

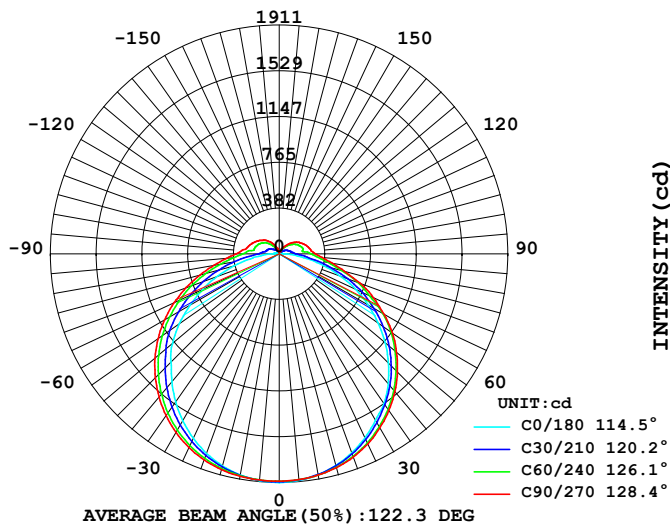
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

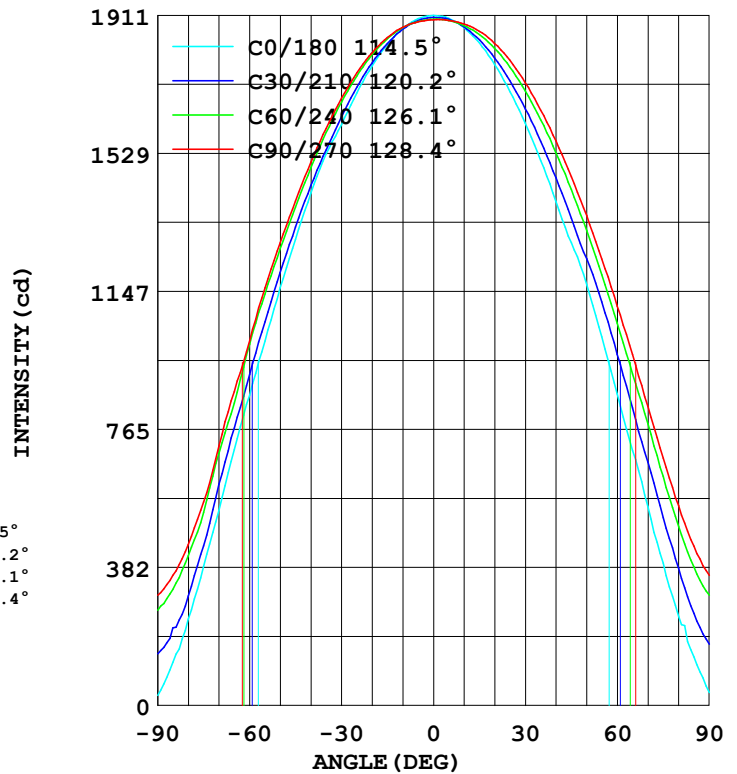
MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION: 4000K 48W 120°	CCT (K): 4000	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax (cd)	1911	S/MH (C0/180)	1.26
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.32
NOMINAL POWER (W)	48	TOTAL FLUX (lm)	6919.3	Voltage (V)	220.1
RATED VOLTAGE (V)	220	EFFICIENCY (lm/W)	144.7	Current (A)	0.225
NOMINAL FLUX (lm)	6919.4	$\eta$ up (%)	10.0	Power (W)	47.82
LAMPS QUANTITY	1	$\eta$ down (%)	90.0	Power Factor (PF)	0.964
TEST VOLTAGE (V)	220.2	Effective Flux (lm)	6513.9	EET	0.100

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System: HOPOO HPG1800  
 Temperature: 25.3 DEG  
 Operators:  
 Test Date: 09-15-2021

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 10.000 m  
 Remarks:

## Color Temperature Data List

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION: 4000K 48W 120°	CCT (K): 4000	DIMENSION:	SERIAL No.:

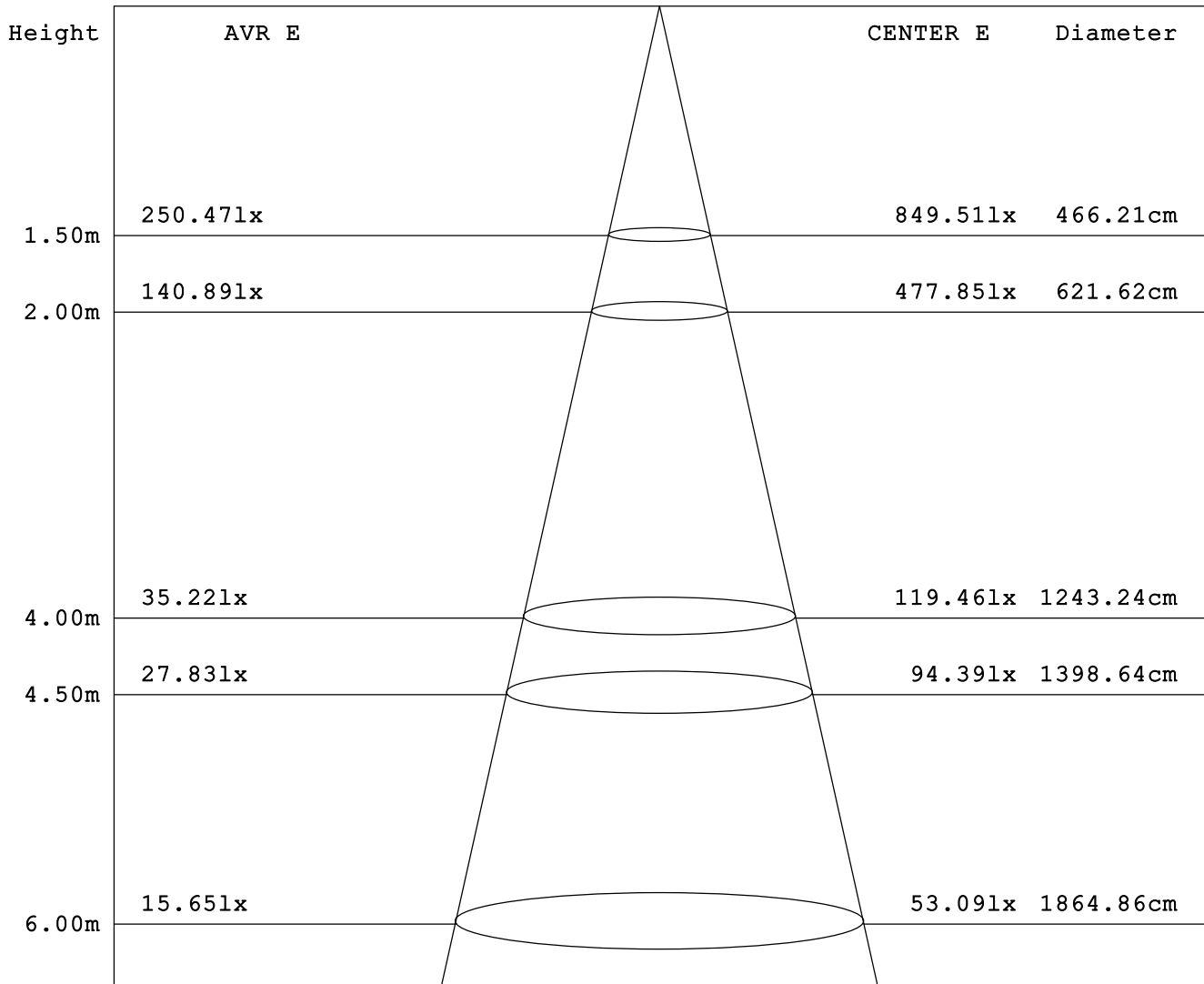
Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:09-15-2021

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION: 4000K 48W 120°	CCT (K): 4000	DIMENSION:	SERIAL No.:



Angle:114.5deg

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:09-15-2021

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION: 4000K 48W 120°	CCT (K) : 4000	DIMENSION:	SERIAL No. :

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	1902	1895	1893	1888	1903	1898	1897	1889	0- 5	45.38	45.38
10.0	1875	1875	1878	1868	1877	1881	1887	1872	5- 10	134.8	180.2
15.0	1830	1840	1850	1834	1835	1851	1867	1841	10- 15	220.5	400.8
20.0	1772	1791	1807	1787	1775	1806	1833	1796	15- 20	299.8	700.7
25.0	1696	1728	1752	1725	1700	1749	1786	1738	20- 25	370.2	1071
30.0	1609	1651	1682	1648	1612	1677	1724	1667	25- 30	429.4	1500
35.0	1528	1563	1598	1559	1510	1592	1649	1583	30- 35	476.0	1976
40.0	1419	1465	1504	1459	1395	1496	1564	1494	35- 40	508.7	2485
45.0	1290	1353	1397	1346	1281	1389	1464	1386	40- 45	526.0	3011
50.0	1157	1232	1281	1232	1165	1276	1357	1268	45- 50	527.9	3539
55.0	1009	1101	1157	1105	1021	1155	1237	1143	50- 55	514.7	4054
60.0	859.5	958.5	1010	962.0	863.3	1016	1106	1006	55- 60	484.5	4539
65.0	708.5	802.7	869.2	805.6	706.3	870.7	971.7	860.5	60- 65	438.5	4977
70.0	540.2	655.9	718.5	665.6	550.7	727.7	828.5	714.5	65- 70	382.0	5359
75.0	384.8	488.0	563.3	499.1	394.1	577.1	684.5	563.0	70- 75	314.1	5673
80.0	238.8	358.3	445.9	371.0	246.7	437.8	553.5	424.8	75- 80	243.3	5917
85.0	119.2	268.3	360.2	270.2	134.1	319.1	440.7	310.1	80- 85	180.4	6097
90.0	27.70	203.6	305.5	205.8	36.29	237.3	360.2	234.9	85- 90	132.0	6229
95.0	26.19	166.2	273.2	169.0	44.40	205.7	314.1	202.3	90- 95	105.3	6335
100.0	17.20	151.8	259.0	153.9	40.09	164.9	278.3	163.6	95-100	89.34	6424
105.0	18.29	146.8	245.0	149.5	35.00	161.3	263.6	158.3	100-105	81.77	6506
110.0	18.70	135.5	227.5	138.5	30.70	152.3	247.1	150.4	105-110	75.76	6581
115.0	13.50	124.5	209.5	125.0	17.80	144.0	230.6	141.3	110-115	67.95	6649
120.0	12.80	109.9	195.1	108.1	11.59	130.3	215.4	129.8	115-120	59.43	6709
125.0	13.40	94.89	172.0	92.25	12.50	115.8	197.6	117.8	120-125	50.62	6759
130.0	14.10	80.30	148.1	78.60	13.50	102.5	175.8	105.2	125-130	42.11	6802
135.0	15.00	66.55	122.8	63.04	14.50	86.40	161.6	91.60	130-135	34.01	6836
140.0	15.70	54.05	96.59	49.39	15.40	69.80	138.3	77.75	135-140	26.19	6862
145.0	16.40	43.50	74.50	39.70	16.10	55.40	115.1	64.19	140-145	19.37	6881
150.0	16.69	35.09	55.80	33.09	16.79	44.09	91.79	50.95	145-150	13.92	6895
155.0	17.29	28.45	41.50	27.15	17.29	35.45	69.90	39.40	150-155	9.672	6905
160.0	18.00	23.25	30.30	22.25	17.90	27.95	48.40	29.90	155-160	6.357	6911
165.0	18.50	20.15	22.30	19.20	18.40	22.40	33.39	23.00	160-165	4.001	6915
170.0	18.90	18.84	18.70	18.65	18.90	19.65	23.70	19.65	165-170	2.440	6918
175.0	19.20	19.00	18.40	18.75	19.10	19.00	20.60	18.95	170-175	1.372	6919
180.0	19.20	19.00	18.70	18.95	19.40	19.00	19.79	18.90	175-180	0.455	6919
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:09-15-2021

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

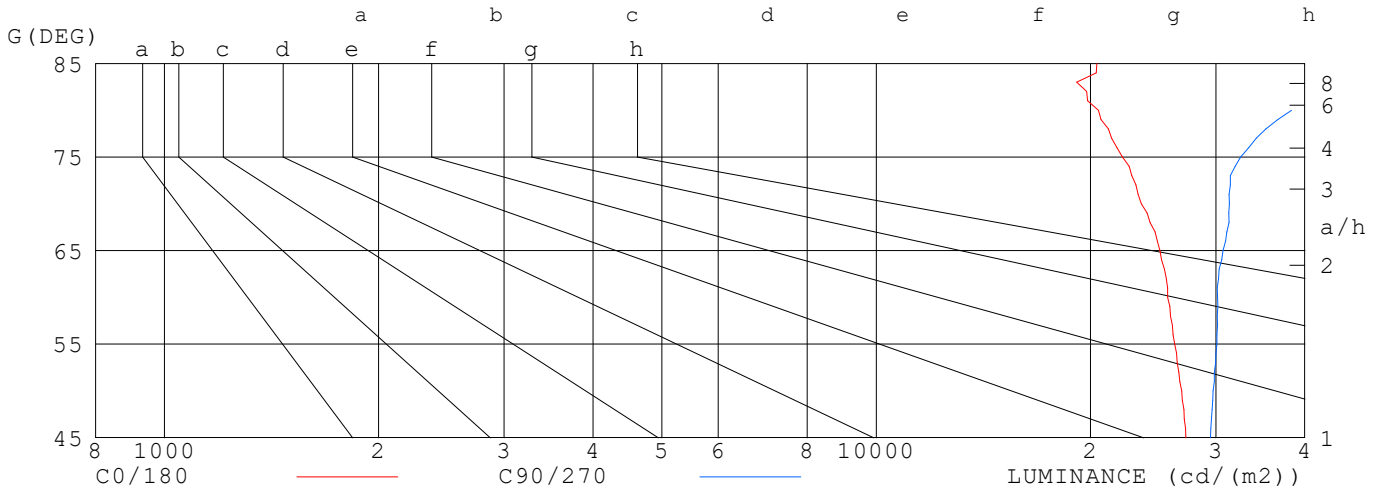
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	
SPECIFICATION: 4000K 48W 120°		CCT (K): 4000	
DIMENSION:		WEIGHT:	
SERIAL No.:			

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



G (DEG)	LUMINANCE cd/m2	
	C0/180	C90/270
85	20413	61701
80	20525	38326
75	22190	32490
70	23578	31359
65	25025	30701
60	25657	30161
55	26261	30104
50	26856	29738
45	27231	29485

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:09-15-2021

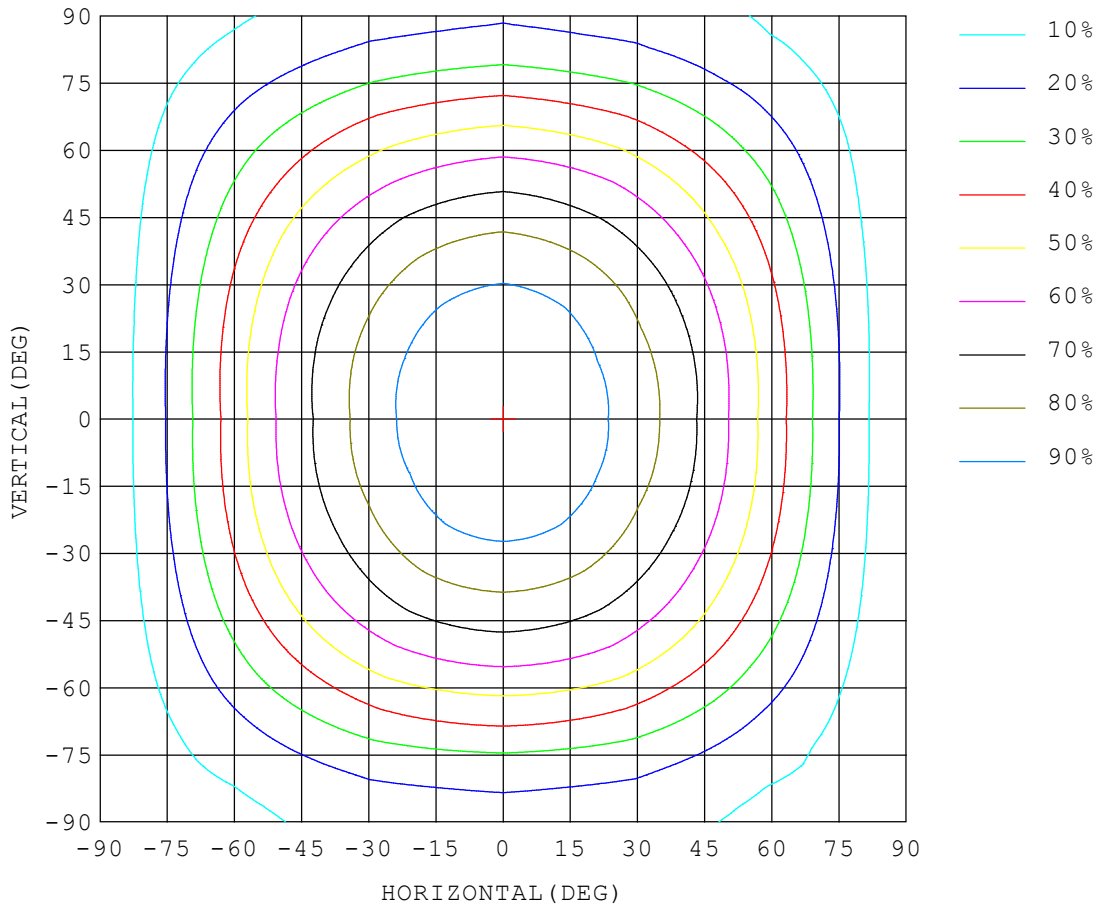
Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION: 4000K 48W 120°	CCT (K): 4000	DIMENSION:	SERIAL No.:

UNIT: cd



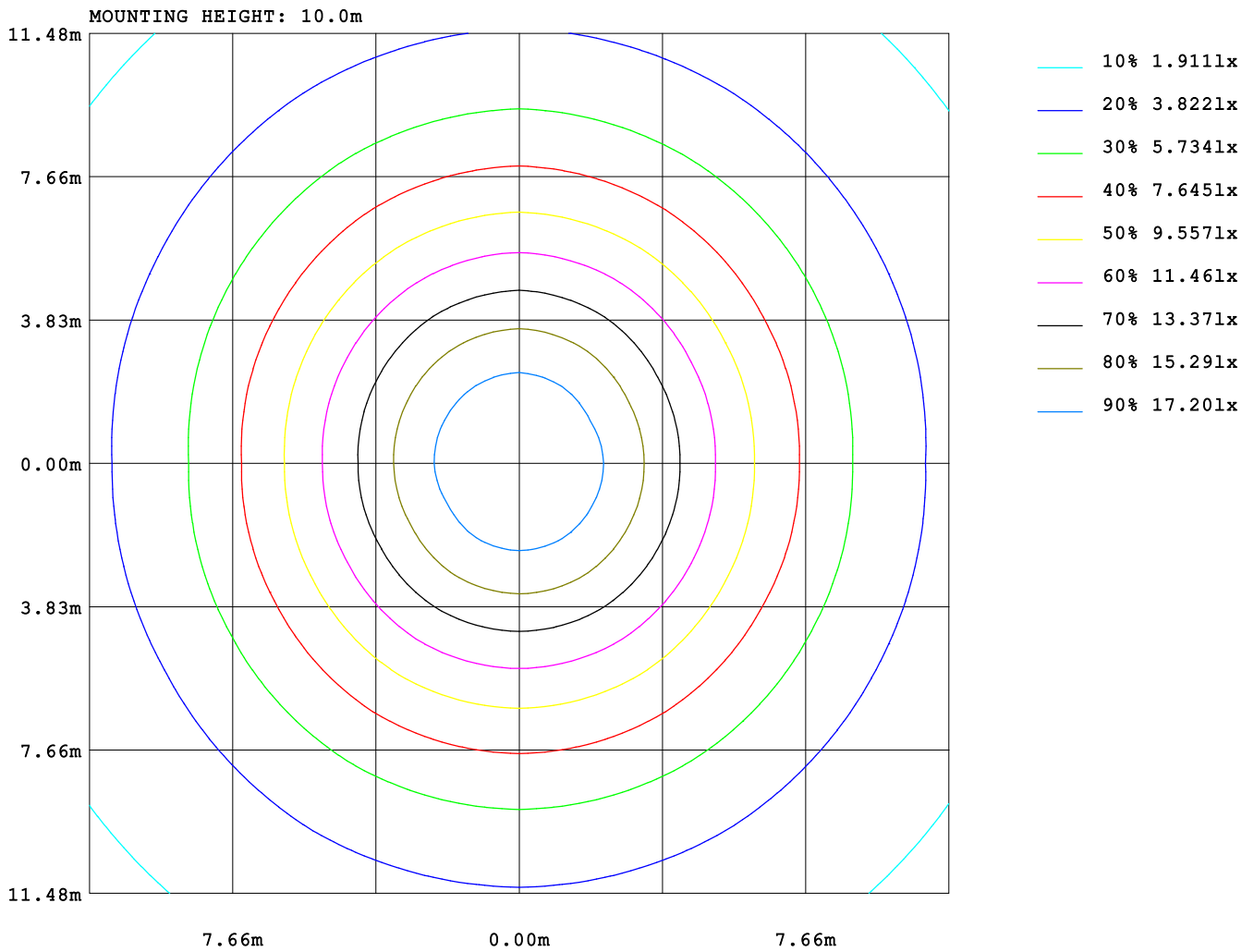
Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:09-15-2021

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION: 4000K 48W 120°	CCT (K): 4000	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:09-15-2021

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION: 4000K 48W 120°	CCT (K) : 4000	DIMENSION:	SERIAL No. :

VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT:lm	Φ t	Φ a
	0.20	1.00	2.34	4.15	6.32	8.68	10.7	12.1	13.2	13.1	12.0	10.5	8.50	6.15	4.00	2.22	0.93	0.18	117	111	
90	0.25	1.36	3.39	6.26	9.69	13.3	16.5	18.9	20.4	20.4	18.7	16.3	13.0	9.40	5.99	3.20	1.26	0.22	179	177	
80	0.30	1.78	4.65	8.80	13.7	18.9	23.5	26.9	28.9	28.9	26.8	23.3	18.6	13.4	8.50	4.43	1.64	0.27	254	252	
70	0.35	2.18	5.90	11.3	17.6	24.2	30.0	34.4	36.9	36.9	34.4	30.0	24.0	17.4	11.0	5.71	2.05	0.31	325	324	
60	0.39	2.55	7.07	13.5	21.2	28.9	35.8	40.9	43.8	43.8	40.8	35.6	28.7	20.8	13.3	6.90	2.43	0.35	388	387	
50	0.43	2.86	8.04	15.4	24.1	32.6	40.3	46.3	49.4	49.4	46.1	40.2	32.5	23.7	15.2	7.91	2.77	0.38	438	438	
40	0.46	3.09	8.76	16.8	26.1	35.3	43.7	50.2	53.6	53.5	50.0	43.5	35.3	25.9	16.6	8.66	3.02	0.41	476	475	
30	0.47	3.22	9.18	17.7	27.3	37.0	45.9	52.6	56.1	56.0	52.2	45.5	37.1	27.3	17.5	9.11	3.16	0.42	498	498	
20	0.47	3.24	9.27	17.9	27.7	37.7	46.8	53.7	57.2	57.0	53.4	46.6	37.9	27.8	17.7	9.25	3.19	0.42	508	507	
10	0.46	3.22	9.22	17.8	27.6	37.5	46.6	53.3	56.9	57.1	53.4	46.6	37.8	27.7	17.7	9.21	3.17	0.42	506	506	
0	0.46	3.16	9.03	17.4	26.9	36.5	45.2	51.9	55.6	55.6	52.1	45.4	36.8	27.0	17.3	8.99	3.10	0.41	494	493	
-10	0.44	2.99	8.53	16.4	25.5	34.4	42.8	49.3	52.6	52.6	49.3	43.0	34.7	25.4	16.3	8.45	2.91	0.39	467	466	
-20	0.41	2.72	7.73	14.8	23.2	31.5	39.2	45.0	48.0	48.0	45.0	39.3	31.6	23.1	14.7	7.60	2.63	0.37	426	425	
-30	0.37	2.38	6.65	12.8	20.2	27.7	34.4	39.3	41.9	41.9	39.3	34.4	27.6	20.0	12.7	6.48	2.26	0.34	371	371	
-40	0.33	1.99	5.37	10.4	16.4	22.6	28.3	32.4	34.6	34.6	32.4	28.4	22.6	16.3	10.2	5.18	1.86	0.30	305	304	
-50	0.28	1.58	4.07	7.74	12.3	17.1	21.3	24.3	26.0	26.0	24.2	21.2	16.9	12.0	7.45	3.85	1.47	0.25	228	227	
-60	0.23	1.20	2.86	5.23	8.22	11.3	14.1	16.0	17.1	17.0	15.9	13.9	11.1	7.98	5.01	2.73	1.13	0.20	152	148	
-70	0.18	0.87	1.96	3.47	5.35	7.40	9.08	10.1	10.8	10.8	10.1	9.00	7.31	5.27	3.42	1.90	0.81	0.16	98.2	89.6	
-80																					
-90																					
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90				
Φ t	6.50	41.4	114	219	340	463	575	658	704	704	657	574	463	338	215	112	39.8	5.79	6919		
Φ a	2.01	36.4	111	217	340	463	575	658	704	704	657	574	463	337	213	108	34.3	1.19	6514		

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:09-15-2021

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

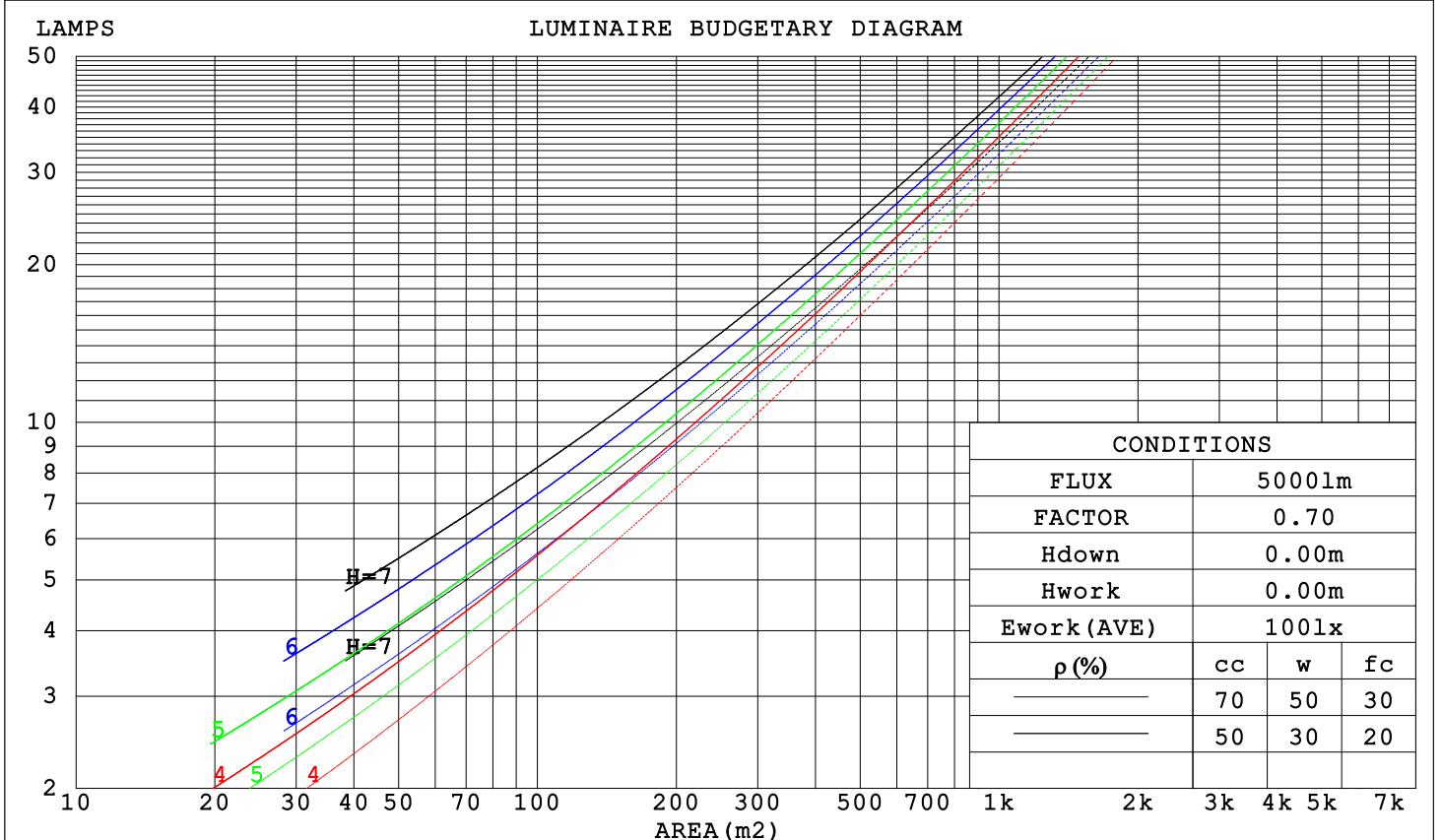


CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:															
Address:															
NAME:						TYPE:						WEIGHT:			
SPECIFICATION: 4000K 48W 120°				CCT (K): 4000				DIMENSION:				SERIAL No.:			

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.17	1.17	1.17	1.13	1.13	1.13	1.06	1.06	1.06	.99	.99	.99	.93	.93	.93	.90
1.0	.00	.95	.90	.96	.92	.88	.90	.87	.83	.85	.82	.79	.79	.77	.75	.72
2.0	.86	.79	.72	.83	.76	.71	.78	.72	.68	.73	.69	.65	.69	.65	.62	.59
3.0	.75	.66	.59	.73	.65	.58	.68	.61	.56	.64	.58	.54	.60	.56	.52	.49
4.0	.66	.57	.50	.64	.56	.49	.60	.53	.47	.57	.51	.46	.53	.48	.44	.41
5.0	.59	.50	.43	.57	.48	.42	.54	.46	.41	.51	.44	.39	.48	.42	.38	.35
6.0	.53	.44	.37	.51	.43	.36	.48	.41	.35	.46	.39	.34	.43	.38	.33	.31
7.0	.48	.39	.32	.46	.38	.32	.44	.36	.31	.42	.35	.30	.39	.34	.29	.27
8.0	.43	.35	.29	.42	.34	.28	.40	.33	.28	.38	.32	.27	.36	.30	.26	.24
9.0	.40	.31	.26	.39	.31	.25	.37	.30	.25	.35	.29	.24	.33	.28	.23	.22
10.0	.37	.29	.23	.36	.28	.23	.34	.27	.22	.32	.26	.22	.31	.25	.21	.19



Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:09-15-2021

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

WEC AND CCEC

Report number:

MANUFACTURER:															
Address:															
NAME:										TYPE:			WEIGHT:		
SPECIFICATION: 4000K 48W 120°				CCT (K): 4000				DIMENSION:				SERIAL No.:			

ρ <sub>cc</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.346	.197	.062	.336	.191	.061	.316	.182	.058	.299	.172	.055	.283	.164	.053	
2.0	.312	.171	.052	.303	.167	.051	.285	.159	.049	.270	.151	.047	.255	.144	.045	
3.0	.283	.150	.045	.274	.147	.044	.259	.140	.043	.245	.134	.041	.232	.128	.040	
4.0	.258	.134	.039	.250	.131	.039	.236	.125	.037	.224	.120	.036	.212	.115	.035	
5.0	.236	.120	.035	.230	.118	.034	.217	.113	.033	.205	.108	.032	.195	.104	.031	
6.0	.218	.109	.031	.212	.107	.031	.200	.103	.030	.190	.099	.029	.180	.095	.028	
7.0	.202	.100	.028	.196	.098	.028	.186	.094	.027	.176	.090	.026	.167	.087	.026	
8.0	.188	.092	.026	.183	.090	.025	.173	.087	.025	.165	.083	.024	.156	.080	.023	
9.0	.175	.085	.024	.171	.083	.023	.162	.080	.023	.154	.077	.022	.147	.075	.022	
10.0	.165	.079	.022	.160	.078	.022	.153	.075	.021	.145	.072	.020	.138	.069	.020	

ρ <sub>cc</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0																
1.0	.259	.232	.208	.222	.200	.179	.152	.137	.124	.087	.079	.072	.028	.026	.023	
2.0	.252	.209	.173	.216	.180	.149	.148	.124	.104	.085	.072	.061	.027	.023	.020	
3.0	.244	.192	.150	.210	.166	.130	.144	.115	.091	.083	.067	.054	.027	.022	.018	
4.0	.237	.179	.135	.203	.155	.117	.140	.108	.083	.081	.063	.049	.026	.021	.016	
5.0	.229	.169	.124	.197	.146	.108	.136	.102	.076	.079	.060	.045	.025	.020	.015	
6.0	.222	.161	.117	.191	.139	.102	.132	.098	.072	.076	.057	.043	.025	.019	.014	
7.0	.215	.154	.111	.185	.134	.097	.128	.094	.069	.074	.055	.041	.024	.018	.014	
8.0	.209	.148	.107	.180	.129	.093	.124	.090	.066	.072	.053	.040	.023	.017	.013	
9.0	.202	.144	.104	.174	.125	.091	.121	.088	.064	.070	.052	.038	.023	.017	.013	
10.0	.197	.139	.101	.170	.121	.088	.118	.085	.063	.069	.050	.037	.022	.017	.012	

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:09-15-2021

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

UGR Table

Report number:

MANUFACTURER:										
Address:										
NAME:					TYPE:			WEIGHT:		
SPECIFICATION: 4000K 48W 120°		CCT(K): 4000			DIMENSION:			SERIAL No.:		

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	23.5	25.0	23.9	25.3	25.7	24.2	25.6	24.6	26.0	26.4
3H	25.1	26.4	25.5	26.8	27.3	26.1	27.4	26.5	27.8	28.2
4H	25.7	26.9	26.1	27.4	27.8	26.9	28.2	27.4	28.6	29.1
6H	26.1	27.3	26.6	27.8	28.3	27.8	29.0	28.3	29.4	29.9
8H	26.3	27.4	26.8	27.9	28.4	28.3	29.4	28.7	29.9	30.4
12H	26.4	27.5	26.9	28.0	28.5	28.8	29.9	29.3	30.4	30.9
4H 2H	24.3	25.5	24.7	26.0	26.4	24.8	26.0	25.2	26.4	26.9
3H	26.0	27.1	26.5	27.6	28.1	26.8	27.9	27.3	28.4	28.9
4H	26.7	27.7	27.3	28.2	28.8	27.9	28.9	28.4	29.4	29.9
6H	27.3	28.2	27.9	28.7	29.3	28.9	29.8	29.4	30.3	30.9
8H	27.5	28.4	28.1	28.9	29.5	29.5	30.3	30.0	30.9	31.5
12H	27.7	28.5	28.3	29.1	29.7	30.2	30.9	30.7	31.5	32.1
8H 4H	27.2	28.0	27.7	28.5	29.1	28.1	29.0	28.7	29.5	30.1
6H	28.0	28.7	28.5	29.2	29.9	29.4	30.1	30.0	30.7	31.3
8H	28.3	28.9	28.9	29.5	30.2	30.2	30.8	30.8	31.4	32.1
12H	28.6	29.2	29.2	29.8	30.5	31.1	31.6	31.7	32.2	32.9
12H 4H	27.3	28.0	27.8	28.6	29.2	28.1	28.9	28.7	29.5	30.1
6H	28.1	28.8	28.7	29.4	30.0	29.5	30.1	30.1	30.7	31.4
8H	28.6	29.1	29.2	29.7	30.4	30.3	30.9	31.0	31.5	32.2

Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 6919 lm Total Lamp Luminous Flux. (8log(F/F0) = 6.7)

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:09-15-2021

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

## UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:							
Address:							
NAME:		TYPE:		WEIGHT:			
SPECIFICATION: 4000K 48W 120°		CCT (K): 4000		DIMENSION:		SERIAL No.:	

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) $k(RI) \times RCR = 5$										
$k = 0.60$	52	40	33	51	40	33	50	39	32	26	
0.80	62	49	42	60	49	41	58	48	41	33	
1.00	70	58	50	68	57	50	65	58	49	41	
1.25	77	65	57	75	64	57	71	62	56	47	
1.50	82	71	63	80	70	62	76	67	61	52	
2.00	89	79	72	87	78	71	82	74	69	59	
2.50	93	84	77	91	82	76	85	79	73	63	
3.00	97	89	82	94	87	81	88	83	78	66	
4.00	101	95	89	98	92	87	92	87	83	71	
5.00	104	98	93	101	95	91	95	90	87	74	
ROOM INDEX	UF(total)									Direct	
According to DIN EN 13032-2 2004				Suspended				SHRNOM = 1.25			

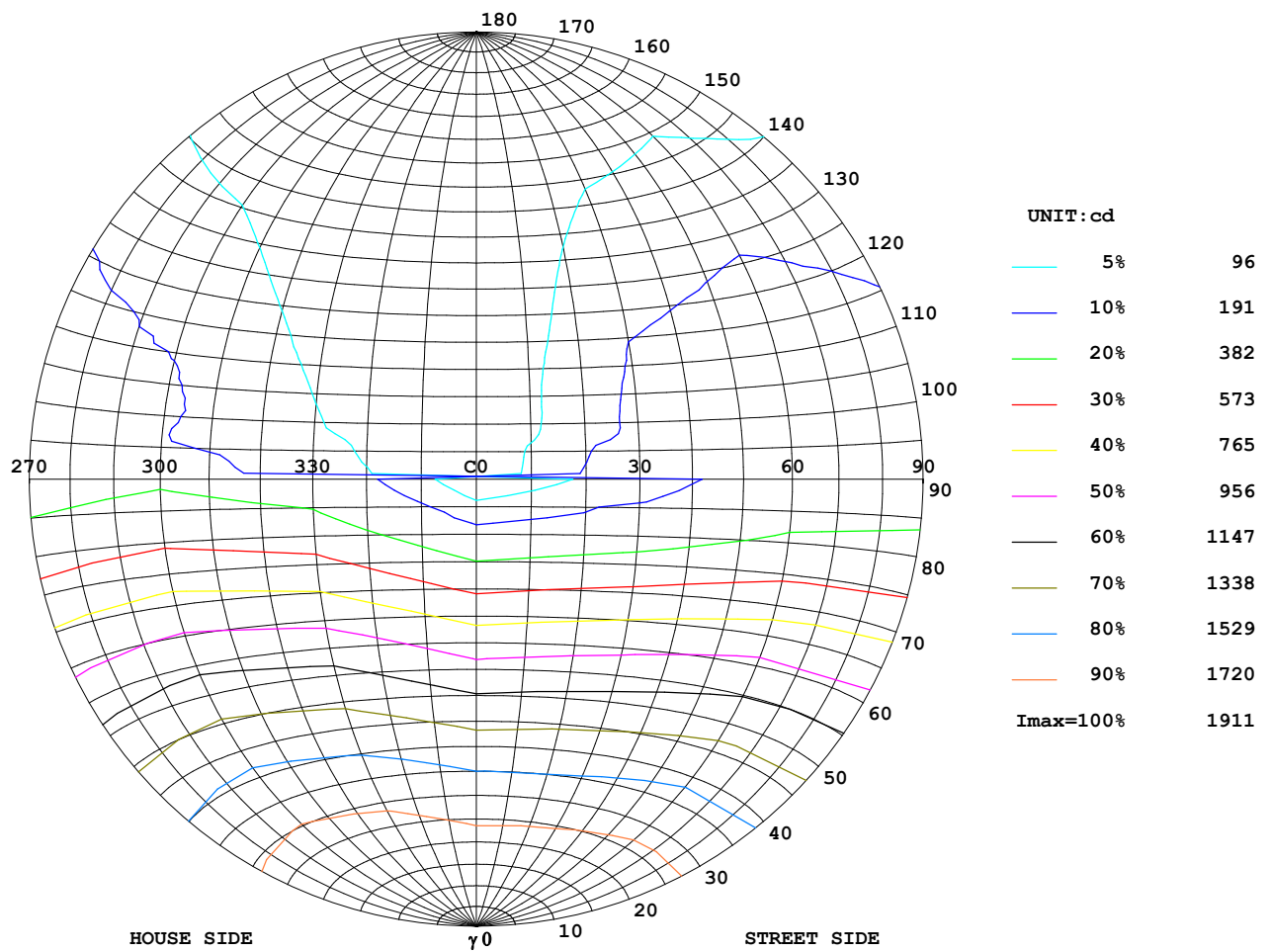
Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:09-15-2021

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

### ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION: 4000K 48W 120°	CCT (K): 4000	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:09-15-2021

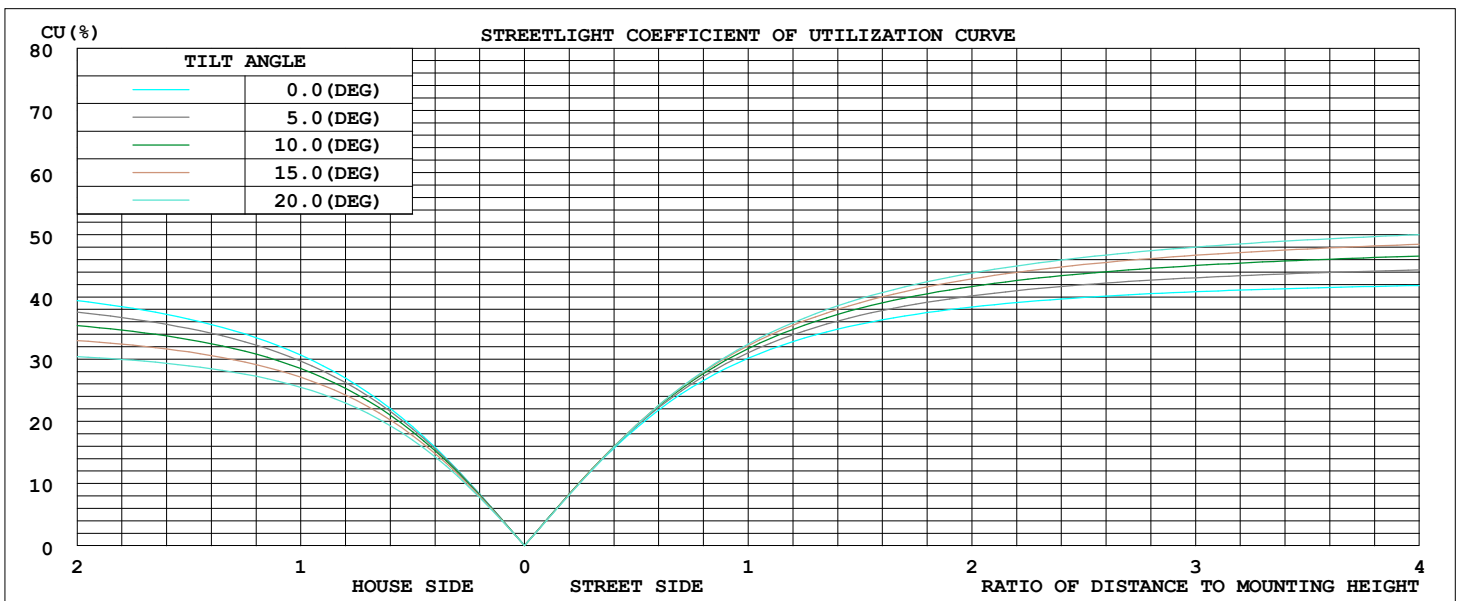
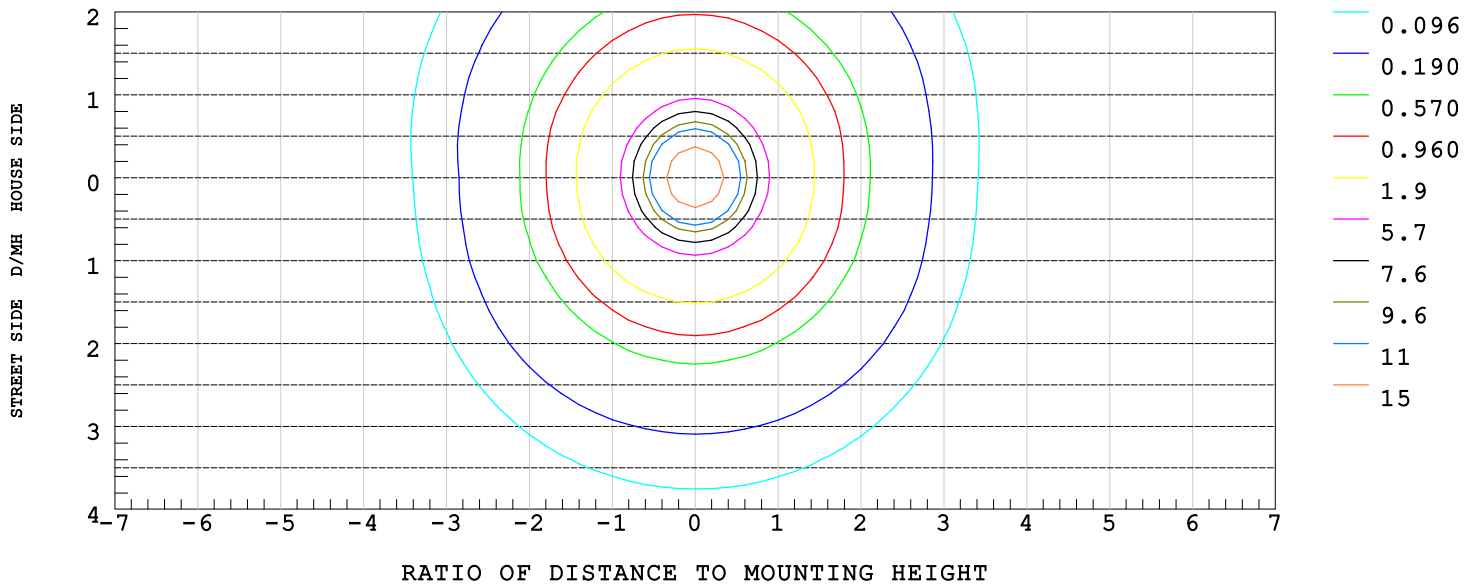
Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

### ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION: 4000K 48W 120°	CCT (K): 4000	DIMENSION:	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 19.11 lx



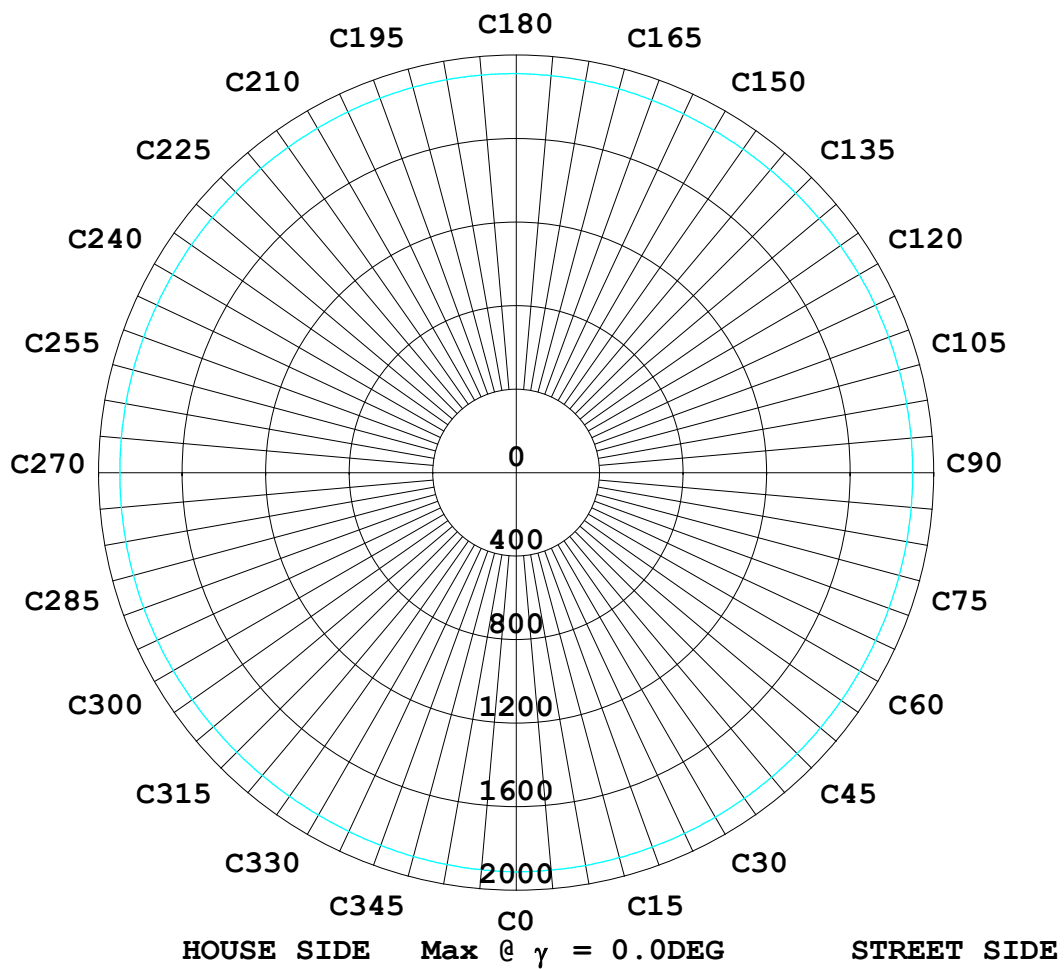
Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:09-15-2021

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION: 4000K 48W 120°	CCT (K): 4000	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:09-15-2021

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION: 4000K 48W 120°	CCT (K) : 4000	DIMENSION:	SERIAL No. :

UNIT: cd

γ (DEG)	C (DEG)											
	0	30	60	90	120	150	180	210	240	270	300	330
0.0	1911	1905	1900	1899	1897	1894	1911	1905	1900	1899	1897	1894
5.0	1902	1897	1894	1893	1891	1886	1903	1900	1897	1897	1893	1886
10.0	1875	1873	1877	1878	1874	1863	1877	1879	1883	1887	1879	1865
15.0	1830	1833	1846	1850	1844	1825	1835	1843	1858	1867	1854	1828
20.0	1772	1780	1803	1807	1801	1772	1775	1793	1819	1833	1815	1777
25.0	1696	1712	1744	1752	1742	1707	1700	1730	1767	1786	1762	1715
30.0	1609	1631	1671	1682	1670	1626	1612	1652	1702	1724	1696	1638
35.0	1528	1538	1587	1598	1586	1532	1510	1562	1622	1649	1615	1551
40.0	1419	1441	1489	1504	1488	1429	1395	1462	1530	1564	1523	1465
45.0	1290	1325	1380	1397	1380	1312	1281	1349	1429	1464	1421	1352
50.0	1157	1199	1265	1281	1264	1200	1165	1237	1315	1357	1307	1230
55.0	1009	1063	1139	1157	1136	1074	1021	1117	1193	1237	1190	1096
60.0	860	917	1001	1010	997	927	863	972	1059	1106	1061	951
65.0	709	768	837	869	838	773	706	824	918	972	913	808
70.0	540	613	698	719	704	628	551	675	781	829	770	659
75.0	385	442	534	563	541	457	394	520	634	685	624	502
80.0	239	302	414	446	421	321	247	380	496	554	487	363
85.0	119	215	322	360	326	215	134	255	383	441	378	243
90.0	27.7	144	264	306	268	144	36.2	170	305	360	301	169
95.0	26.1	120	213	273	218	120	44.4	146	265	314	261	144
100.0	17.2	101	203	259	207	101	40.0	117	213	278	214	113
105.0	18.2	92.2	201	245	203	96.0	35.0	111	212	264	209	108
110.0	18.7	82.2	189	228	190	87.1	30.7	104	200	247	200	101
115.0	13.5	71.0	178	210	176	74.5	17.8	95.5	192	231	189	93.5
120.0	12.8	59.7	160	195	157	58.9	11.5	82.3	178	215	175	84.5
125.0	13.4	49.5	140	172	138	46.2	12.5	68.5	163	198	160	75.4
130.0	14.1	41.8	119	148	117	40.0	13.5	58.7	146	176	144	66.1
135.0	15.0	35.9	97.1	123	90.5	35.5	14.5	51.4	121	162	126	57.0
140.0	15.7	30.7	77.3	96.5	68.6	30.1	15.4	44.2	95.3	138	107	48.2
145.0	16.4	26.4	60.5	74.5	54.0	25.4	16.1	37.2	73.5	115	88.3	40.0
150.0	16.6	22.9	47.2	55.8	44.7	21.5	16.7	30.8	57.3	91.7	69.5	32.4
155.0	17.2	20.1	36.7	41.5	35.7	18.6	17.2	25.9	45.0	69.9	52.1	26.6
160.0	18.0	18.4	28.0	30.3	27.0	17.5	17.9	22.1	33.7	48.4	37.5	22.3
165.0	18.5	18.0	22.2	22.3	21.1	17.2	18.4	20.1	24.6	33.3	26.1	19.9
170.0	18.9	18.0	19.6	18.7	19.4	17.9	18.9	19.6	19.6	23.7	20.0	19.3
175.0	19.2	18.5	19.5	18.4	19.3	18.1	19.1	19.4	18.6	20.6	18.7	19.2
180.0	19.2	18.6	19.4	18.7	19.3	18.6	19.4	19.3	18.7	19.7	18.7	19.1

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:09-15-2021

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks: