

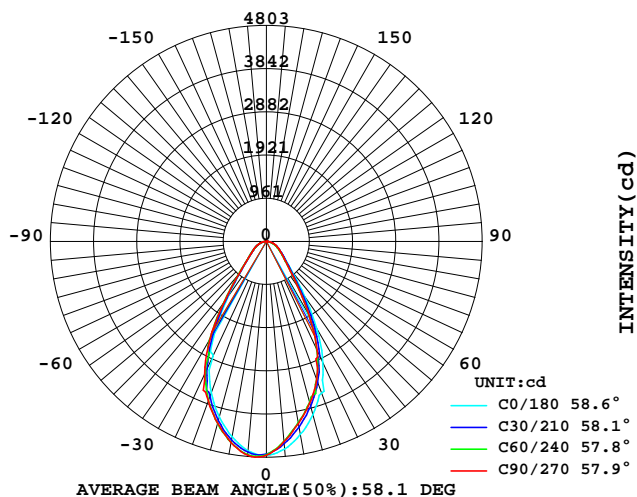
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

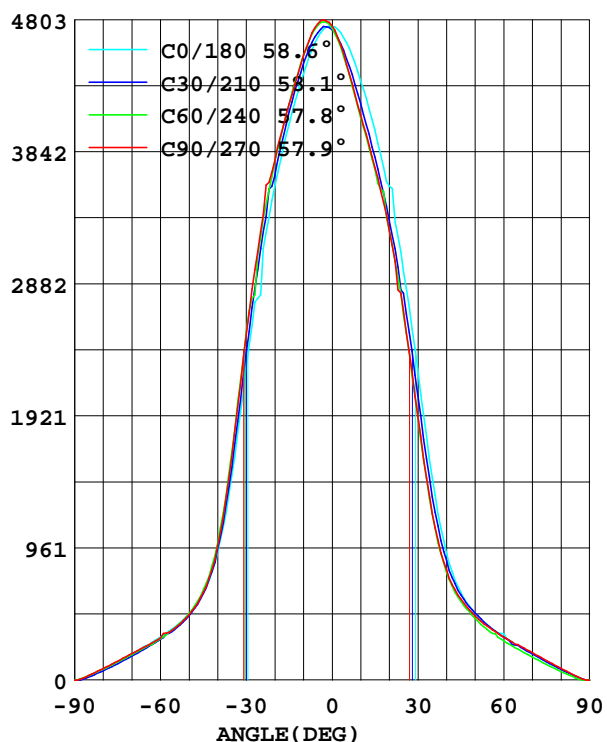
MANUFACTURER:		
Address:		
NAME: 32W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65mm	SERIAL No.:

DATA OF LAMP		I _{max} (cd)	4803	S/MH(C0/180)	0.88
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	0.91
NOMINAL POWER(W)	34	TOTAL FLUX(lm)	5035.5	Voltage(V)	218.6
RATED VOLTAGE(V)	218	EFFICIENCY(lm/W)	151.0	Current(A)	0.162
NOMINAL FLUX(lm)	5035.6	h up(%)	0.0	Power(W)	33.34
LAMPS QUANTITY	1	h down(%)	100.0	Power Factor(PF)	0.938
TEST VOLTAGE(V)	218.7	Effective Flux(lm)	4280.7	EEI	0.106

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



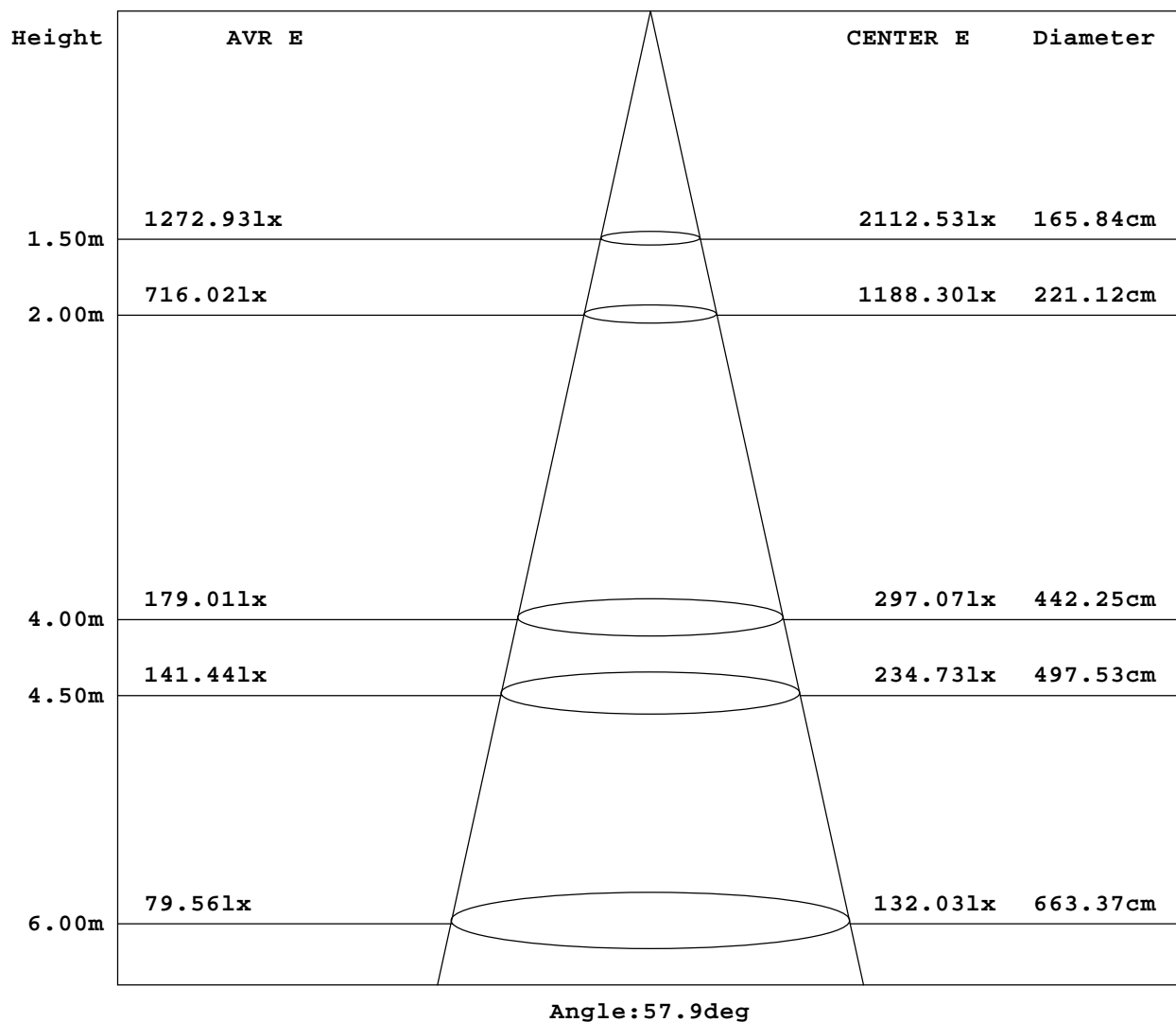
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年08月07日

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	4674	4732	4772	4697	4636	4493	4477	4521	0- 5	111.9	111.9
10.0	4411	4515	4547	4470	4356	4143	4112	4186	5- 10	319.9	431.8
15.0	4042	4162	4189	4115	3999	3757	3727	3806	10- 15	492.0	923.9
20.0	3587	3720	3774	3678	3592	3301	3267	3364	15- 20	617.8	1542
25.0	2802	3176	3265	3130	2971	2735	2688	2755	20- 25	681.6	2223
30.0	2281	2459	2513	2427	2259	1994	1918	2051	25- 30	656.0	2879
35.0	1488	1603	1623	1581	1472	1269	1210	1307	30- 35	536.5	3416
40.0	921.1	968.8	972.7	961.3	917.0	823.2	799.5	835.8	35- 40	381.3	3797
45.0	638.3	643.9	639.0	645.2	639.9	596.8	589.1	597.7	40- 45	274.8	4072
50.0	480.6	474.2	472.6	478.0	483.2	466.4	463.5	463.0	45- 50	218.3	4290
55.0	382.9	371.5	376.9	375.8	385.8	370.4	380.9	365.7	50- 55	182.7	4473
60.0	313.2	299.0	304.9	301.6	336.8	298.4	313.2	295.1	55- 60	156.5	4630
65.0	249.8	236.6	245.7	239.5	250.1	238.0	257.4	233.0	60- 65	131.2	4761
70.0	188.7	178.6	191.8	181.2	188.5	177.7	198.8	175.4	65- 70	107.1	4868
75.0	134.2	124.8	136.9	126.9	133.4	121.9	140.6	120.5	70- 75	81.04	4949
80.0	80.17	72.91	82.95	75.15	79.20	70.61	85.98	69.40	75- 80	54.09	5003
85.0	28.99	26.99	33.22	28.44	27.66	22.57	31.77	21.79	80- 85	27.48	5031
90.0	0	0	0	0	0	0	0	0	85- 90	4.754	5036
95.0	0	0	0	0	0	0	0	0	90- 95	0	5036
100.0	0	0	0	0	0	0	0	0	95-100	0	5036
105.0	0	0	0	0	0	0	0	0	100-105	0	5036
110.0	0	0	0	0	0	0	0	0	105-110	0	5036
115.0	0	0	0	0	0	0	0	0	110-115	0	5036
120.0	0	0	0	0	0	0	0	0	115-120	0	5036
125.0	0	0	0	0	0	0	0	0	120-125	0	5036
130.0	0	0	0	0	0	0	0	0	125-130	0	5036
135.0	0	0	0	0	0	0	0	0	130-135	0	5036
140.0	0	0	0	0	0	0	0	0	135-140	0	5036
145.0	0	0	0	0	0	0	0	0	140-145	0	5036
150.0	0	0	0	0	0	0	0	0	145-150	0	5036
155.0	0	0	0	0	0	0	0	0	150-155	0	5036
160.0	0	0	0	0	0	0	0	0	155-160	0	5036
165.0	0	0	0	0	0	0	0	0	160-165	0	5036
170.0	0	0	0	0	0	0	0	0	165-170	0	5036
175.0	0	0	0	0	0	0	0	0	170-175	0	5036
180.0	0	0	0	0	0	0	0	0	175-180	0	5036
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:

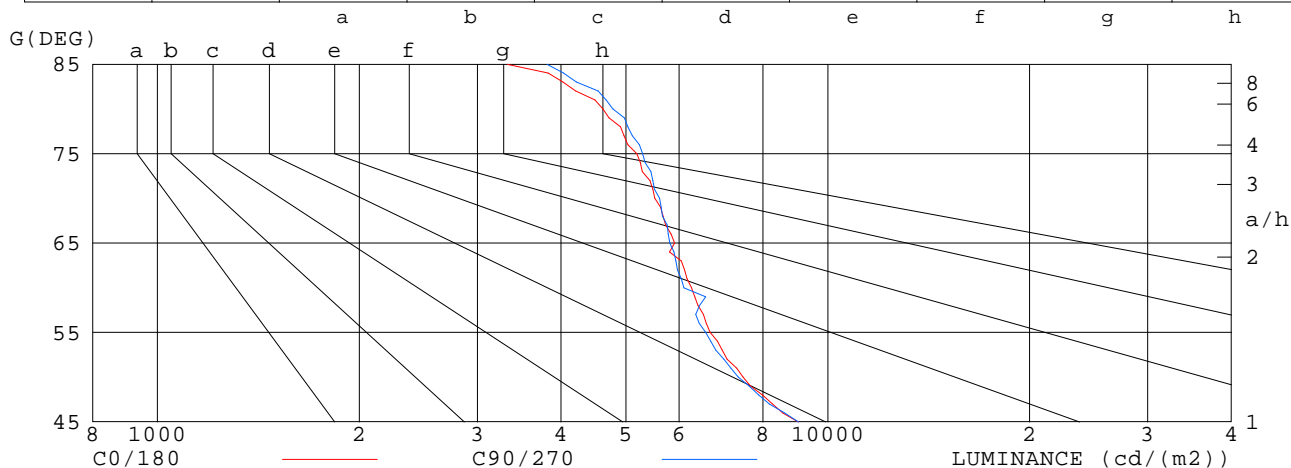
LUMINANCE LIMITATION CURVES

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	3326	3812
80	4617	4777
75	5187	5290
70	5518	5610
65	5911	5814
60	6264	6100
55	6676	6573
50	7478	7354
45	9028	9038

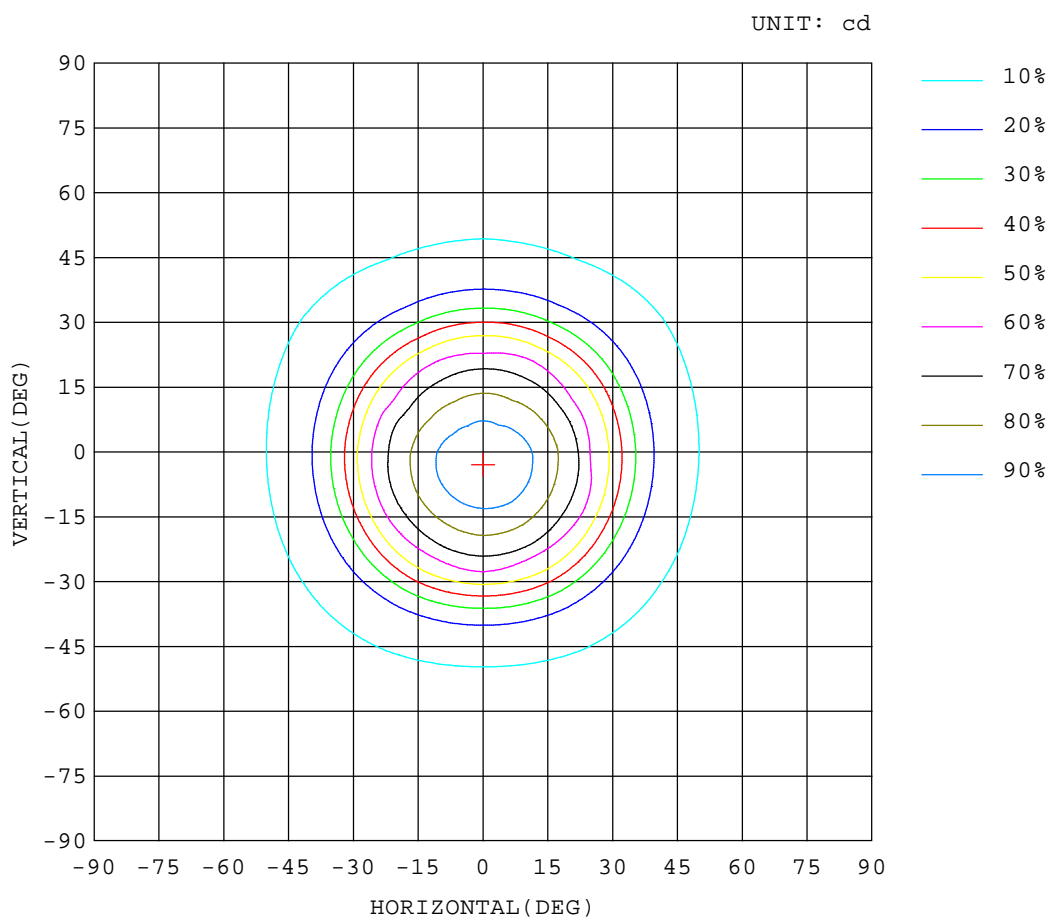
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月07日

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.:



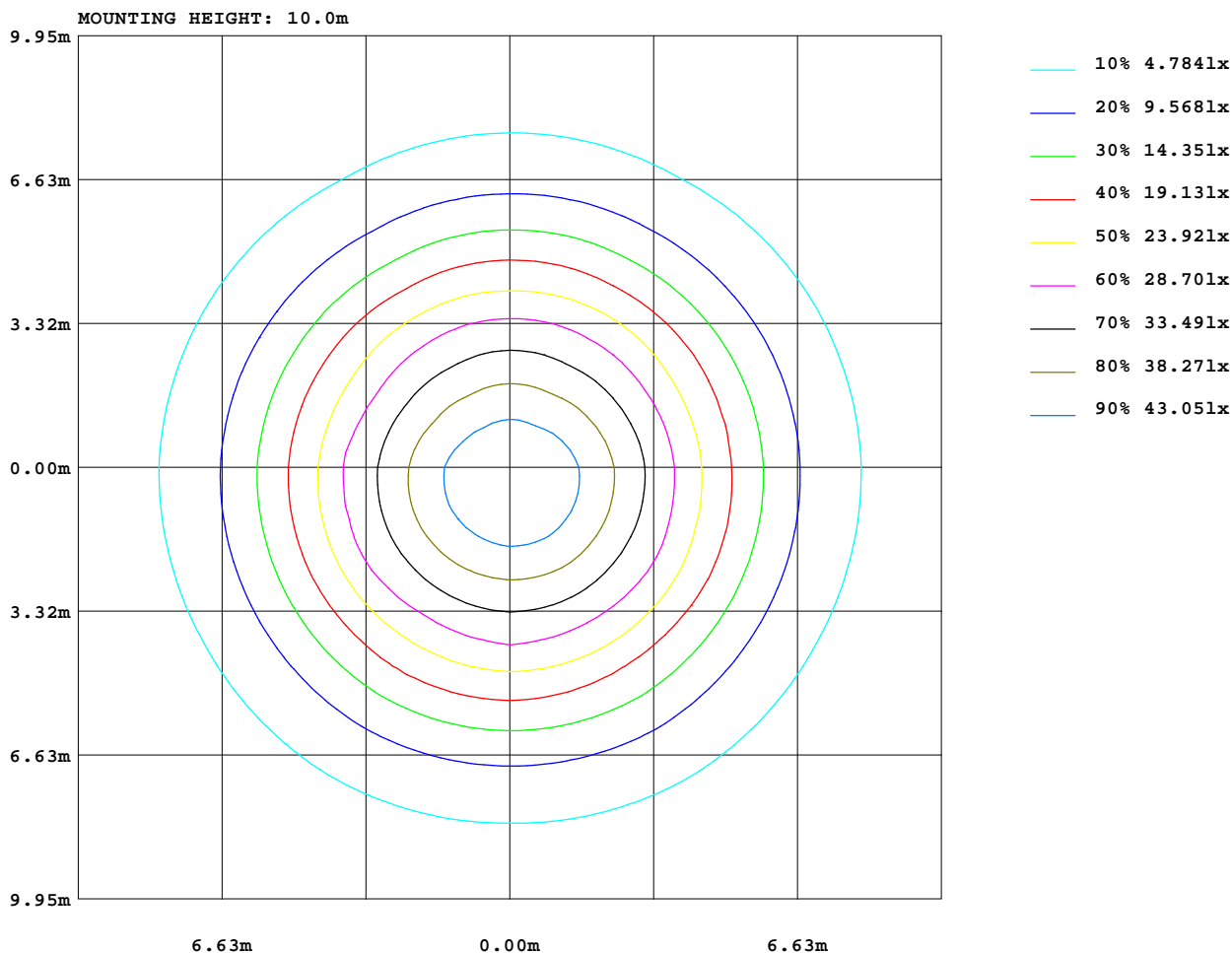
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月07日

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	0.09	0.20	0.30	0.38	0.53	0.76	0.96	0.96	0.76	0.53	0.38	0.29	0.19	0.09	0.02	0.00	6.45	0.00						
	0.01	0.15	0.53	1.07	1.64	2.18	2.80	3.55	4.11	4.10	3.53	2.79	2.16	1.61	1.05	0.53	0.16	0.01	32.0	0.00						
	0.03	0.34	1.06	2.09	3.24	4.37	5.47	6.67	7.50	7.49	6.64	5.43	4.32	3.19	2.05	1.04	0.34	0.03	61.3	0.00						
	0.05	0.53	1.58	3.14	4.89	6.70	8.46	10.2	11.3	11.3	10.1	8.39	6.63	4.82	3.09	1.56	0.52	0.05	93.5	0.00						
	0.07	0.70	2.07	4.11	6.60	9.47	12.4	15.6	17.8	17.8	15.6	12.4	9.37	6.53	4.05	2.05	0.69	0.07	138	65.1						
	0.09	0.85	2.50	5.02	8.52	13.2	19.8	28.8	36.9	37.2	29.4	20.0	13.1	8.42	4.95	2.48	0.84	0.09	232	194						
	0.10	0.96	2.85	5.86	10.5	19.0	37.0	61.1	77.3	78.0	62.6	38.1	19.2	10.4	5.77	2.83	0.96	0.11	433	404						
	0.11	1.04	3.10	6.50	12.4	27.8	61.2	92.6	110	110	94.1	62.4	28.3	12.4	6.41	3.08	1.04	0.12	634	609						
	0.12	1.08	3.25	6.85	13.9	35.8	77.6	111	131	132	113	77.8	36.3	13.9	6.77	3.22	1.09	0.12	765	743						
	0.12	1.08	3.25	6.83	14.0	36.9	80.8	116	138	140	117	80.8	37.3	13.9	6.74	3.21	1.08	0.12	798	775						
	0.11	1.03	3.08	6.44	12.5	30.1	68.7	104	123	124	105	69.4	30.4	12.4	6.33	3.05	1.03	0.12	702	677						
-30	0.10	0.95	2.80	5.78	10.3	20.5	45.0	75.9	94.5	94.9	76.6	45.6	20.5	10.2	5.67	2.77	0.95	0.10	514	484						
-40	0.09	0.83	2.43	4.93	8.33	13.6	23.1	37.6	48.7	48.9	38.0	23.3	13.5	8.18	4.83	2.40	0.82	0.09	280	242						
-50	0.07	0.67	1.99	3.97	6.53	9.63	13.3	17.2	19.8	19.8	17.2	13.3	9.55	6.43	3.88	1.95	0.67	0.07	146	83.4						
-60	0.05	0.50	1.50	2.98	4.86	6.85	8.80	10.5	11.5	11.5	10.5	8.85	6.84	4.78	2.90	1.46	0.50	0.05	95.0	0.00						
-70	0.02	0.32	0.99	1.99	3.27	4.63	5.87	6.81	7.39	7.40	6.83	5.86	4.59	3.21	1.92	0.96	0.31	0.03	62.4	0.00						
-80	0.01	0.13	0.48	1.01	1.73	2.51	3.21	3.76	4.09	4.09	3.76	3.20	2.48	1.69	0.97	0.45	0.13	0.01	33.7	0.00						
-90	0.00	0.01	0.06	0.18	0.38	0.62	0.83	0.96	1.03	1.03	0.96	0.82	0.61	0.36	0.16	0.05	0.01	0.00	8.09	0.00						
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)										20	30	40	50	60	70	80	90
Φ t	1.14	11.2	33.6	69.0	124	245	475	704	846	851	713	480	246	123	67.8	33.2	11.1	1.17	5036							
Φ a	0.00	0.00	0.00	0.00	61.8	193	426	654	796	801	663	430	193	60.2	0.00	0.00	0.00	0.00		4281						

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

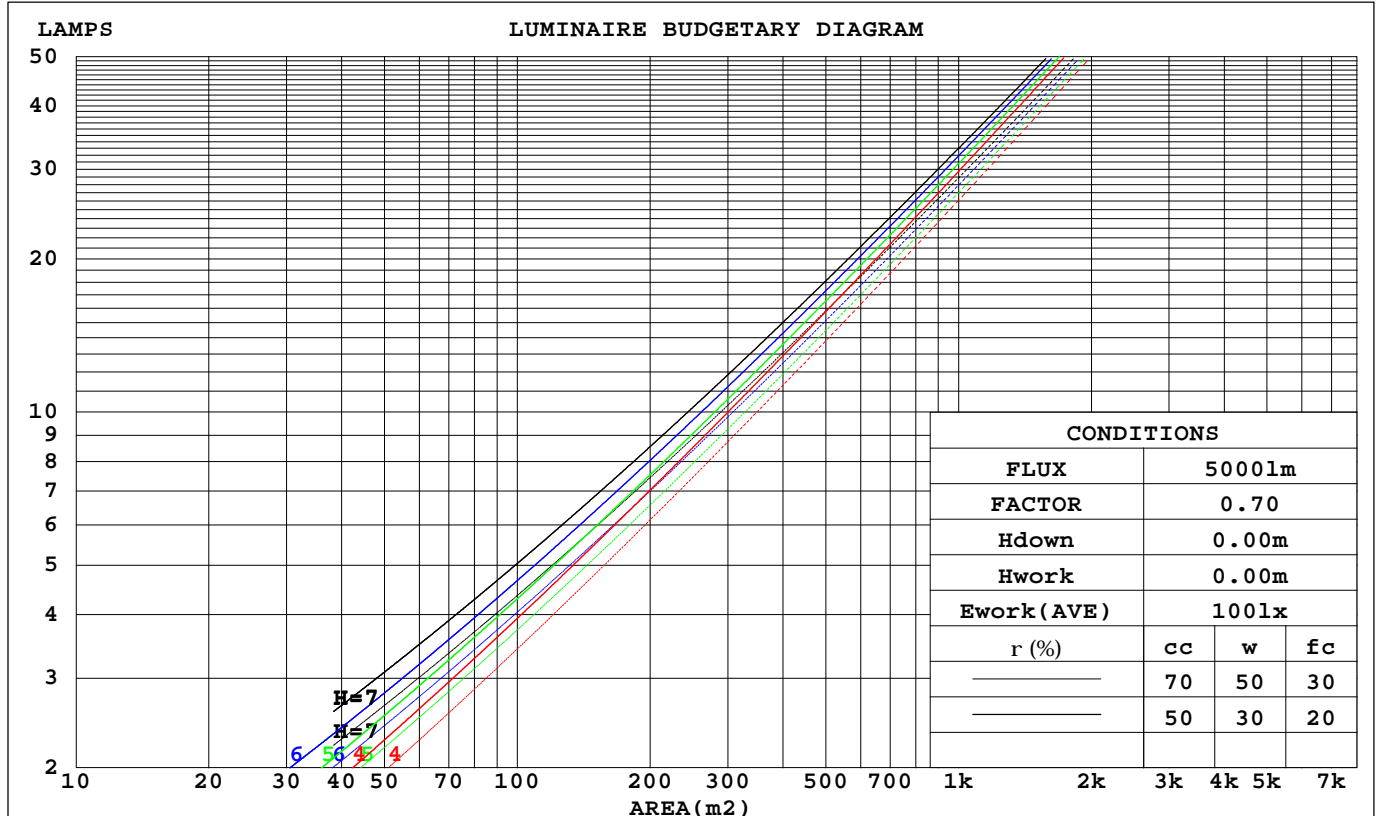
Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:11.000 m
 Remarks:

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	.224	.127	.040	.217	.124	.039	.204	.117	.037	.192	.111	.036	.182	.105	.034															
2.0	.213	.117	.036	.207	.114	.035	.196	.109	.034	.186	.104	.033	.176	.100	.031															
3.0	.200	.106	.032	.195	.104	.031	.185	.100	.031	.177	.097	.030	.168	.093	.029															
4.0	.188	.097	.029	.183	.096	.028	.175	.093	.028	.167	.090	.027	.160	.087	.026															
5.0	.176	.090	.026	.172	.088	.026	.165	.086	.025	.158	.084	.025	.152	.081	.024															
6.0	.166	.083	.024	.163	.082	.024	.156	.080	.023	.150	.078	.023	.145	.076	.023															
7.0	.157	.077	.022	.154	.077	.022	.148	.075	.022	.143	.073	.021	.138	.071	.021															
8.0	.148	.072	.020	.146	.072	.020	.141	.070	.020	.136	.069	.020	.131	.067	.020															
9.0	.141	.068	.019	.138	.067	.019	.134	.066	.019	.129	.065	.019	.125	.064	.018															
10.0	.134	.064	.018	.132	.064	.018	.128	.062	.018	.124	.061	.017	.120	.060	.017															

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	.174	.157	.141	.149	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.162	.132	.108	.139	.114	.093	.095	.079	.065	.055	.046	.038	.018	.015	.012	
3.0	.151	.114	.084	.129	.098	.073	.089	.068	.051	.051	.040	.030	.016	.013	.010	
4.0	.142	.100	.067	.122	.086	.059	.084	.060	.041	.048	.035	.024	.016	.011	.008	
5.0	.133	.088	.055	.115	.077	.048	.079	.053	.034	.046	.031	.020	.015	.010	.007	
6.0	.126	.079	.046	.108	.069	.040	.075	.048	.028	.043	.028	.017	.014	.009	.006	
7.0	.120	.072	.039	.103	.063	.034	.071	.044	.024	.041	.026	.014	.013	.008	.005	
8.0	.114	.066	.033	.098	.057	.029	.068	.040	.021	.039	.024	.012	.013	.008	.004	
9.0	.108	.061	.029	.093	.053	.025	.065	.037	.018	.038	.022	.011	.012	.007	.004	
10.0	.103	.057	.026	.089	.049	.022	.062	.035	.016	.036	.020	.009	.012	.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	17.5	18.7	17.8	18.8	19.0	17.7	18.9	17.9	19.0	19.2
3H	18.5	19.6	18.8	19.8	20.0	18.7	19.7	19.0	20.0	20.2
4H	19.0	20.0	19.2	20.2	20.4	19.1	20.1	19.4	20.4	20.6
6H	19.3	20.2	19.6	20.5	20.7	19.5	20.4	19.8	20.7	20.9
8H	19.4	20.3	19.7	20.6	20.8	19.6	20.5	19.9	20.8	21.0
12H	19.4	20.3	19.8	20.6	20.9	19.7	20.5	20.0	20.8	21.1
4H 2H	17.9	18.9	18.1	19.1	19.3	18.0	19.0	18.3	19.2	19.5
3H	19.0	19.9	19.4	20.2	20.5	19.2	20.1	19.5	20.4	20.6
4H	19.6	20.4	20.0	20.7	21.0	19.8	20.6	20.2	20.9	21.2
6H	20.0	20.7	20.4	21.1	21.4	20.3	21.0	20.7	21.3	21.7
8H	20.2	20.8	20.6	21.2	21.6	20.4	21.1	20.8	21.5	21.8
12H	20.3	20.9	20.7	21.2	21.6	20.5	21.1	21.0	21.5	21.9
8H 4H	19.8	20.4	20.2	20.8	21.2	20.0	20.6	20.4	21.0	21.3
6H	20.3	20.9	20.8	21.3	21.7	20.6	21.1	21.0	21.5	21.9
8H	20.5	21.0	21.0	21.4	21.9	20.8	21.3	21.3	21.7	22.2
12H	20.6	21.0	21.1	21.5	22.0	21.0	21.4	21.4	21.8	22.3
12H 4H	19.8	20.4	20.2	20.8	21.1	20.0	20.6	20.4	20.9	21.3
6H	20.4	20.8	20.8	21.2	21.7	20.6	21.1	21.1	21.5	21.9
8H	20.6	21.0	21.0	21.4	21.9	20.9	21.3	21.3	21.7	22.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.6				
1.5H	+ 0.7 / - 0.4					+ 0.8 / - 0.5				
2.0H	+ 0.5 / - 0.3					+ 0.6 / - 0.4				

CIE Pub.117 Corrected 5036 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) $k(RI) \times RCR = 5$									
$k = 0.60$	76	68	63	76	68	63	75	67	63	58
0.80	85	77	72	84	76	72	83	76	71	66
1.00	91	83	78	90	83	78	88	83	77	72
1.25	96	89	84	95	88	84	92	87	83	78
1.50	99	93	88	98	92	88	96	90	87	81
2.00	104	98	94	102	97	93	99	95	91	85
2.50	106	101	97	104	100	96	101	97	94	87
3.00	108	104	100	106	102	99	103	99	97	90
4.00	111	107	104	109	106	103	105	102	100	92
5.00	113	110	107	111	108	105	106	104	102	94
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

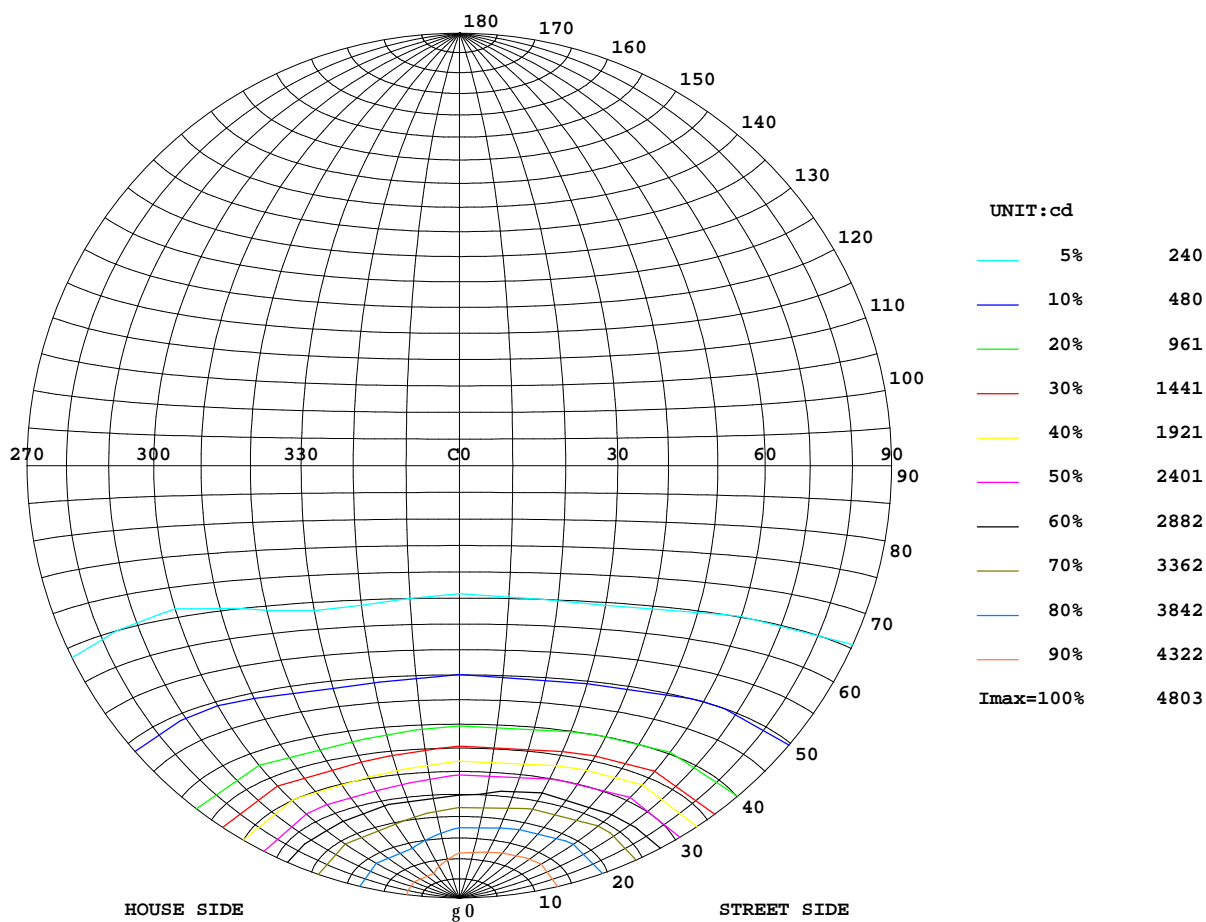
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年08月07日

Test Set: 8.0deg/s C-Gamma (TYPE C)
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 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

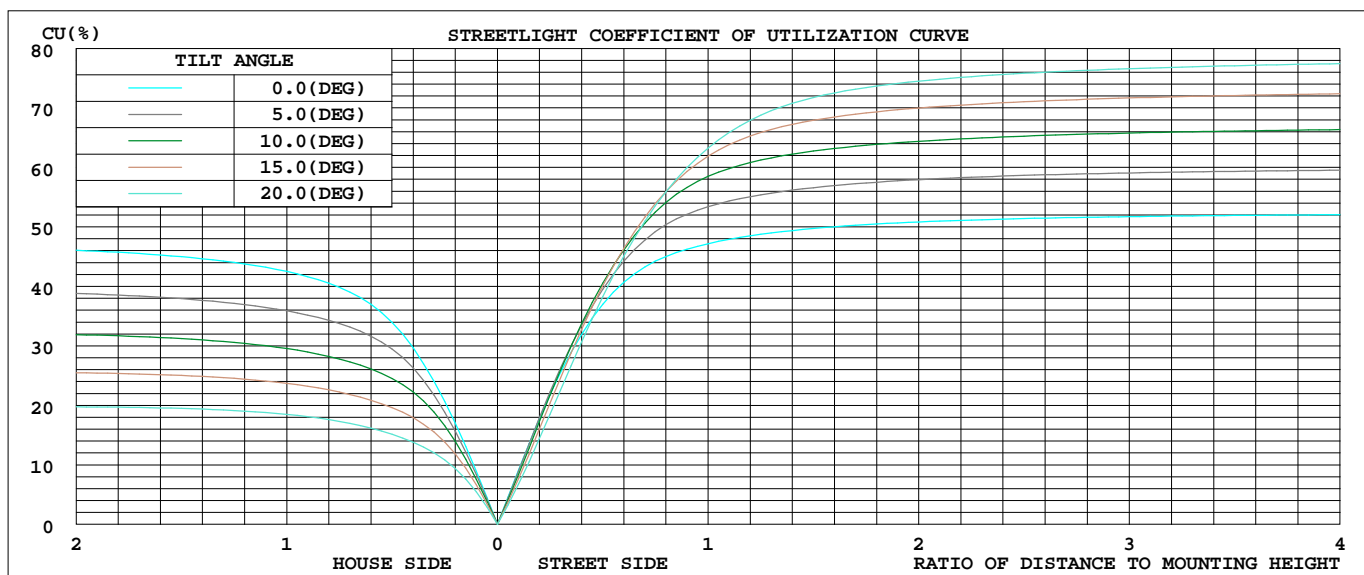
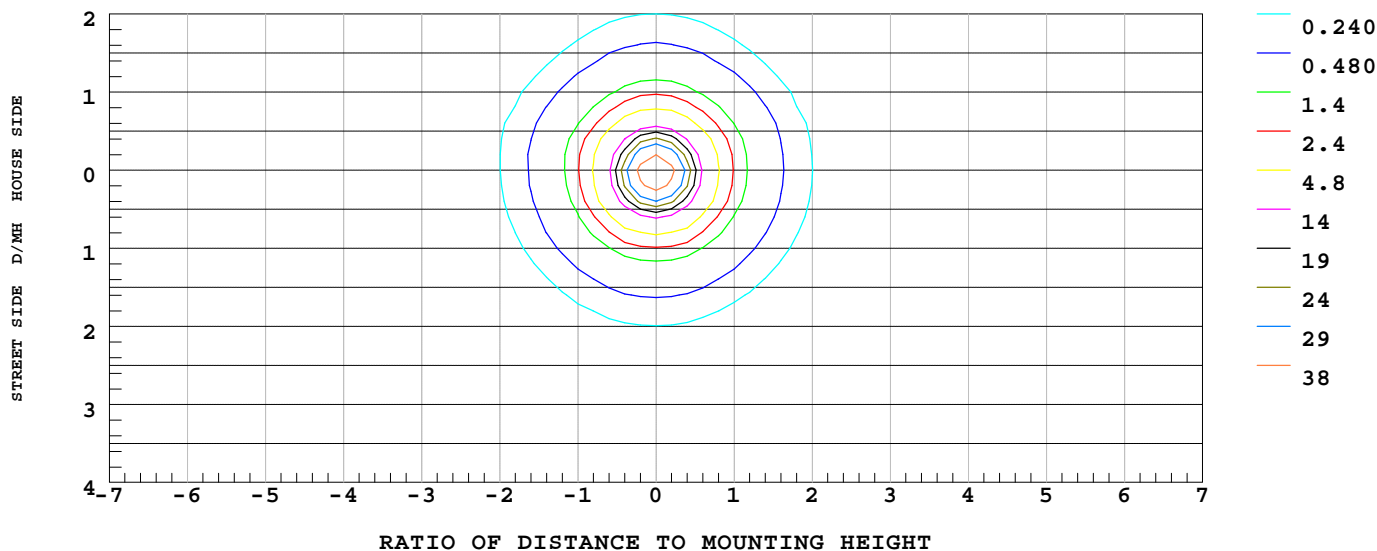
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

ISOLUX DIAGRAM

Report number:

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

ILLUMINANCE AT MH=10 m, Enadir = 47.53 lx



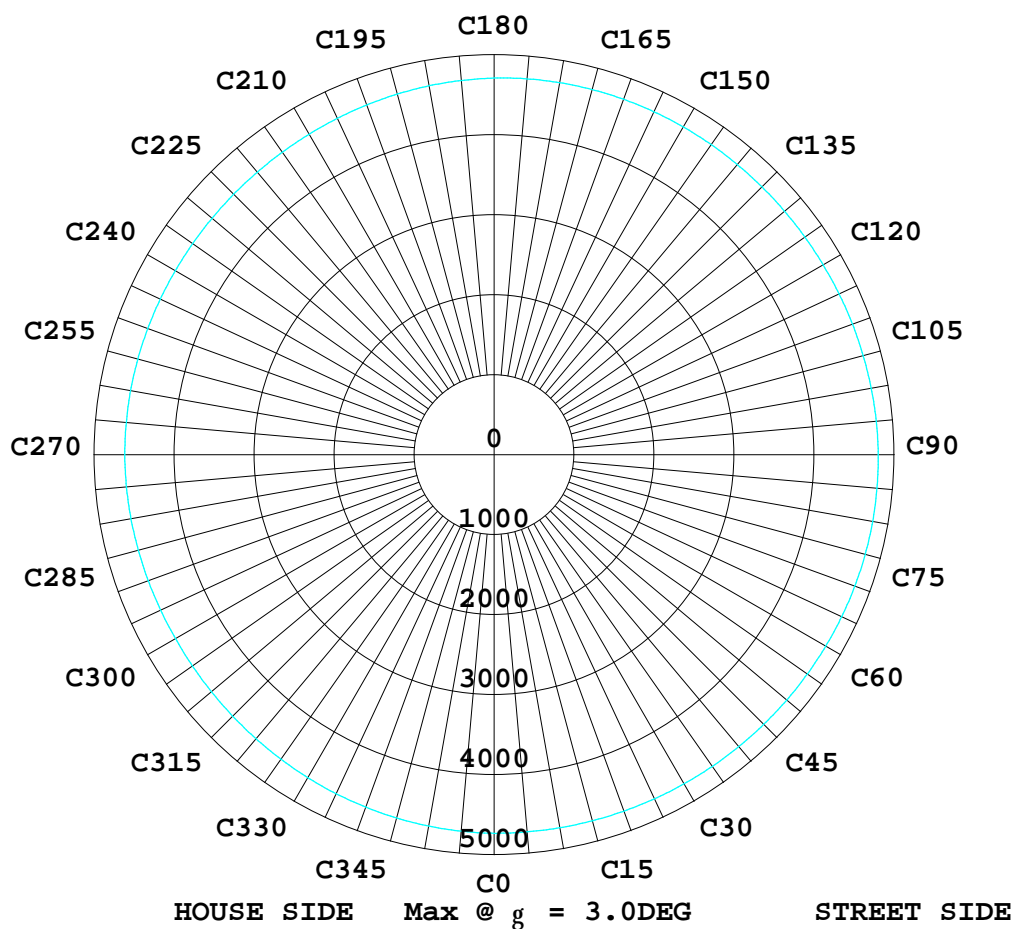
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月07日

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
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