

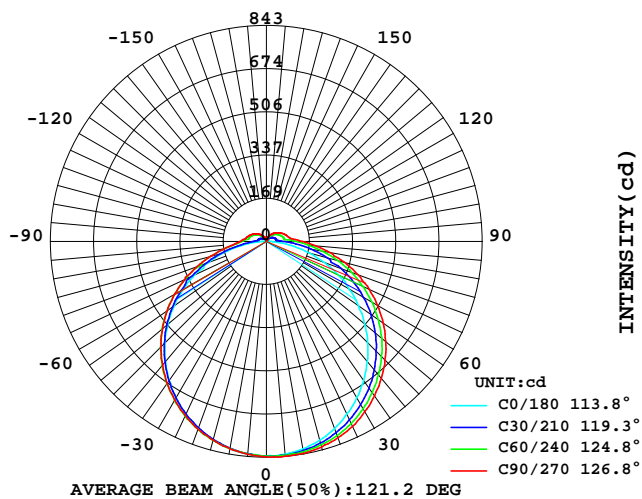
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

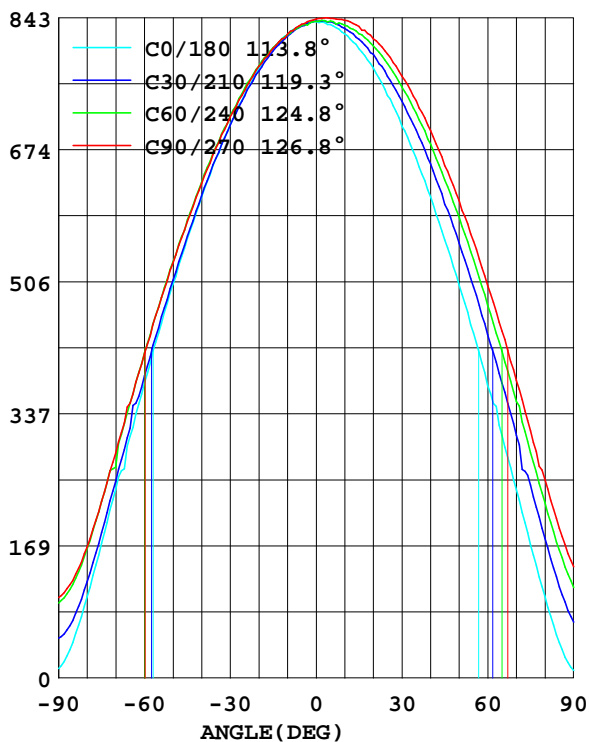
MANUFACTURER:		
Address:		
NAME: 20W 120°	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1500X65mm	SERIAL No.:

DATA OF LAMP		I _{max} (cd)	842.5	S/MH(C0/180)	1.25
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.27
NOMINAL POWER(W)	20	TOTAL FLUX(lm)	2916.1	Voltage(V)	230.1
RATED VOLTAGE(V)	230	EFFICIENCY(lm/W)	146.5	Current(A)	0.090
NOMINAL FLUX(lm)	2916.2	h up(%)	7.6	Power(W)	19.90
LAMPS QUANTITY	1	h down(%)	92.4	Power Factor(PF)	0.952
TEST VOLTAGE(V)	230.2	Effective Flux(lm)	2712.7	EEI	0.100

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2018年08月09日

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

Color Temperature Data List

Report number:

MANUFACTURER:		
Address:		
NAME: 20W 120°	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1500X65mm	SERIAL No.:

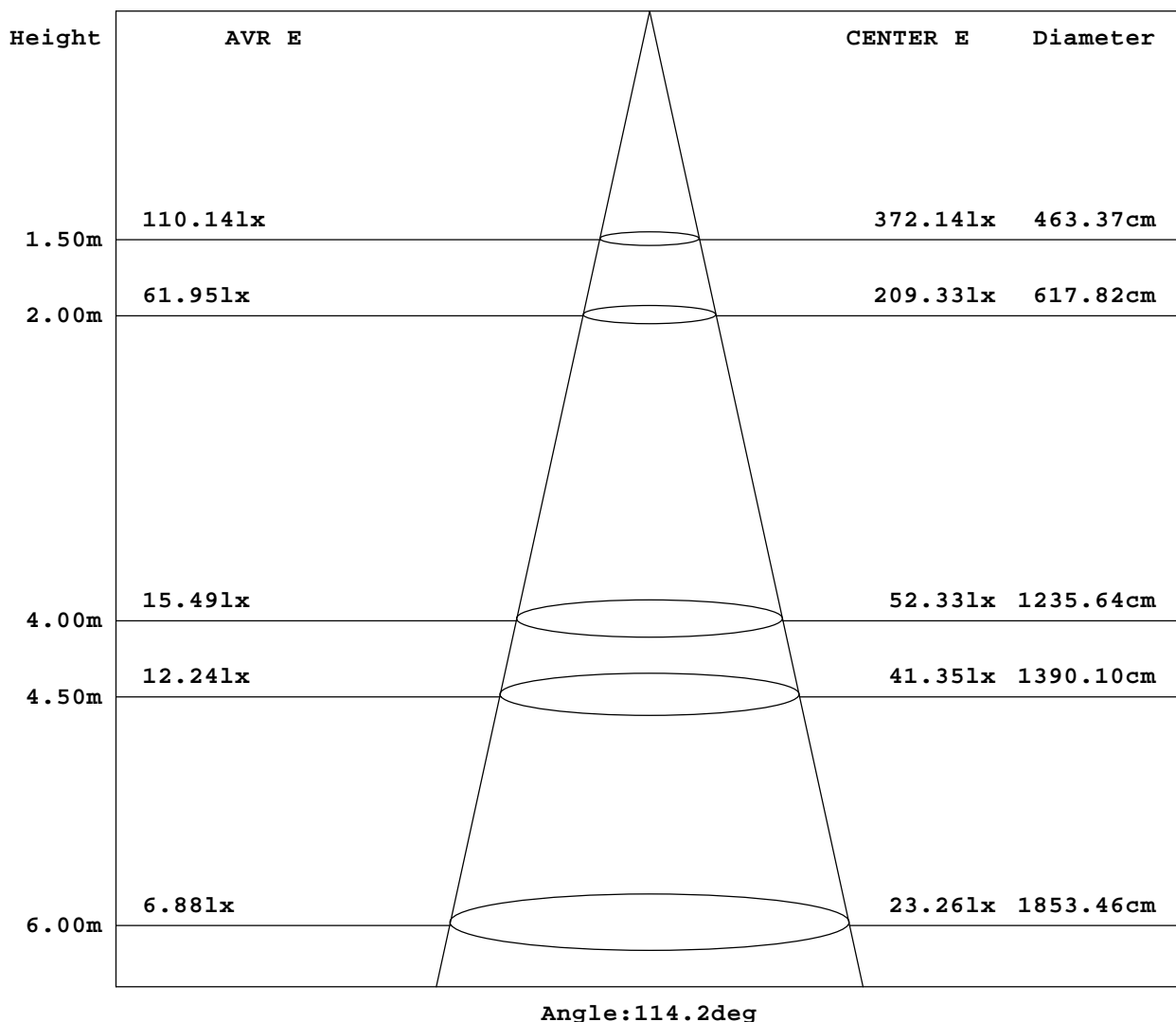
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2018年08月09日

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

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:		
Address:		
NAME: 20W 120°	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1500X65mm	SERIAL No.:



Test System: HOPOO HPG1800
 Temperature: 25.3DEG
 Operators:
 Test Date: 2018年08月09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: 20W 120°	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1500X65mm	SERIAL No.:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	Zone	tStal
5.0	833.3	831.9	834.2	833.0	833.6	837.8	841.3	838.8	0- 5	20.00	20.00
10.0	820.8	819.8	821.3	819.2	821.8	830.7	839.1	830.6	5- 10	59.41	79.41
15.0	803.1	802.3	803.5	801.5	802.7	818.2	831.2	817.7	10- 15	97.03	176.4
20.0	777.3	777.3	780.2	776.8	778.0	800.9	815.5	799.5	15- 20	131.7	308.1
25.0	744.2	747.7	749.5	745.3	743.1	775.7	796.0	774.0	20- 25	162.3	470.5
30.0	706.2	711.5	716.1	709.4	704.2	745.1	768.1	742.0	25- 30	188.0	658.6
35.0	662.7	670.2	676.0	667.5	663.2	709.7	736.6	705.4	30- 35	207.9	866.5
40.0	613.2	623.3	630.4	620.5	613.5	668.2	698.2	662.4	35- 40	221.6	1088
45.0	560.9	574.1	582.4	570.9	558.7	619.8	653.6	614.3	40- 45	228.7	1317
50.0	502.5	519.3	529.3	514.9	501.3	571.4	608.9	564.0	45- 50	228.9	1546
55.0	440.0	460.0	472.6	455.7	440.0	516.3	557.0	507.9	50- 55	222.3	1768
60.0	376.7	400.4	414.0	395.5	372.9	456.7	500.9	447.0	55- 60	209.1	1977
65.0	308.5	334.8	350.6	330.2	309.5	396.4	442.3	385.5	60- 65	190.1	2168
70.0	240.9	260.0	287.0	256.2	239.9	330.9	379.3	321.1	65- 70	164.8	2332
75.0	172.3	205.7	225.7	199.3	169.5	266.6	315.4	253.9	70- 75	135.7	2468
80.0	103.8	144.1	167.2	136.6	104.1	201.2	253.3	187.8	75- 80	104.3	2573
85.0	45.25	96.31	124.5	86.39	45.25	139.6	190.9	126.2	80- 85	73.52	2646
90.0	11.85	73.32	102.6	61.64	9.438	93.47	142.0	81.13	85- 90	48.94	2695
95.0	7.623	62.73	92.56	52.69	3.630	64.61	107.6	54.38	90- 95	35.47	2730
100.0	6.413	52.15	80.46	43.01	3.751	54.08	91.11	46.58	95-100	27.17	2758
105.0	6.292	50.09	76.22	41.56	4.356	52.63	85.06	45.19	100-105	25.11	2783
110.0	6.655	46.82	70.42	39.26	3.751	49.61	78.89	42.41	105-110	23.25	2806
115.0	6.413	43.01	64.73	36.72	4.598	45.98	72.72	38.84	110-115	20.97	2827
120.0	6.534	38.65	58.92	33.39	4.961	42.41	66.79	34.78	115-120	18.50	2845
125.0	6.655	34.18	53.23	30.43	5.445	38.47	60.13	30.37	120-125	15.94	2861
130.0	6.897	29.88	47.06	27.22	5.566	34.24	53.48	26.31	125-130	13.41	2875
135.0	6.897	25.41	41.50	24.20	6.050	30.18	47.55	22.74	130-135	11.02	2886
140.0	6.776	21.17	35.45	20.75	5.929	26.19	40.77	19.72	135-140	8.844	2895
145.0	7.260	18.51	29.64	17.54	6.413	22.08	34.72	17.18	140-145	6.848	2902
150.0	7.381	14.94	23.71	14.52	6.655	18.21	28.31	14.76	145-150	5.147	2907
155.0	7.865	12.58	18.99	11.67	6.776	14.45	22.74	12.34	150-155	3.674	2910
160.0	7.865	10.16	14.27	9.740	6.897	11.37	17.54	9.801	155-160	2.512	2913
165.0	7.623	8.469	10.16	8.167	7.381	9.377	12.46	8.349	160-165	1.616	2914
170.0	7.986	7.865	7.260	7.744	7.381	7.804	8.833	7.623	165-170	0.971	2915
175.0	7.502	7.865	7.260	7.744	7.260	7.502	7.744	7.925	170-175	0.550	2916
180.0	7.986	7.804	7.139	7.623	7.744	7.683	7.865	7.804	175-180	0.183	2916
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018年08月09日

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

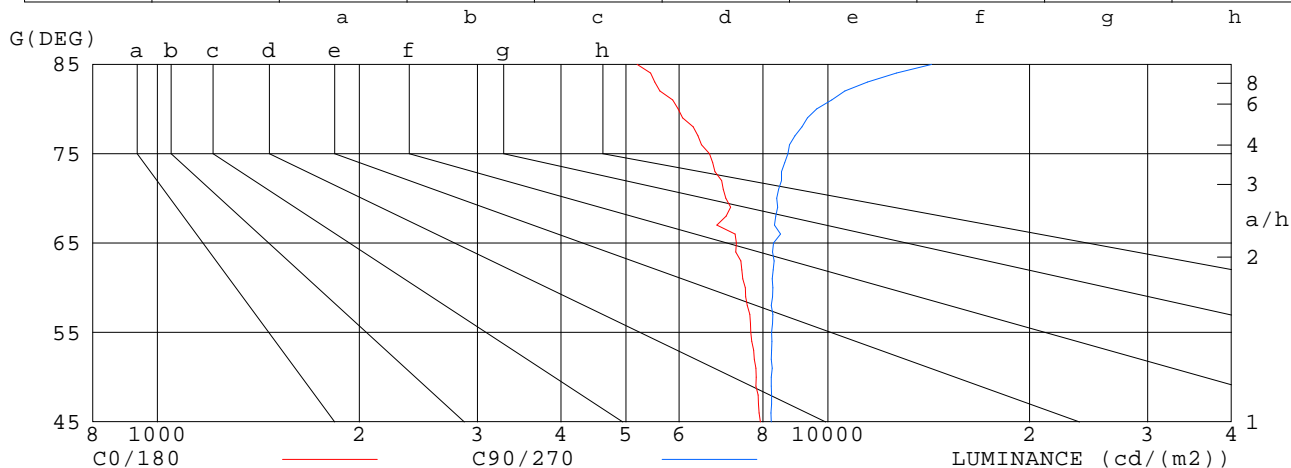
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:		
Address:		
NAME: 20W 120°	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1500X65mm	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	5192	14286
80	5979	9630
75	6657	8724
70	7044	8392
65	7301	8297
60	7536	8281
55	7673	8240
50	7818	8236
45	7933	8238

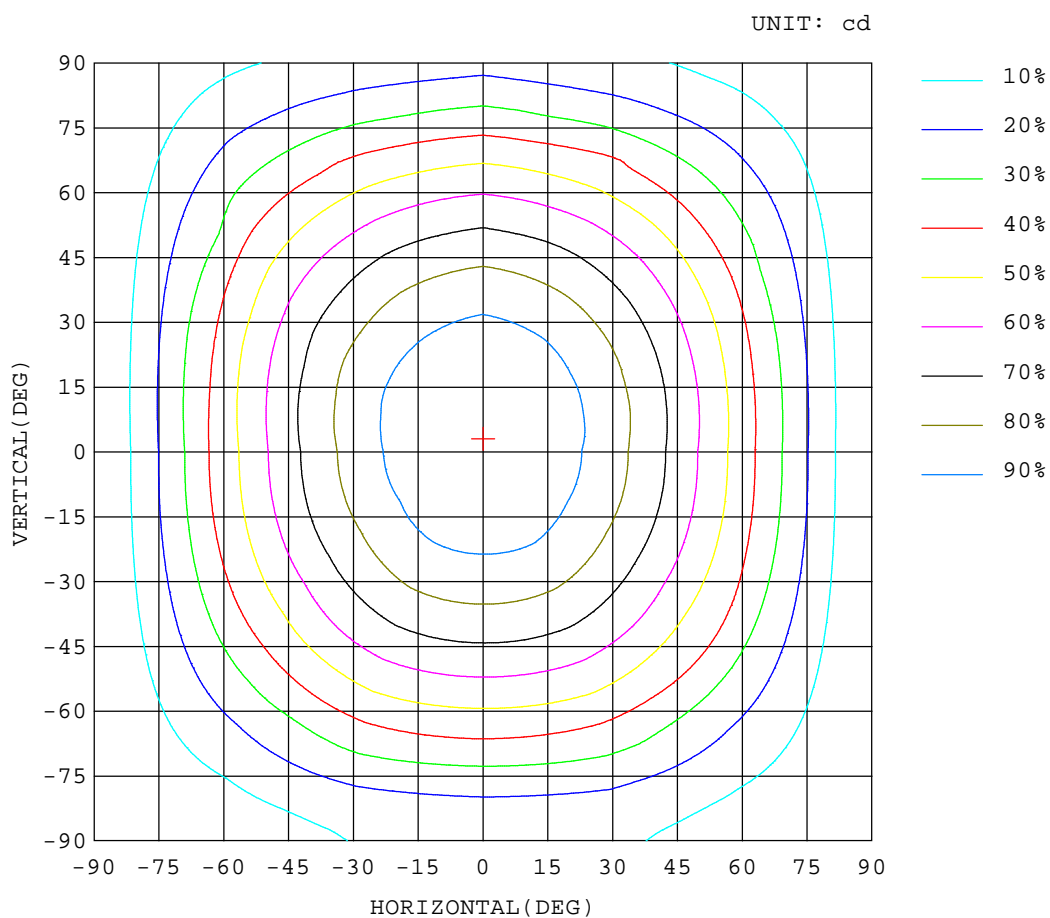
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2018年08月09日

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: 20W 120°	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1500X65mm	SERIAL No.:



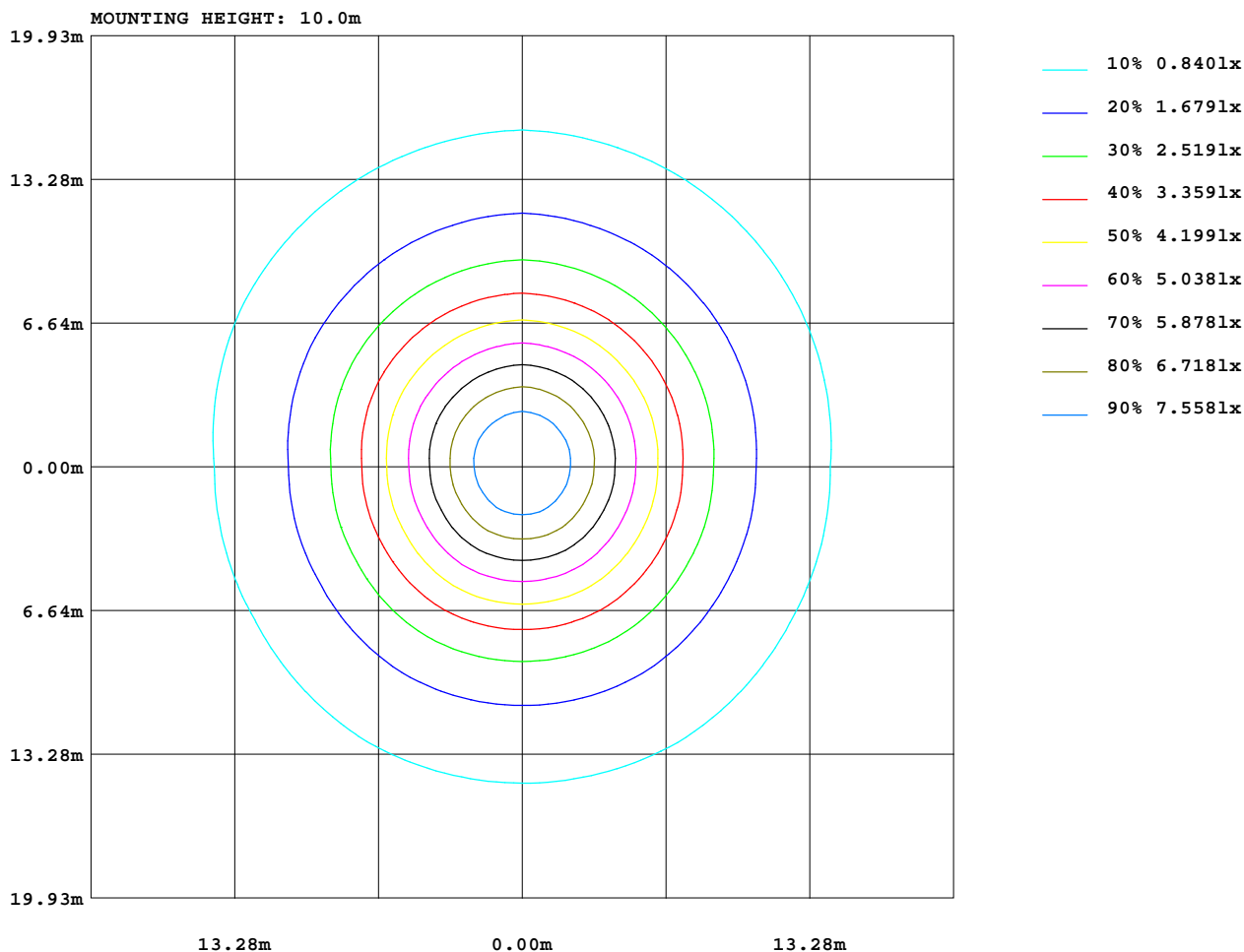
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2018年08月09日

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: 20W 120°	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1500X65mm	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2018年08月09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: 20W 120°										TYPE:					WEIGHT:					
SPECIFICATION:										DIMENSION: 1500X65mm					SERIAL No.:					

VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT:lm		Φ t	Φ a
	0.07	0.39	1.00	1.81	2.71	3.67	4.53	5.21	5.71	5.66	5.06	4.30	3.39	2.42	1.54	0.83	0.34	0.06	48.7	45.6		
90	0.09	0.56	1.53	2.90	4.45	6.07	7.53	8.65	9.37	9.33	8.51	7.30	5.79	4.16	2.63	1.36	0.50	0.08	80.8	79.6		
80	0.11	0.76	2.14	4.10	6.28	8.60	10.6	12.2	13.2	13.1	12.1	10.5	8.39	6.05	3.85	1.98	0.70	0.10	115	114		
70	0.13	0.95	2.71	5.17	8.07	10.9	13.5	15.4	16.6	16.6	15.3	13.3	10.7	7.79	4.94	2.58	0.90	0.12	146	146		
60	0.15	1.12	3.19	6.20	9.58	12.9	16.0	18.2	19.6	19.6	18.2	15.8	12.7	9.31	5.95	3.09	1.08	0.14	173	173		
50	0.16	1.27	3.60	6.95	10.8	14.6	18.0	20.5	22.0	22.0	20.5	17.8	14.4	10.5	6.76	3.50	1.23	0.16	195	195		
40	0.17	1.36	3.90	7.48	11.6	15.8	19.5	22.2	23.8	23.8	22.2	19.3	15.6	11.4	7.34	3.81	1.34	0.17	211	211		
30	0.18	1.41	4.06	7.76	12.0	16.5	20.4	23.3	24.9	24.9	23.2	20.2	16.3	11.9	7.69	3.99	1.41	0.17	221	221		
20	0.17	1.42	4.07	7.78	12.1	16.6	20.6	23.6	25.2	25.2	23.6	20.5	16.5	12.1	7.77	4.03	1.42	0.18	223	223		
10	0.17	1.39	4.01	7.67	11.9	16.3	20.3	23.3	25.0	25.0	23.3	20.3	16.4	12.0	7.70	3.99	1.40	0.17	221	221		
0	0.17	1.35	3.88	7.41	11.5	15.7	19.5	22.5	24.1	24.1	22.6	19.6	15.8	11.6	7.46	3.87	1.36	0.17	213	213		
-10	0.16	1.25	3.60	6.90	10.7	14.7	18.3	21.1	22.5	22.6	21.2	18.4	14.8	10.8	6.97	3.62	1.27	0.16	200	199		
-20	0.14	1.11	3.20	6.17	9.62	13.2	16.6	19.1	20.3	20.3	19.1	16.7	13.4	9.75	6.27	3.23	1.13	0.15	180	180		
-30	0.12	0.94	2.70	5.22	8.26	11.4	14.4	16.4	17.5	17.5	16.5	14.4	11.6	8.41	5.34	2.75	0.97	0.13	155	155		
-40	0.10	0.74	2.12	4.13	6.66	9.32	11.7	13.3	14.2	14.2	13.4	11.8	9.45	6.80	4.23	2.18	0.78	0.11	126	125		
-50	0.08	0.54	1.50	2.96	4.85	6.85	8.64	9.88	10.5	10.5	9.93	8.71	6.95	4.97	3.09	1.59	0.58	0.09	92.4	91.4		
-60	0.06	0.36	0.94	1.84	3.06	4.41	5.58	6.34	6.78	6.80	6.42	5.72	4.58	3.23	1.99	1.04	0.41	0.07	59.6	57.2		
-70	0.05	0.23	0.53	1.01	1.69	2.47	3.11	3.53	3.81	3.86	3.65	3.31	2.70	1.92	1.21	0.67	0.29	0.06	34.1	28.1		
-80																						
-90																						
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL(DEG) 20 30 40 50 60 70 80 90																						
Φ t	2.26	17.2	48.7	93.5	146	201	249	286	306	306	285	249	200	145	92.8	48.1	17.1	2.29	2916			
Φ a	0.46	14.8	46.8	92.1	145	200	249	286	306	306	285	249	200	145	91.1	46.0	14.7	0.43		2713		

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018年08月09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: 20W 120°					TYPE:			WEIGHT:			
SPECIFICATION:					DIMENSION: 1500X65mm			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	19.3	20.8	19.7	21.1	21.4	19.7	21.2	20.1	21.5	21.9	
	3H	20.9	22.2	21.3	22.6	23.0	21.5	22.9	21.9	23.2	23.6
	4H	21.5	22.8	21.9	23.2	23.6	22.4	23.7	22.8	24.0	24.5
	6H	22.0	23.2	22.4	23.6	24.0	23.2	24.4	23.6	24.8	25.2
	8H	22.1	23.3	22.6	23.7	24.1	23.5	24.7	24.0	25.1	25.6
	12H	22.2	23.3	22.7	23.7	24.2	24.0	25.1	24.4	25.5	26.0
4H 2H	20.0	21.3	20.4	21.7	22.1	20.3	21.6	20.7	22.0	22.4	
	3H	21.7	22.9	22.2	23.3	23.8	22.3	23.5	22.8	23.9	24.4
	4H	22.5	23.5	23.0	24.0	24.5	23.3	24.4	23.8	24.8	25.3
	6H	23.1	24.0	23.6	24.5	25.0	24.3	25.2	24.8	25.7	26.2
	8H	23.3	24.2	23.8	24.7	25.2	24.8	25.6	25.3	26.1	26.7
	12H	23.4	24.2	24.0	24.8	25.3	25.3	26.1	25.9	26.6	27.2
8H 4H	22.9	23.7	23.4	24.3	24.8	23.6	24.5	24.2	25.0	25.5	
	6H	23.7	24.4	24.2	24.9	25.5	24.8	25.5	25.4	26.1	26.7
	8H	24.0	24.6	24.6	25.2	25.8	25.5	26.1	26.0	26.7	27.3
	12H	24.3	24.8	24.8	25.4	26.0	26.2	26.8	26.8	27.3	28.0
12H 4H	23.0	23.8	23.5	24.3	24.8	23.6	24.4	24.2	25.0	25.5	
	6H	23.8	24.5	24.4	25.0	25.6	24.9	25.5	25.5	26.1	26.7
	8H	24.2	24.8	24.8	25.4	26.0	25.6	26.2	26.2	26.8	27.4
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117 Corrected 2916 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.7)

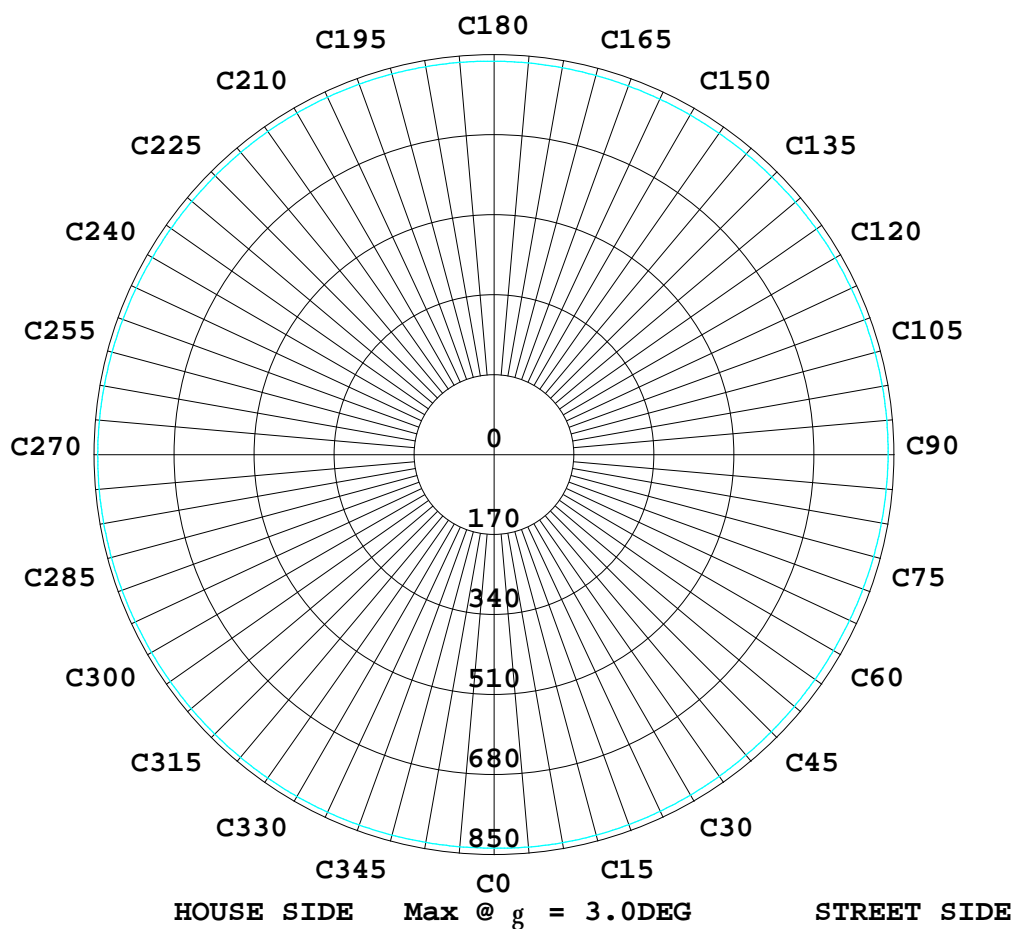
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 Temperature:25.3DEG
 Operators:
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Test Set: 8.0deg/s C-Gamma (TYPE C)
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ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 20W 120°	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1500X65mm	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
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