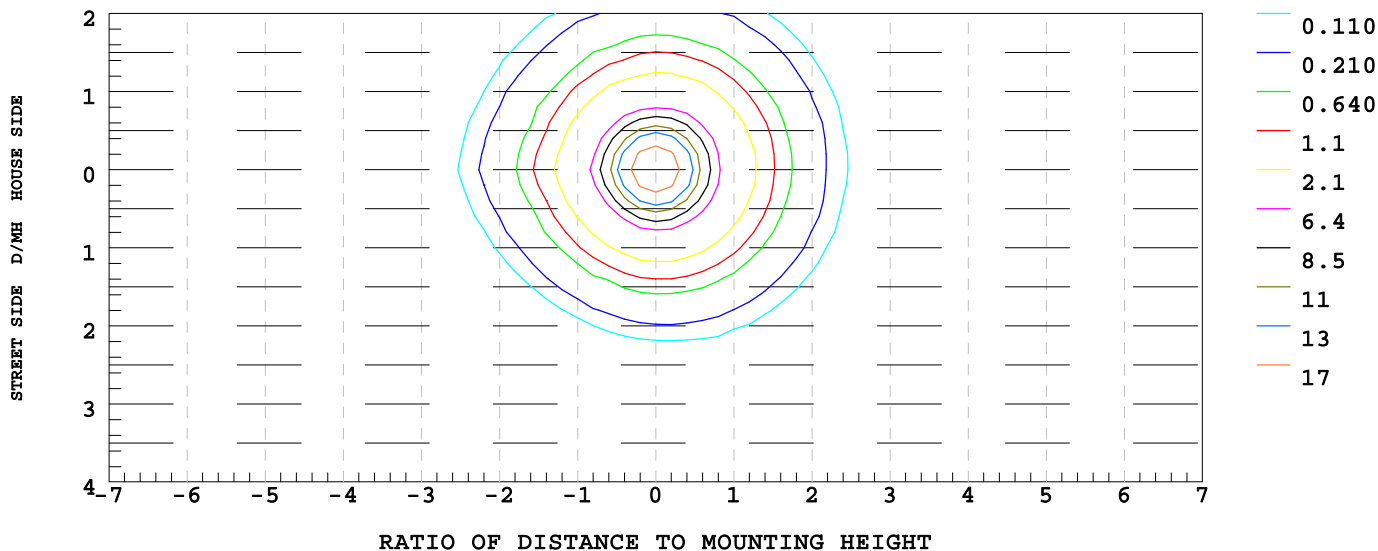
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 50W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 240*210*60	SERIAL No.: LA/YE6L-990706

ILLUMINANCE AT MH=10 m, Enadir = 21.37 lx



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

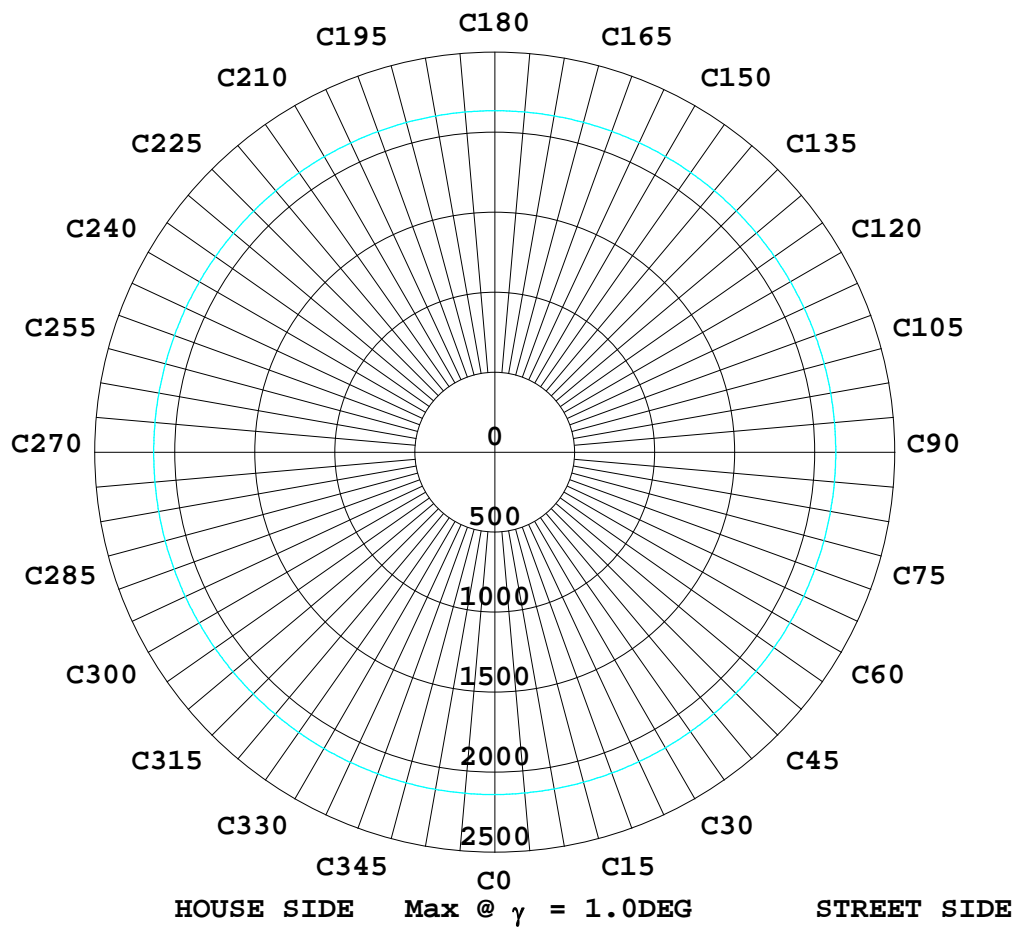
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.150 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 50W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 240*210*60	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:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:		
Address:		
NAME: 50W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 240*210*60	SERIAL No.: LA/YE6L-990706

UNIT: cd

V(DEG) \ H(DEG)	H(DEG)														
	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20
-90.0	7.82	7.50	7.19	6.87	6.56	6.24	5.93	5.61	5.30	4.98	4.67	4.35	4.04	3.72	3.40
-85.0	7.82	7.38	6.96	6.55	6.16	5.80	5.49	5.18	4.90	4.63	4.36	4.11	3.87	3.64	3.40
-80.0	7.82	7.27	6.75	6.36	6.06	5.84	5.70	5.66	5.70	5.80	5.97	6.16	6.41	6.62	6.82
-75.0	7.82	7.16	6.66	6.38	6.29	6.44	6.82	7.45	8.31	9.48	10.8	12.1	13.4	14.5	15.3
-70.0	7.82	7.06	6.65	6.58	6.91	7.72	9.04	11.2	13.8	16.4	19.8	26.2	32.4	38.6	44.9
-65.0	7.82	6.99	6.72	6.99	7.97	9.91	13.1	17.0	24.9	39.9	67.5	81.9	105	136	157
-60.0	7.82	6.97	6.86	7.61	9.48	13.4	18.4	34.1	73.9	105	157	198	242	280	297
-55.0	7.82	6.96	7.09	8.43	11.9	17.6	35.4	89.5	138	208	279	328	398	434	481
-50.0	7.82	6.97	7.36	9.44	14.9	27.0	84.7	145	233	322	416	481	557	625	657
-45.0	7.82	6.99	7.66	10.8	17.8	48.4	127	227	333	444	547	647	712	825	864
-40.0	7.82	7.02	8.06	12.4	22.2	96.7	189	315	445	564	679	833	899	1010	1064
-35.0	7.82	7.06	8.45	14.1	33.7	118	246	377	522	680	856	939	1059	1169	1275
-30.0	7.82	7.11	8.85	15.8	47.9	160	311	472	634	766	943	1077	1224	1339	1399
-25.0	7.82	7.16	9.20	17.3	67.7	201	358	522	708	911	1052	1227	1360	1445	1566
-20.0	7.82	7.21	9.58	18.5	99.5	238	396	595	763	975	1151	1340	1448	1579	1662
-15.0	7.82	7.25	9.89	19.5	114	260	462	658	856	1034	1261	1409	1536	1652	1749
-10.0	7.82	7.28	10.1	20.3	118	281	491	696	945	1085	1320	1463	1601	1711	1817
-5.0	7.82	7.31	10.2	20.8	120	295	508	718	959	1117	1362	1503	1636	1751	1861
0.0	7.82	7.34	10.3	21.0	122	302	518	730	970	1135	1383	1527	1654	1769	1881
5.0	7.82	7.35	10.3	21.0	122	297	513	723	966	1122	1368	1515	1641	1757	1868
10.0	7.82	7.35	10.3	20.7	120	287	500	707	956	1092	1338	1487	1611	1724	1831
15.0	7.82	7.35	10.1	20.1	118	270	475	676	874	1056	1291	1431	1564	1669	1770
20.0	7.82	7.33	9.95	19.2	104	248	412	619	791	1010	1189	1358	1501	1599	1688
25.0	7.82	7.32	9.65	18.1	71.0	212	376	549	742	948	1071	1281	1389	1517	1593
30.0	7.82	7.29	9.36	16.8	49.9	174	334	501	673	811	999	1118	1289	1376	1492
35.0	7.82	7.26	9.02	15.1	35.4	130	271	409	566	728	896	1009	1111	1258	1315
40.0	7.82	7.24	8.67	13.5	24.0	107	211	353	488	621	747	883	986	1048	1166
45.0	7.82	7.23	8.29	12.0	19.7	52.6	146	262	373	498	617	720	796	916	978
50.0	7.82	7.22	8.02	10.6	16.8	29.8	98.4	176	275	371	481	562	646	725	773
55.0	7.82	7.22	7.76	9.68	13.8	20.3	39.1	109	175	260	347	400	482	533	596
60.0	7.82	7.24	7.53	8.82	11.4	16.0	21.9	38.6	94.7	142	205	266	323	362	394
65.0	7.82	7.26	7.37	8.15	9.79	12.4	16.5	21.3	30.2	49.4	96.7	123	166	202	232
70.0	7.82	7.34	7.27	7.68	8.56	10.0	12.1	15.1	18.5	22.1	26.4	33.9	43.7	62.2	84.5
75.0	7.82	7.45	7.26	7.37	7.80	8.50	9.52	10.8	12.5	14.4	16.5	18.6	20.7	22.7	24.4
80.0	7.82	7.56	7.35	7.28	7.36	7.59	7.99	8.49	9.09	9.78	10.6	11.5	12.4	13.3	14.2
85.0	7.82	7.68	7.55	7.44	7.36	7.32	7.34	7.38	7.48	7.61	7.75	7.94	8.17	8.41	8.64
90.0	7.82	7.80	7.78	7.77	7.75	7.73	7.71	7.70	7.68	7.66	7.64	7.62	7.61	7.59	7.57

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:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:		
Address:		
NAME: 50W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 240*210*60	SERIAL No.: LA/YE6L-990706

UNIT: cd

H(DEG)	-15	-10	-5	0	5	10	15	20	25	30	35	40	45	50	55
-90.0	3.09	2.77	2.46	2.14	2.23	2.32	2.40	2.49	2.58	2.66	2.75	2.84	2.93	3.01	3.10
-85.0	3.15	2.89	2.63	2.36	2.51	2.66	2.79	2.91	3.01	3.08	3.14	3.20	3.26	3.29	3.32
-80.0	6.95	6.99	6.93	6.78	6.96	7.04	7.01	6.87	6.62	6.34	6.00	5.66	5.29	4.96	4.64
-75.0	16.0	16.5	16.6	16.5	17.3	17.7	17.3	16.0	14.9	13.8	12.6	11.2	9.78	8.48	7.29
-70.0	47.0	47.6	46.3	42.8	48.7	51.7	51.4	49.8	47.3	37.1	33.0	26.5	17.5	14.5	11.7
-65.0	162	170	172	168	176	177	172	166	149	120	98.9	76.4	48.8	35.6	18.5
-60.0	337	343	338	329	341	348	345	315	296	258	221	178	124	86.3	42.0
-55.0	502	526	545	543	548	532	512	501	456	413	361	297	237	166	105
-50.0	711	758	755	743	757	761	727	682	640	575	523	438	354	267	177
-45.0	905	981	976	964	983	990	914	875	838	757	668	584	467	369	263
-40.0	1114	1144	1189	1196	1192	1150	1124	1095	1032	916	846	705	606	473	341
-35.0	1318	1341	1347	1337	1350	1348	1327	1287	1185	1109	960	870	708	587	432
-30.0	1476	1549	1569	1569	1572	1554	1485	1412	1354	1243	1138	967	839	668	502
-25.0	1625	1670	1701	1707	1705	1678	1636	1578	1461	1380	1252	1091	938	742	576
-20.0	1738	1796	1832	1841	1838	1806	1752	1676	1595	1468	1364	1223	1005	835	659
-15.0	1835	1902	1943	1957	1951	1916	1854	1770	1672	1557	1434	1292	1065	918	701
-10.0	1909	1983	2033	2048	2043	2002	1934	1843	1735	1624	1490	1351	1140	962	734
-5.0	1956	2037	2091	2108	2104	2061	1986	1892	1781	1661	1532	1395	1204	992	757
0.0	1975	2057	2114	2137	2133	2088	2011	1917	1803	1681	1558	1418	1237	1010	771
5.0	1964	2045	2098	2121	2111	2068	1994	1899	1787	1666	1544	1400	1209	999	763
10.0	1923	1999	2051	2073	2061	2018	1948	1857	1748	1633	1514	1369	1147	973	745
15.0	1857	1926	1973	1991	1981	1941	1876	1790	1689	1585	1456	1322	1087	936	718
20.0	1768	1831	1869	1885	1875	1842	1782	1703	1615	1521	1382	1260	1039	863	683
25.0	1660	1714	1747	1758	1752	1722	1670	1606	1533	1409	1306	1110	975	775	604
30.0	1548	1587	1611	1617	1614	1593	1557	1505	1391	1308	1179	1023	883	706	532
35.0	1388	1464	1489	1494	1492	1470	1396	1328	1274	1161	1030	911	756	630	464
40.0	1232	1256	1267	1263	1270	1262	1241	1197	1070	1003	896	773	663	516	379
45.0	1010	1035	1055	1058	1062	1045	1019	989	929	841	741	654	521	409	298
50.0	812	855	887	895	890	858	827	797	740	665	604	502	403	309	208
55.0	625	649	668	673	671	655	634	616	555	497	432	365	289	204	125
60.0	447	463	467	467	470	468	456	412	378	338	289	226	161	107	46.5
65.0	260	269	273	273	277	276	270	241	215	181	140	106	58.3	40.9	22.7
70.0	97.1	104	108	109	111	108	102	89.4	70.9	48.3	40.8	33.1	23.1	19.2	15.6
75.0	25.9	27.1	28.0	28.6	28.8	28.3	27.2	25.1	23.1	21.1	19.1	16.9	14.7	12.6	10.7
80.0	15.0	15.7	16.3	16.7	16.3	15.8	15.1	14.2	13.3	12.4	11.3	10.3	9.27	8.35	7.46
85.0	8.85	9.04	9.20	9.33	9.09	8.81	8.49	8.15	7.78	7.38	6.97	6.59	6.23	5.86	5.52
90.0	7.55	7.54	7.52	7.50	7.29	7.08	6.87	6.66	6.45	6.24	6.03	5.82	5.60	5.39	5.18

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:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:		
Address:		
NAME: 50W	TYPE: SLIM	WEIGHT:
SPECIFICATION:	DIMENSION: 240*210*60	SERIAL No.: LA/YE6L-990706

UNIT: cd

V(DEG) \ H(DEG)	60	65	70	75	80	85	90
-90.0	3.19	3.27	3.36	3.45	3.53	3.62	3.71
-85.0	3.37	3.41	3.46	3.51	3.57	3.64	3.71
-80.0	4.32	4.08	3.88	3.73	3.67	3.66	3.71
-75.0	6.28	5.43	4.72	4.20	3.85	3.71	3.71
-70.0	9.35	7.46	5.99	4.90	4.14	3.78	3.71
-65.0	14.0	10.3	7.69	5.82	4.55	3.85	3.71
-60.0	23.5	14.4	9.84	6.92	5.00	3.95	3.71
-55.0	44.1	19.4	12.5	8.21	5.58	4.05	3.71
-50.0	99.8	41.3	15.9	9.69	6.15	4.20	3.71
-45.0	153	61.8	19.5	11.3	6.73	4.36	3.71
-40.0	222	112	34.5	13.2	7.41	4.51	3.71
-35.0	289	152	48.2	15.2	8.06	4.66	3.71
-30.0	346	196	59.6	17.0	8.66	4.81	3.71
-25.0	402	238	94.4	18.8	9.21	4.95	3.71
-20.0	460	273	118	21.1	9.77	5.06	3.71
-15.0	504	310	137	26.5	10.2	5.15	3.71
-10.0	529	333	151	30.5	10.5	5.22	3.71
-5.0	546	350	161	33.0	10.7	5.27	3.71
0.0	556	358	166	34.1	10.8	5.30	3.71
5.0	550	352	162	33.2	10.8	5.31	3.71
10.0	538	339	154	30.8	10.7	5.29	3.71
15.0	517	319	141	27.0	10.5	5.25	3.71
20.0	476	284	123	21.8	10.1	5.19	3.71
25.0	421	250	97.7	19.6	9.65	5.10	3.71
30.0	369	209	61.6	17.9	9.17	4.99	3.71
35.0	313	164	49.9	16.3	8.63	4.86	3.71
40.0	243	122	36.3	14.3	8.03	4.73	3.71
45.0	172	65.9	21.4	12.5	7.37	4.59	3.71
50.0	114	44.1	17.8	10.9	6.81	4.44	3.71
55.0	47.8	22.1	14.5	9.46	6.25	4.31	3.71
60.0	27.1	17.0	11.7	8.13	5.68	4.22	3.71
65.0	17.4	12.8	9.51	6.98	5.19	4.13	3.71
70.0	12.4	9.82	7.64	6.00	4.76	4.06	3.71
75.0	8.98	7.49	6.23	5.19	4.45	4.00	3.71
80.0	6.61	5.83	5.17	4.65	4.27	3.95	3.71
85.0	5.22	4.93	4.66	4.41	4.16	3.94	3.71
90.0	4.97	4.76	4.55	4.34	4.13	3.92	3.71

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: