

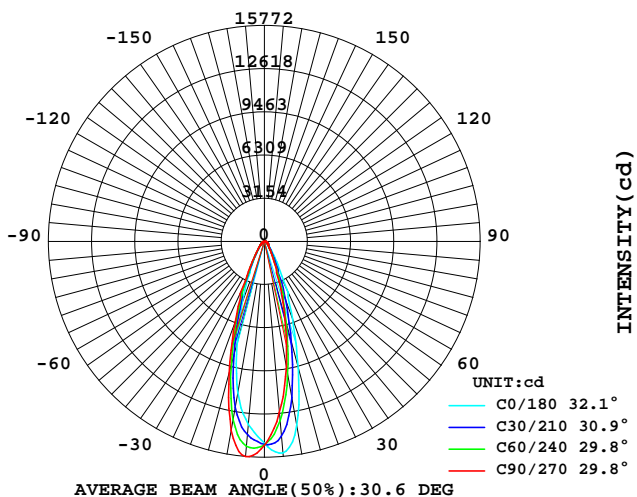
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

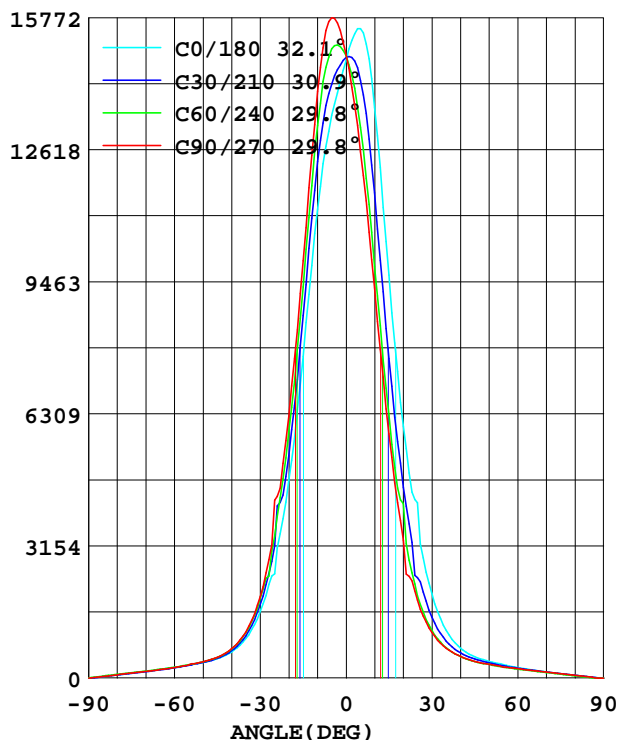
MANUFACTURER:		
Address:		
NAME: 44W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65mm	SERIAL No.:

DATA OF LAMP		Imax(cd)	16339	S/MH(C0/180)	0.52
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	0.59
NOMINAL POWER(W)	44	TOTAL FLUX(lm)	6562.9	Voltage(V)	218.8
RATED VOLTAGE(V)	218	EFFICIENCY(lm/W)	150.5	Current(A)	0.209
NOMINAL FLUX(lm)	6562.9	h up(%)	0.0	Power(W)	43.61
LAMPS QUANTITY	1	h down(%)	100.0	Power Factor(PF)	0.950
TEST VOLTAGE(V)	218.8	Effective Flux(lm)	4970.3	EEI	0.120

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



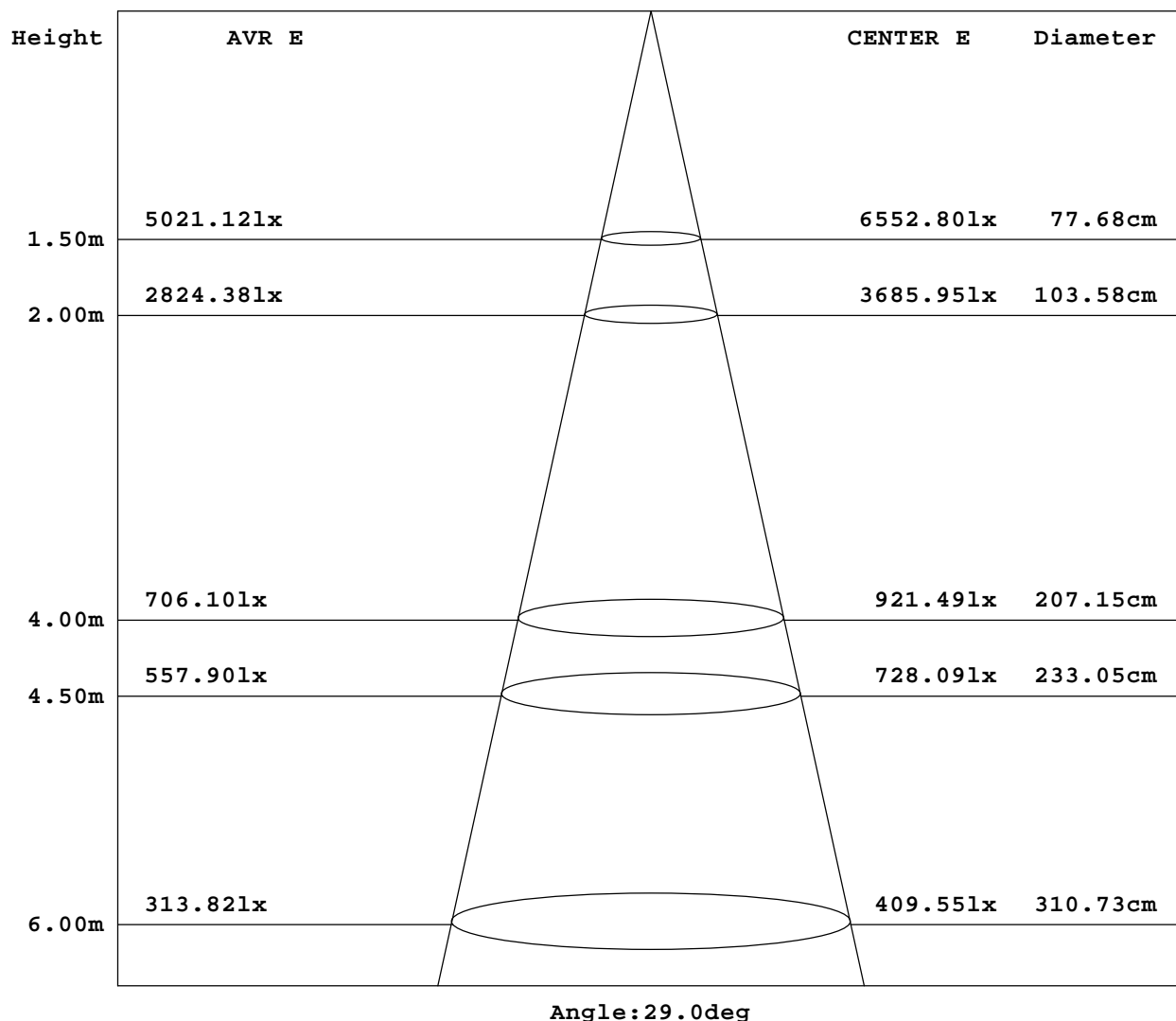
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月07日

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: 44W	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: 44W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65mm	SERIAL No.:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	Zone	tStal
5.0	1344	1460	1577	1630	1551	1371	1256	1269	0- 5	349.1	349.1
10.0	1120	1276	1401	1491	1363	1070	931.7	986.8	5- 10	947.0	1296
15.0	767.7	900.0	996.8	1067	962.1	695.3	583.1	645.1	10- 15	1195	2491
20.0	472.1	559.3	624.5	684.3	601.4	435.4	329.1	375.5	15- 20	1075	3566
25.0	248.5	327.3	424.9	411.9	418.3	217.9	186.3	214.2	20- 25	821.1	4387
30.0	159.6	183.2	194.9	231.6	202.2	129.9	108.7	123.5	25- 30	564.1	4951
35.0	94.12	104.4	109.7	127.5	113.6	79.89	70.63	77.02	30- 35	374.8	5326
40.0	61.85	66.89	70.01	77.86	70.87	55.58	51.52	54.42	35- 40	261.3	5588
45.0	46.45	48.20	49.67	54.11	50.96	42.29	39.62	41.96	40- 45	200.4	5788
50.0	37.32	37.72	38.52	41.20	39.62	34.81	32.49	34.61	45- 50	167.0	5955
55.0	30.69	30.72	31.22	33.51	31.39	27.59	25.96	27.78	50- 55	144.6	6100
60.0	25.44	25.10	25.07	25.46	24.89	22.33	22.38	23.06	55- 60	123.7	6224
65.0	20.25	20.10	19.91	20.33	19.24	17.79	18.04	18.52	60- 65	105.2	6329
70.0	15.65	15.80	15.65	15.61	14.47	13.68	14.22	14.36	65- 70	86.36	6415
75.0	11.56	11.81	11.62	11.42	10.42	9.784	10.36	10.38	70- 75	67.30	6482
80.0	7.400	7.787	7.593	7.382	6.456	5.942	6.444	6.462	75- 80	47.60	6530
85.0	3.225	3.758	3.649	3.437	2.439	1.967	2.306	2.300	80- 85	26.70	6557
90.0	0	0.149	0	0.010	0	0	0	0	85- 90	6.132	6563
95.0	0	0	0	0	0	0	0	0	90- 95	0.014	6563
100.0	0	0	0	0	0	0	0	0	95-100	0	6563
105.0	0	0	0	0	0	0	0	0	100-105	0	6563
110.0	0	0	0	0	0	0	0	0	105-110	0	6563
115.0	0	0	0	0	0	0	0	0	110-115	0	6563
120.0	0	0	0	0	0	0	0	0	115-120	0	6563
125.0	0	0	0	0	0	0	0	0	120-125	0	6563
130.0	0	0	0	0	0	0	0	0	125-130	0	6563
135.0	0	0	0	0	0	0	0	0	130-135	0	6563
140.0	0	0	0	0	0	0	0	0	135-140	0	6563
145.0	0	0	0	0	0	0	0	0	140-145	0	6563
150.0	0	0	0	0	0	0	0	0	145-150	0	6563
155.0	0	0	0	0	0	0	0	0	150-155	0	6563
160.0	0	0	0	0	0	0	0	0	155-160	0	6563
165.0	0	0	0	0	0	0	0	0	160-165	0	6563
170.0	0	0	0	0	0	0	0	0	165-170	0	6563
175.0	0	0	0	0	0	0	0	0	170-175	0	6563
180.0	0	0	0	0	0	0	0	0	175-180	0	6563
DEG	LUMINOUS INTENSITY:×10cd									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:

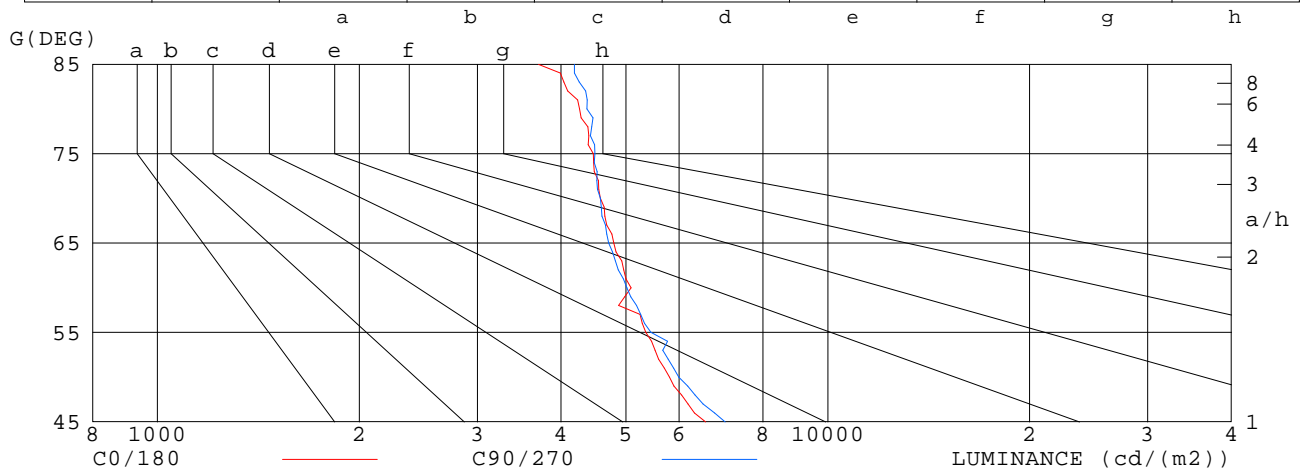
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:		
Address:		
NAME: 44W	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	3701	4187
80	4262	4373
75	4468	4491
70	4577	4577
65	4792	4712
60	5088	5016
55	5351	5444
50	5807	5993
45	6570	7025

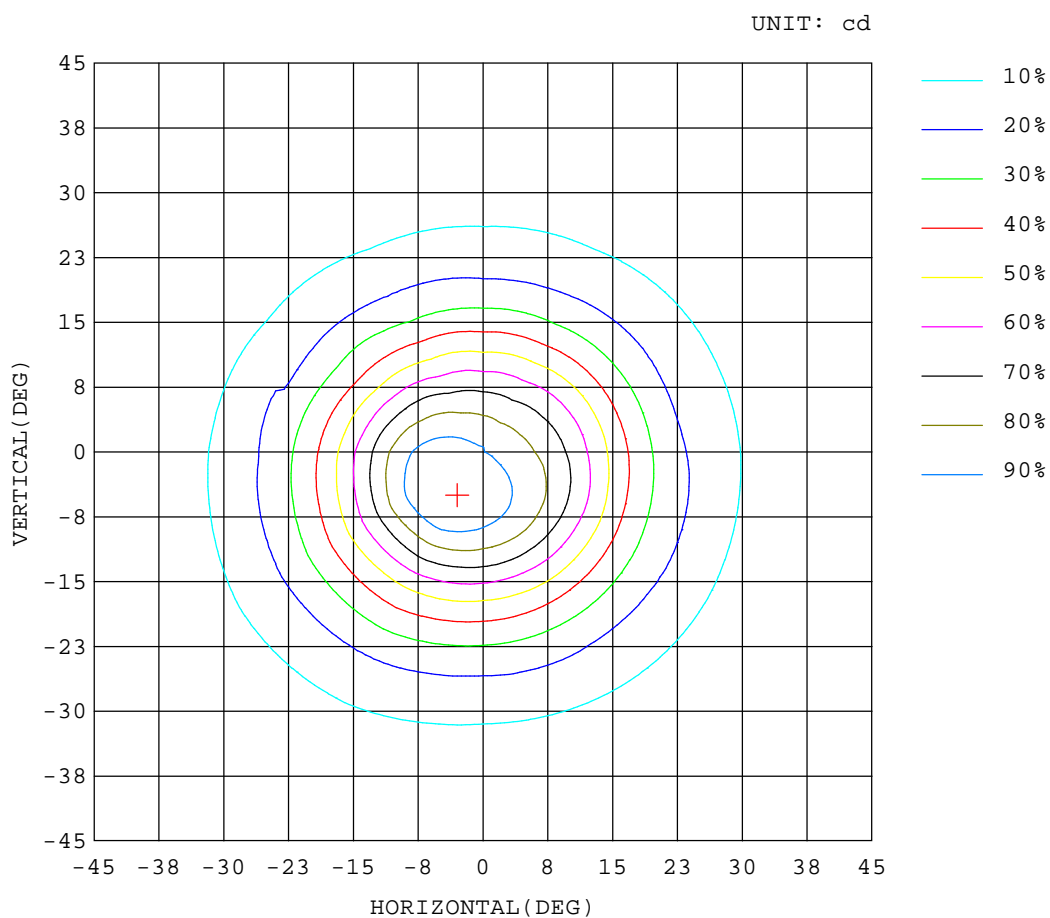
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月07日

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: 44W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65mm	SERIAL No.:



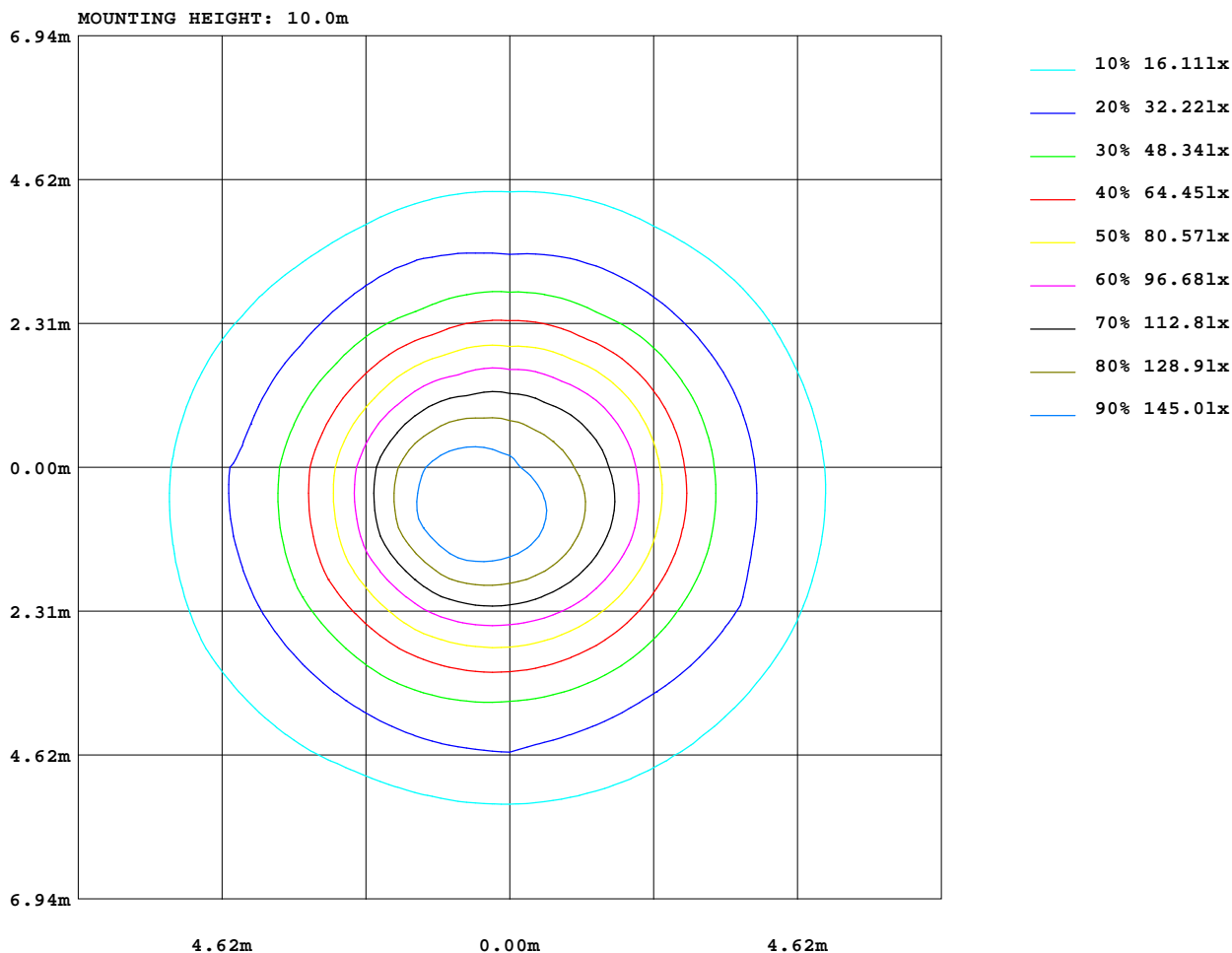
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月07日

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: 44W	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: 44W									TYPE:						WEIGHT:		
SPECIFICATION:									DIMENSION: 1150*65mm						SERIAL No.:		

VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT:lm			Φ t	Φ a
	1.44	1.74	2.04	2.33	2.54	2.80	3.08	3.28	3.40	3.41	3.30	3.11	2.84	2.56	2.32	2.03	1.75	1.47	45.5	0.00			
45																							
40	1.67	2.03	2.40	2.76	3.14	3.55	4.00	4.35	4.55	4.55	4.36	4.02	3.59	3.16	2.75	2.38	2.01	1.67	57.0	0.00			
35	1.89	2.34	2.83	3.41	4.06	4.76	5.57	6.27	6.64	6.64	6.25	5.56	4.75	4.02	3.36	2.79	2.31	1.88	75.4	0.00			
30	2.13	2.70	3.41	4.36	5.59	6.97	8.49	10.0	10.7	10.7	9.93	8.42	6.83	5.41	4.22	3.30	2.63	2.09	108	7.30			
25	2.38	3.12	4.19	5.80	8.11	11.0	14.0	17.0	18.2	18.1	16.8	13.7	10.5	7.70	5.48	3.97	2.98	2.30	166	99.5			
20	2.64	3.64	5.25	7.89	12.0	17.2	24.8	31.0	34.1	33.7	29.6	23.0	16.2	11.1	7.28	4.84	3.39	2.50	271	223			
15	2.89	4.22	6.62	10.8	17.0	27.6	40.0	50.2	56.8	56.0	48.1	36.9	24.4	15.3	9.56	5.86	3.82	2.69	420	380			
	3.13	4.80	8.09	14.3	24.7	39.9	59.3	76.8	83.9	81.3	70.8	53.0	34.2	20.0	11.9	6.87	4.23	2.86	601	566			
	3.30	5.28	9.35	17.6	31.5	51.5	79.1	102	107	101	88.3	66.4	42.0	24.2	13.6	7.65	4.53	2.97	758	727			
	3.37	5.46	9.87	19.0	34.4	56.5	88.2	115	121	112	96.5	71.9	44.8	26.0	14.2	7.89	4.61	2.99	834	805			
	3.30	5.30	9.49	17.9	32.7	53.2	81.7	108	117	110	92.2	66.6	41.7	25.1	13.6	7.51	4.45	2.92	793	762			
-15	3.15	4.89	8.47	15.4	27.9	43.7	63.4	83.0	91.9	87.6	72.9	52.6	34.8	21.3	11.7	6.69	4.11	2.78	637	604			
-20	2.92	4.34	7.08	12.2	20.4	31.9	44.7	55.8	61.1	58.8	49.7	37.3	25.8	15.5	9.32	5.65	3.67	2.58	449	411			
-25	2.67	3.76	5.66	8.87	13.8	20.1	28.3	35.0	38.0	36.6	31.4	23.6	16.4	10.9	7.04	4.63	3.22	2.37	293	248			
-30	2.40	3.22	4.44	6.34	9.13	12.7	16.0	19.0	20.8	20.2	17.4	14.2	10.6	7.54	5.29	3.78	2.80	2.15	178	118			
-35	2.14	2.76	3.56	4.66	6.14	7.93	9.65	10.8	11.3	11.0	10.0	8.56	6.88	5.31	4.06	3.13	2.46	1.95	113	13.3			
-40	1.91	2.37	2.94	3.60	4.41	5.26	6.00	6.54	6.73	6.60	6.20	5.53	4.75	3.95	3.24	2.65	2.17	1.76	76.7	0.00			
-45	1.65	2.06	2.47	2.92	3.39	3.82	4.17	4.41	4.48	4.42	4.25	3.94	3.54	3.11	2.68	2.28	1.91	1.56	57.1	0.00			
	-45	-40	-35	-30	-25	-20	-15	-10	HORIZONTAL(DEG)				10	15	20	25	30	35	40	45			
Φ t	45.0	64.1	98.2	161	261	401	581	739	799	763	659	499	335	213	132	84.0	57.1	41.5	6563				
Φ a	0.00	0.00	12.9	98.2	211	355	538	697	759	720	617	454	287	158	58.2	0.00	0.00	0.00		4970			

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

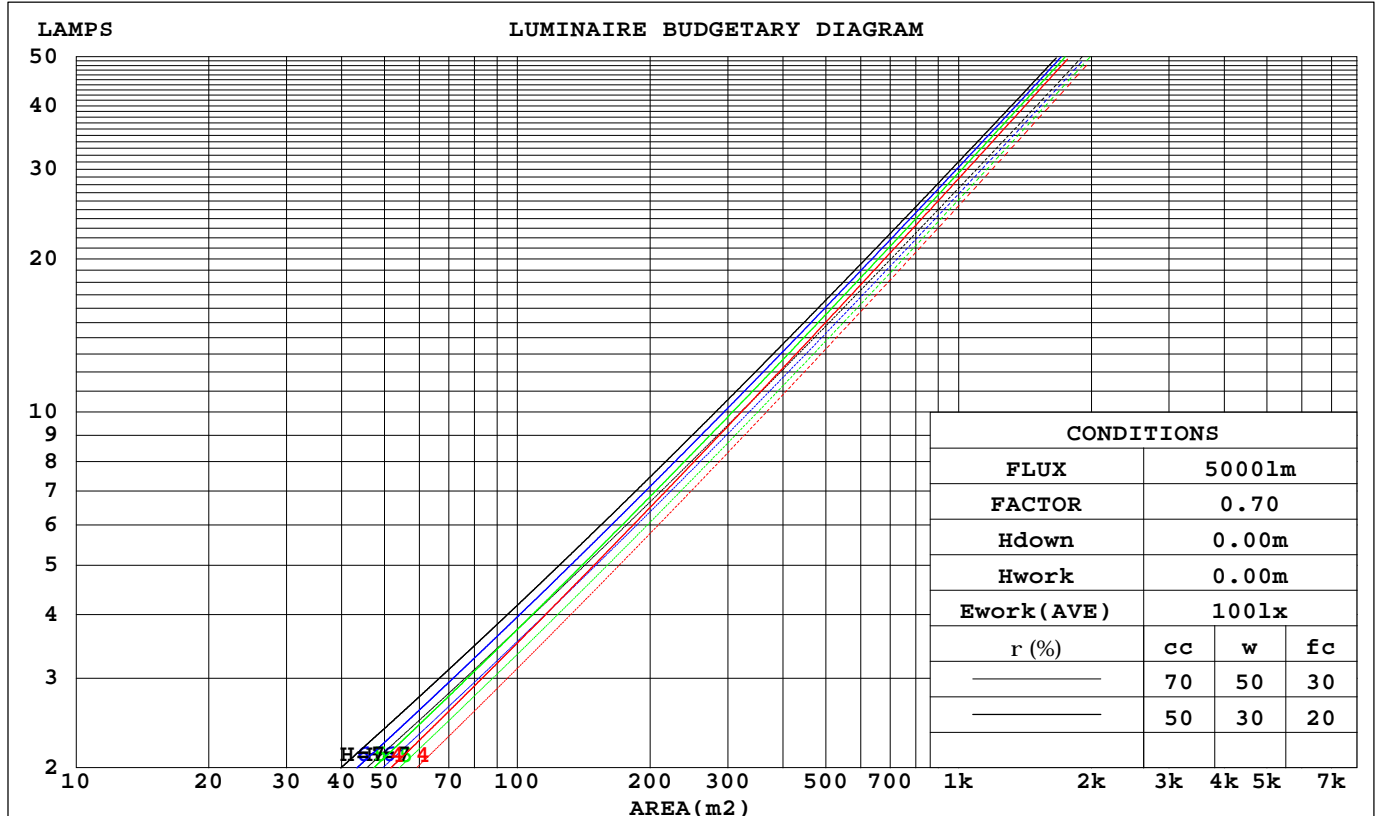
Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:11.000 m
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 44W	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: 44W						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	.188	.107	.034	.181	.103	.033	.168	.097	.031	.157	.090	.029	.146	.085	.027															
2.0	.176	.096	.030	.170	.094	.029	.160	.089	.028	.150	.084	.026	.141	.080	.025															
3.0	.164	.087	.026	.160	.085	.026	.151	.082	.025	.142	.078	.024	.134	.074	.023															
4.0	.154	.080	.023	.150	.078	.023	.142	.075	.022	.135	.072	.022	.128	.069	.021															
5.0	.144	.074	.021	.141	.072	.021	.134	.070	.021	.128	.067	.020	.122	.065	.020															
6.0	.136	.068	.020	.133	.067	.019	.127	.065	.019	.121	.063	.019	.116	.061	.018															
7.0	.128	.064	.018	.126	.063	.018	.121	.061	.018	.116	.059	.017	.111	.058	.017															
8.0	.122	.060	.017	.119	.059	.017	.115	.057	.016	.110	.056	.016	.106	.055	.016															
9.0	.116	.056	.016	.114	.055	.016	.110	.054	.015	.106	.053	.015	.102	.052	.015															
10.0	.110	.053	.015	.108	.052	.015	.105	.051	.014	.101	.050	.014	.098	.049	.014															

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	.172	.157	.144	.147	.135	.124	.101	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.157	.132	.112	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.133	.099	.073	.114	.085	.063	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.124	.087	.060	.107	.075	.052	.073	.053	.037	.043	.031	.022	.014	.010	.007	
6.0	.116	.078	.050	.100	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.109	.070	.043	.094	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.103	.064	.037	.088	.055	.032	.061	.039	.023	.036	.023	.014	.012	.007	.004	
9.0	.097	.058	.032	.084	.051	.028	.058	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.092	.054	.028	.079	.047	.025	.055	.033	.017	.032	.019	.010	.010	.006	.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: 44W					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	14.7	15.7	15.0	15.8	16.0	15.1	16.0	15.3	16.1	16.3
3H	16.0	16.8	16.2	17.0	17.2	16.2	17.1	16.5	17.3	17.5
4H	16.5	17.3	16.8	17.5	17.8	16.8	17.6	17.1	17.8	18.0
6H	17.0	17.7	17.3	18.0	18.2	17.3	18.0	17.6	18.3	18.5
8H	17.1	17.9	17.5	18.1	18.4	17.4	18.2	17.8	18.4	18.7
12H	17.3	18.0	17.6	18.2	18.5	17.6	18.3	17.9	18.6	18.8
4H 2H	15.2	16.0	15.5	16.3	16.5	15.5	16.3	15.8	16.5	16.8
3H	16.6	17.3	17.0	17.6	17.9	16.9	17.6	17.2	17.9	18.2
4H	17.3	18.0	17.7	18.3	18.6	17.6	18.3	18.0	18.6	18.9
6H	17.9	18.5	18.3	18.8	19.2	18.3	18.9	18.7	19.2	19.5
8H	18.1	18.7	18.5	19.0	19.4	18.5	19.1	18.9	19.4	19.8
12H	18.3	18.8	18.7	19.2	19.5	18.7	19.2	19.1	19.6	20.0
8H 4H	17.6	18.1	18.0	18.5	18.9	17.9	18.4	18.3	18.8	19.2
6H	18.3	18.8	18.8	19.2	19.6	18.7	19.2	19.2	19.6	20.0
8H	18.6	19.0	19.1	19.4	19.9	19.1	19.5	19.5	19.9	20.3
12H	18.9	19.2	19.3	19.6	20.1	19.4	19.7	19.8	20.1	20.6
12H 4H	17.6	18.1	18.0	18.5	18.9	17.9	18.4	18.3	18.8	19.2
6H	18.4	18.8	18.9	19.2	19.7	18.8	19.2	19.2	19.6	20.0
8H	18.8	19.1	19.2	19.5	20.0	19.2	19.5	19.7	20.0	20.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.4				
1.5H	+ 0.3 / - 0.2					+ 0.3 / - 0.3				
2.0H	+ 0.2 / - 0.2					+ 0.3 / - 0.3				

CIE Pub.117 Corrected 6563 lm Total Lamp Luminous Flux.(8log(F/F0) = 6.5)

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: 44W	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) $k(RI) \times RCR = 5$									
$k = 0.60$	82	75	71	82	75	71	81	75	71	67
0.80	90	83	79	89	83	79	88	82	78	74
1.00	95	89	84	94	88	84	93	88	84	79
1.25	100	94	89	99	93	89	96	92	88	84
1.50	103	97	93	101	96	93	99	95	92	87
2.00	106	101	97	105	100	97	102	98	95	89
2.50	108	104	100	106	102	99	103	100	97	91
3.00	110	106	103	108	105	102	105	102	99	93
4.00	112	109	106	110	107	105	107	104	102	95
5.00	114	111	109	112	109	107	108	106	104	96
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

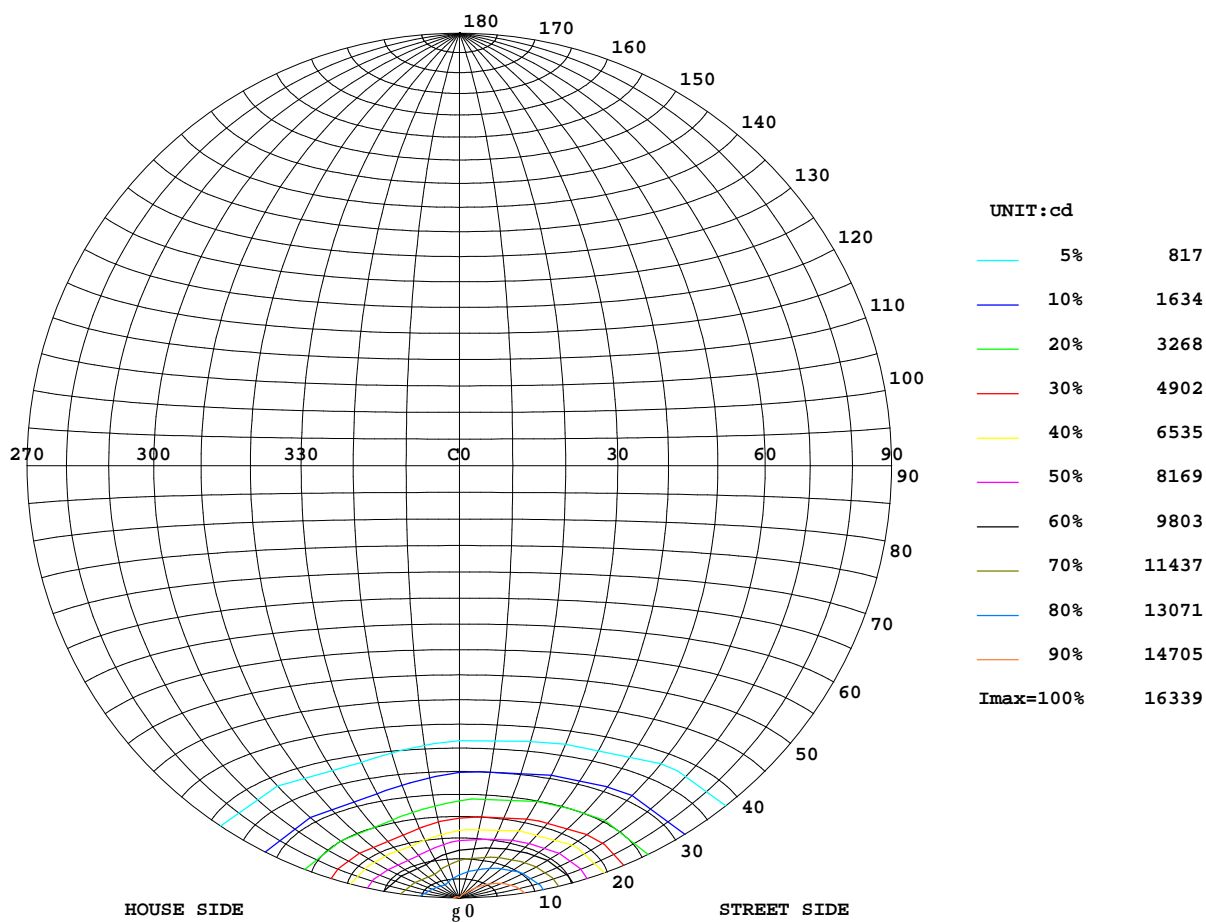
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年08月07日

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: 44W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65mm	SERIAL No.:



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

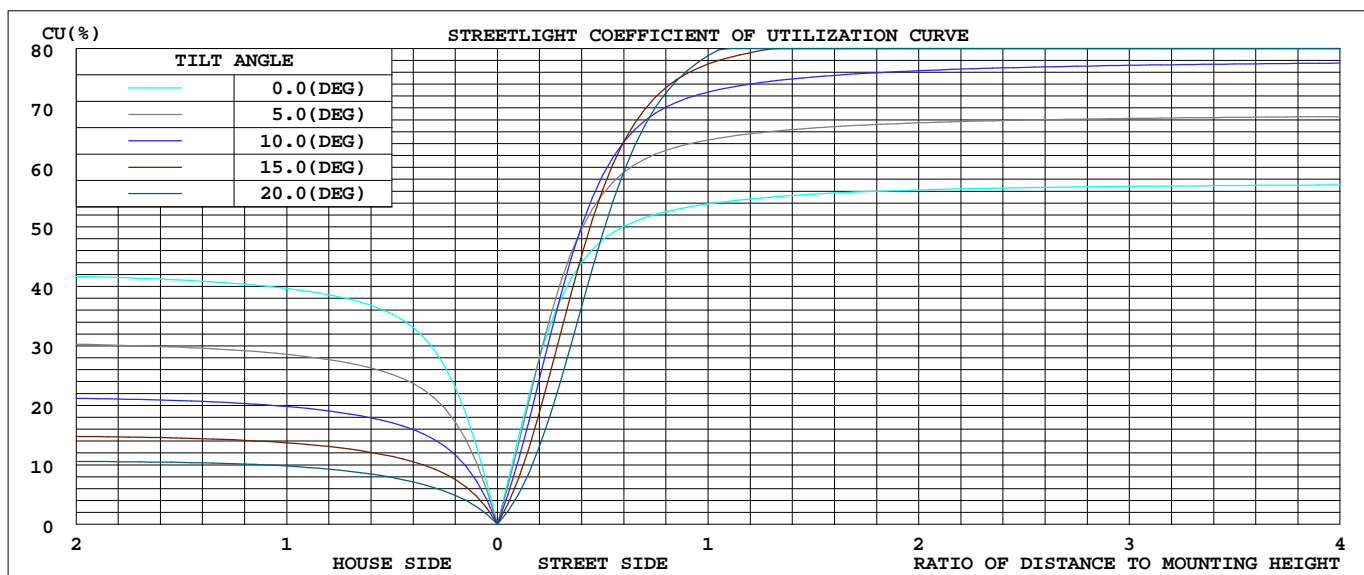
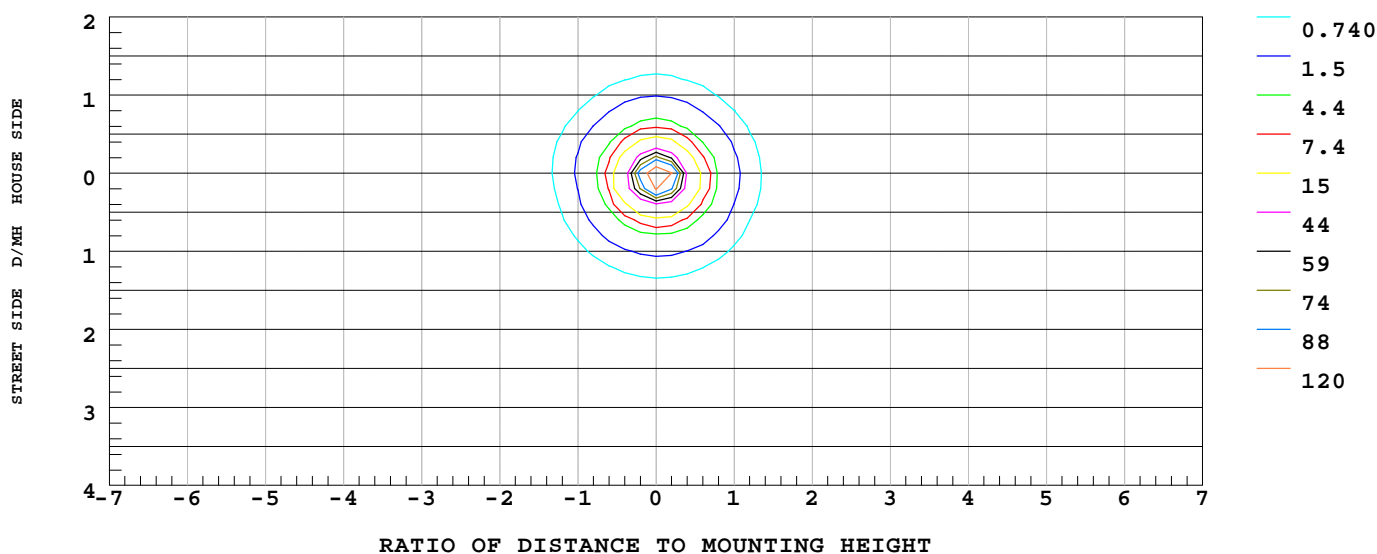
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 44W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65mm	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 147.44 lx



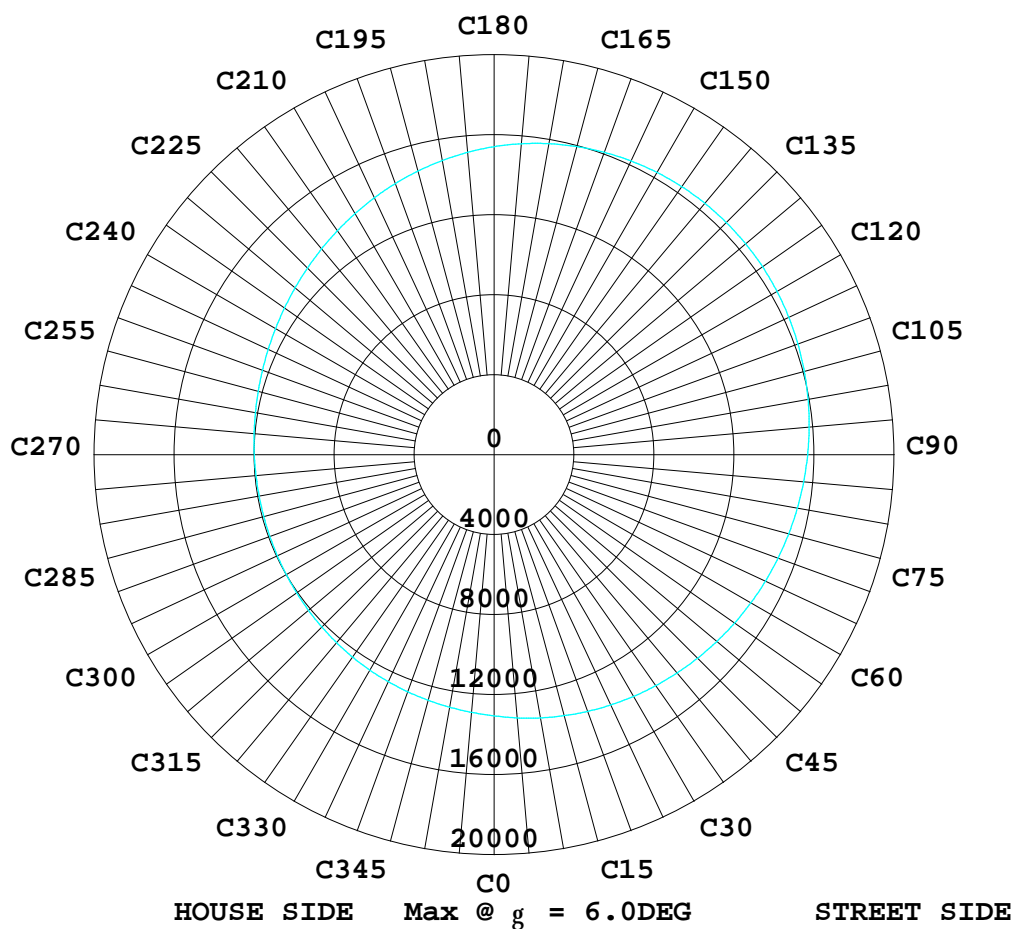
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月07日

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: 44W	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: