

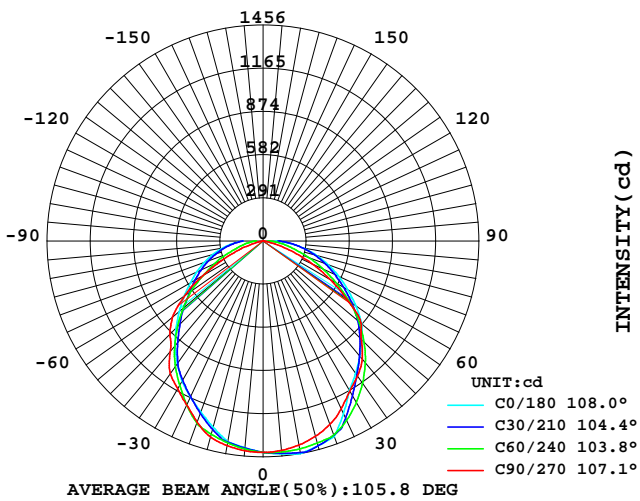
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

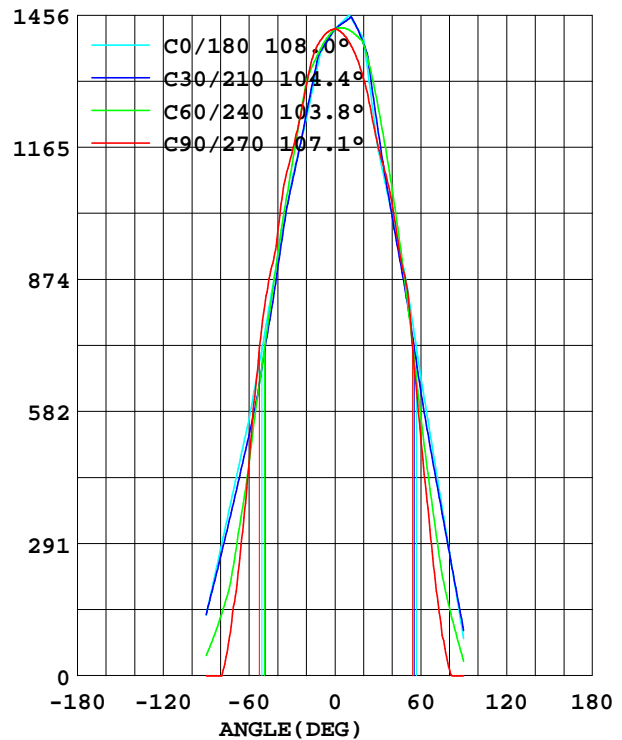
MANUFACTURER:	Address:		
NAME: iron +Transparent (KREAT 30W)	TYPE:	WEIGHT:	
SPECIFICATION:	DIMENSION: 1.5M	SERIAL No.:20180503001	

DATA OF LAMP		Imax(cd)	1456	S/MH(C0/180)	1.15
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.21
NOMINAL POWER(W)	28	TOTAL FLUX(lm)	3893.8	Voltage(V)	221.1
RATED VOLTAGE(V)	222	EFFICIENCY(lm/W)	136.5	Current(A)	0.136
NOMINAL FLUX(lm)	3893.9	$\eta$ up(%)	0.0	Power(W)	28.52
LAMPS QUANTITY	1	$\eta$ down(%)	100.0	Power Factor(PF)	0.946
TEST VOLTAGE(V)	221.1	Effective Flux(lm)	3842.2	EEI	0.101

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



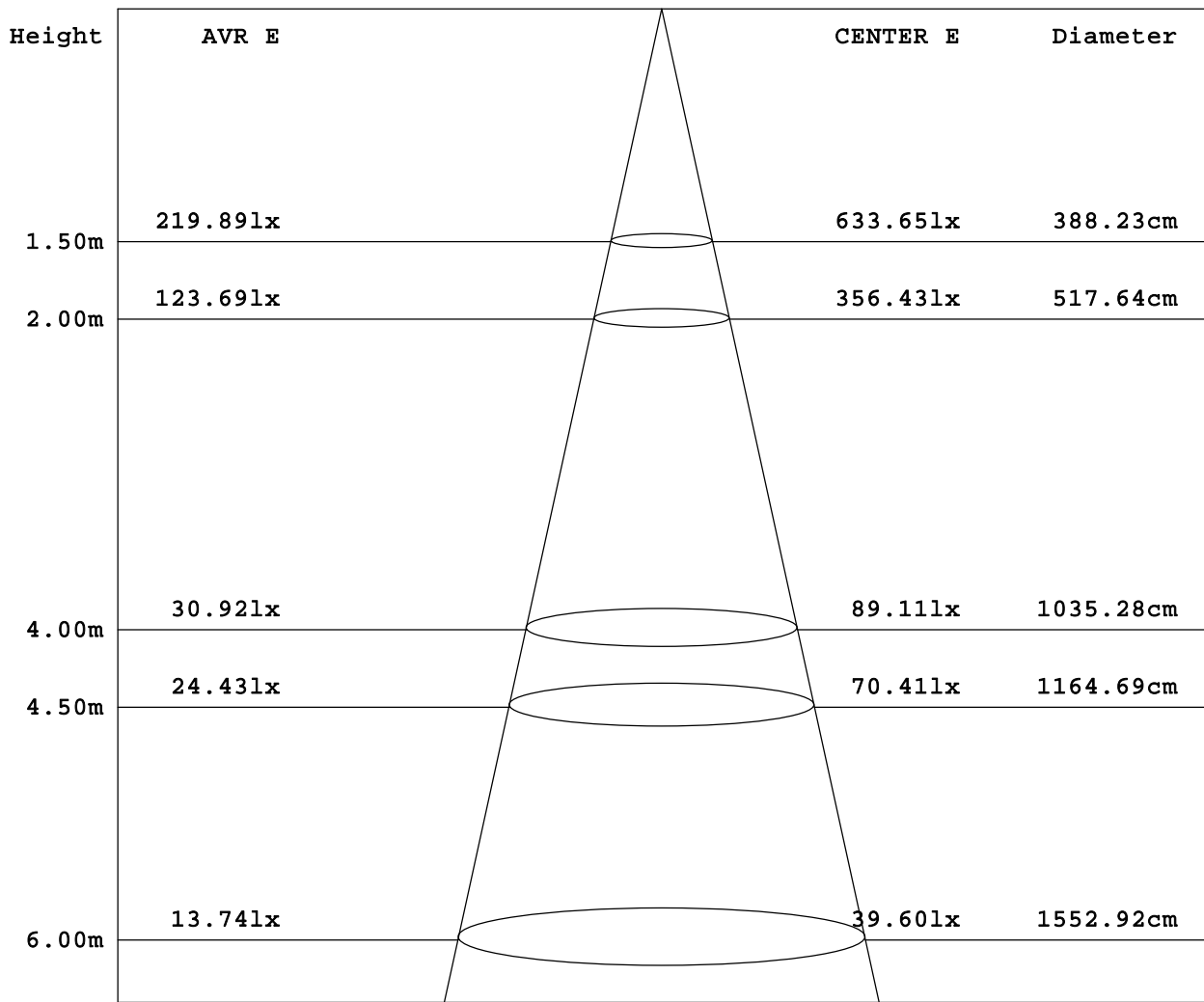
Test System:HOP00 HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018年05月03日

Test Set: 5.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks: LG 5630 4000K LED78\*2 (KL30C-PD2)

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:	Address:	
NAME: iron +Transparent (KREAT 30W)	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1.5M	SERIAL No.:20180503001



Angle:104.6deg

Test System:HOP00 HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018年05月03日

Test Set: 5.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks: LG 5630 4000K LED78\*2 (KL30C-PD2)

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:		Address:	
NAME: iron +Transparent (KREAT 30W)		TYPE:	WEIGHT:
SPECIFICATION:		DIMENSION: 1.5M	SERIAL No.:20180503001

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	1400	1404	1419	1432	1441	1433	1417	1403	0- 5	33.98	33.98
10.0	1374	1378	1401	1432	1456	1438	1396	1374	5- 10	101.0	135.0
15.0	1300	1338	1368	1421	1430	1430	1364	1336	10- 15	164.8	299.8
20.0	1227	1260	1300	1374	1405	1383	1317	1264	15- 20	222.1	522.0
25.0	1160	1163	1220	1310	1284	1316	1248	1179	20- 25	270.0	792.1
30.0	1093	1076	1151	1211	1163	1220	1170	1092	25- 30	305.3	1097
35.0	1008	1008	1091	1100	1089	1110	1111	1011	30- 35	329.8	1427
40.0	923.1	930.3	974.7	1003	1015	1000	1041	938.4	35- 40	343.9	1771
45.0	830.0	833.7	890.7	913.6	941.9	916.9	938.2	837.1	40- 45	346.3	2118
50.0	736.8	740.5	797.0	822.2	868.7	818.0	862.2	729.4	45- 50	336.5	2454
55.0	651.1	602.8	645.7	730.8	764.3	722.6	695.1	602.6	50- 55	315.2	2769
60.0	565.4	480.6	468.9	606.8	659.8	627.0	528.7	478.1	55- 60	280.8	3050
65.0	493.3	403.9	303.6	458.8	563.4	494.1	368.8	434.3	60- 65	239.7	3290
70.0	421.3	328.5	163.3	359.3	467.0	379.3	214.2	383.0	65- 70	197.3	3487
75.0	349.3	269.0	58.56	293.8	370.6	299.7	89.09	315.4	70- 75	154.8	3642
80.0	277.3	218.7	0	230.7	274.2	229.3	13.53	248.3	75- 80	116.0	3758
85.0	205.2	174.4	0	168.1	177.8	165.2	0	191.3	80- 85	82.28	3840
90.0	133.2	133.2	0	107.0	81.39	102.8	0	141.1	85- 90	53.40	3894
95.0									90- 95		
100.0									95-100		
105.0									100-105		
110.0									105-110		
115.0									110-115		
120.0									115-120		
125.0									120-125		
130.0									125-130		
135.0									130-135		
140.0									135-140		
145.0									140-145		
150.0									145-150		
155.0									150-155		
160.0									155-160		
165.0									160-165		
170.0									165-170		
175.0									170-175		
180.0									175-180		
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018年05月03日

Test Set: 5.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks: LG 5630 4000K LED78\*2 (KL30C-PD2)

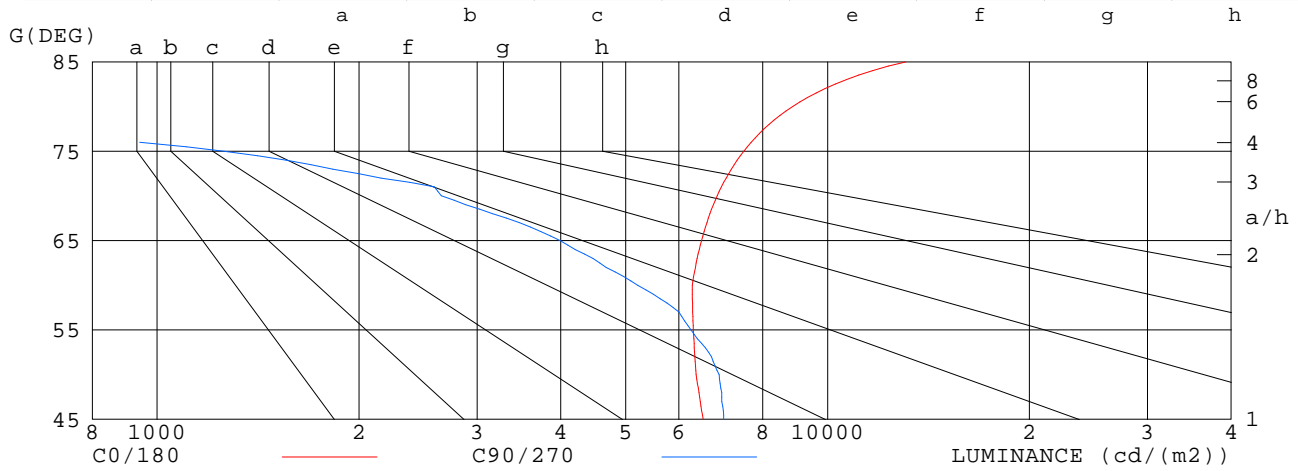
LUMINANCE LIMITATION CURVES

Report number:

<b>MANUFACTURER:</b>		<b>Address:</b>	
<b>NAME: iron +Transparent (KREAT 30W)</b>		<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>		<b>DIMENSION: 1.5M</b>	<b>SERIAL No.:20180503001</b>

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	13085	0
80	8872	0
75	7498	1257
70	6844	2654
65	6486	3991
60	6282	5211
55	6307	6254
50	6369	6889
45	6521	6999

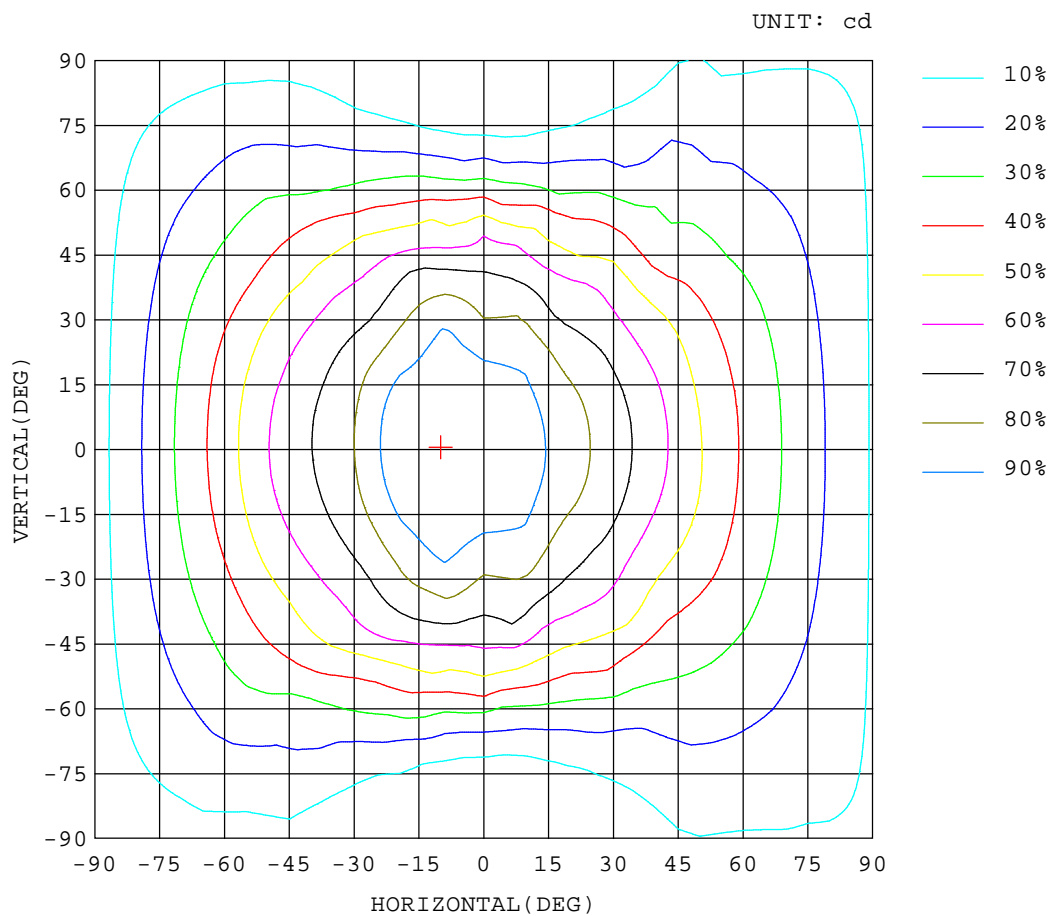
Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018年05月03日

Test Set: 5.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks: LG 5630 4000K LED78\*2 (KL30C-PD2)

ISOCANDELA DIAGRAM

Report number:

<b>MANUFACTURER:</b>	<b>Address:</b>	
<b>NAME: iron +Transparent (KREAT 30W)</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION: 1.5M</b>	<b>SERIAL No.:20180503001</b>



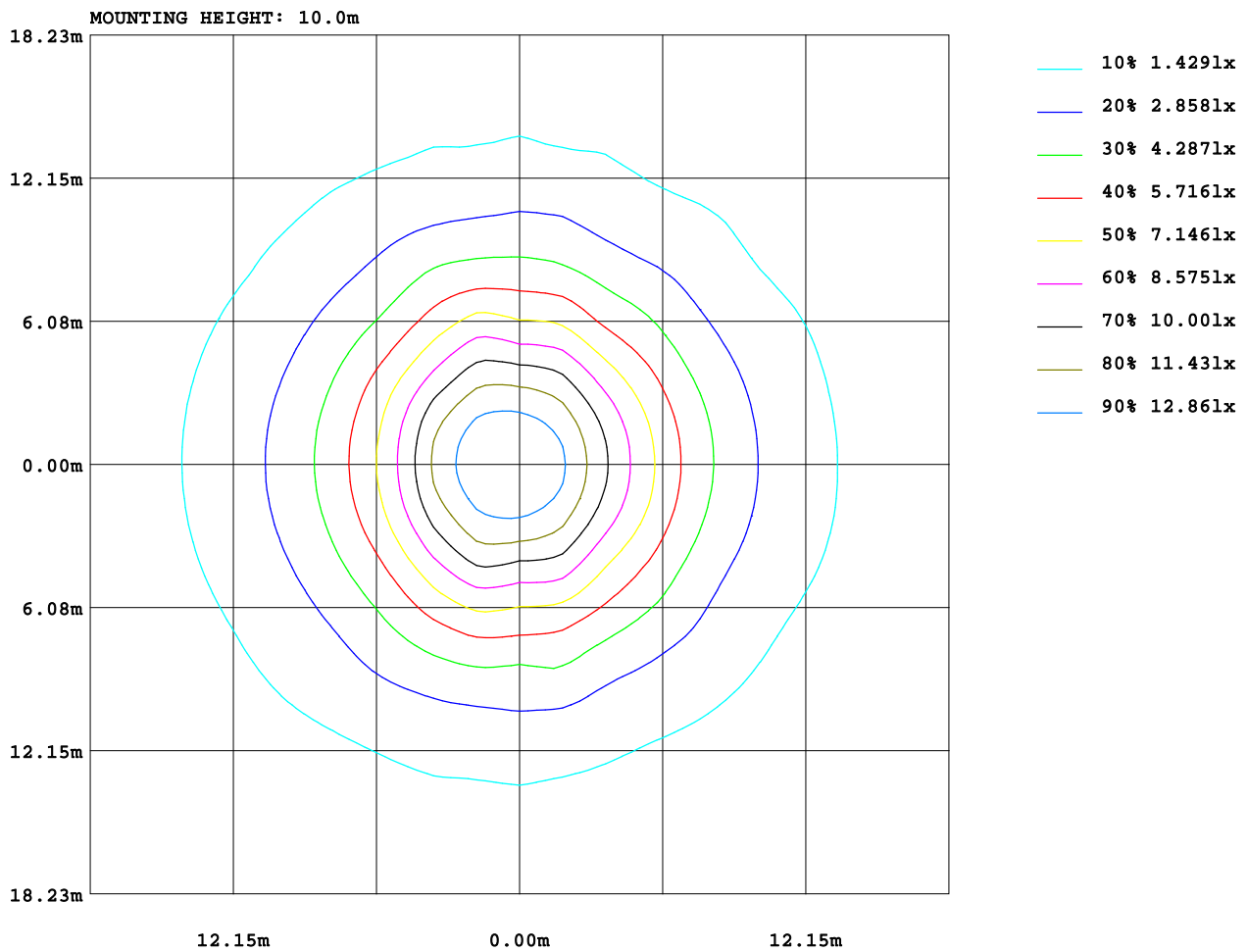
Test System:HOP00 HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018年05月03日

Test Set: 5.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks: LG 5630 4000K LED78\*2 (KL30C-PD2)

ISOLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: iron +Transparent (KREAT 30W)	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1.5M	SERIAL No.:20180503001



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018年05月03日

Test Set: 5.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks: LG 5630 4000K LED78\*2 (KL30C-PD2)

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:	Address:	
NAME: iron +Transparent (KREAT 30W)	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1.5M	SERIAL No.:20180503001

		AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a							
VERTICAL (DEG)	90	0.25	0.88	1.68	2.53	3.10	2.73	1.63	0.60	0.05	0.04	0.51	1.68	2.87	3.66	2.86	2.05	1.22	0.38	28.7	13.1							
	80	0.31	1.25	2.62	4.17	5.20	5.56	5.08	4.26	3.30	3.01	3.67	4.52	4.86	5.38	4.04	2.76	1.51	0.42	62.0	52.6							
	70	0.36	1.62	3.54	5.88	7.62	9.02	10.4	11.2	10.9	10.4	9.48	8.96	7.79	7.30	5.29	3.47	1.79	0.46	116	116							
	60	0.41	1.97	4.42	7.53	10.6	13.7	16.7	19.1	20.1	19.6	17.2	14.7	11.5	9.01	6.60	4.16	2.05	0.50	180	180							
	50	0.46	2.29	5.25	9.03	13.4	18.2	22.9	26.8	28.1	27.9	23.6	19.9	15.3	11.0	7.80	4.83	2.29	0.53	240	240							
	40	0.49	2.56	6.02	10.5	15.9	21.5	27.1	33.2	34.9	33.3	29.1	24.8	19.0	13.7	9.10	5.43	2.48	0.56	290	290							
	30	0.52	2.77	6.65	11.9	18.1	24.2	30.6	37.2	39.3	37.6	33.4	27.9	21.8	15.8	10.2	5.90	2.64	0.58	328	328							
		0.54	2.92	7.09	12.8	19.5	26.2	33.8	40.2	42.0	40.6	36.5	30.5	24.0	17.1	10.9	6.22	2.75	0.60	355	355							
		0.55	2.98	7.29	13.3	20.2	27.0	35.2	41.8	43.4	42.1	38.0	31.8	25.0	17.8	11.3	6.37	2.80	0.61	368	368							
		0.55	2.98	7.26	13.3	20.1	26.9	35.0	41.6	43.3	42.1	37.9	31.7	24.9	17.7	11.3	6.37	2.80	0.61	367	367							
		0.54	2.89	7.00	12.7	19.3	25.7	33.2	39.9	42.0	40.7	36.3	30.3	23.6	16.9	11.0	6.23	2.75	0.60	352	352							
	-30	0.52	2.74	6.55	11.7	17.8	23.8	30.3	36.9	38.7	37.2	33.3	27.7	21.3	15.3	10.2	5.92	2.64	0.58	324	324							
	-40	0.49	2.52	5.94	10.4	15.7	21.3	27.2	32.4	33.9	32.8	29.1	24.3	18.9	13.2	9.18	5.46	2.49	0.56	286	286							
	-50	0.45	2.25	5.23	9.13	13.5	18.2	22.4	25.7	26.8	26.9	23.1	19.4	15.2	11.0	7.95	4.89	2.28	0.54	235	235							
	-60	0.41	1.94	4.44	7.50	10.1	12.9	15.6	18.1	18.9	18.3	15.9	13.7	11.1	8.88	6.65	4.22	2.04	0.50	172	172							
	-70	0.36	1.60	3.58	5.69	7.18	8.56	9.71	10.2	9.50	8.88	8.46	8.19	7.27	6.72	5.36	3.52	1.78	0.46	107	107							
	-80	0.30	1.24	2.65	3.97	5.02	5.05	4.41	3.50	2.36	2.06	2.85	3.92	4.51	4.89	4.13	2.80	1.49	0.42	55.6	44.6							
	-90	0.25	0.87	1.70	2.40	3.05	2.47	1.35	0.33	0.01	0.00	0.20	1.33	2.64	3.40	2.97	2.08	1.20	0.38	26.6	11.8							
		-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)											20	30	40	50	60	70	80	90
Φ t		7.77	38.3	89.0	155	226	294	363	424	438	424	379	326	262	199	137	82.7	39.0	9.31	3894								
Φ a		5.52	36.0	86.8	152	223	289	358	420	435	421	375	320	257	198	136	81.9	38.4	8.65		3842							

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018年05月03日

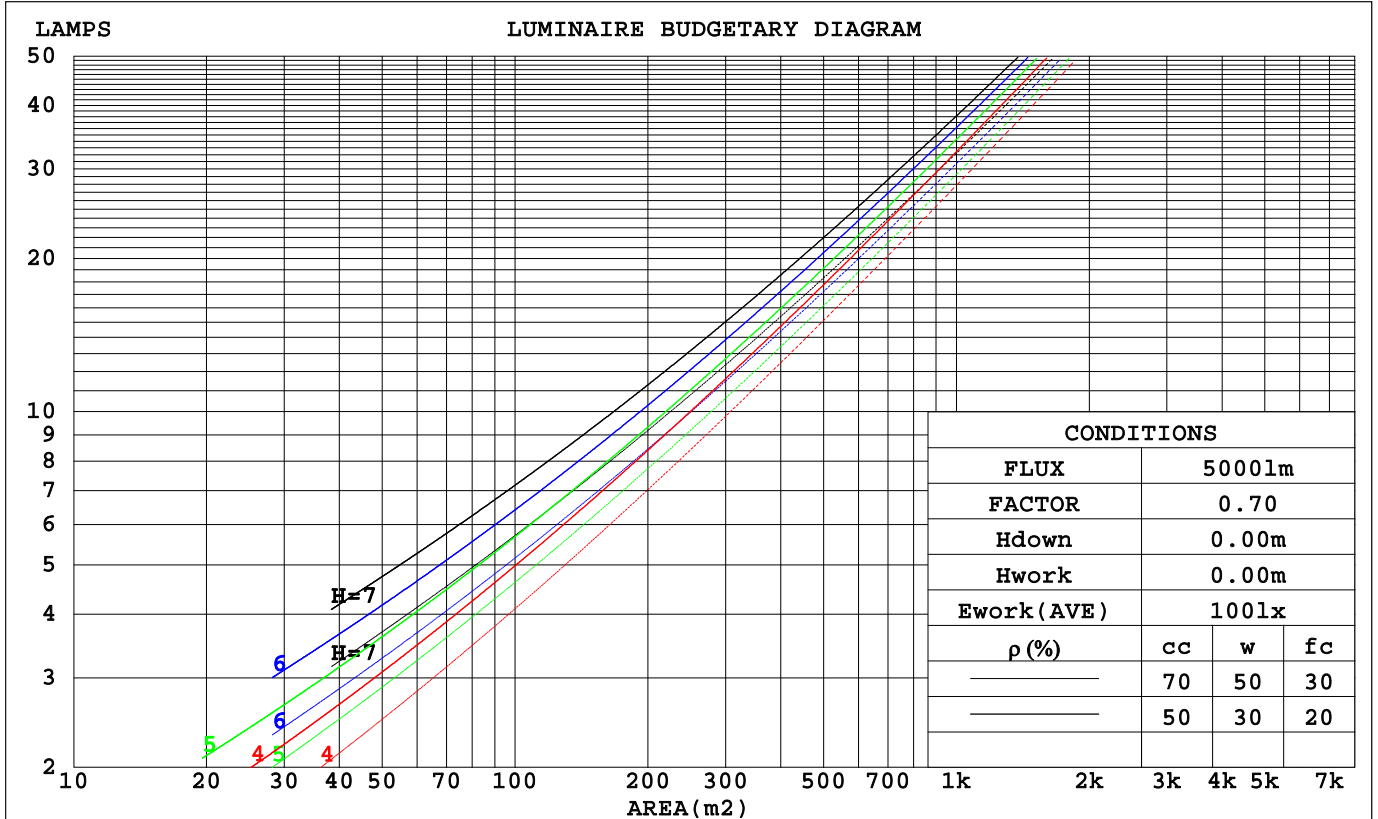
Test Set: 5.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks: LG 5630 4000K LED78\*2 (KL30C-PD2)

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:				Address:			
NAME: iron +Transparent (KREAT 30W)				TYPE:		WEIGHT:	
SPECIFICATION:				DIMENSION: 1.5M		SERIAL No.:20180503001	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.03	.99	.95	1.01	.97	.93	.97	.93	.90	.93	.90	.87	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.85	.79	.74	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.78	.70	.64	.75	.68	.63	.72	.66	.62	.69	.65	.60	.58
4.0	.70	.61	.55	.69	.61	.54	.66	.59	.54	.64	.58	.53	.62	.57	.52	.50
5.0	.63	.54	.47	.62	.53	.47	.60	.52	.46	.58	.51	.46	.56	.50	.45	.43
6.0	.57	.48	.41	.56	.47	.41	.54	.46	.41	.52	.46	.40	.51	.45	.40	.38
7.0	.51	.43	.37	.51	.42	.36	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34
8.0	.47	.39	.33	.46	.38	.33	.45	.38	.32	.44	.37	.32	.43	.37	.32	.30
9.0	.43	.35	.29	.43	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.37	.31	.26	.25



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018年05月03日

Test Set: 5.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks: LG 5630 4000K LED78\*2 (KL30C-PD2)



WEC AND CCEC

Report number:

MANUFACTURER:			Address:					
NAME: iron +Transparent (KREAT 30W)			TYPE:			WEIGHT:		
SPECIFICATION:			DIMENSION: 1.5M			SERIAL No.:20180503001		

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.322	.183	.058	.315	.180	.057	.301	.173	.055	.289	.167	.054	.278	.161	.052	
2.0	.296	.162	.050	.289	.159	.049	.278	.154	.048	.267	.150	.047	.257	.145	.046	
3.0	.271	.144	.043	.266	.142	.043	.255	.138	.042	.246	.135	.041	.237	.131	.041	
4.0	.249	.129	.038	.244	.128	.038	.235	.125	.037	.227	.122	.037	.219	.119	.036	
5.0	.230	.117	.034	.225	.116	.034	.217	.113	.033	.210	.111	.033	.203	.108	.033	
6.0	.213	.107	.031	.209	.106	.030	.202	.103	.030	.195	.101	.030	.189	.099	.029	
7.0	.198	.098	.028	.195	.097	.028	.188	.095	.027	.182	.093	.027	.176	.092	.027	
8.0	.185	.090	.025	.182	.090	.025	.176	.088	.025	.171	.086	.025	.165	.085	.025	
9.0	.173	.084	.023	.170	.083	.023	.165	.082	.023	.160	.080	.023	.156	.079	.023	
10.0	.163	.078	.022	.160	.077	.022	.156	.076	.021	.151	.075	.021	.147	.074	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.181	.156	.133	.155	.134	.115	.106	.092	.079	.061	.053	.046	.020	.017	.015	
2.0	.173	.132	.098	.148	.114	.084	.101	.079	.059	.058	.046	.034	.019	.015	.011	
3.0	.165	.114	.074	.141	.099	.064	.097	.069	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.135	.087	.051	.093	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.149	.091	.047	.128	.078	.041	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.142	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.033	.116	.065	.029	.080	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.129	.069	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.004	
9.0	.123	.064	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.023	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

Test System:HOPPO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018年05月03日

Test Set: 5.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks: LG 5630 4000K LED78\*2 (KL30C-PD2)

Uncorrected UGR Table

Report number:

MANUFACTURER:						Address:				
NAME: iron +Transparent (KREAT 30W)						TYPE:			WEIGHT:	
SPECIFICATION:						DIMENSION: 1.5M			SERIAL No.:20180503001	
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	19.0	20.5	19.3	20.7	20.9	18.2	19.7	18.5	19.9	20.1
3H	21.0	22.4	21.3	22.6	22.9	18.8	20.2	19.1	20.5	20.7
4H	22.0	23.4	22.3	23.6	23.9	18.9	20.2	19.2	20.5	20.7
6H	23.1	24.3	23.4	24.6	24.9	18.8	20.1	19.1	20.3	20.6
8H	23.6	24.8	23.9	25.1	25.4	18.7	20.0	19.1	20.2	20.5
12H	24.1	25.3	24.5	25.6	25.9	18.7	19.9	19.0	20.2	20.5
4H 2H	19.5	20.8	19.8	21.1	21.3	18.8	20.2	19.1	20.4	20.7
3H	21.8	22.9	22.1	23.2	23.5	19.7	20.9	20.1	21.2	21.5
4H	23.0	24.1	23.4	24.4	24.7	19.9	21.0	20.3	21.3	21.7
6H	24.2	25.2	24.6	25.6	25.9	19.9	20.9	20.3	21.2	21.6
8H	24.9	25.8	25.3	26.1	26.5	19.9	20.8	20.3	21.1	21.5
12H	25.6	26.4	26.0	26.8	27.2	19.8	20.6	20.2	21.0	21.4
8H 4H	23.3	24.2	23.7	24.5	24.9	20.7	21.6	21.1	21.9	22.3
6H	24.8	25.6	25.2	26.0	26.4	20.9	21.7	21.4	22.1	22.5
8H	25.6	26.3	26.1	26.7	27.2	21.0	21.6	21.4	22.1	22.5
12H	26.5	27.1	27.0	27.6	28.1	20.9	21.5	21.4	22.0	22.4
12H 4H	23.3	24.1	23.7	24.5	24.9	20.9	21.7	21.3	22.1	22.5
6H	24.9	25.6	25.4	26.0	26.4	21.4	22.1	21.8	22.5	22.9
8H	25.8	26.4	26.3	26.9	27.3	21.6	22.2	22.1	22.6	23.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.5 / - 0.3				

CIE Pub.117 Corrected 3894 lm Total Lamp Luminous Flux. (8log(F/F0) = 4.7)

Test System:HOPPO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018年05月03日

Test Set: 5.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks: LG 5630 4000K LED78\*2 (KL30C-PD2)

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:	Address:		
NAME: iron +Transparent (KREAT 30W)	TYPE:	WEIGHT:	
SPECIFICATION:	DIMENSION: 1.5M	SERIAL No.:20180503001	

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	58	47	40	57	46	39	56	46	39	33
0.80	68	56	49	67	56	49	65	55	49	42
1.00	76	65	58	75	65	58	73	66	57	50
1.25	83	73	66	82	72	65	79	71	64	57
1.50	88	78	71	86	77	71	83	75	70	62
2.00	95	86	80	93	85	79	89	83	77	69
2.50	99	91	85	96	89	84	93	87	82	73
3.00	102	95	89	100	93	88	96	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	97	101	98	94	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

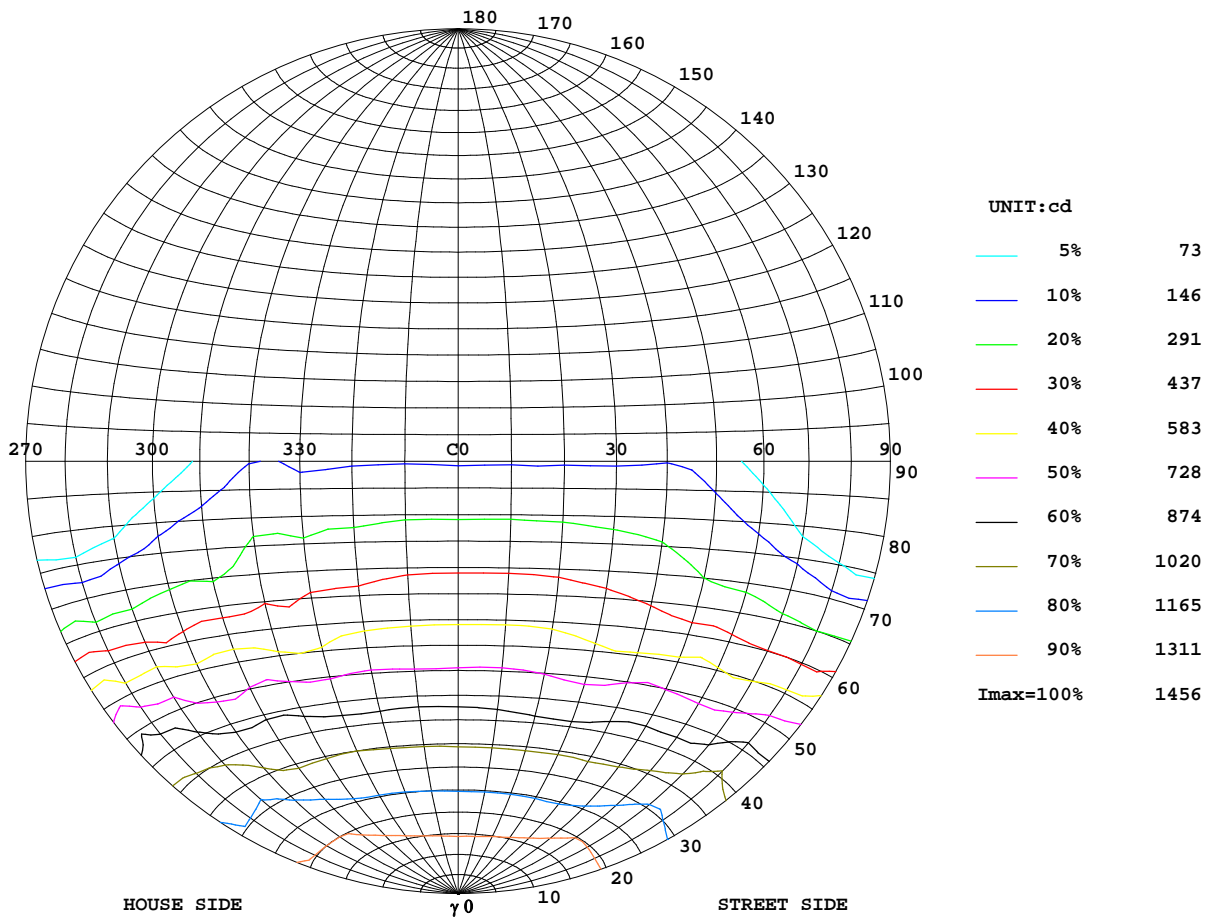
Test System:HOPPO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018年05月03日

Test Set: 5.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks: LG 5630 4000K LED78\*2 (KL30C-PD2)

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: iron +Transparent (KREAT 30W)	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1.5M	SERIAL No.:20180503001



Test System:HOP00 HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018年05月03日

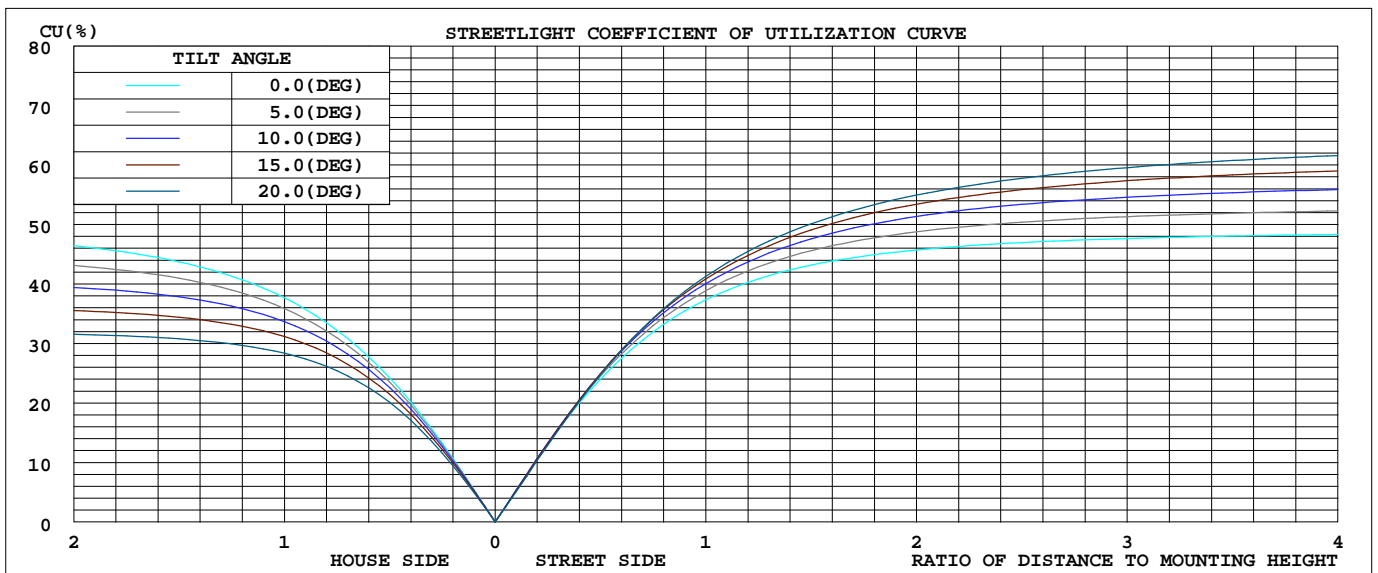
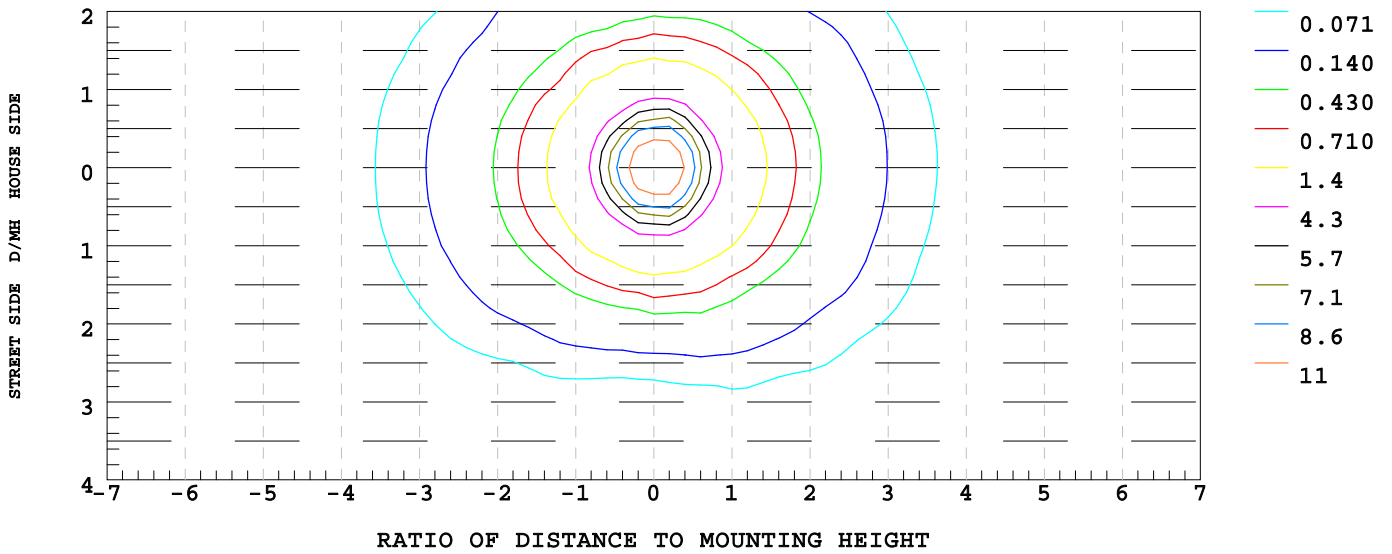
Test Set: 5.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks: LG 5630 4000K LED78\*2 (KL30C-PD2)

ISOLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: iron +Transparent (KREAT 30W)	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1.5M	SERIAL No.:20180503001

ILLUMINANCE AT MH=10 m, Enadir = 14.26 lx



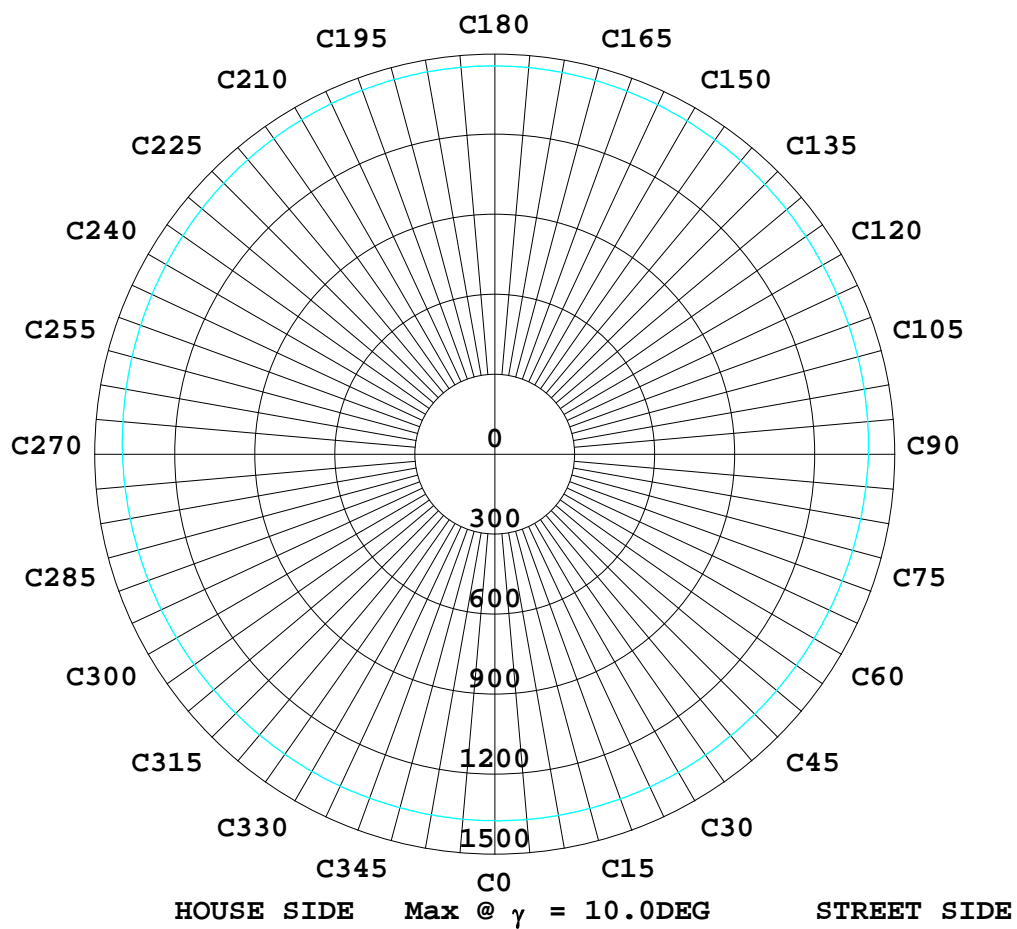
Test System:HOP00 HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018年05月03日

Test Set: 5.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks: LG 5630 4000K LED78\*2 (KL30C-PD2)

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: iron +Transparent (KREAT 30W)	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1.5M	SERIAL No.:20180503001



Test System:HOP00 HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018年05月03日

Test Set: 5.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks: LG 5630 4000K LED78\*2 (KL30C-PD2)

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

<b>MANUFACTURER:</b>	<b>Address:</b>	
<b>NAME: iron +Transparent (KREAT 30W)</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION: 1.5M</b>	<b>SERIAL No.:20180503001</b>

UNIT: cd

γ (DEG)	C(DEG)														
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
0.0	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426
5.0	1400	1400	1400	1401	1401	1401	1402	1403	1404	1404	1406	1407	1408	1410	1411
10.0	1374	1375	1375	1375	1375	1376	1377	1377	1377	1378	1379	1380	1382	1384	1387
15.0	1300	1301	1303	1305	1308	1311	1316	1322	1329	1338	1346	1347	1349	1351	1354
20.0	1227	1227	1228	1229	1231	1234	1238	1243	1250	1260	1272	1288	1307	1310	1307
25.0	1160	1160	1161	1161	1161	1160	1159	1156	1155	1163	1177	1196	1219	1244	1254
30.0	1093	1094	1094	1094	1092	1089	1085	1079	1076	1076	1081	1100	1124	1152	1180
35.0	1008	1007	1006	1004	1002	1002	1003	1008	1004	1008	1011	1017	1032	1049	1069
40.0	923	919	914	908	902	898	897	903	918	930	929	927	927	934	960
45.0	830	829	826	819	811	799	794	802	821	834	827	819	815	807	825
50.0	737	739	740	734	725	709	699	703	724	741	725	714	704	697	712
55.0	651	653	653	649	640	623	604	591	597	603	604	617	594	570	579
60.0	565	566	567	565	560	546	531	515	499	481	483	492	468	448	440
65.0	493	494	494	491	487	473	462	445	426	404	386	375	360	334	317
70.0	421	422	422	419	415	403	393	377	360	329	292	268	260	243	213
75.0	349	350	350	347	344	334	326	314	300	269	235	199	179	155	130
80.0	277	278	279	276	274	267	260	253	244	219	184	153	128	95.1	54.9
85.0	205	207	207	204	205	200	197	195	192	174	143	112	82.6	49.5	19.6
90.0	133	135	136	133	136	134	134	137	142	133	105	74.2	44.0	14.1	0.00

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018年05月03日

Test Set: 5.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks: LG 5630 4000K LED78\*2 (KL30C-PD2)

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

<b>MANUFACTURER:</b>	<b>Address:</b>	
<b>NAME: iron +Transparent (KREAT 30W)</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION: 1.5M</b>	<b>SERIAL No.:20180503001</b>

UNIT: cd

γ (DEG)	C(DEG)														
	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145
0.0	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426
5.0	1413	1415	1417	1419	1420	1421	1423	1424	1426	1427	1429	1431	1432	1434	1435
10.0	1390	1393	1397	1401	1403	1406	1409	1413	1416	1420	1424	1428	1432	1436	1439
15.0	1356	1359	1363	1368	1375	1381	1389	1396	1403	1410	1416	1422	1421	1419	1419
20.0	1304	1301	1300	1300	1316	1334	1353	1371	1388	1397	1387	1379	1374	1373	1374
25.0	1243	1233	1225	1220	1246	1275	1307	1340	1345	1331	1321	1313	1310	1311	1306
30.0	1181	1167	1157	1151	1180	1211	1246	1262	1253	1243	1233	1224	1211	1198	1187
35.0	1097	1093	1090	1091	1114	1143	1175	1167	1162	1159	1142	1119	1100	1086	1073
40.0	1008	1033	1002	975	1001	1038	1057	1059	1061	1053	1042	1022	1003	992	990
45.0	877	916	896	891	886	899	911	924	938	950	954	934	914	906	904
50.0	734	767	778	797	766	759	792	800	799	820	830	833	822	815	814
55.0	596	602	613	646	631	633	662	664	654	660	680	708	731	733	729
60.0	438	430	427	469	474	473	504	534	528	529	537	567	607	627	632
65.0	303	291	296	304	307	317	371	397	406	423	436	443	459	487	519
70.0	190	168	164	163	183	203	225	258	284	300	325	350	359	382	422
75.0	97.1	77.5	58.9	58.5	70.2	87.1	115	164	177	193	234	273	294	302	332
80.0	27.5	6.79	0.64	0.00	1.77	15.6	40.4	71.2	105	134	166	202	231	232	248
85.0	0.03	0.00	0.00	0.00	0.00	0.00	4.22	27.1	51.7	78.2	109	138	168	166	168
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.27	26.5	57.9	79.1	107	102	90.6

Test System:HOP00 HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018年05月03日

Test Set: 5.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks: LG 5630 4000K LED78\*2 (KL30C-PD2)



LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

<b>MANUFACTURER:</b>	<b>Address:</b>	
<b>NAME: iron +Transparent (KREAT 30W)</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION: 1.5M</b>	<b>SERIAL No.:20180503001</b>

UNIT: cd

C(DEG)\ γ (DEG)	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220
0.0	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426
5.0	1436	1437	1439	1440	1440	1441	1441	1441	1441	1440	1440	1439	1437	1436	1435
10.0	1443	1446	1449	1452	1454	1455	1456	1456	1456	1455	1453	1451	1449	1446	1442
15.0	1420	1422	1423	1425	1427	1429	1430	1431	1431	1431	1432	1432	1431	1431	1430
20.0	1378	1383	1389	1394	1398	1402	1405	1405	1404	1404	1402	1399	1394	1389	1385
25.0	1298	1292	1289	1286	1283	1283	1284	1286	1290	1297	1304	1311	1317	1323	1323
30.0	1181	1175	1171	1166	1163	1162	1163	1165	1171	1179	1188	1198	1206	1210	1213
35.0	1072	1075	1078	1081	1084	1087	1089	1091	1093	1095	1097	1101	1104	1103	1103
40.0	991	993	996	1001	1007	1012	1015	1017	1018	1015	1014	1013	1012	1008	1004
45.0	908	912	917	925	933	939	942	943	942	937	932	927	924	924	917
50.0	814	826	839	850	860	866	869	868	866	858	853	844	833	824	826
55.0	723	730	741	749	756	762	764	765	764	759	754	745	732	718	725
60.0	633	634	637	643	650	656	660	661	660	654	644	634	629	626	628
65.0	541	543	543	547	554	560	563	565	563	556	544	536	534	533	517
70.0	448	453	451	454	459	464	467	468	467	461	451	446	445	442	414
75.0	356	364	360	361	365	368	371	372	371	366	359	357	357	352	327
80.0	267	275	269	269	270	272	274	275	275	273	269	269	271	264	248
85.0	179	187	179	177	176	177	178	178	179	179	179	181	185	179	175
90.0	92.4	98.5	88.8	85.1	82.2	81.1	81.3	81.8	83.4	86.1	89.2	93.0	99.3	96.1	103

Test System:HOPPO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018年05月03日

Test Set: 5.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks: LG 5630 4000K LED78\*2 (KL30C-PD2)

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

<b>MANUFACTURER:</b>	<b>Address:</b>	
<b>NAME: iron +Transparent (KREAT 30W)</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION: 1.5M</b>	<b>SERIAL No.:20180503001</b>

UNIT: cd

C(DEG)\ γ (DEG)	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295
0.0	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426
5.0	1433	1432	1430	1428	1426	1424	1422	1421	1419	1417	1415	1413	1411	1409	1408
10.0	1438	1434	1429	1424	1419	1414	1409	1404	1400	1396	1392	1389	1386	1383	1380
15.0	1430	1429	1420	1411	1403	1394	1386	1378	1371	1364	1359	1355	1352	1349	1347
20.0	1383	1383	1386	1393	1384	1371	1357	1343	1329	1317	1313	1312	1311	1310	1310
25.0	1316	1315	1322	1334	1351	1350	1324	1298	1273	1248	1248	1250	1254	1262	1252
30.0	1220	1233	1243	1258	1277	1301	1288	1245	1206	1170	1172	1178	1187	1177	1145
35.0	1110	1124	1146	1170	1189	1207	1219	1175	1139	1111	1112	1118	1125	1082	1042
40.0	1000	1014	1040	1074	1104	1099	1085	1066	1048	1041	1027	1019	999	973	941
45.0	917	919	936	964	989	982	953	946	933	938	935	942	891	850	834
50.0	818	821	834	842	835	829	815	778	801	862	817	797	767	726	709
55.0	723	723	727	709	697	689	707	665	662	695	642	638	667	624	605
60.0	627	607	581	574	560	553	542	527	522	529	484	491	486	454	486
65.0	494	466	449	446	436	427	411	372	348	369	337	342	328	343	372
70.0	379	356	351	330	308	292	261	239	217	214	196	205	228	251	267
75.0	300	289	260	222	203	183	148	118	92.9	89.0	91.4	106	130	156	179
80.0	229	219	186	150	126	91.5	59.5	35.7	16.8	13.5	11.8	28.3	48.9	85.5	117
85.0	165	149	122	88.6	61.9	39.7	16.1	0.00	0.00	0.00	0.00	0.00	12.7	34.4	62.4
90.0	103	83.0	61.9	31.6	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.7

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018年05月03日

Test Set: 5.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks: LG 5630 4000K LED78\*2 (KL30C-PD2)

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

<b>MANUFACTURER:</b>	<b>Address:</b>	
<b>NAME: iron +Transparent (KREAT 30W)</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION: 1.5M</b>	<b>SERIAL No.:20180503001</b>

UNIT: cd

C(DEG)\ γ (DEG)	300	305	310	315	320	325	330	335	340	345	350	355
0.0	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426	1426
5.0	1406	1405	1404	1403	1402	1401	1401	1400	1400	1400	1400	1400
10.0	1378	1377	1376	1374	1374	1373	1373	1373	1373	1373	1373	1373
15.0	1346	1344	1343	1336	1328	1321	1316	1311	1307	1304	1302	1301
20.0	1307	1290	1276	1264	1256	1249	1244	1239	1236	1233	1230	1228
25.0	1228	1207	1191	1179	1171	1170	1169	1168	1166	1164	1162	1161
30.0	1121	1103	1092	1092	1092	1093	1093	1094	1095	1095	1094	1093
35.0	1010	1006	1008	1011	1017	1019	1014	1012	1012	1011	1011	1009
40.0	934	939	943	938	924	920	917	919	923	925	926	925
45.0	834	853	854	837	823	818	819	826	829	831	831	830
50.0	702	733	747	729	713	718	732	739	738	736	735	735
55.0	615	644	636	603	581	599	635	648	649	648	649	651
60.0	524	509	499	478	485	514	535	546	556	562	565	566
65.0	384	388	411	434	420	453	456	461	477	488	493	494
70.0	288	278	317	383	364	376	391	393	407	418	421	422
75.0	196	212	248	315	313	305	325	326	338	347	350	350
80.0	146	166	196	248	261	241	258	262	270	278	279	278
85.0	94.9	123	150	191	207	181	191	197	203	208	208	206
90.0	47.1	83.1	110	141	151	121	125	134	137	139	137	134

Test System:HOPPO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018年05月03日

Test Set: 5.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks: LG 5630 4000K LED78\*2 (KL30C-PD2)