

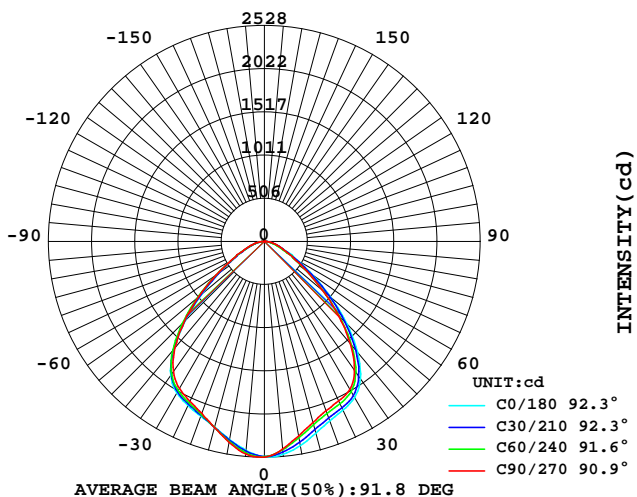
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

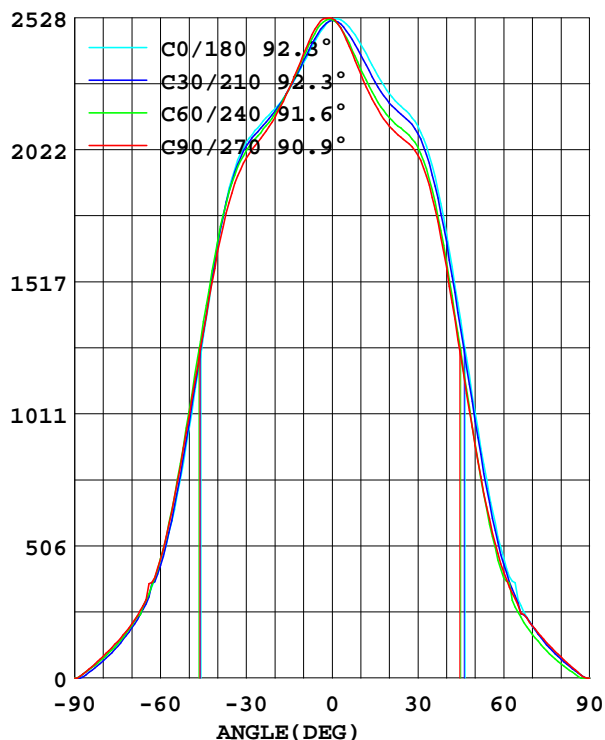
MANUFACTURER:		
Address:		
NAME: 32W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65mm	SERIAL No.:

DATA OF LAMP		I _{max} (cd)	2528	S/MH(C0/180)	1.22
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.18
NOMINAL POWER(W)	34	TOTAL FLUX(lm)	5083.6	Voltage(V)	218.8
RATED VOLTAGE(V)	218	EFFICIENCY(lm/W)	152.4	Current(A)	0.162
NOMINAL FLUX(lm)	5083.6	h up(%)	0.0	Power(W)	33.36
LAMPS QUANTITY	1	h down(%)	100.0	Power Factor(PF)	0.938
TEST VOLTAGE(V)	218.8	Effective Flux(lm)	4836.4	EEI	0.094

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



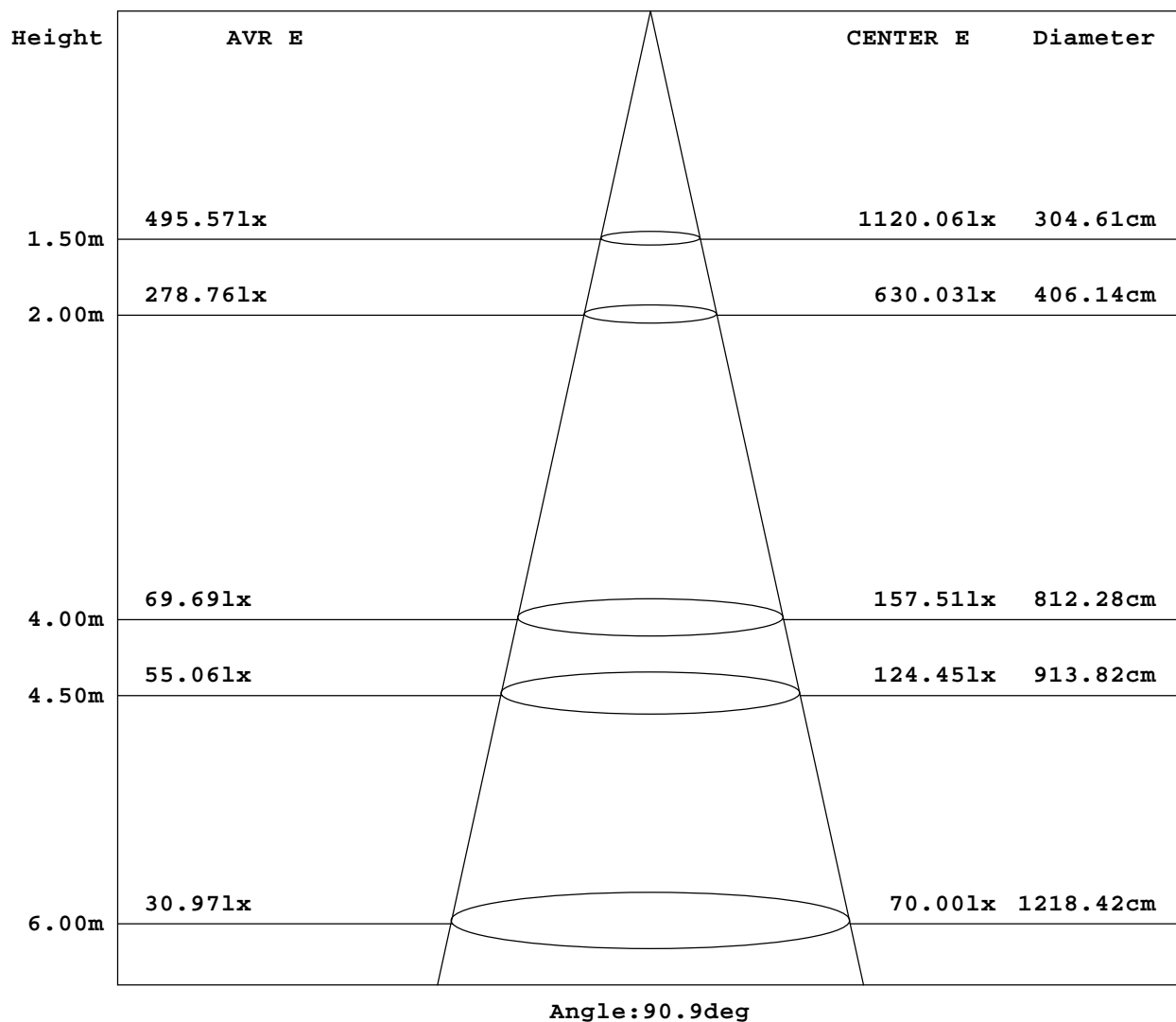
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月07日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:		
Address:		
NAME: 32W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65mm	SERIAL No.:



Test System: HOPOO HPG1800
 Temperature: 25.3DEG
 Operators:
 Test Date: 2019年08月07日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 11.000 m
 Remarks:

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 32W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65mm	SERIAL No.:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	Zone	tStal
5.0	2456	2476	2500	2509	2503	2463	2441	2441	0- 5	59.68	59.68
10.0	2355	2370	2390	2422	2427	2359	2315	2322	5- 10	172.9	232.6
15.0	2252	2256	2257	2302	2326	2253	2197	2217	10- 15	273.9	506.5
20.0	2178	2164	2144	2199	2237	2173	2112	2141	15- 20	364.0	870.5
25.0	2119	2095	2066	2132	2179	2122	2061	2089	20- 25	448.1	1319
30.0	2051	2027	1989	2067	2113	2058	2002	2024	25- 30	525.8	1845
35.0	1912	1897	1855	1930	1961	1896	1839	1878	30- 35	582.2	2427
40.0	1647	1665	1632	1679	1696	1629	1571	1609	35- 40	592.8	3020
45.0	1310	1344	1326	1360	1369	1293	1231	1265	40- 45	547.0	3567
50.0	951.4	993.9	997.3	1022	1016	939.0	888.3	904.2	45- 50	458.9	4026
55.0	645.3	678.0	696.1	704.1	692.4	629.8	608.0	607.7	50- 55	350.1	4376
60.0	439.5	444.2	455.5	458.9	460.9	410.3	405.9	402.8	55- 60	247.6	4623
65.0	298.2	290.9	299.5	295.9	300.9	269.3	279.2	271.3	60- 65	174.4	4798
70.0	202.1	195.4	206.9	197.9	197.6	182.1	199.4	185.4	65- 70	119.3	4917
75.0	136.3	126.4	139.3	127.0	130.2	115.9	135.7	118.6	70- 75	82.99	5000
80.0	80.17	70.61	82.83	71.52	75.33	63.53	81.62	65.23	75- 80	52.50	5053
85.0	30.68	26.02	34.19	27.05	28.02	20.40	30.80	20.40	80- 85	26.22	5079
90.0	0	0	0	0	0	0	0	0	85- 90	4.696	5084
95.0	0	0	0	0	0	0	0	0	90- 95	0	5084
100.0	0	0	0	0	0	0	0	0	95-100	0	5084
105.0	0	0	0	0	0	0	0	0	100-105	0	5084
110.0	0	0	0	0	0	0	0	0	105-110	0	5084
115.0	0	0	0	0	0	0	0	0	110-115	0	5084
120.0	0	0	0	0	0	0	0	0	115-120	0	5084
125.0	0	0	0	0	0	0	0	0	120-125	0	5084
130.0	0	0	0	0	0	0	0	0	125-130	0	5084
135.0	0	0	0	0	0	0	0	0	130-135	0	5084
140.0	0	0	0	0	0	0	0	0	135-140	0	5084
145.0	0	0	0	0	0	0	0	0	140-145	0	5084
150.0	0	0	0	0	0	0	0	0	145-150	0	5084
155.0	0	0	0	0	0	0	0	0	150-155	0	5084
160.0	0	0	0	0	0	0	0	0	155-160	0	5084
165.0	0	0	0	0	0	0	0	0	160-165	0	5084
170.0	0	0	0	0	0	0	0	0	165-170	0	5084
175.0	0	0	0	0	0	0	0	0	170-175	0	5084
180.0	0	0	0	0	0	0	0	0	175-180	0	5084
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年08月07日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:11.000 m
 Remarks:

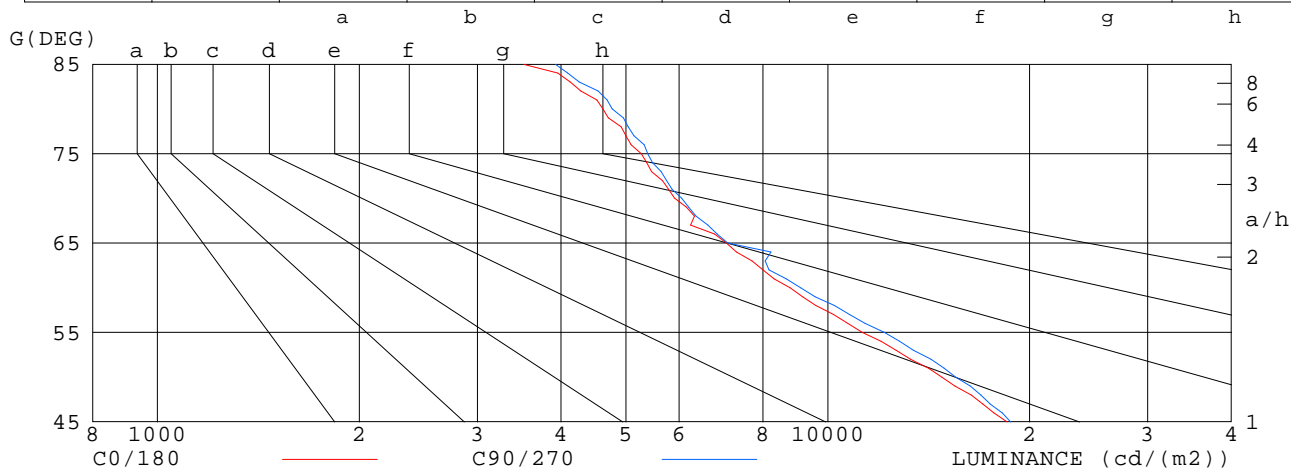
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:		
Address:		
NAME: 32W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65mm	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



LUMINANCE cd/m2		
G (DEG)	C0/180	C90/270
85	3521	3923
80	4617	4770
75	5267	5384
70	5910	6052
65	7056	7088
60	8791	9110
55	11252	12138
50	14803	15516
45	18523	18752

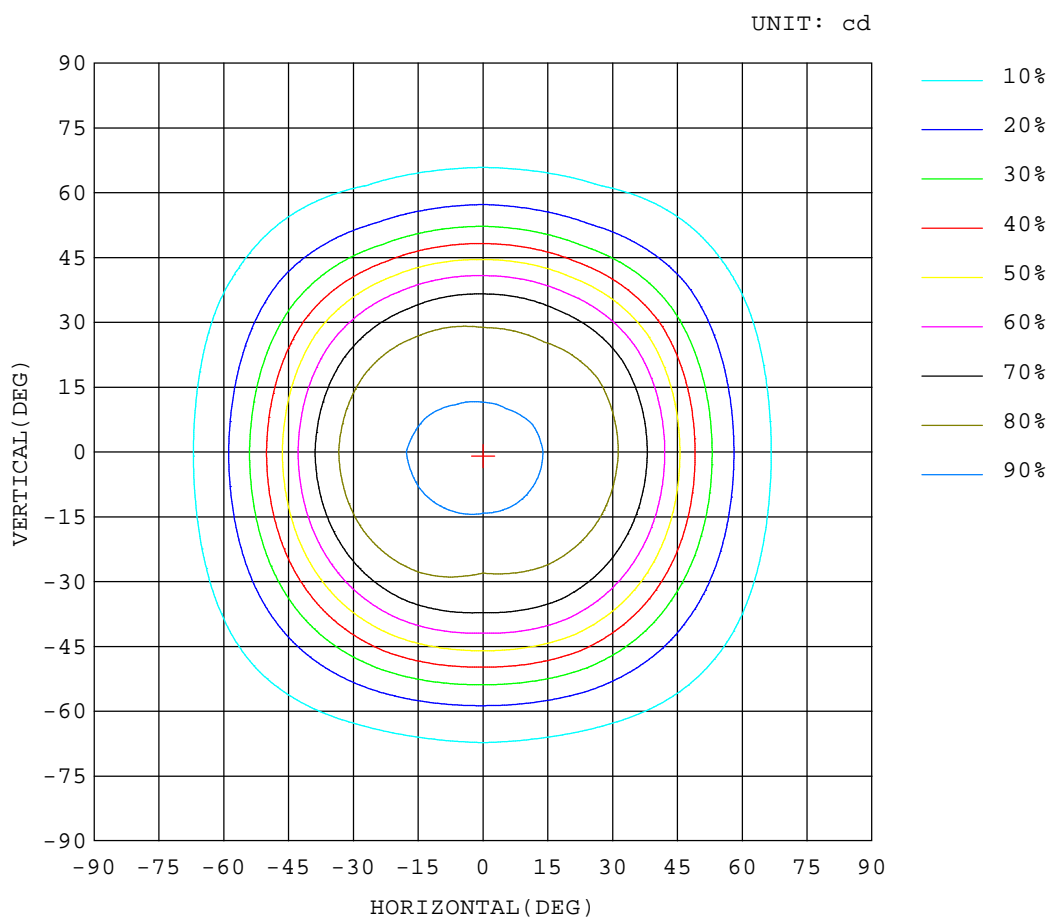
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月07日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 32W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65mm	SERIAL No.:



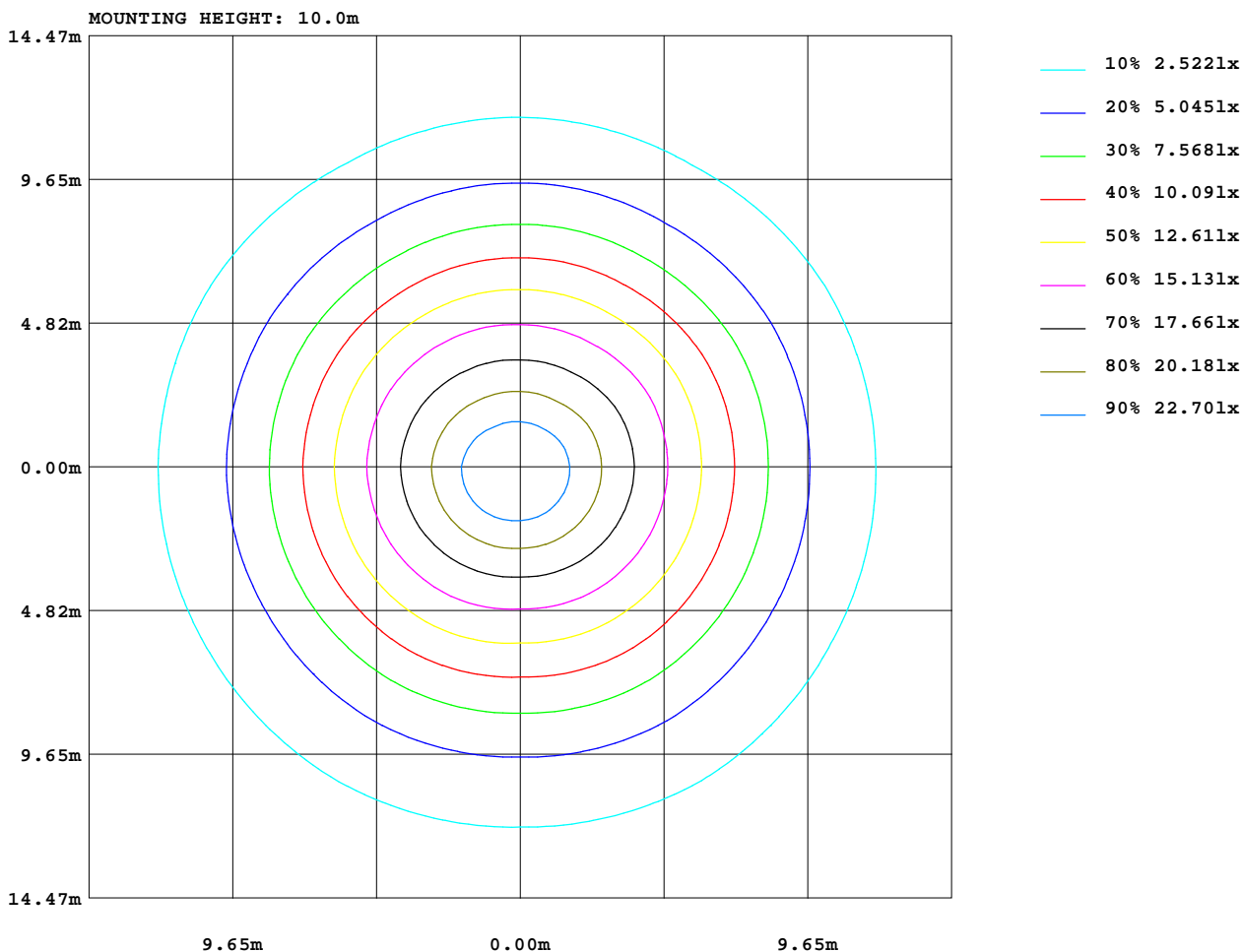
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月07日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 32W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65mm	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月07日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:																			
Address:																			
NAME: 32W										TYPE:					WEIGHT:				
SPECIFICATION:										DIMENSION: 1150*65mm					SERIAL No.:				

VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT:lm		Φ t	Φ a				
	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90							
	0.00	0.02	0.08	0.18	0.27	0.33	0.47	0.70	0.91	0.91	0.71	0.47	0.34	0.27	0.19	0.09	0.02	0.00	5.95	0.00						
	0.01	0.15	0.50	0.98	1.50	2.00	2.60	3.38	3.97	3.98	3.39	2.63	2.04	1.54	1.01	0.52	0.16	0.01	30.4	0.00						
	0.03	0.32	0.99	2.01	3.22	4.49	5.87	7.48	8.48	8.48	7.48	5.89	4.53	3.29	2.07	1.03	0.34	0.03	66.1	23.0						
	0.05	0.50	1.53	3.25	5.54	8.77	12.3	16.0	18.3	18.3	15.8	12.1	8.67	5.58	3.33	1.59	0.52	0.05	133	115						
	0.07	0.66	2.10	4.71	9.43	16.4	24.8	32.4	36.8	36.6	31.9	24.1	15.9	9.23	4.73	2.17	0.69	0.08	253	243						
	0.09	0.81	2.66	6.77	15.0	27.5	40.4	50.1	54.8	54.7	49.6	39.8	26.7	14.4	6.60	2.71	0.85	0.09	394	387						
	0.10	0.94	3.27	9.03	21.3	37.9	52.1	59.9	62.6	62.2	59.1	51.6	37.2	20.3	8.65	3.24	0.98	0.11	491	486						
	0.11	1.03	3.78	11.0	26.2	44.6	57.6	63.5	66.6	66.1	62.6	56.5	44.0	25.1	10.4	3.69	1.07	0.12	545	540						
	0.12	1.08	4.09	12.3	28.9	47.8	59.5	67.1	73.0	72.1	65.5	58.1	46.7	27.8	11.5	3.95	1.12	0.13	581	577						
	0.12	1.07	4.10	12.4	29.0	47.9	59.5	67.6	74.4	73.2	65.8	58.0	46.7	27.8	11.6	3.95	1.12	0.12	585	581						
	0.11	1.02	3.83	11.2	26.5	45.0	57.7	64.2	68.3	67.7	63.1	56.3	44.0	25.4	10.5	3.69	1.06	0.12	550	546						
-30	0.10	0.93	3.33	9.28	21.8	38.4	52.9	60.4	62.9	62.5	59.6	52.0	37.8	20.8	8.75	3.23	0.96	0.11	496	491						
-40	0.09	0.80	2.68	7.06	15.8	29.0	42.4	51.9	55.8	55.6	51.7	42.1	28.3	14.9	6.67	2.66	0.83	0.09	409	403						
-50	0.07	0.65	2.08	4.97	10.1	18.3	28.0	35.8	39.7	39.7	35.7	27.6	17.7	9.64	4.74	2.07	0.67	0.07	278	269						
-60	0.05	0.48	1.50	3.25	6.04	9.87	14.5	18.7	21.1	21.0	18.6	14.3	9.65	5.84	3.17	1.49	0.49	0.05	150	136						
-70	0.03	0.31	0.96	1.99	3.44	5.11	6.86	8.44	9.41	9.42	8.45	6.88	5.09	3.39	1.95	0.95	0.31	0.03	73.0	34.6						
-80	0.01	0.13	0.46	0.98	1.67	2.44	3.18	3.81	4.20	4.20	3.82	3.21	2.45	1.65	0.94	0.44	0.14	0.01	33.7	0.00						
-90	0.00	0.01	0.06	0.17	0.37	0.59	0.79	0.95	1.04	1.04	0.95	0.80	0.59	0.35	0.16	0.05	0.01	0.00	7.93	0.00						
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)										20	30	40	50	60	70	80	90
Φ t	1.12	10.9	38.0	102	227	387	522	613	663	658	604	513	379	218	97.2	37.5	11.3	1.21	5084							
Φ a	0.00	0.00	17.1	85.5	212	372	507	598	648	643	589	498	364	203	80.5	15.5	0.00	0.00			4836					

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年08月07日

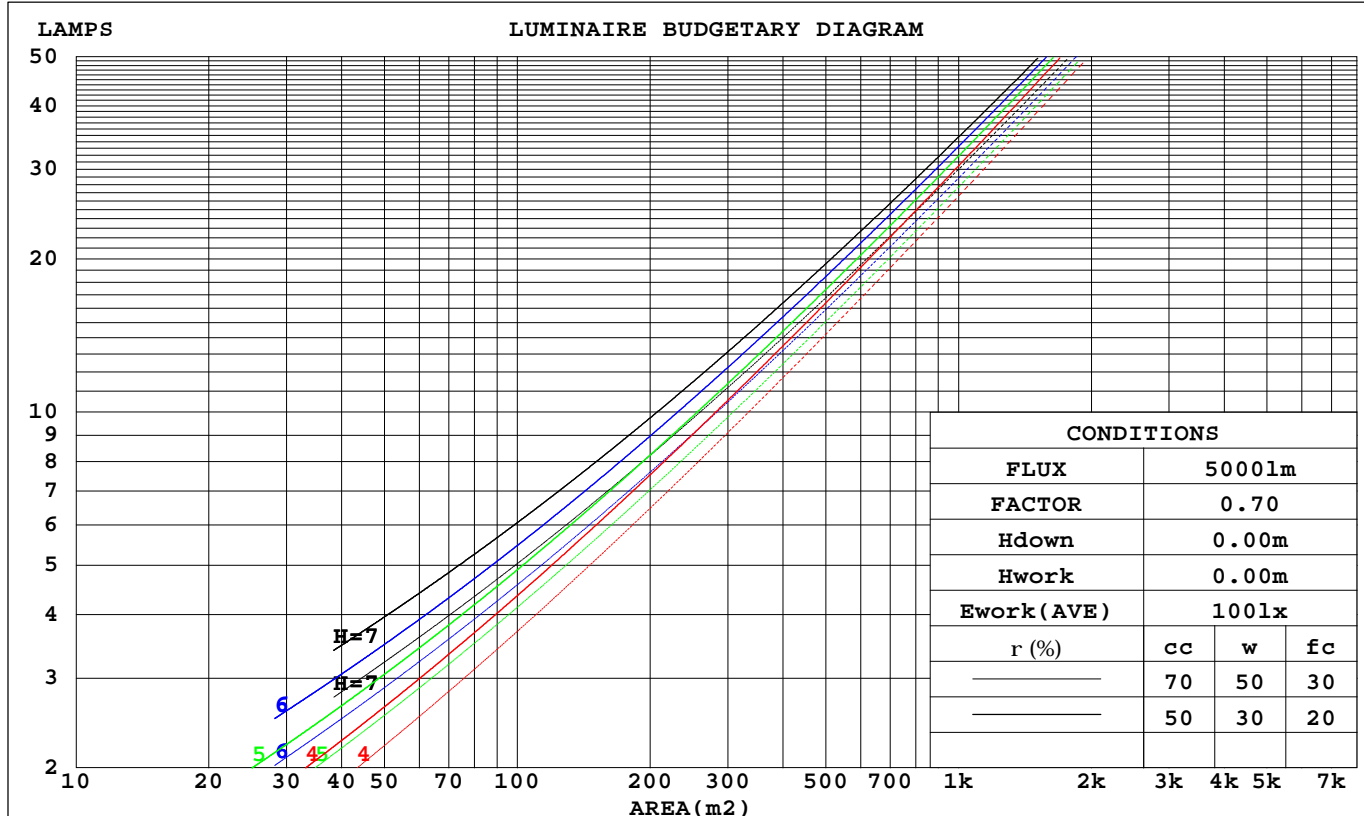
Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:11.000 m
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:															
Address:															
NAME: 32W								TYPE:				WEIGHT:			
SPECIFICATION:								DIMENSION: 1150*65mm				SERIAL No.:			

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月07日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

WEC AND CCEC

Report number:

MANUFACTURER:											
Address:											
NAME: 32W						TYPE:			WEIGHT:		
SPECIFICATION:						DIMENSION: 1150*65mm			SERIAL No.:		

rcc	80%			70%			50%			30%			10%			0														
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
rfc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Wall Exitance Coefficients(WEC)														
0.0																														
1.0	.250	.142	.045	.243	.139	.044	.230	.132	.042	.218	.126	.040	.207	.120	.039															
2.0	.242	.132	.041	.236	.130	.040	.224	.125	.039	.214	.120	.038	.204	.116	.036															
3.0	.229	.122	.036	.224	.120	.036	.214	.116	.035	.205	.112	.034	.196	.109	.034															
4.0	.216	.112	.033	.211	.110	.033	.202	.107	.032	.194	.104	.031	.187	.101	.031															
5.0	.203	.103	.030	.199	.102	.030	.191	.099	.029	.184	.097	.029	.177	.095	.028															
6.0	.191	.096	.027	.187	.094	.027	.180	.092	.027	.174	.090	.027	.168	.088	.026															
7.0	.180	.089	.025	.176	.088	.025	.170	.086	.025	.165	.084	.025	.159	.083	.024															
8.0	.170	.083	.023	.167	.082	.023	.161	.081	.023	.156	.079	.023	.151	.078	.023															
9.0	.160	.078	.022	.158	.077	.022	.153	.076	.021	.148	.074	.021	.144	.073	.021															
10.0	.152	.073	.020	.150	.072	.020	.145	.071	.020	.141	.070	.020	.137	.069	.020															

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.176	.157	.139	.151	.134	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016	
2.0	.166	.132	.104	.142	.114	.090	.097	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.157	.114	.080	.134	.098	.069	.092	.068	.049	.053	.040	.029	.017	.013	.009	
4.0	.149	.100	.063	.127	.087	.055	.088	.060	.039	.051	.035	.023	.016	.012	.008	
5.0	.141	.089	.051	.121	.077	.045	.084	.054	.032	.048	.032	.019	.016	.010	.006	
6.0	.134	.081	.042	.116	.070	.037	.080	.049	.026	.046	.029	.016	.015	.009	.005	
7.0	.128	.074	.036	.110	.064	.031	.076	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.122	.068	.031	.105	.059	.027	.073	.041	.019	.042	.024	.011	.014	.008	.004	
9.0	.117	.063	.027	.101	.055	.023	.070	.038	.017	.041	.023	.010	.013	.007	.003	
10.0	.112	.059	.024	.096	.051	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年08月07日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:11.000 m
 Remarks:

Uncorrected UGR Table

Report number:

MANUFACTURER:											
Address:											
NAME: 32W					TYPE:			WEIGHT:			
SPECIFICATION:					DIMENSION: 1150*65mm			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	2H	20.9	22.2	21.1	22.4	22.6	21.1	22.4	21.3	22.6	22.8
	3H	21.3	22.5	21.6	22.7	22.9	21.5	22.7	21.8	22.9	23.1
	4H	21.4	22.6	21.7	22.8	23.1	21.6	22.8	21.9	23.0	23.3
	6H	21.5	22.6	21.9	22.9	23.2	21.8	22.8	22.1	23.1	23.4
	8H	21.6	22.6	21.9	22.9	23.2	21.8	22.8	22.1	23.1	23.4
	12H	21.6	22.6	21.9	22.9	23.1	21.8	22.8	22.1	23.1	23.4
4H	2H	21.0	22.2	21.3	22.4	22.6	21.2	22.3	21.5	22.6	22.8
	3H	21.5	22.5	21.9	22.8	23.1	21.7	22.7	22.1	23.0	23.3
	4H	21.8	22.7	22.2	23.0	23.3	22.0	22.9	22.4	23.2	23.5
	6H	22.0	22.8	22.4	23.1	23.5	22.2	23.0	22.6	23.3	23.7
	8H	22.0	22.8	22.4	23.1	23.5	22.3	23.0	22.7	23.4	23.8
	12H	22.1	22.7	22.5	23.1	23.5	22.3	23.0	22.7	23.4	23.8
8H	4H	21.8	22.6	22.2	22.9	23.3	22.0	22.8	22.4	23.1	23.5
	6H	22.1	22.7	22.5	23.1	23.5	22.3	22.9	22.8	23.3	23.7
	8H	22.2	22.7	22.6	23.1	23.6	22.4	23.0	22.9	23.4	23.8
	12H	22.3	22.7	22.7	23.2	23.6	22.5	23.0	23.0	23.4	23.9
12H	4H	21.8	22.5	22.2	22.9	23.3	22.0	22.7	22.4	23.0	23.4
	6H	22.1	22.6	22.5	23.1	23.5	22.3	22.8	22.8	23.3	23.7
	8H	22.2	22.7	22.7	23.1	23.6	22.5	22.9	22.9	23.4	23.8
Variations with the observer position at spacings:											
S = 1.0H	+ 0.7 / - 1.0					+ 0.7 / - 0.9					
1.5H	+ 0.4 / - 0.6					+ 0.4 / - 0.4					
2.0H	+ 1.7 / - 1.5					+ 1.6 / - 1.5					

CIE Pub.117 Corrected 5084 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.6)

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年08月07日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:11.000 m
 Remarks:

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:		
Address:		
NAME: 32W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65mm	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) $k(RI) \times RCR = 5$									
$k = 0.60$	66	56	50	65	56	50	64	55	49	44
0.80	76	66	60	75	66	60	73	65	59	53
1.00	84	75	69	83	74	69	81	75	68	62
1.25	91	82	76	89	81	76	87	80	75	69
1.50	95	87	81	93	86	81	91	85	80	74
2.00	101	94	89	99	93	88	96	91	86	80
2.50	104	97	93	102	96	92	98	94	90	82
3.00	106	101	96	104	99	95	100	96	93	86
4.00	109	105	101	107	103	100	103	100	97	89
5.00	111	107	104	109	105	102	104	102	99	91
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

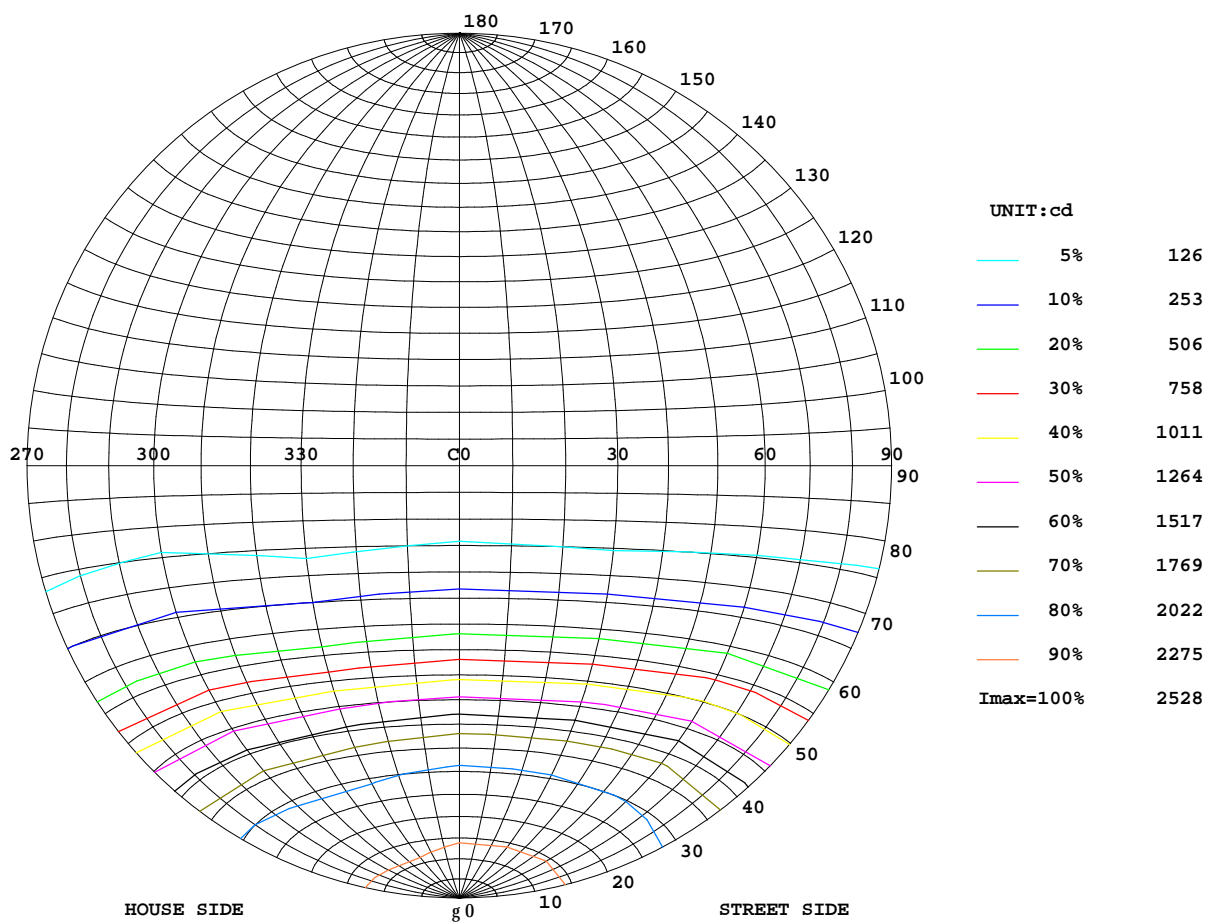
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年08月07日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:11.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 32W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65mm	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月07日

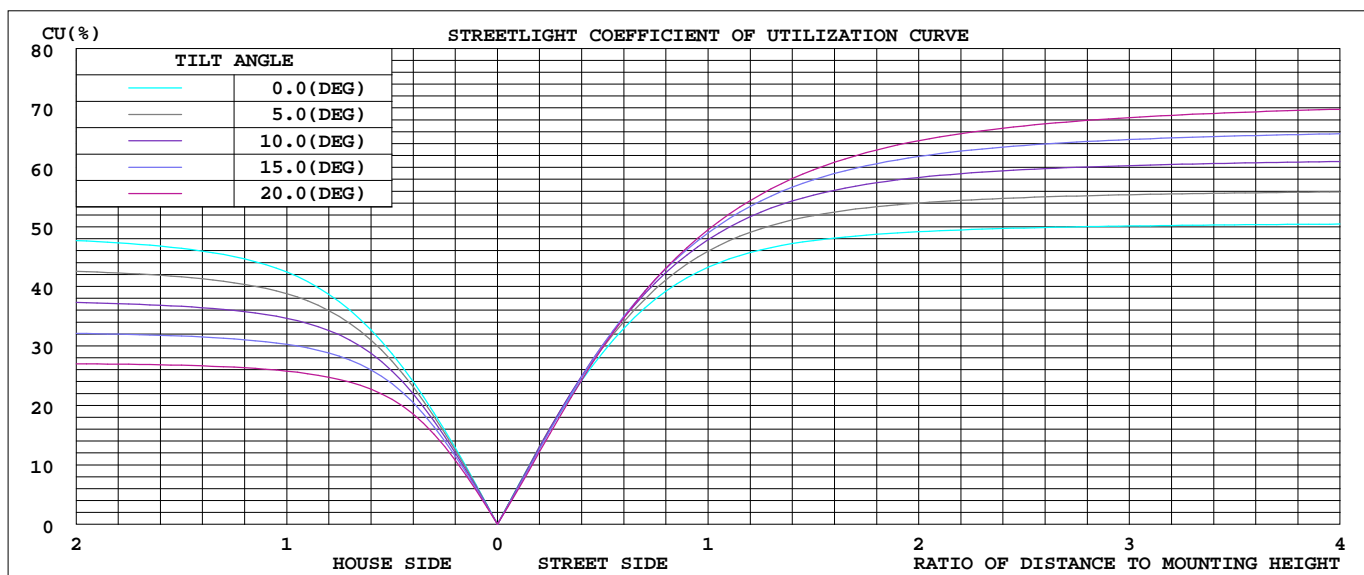
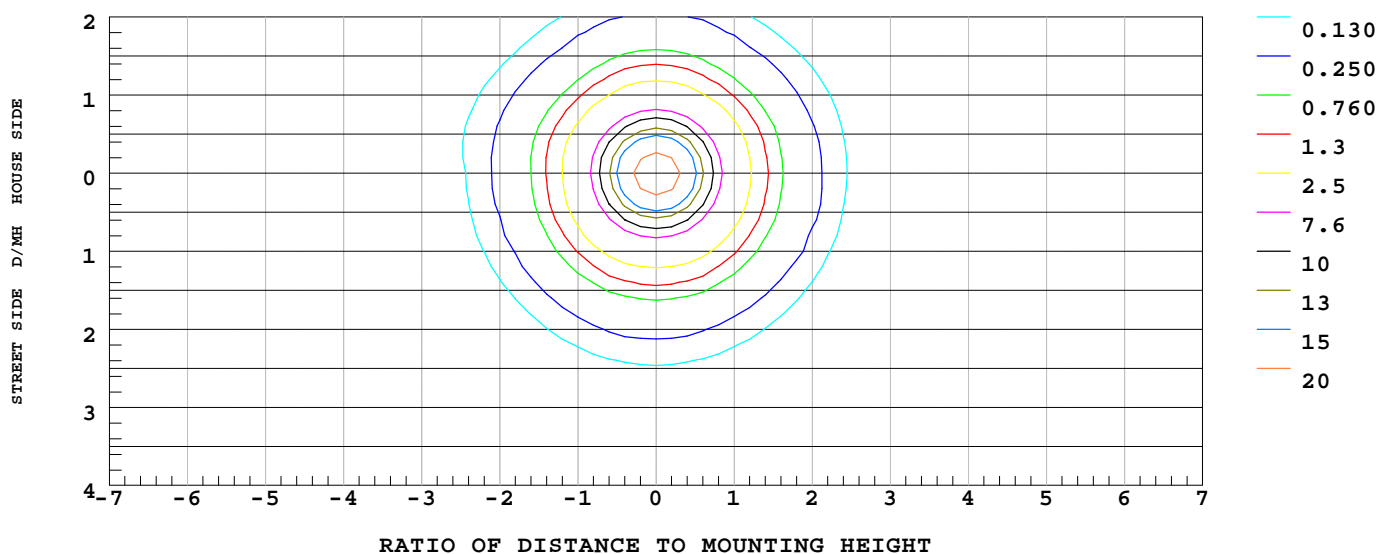
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 32W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65mm	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 25.20 lx



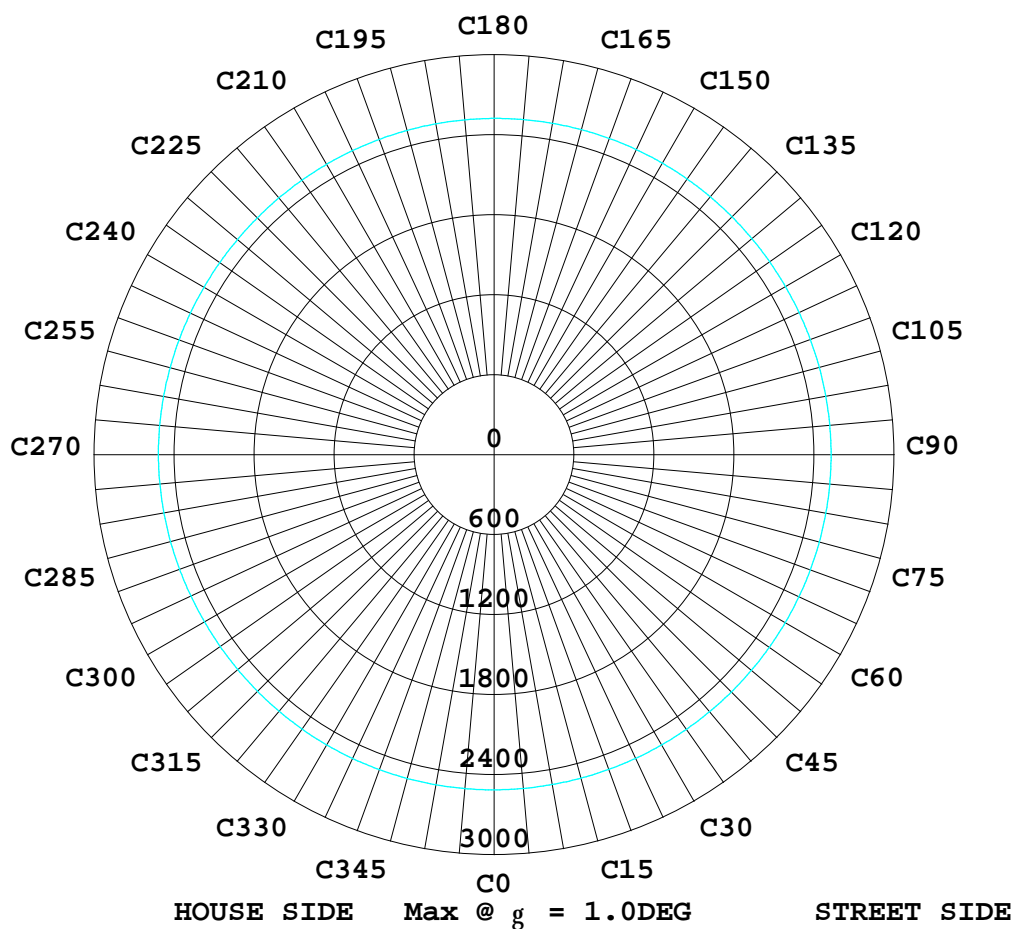
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月07日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 32W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65mm	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月07日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks: