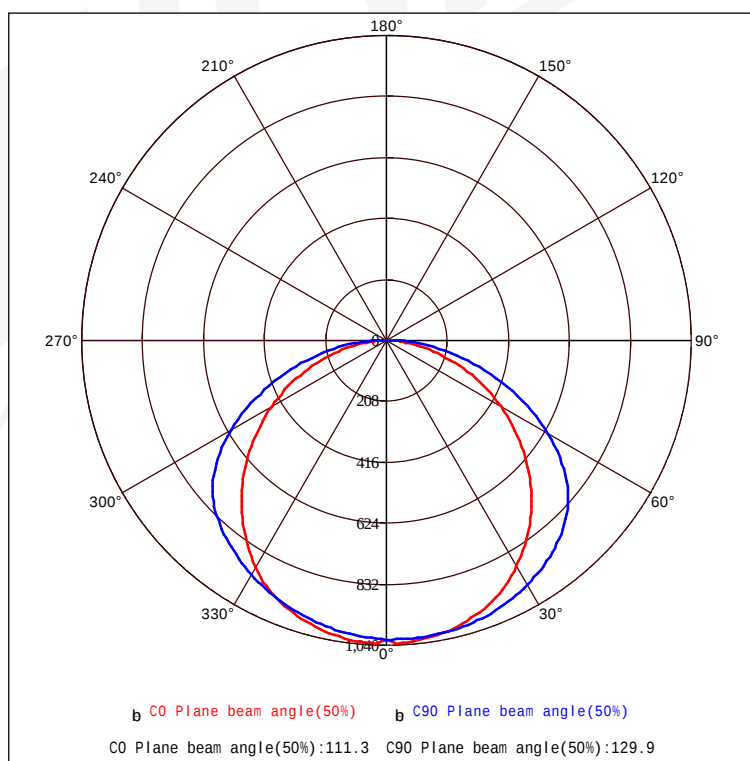


Goniophotometer Test Report

Measured Para U: 217.4V I: 326.0mA P: 39.20W PF: 0.553 Test LM: 3661.28lm						
Lamp Name: LED LOUVER FITTING			Lamp Type:		Weight(kg):	
Lamp ID: LP-LF60A60 40W			Lamp Spec:		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LP-LF60A60 40W		Peak Value(cd)	1035.4	Efficiency(lm/w)	93.4
Nominal P(w)		1.0	Position	0.0,0.0	UP(C0-C180)	0.0
Rated Volt(v)		220.0	Total Flux(lm)	3661.28	Down(C0-C180)	51.5
Rated Flux(lm)		1.0	Up Flux Rate(%)	0.0	UP(C180-C360)	0.0
Illuminant QTY		1	Dw Flux Rate(%)	100.0	Down(C180-C360)	48.5

Planar Intensity Distribution Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

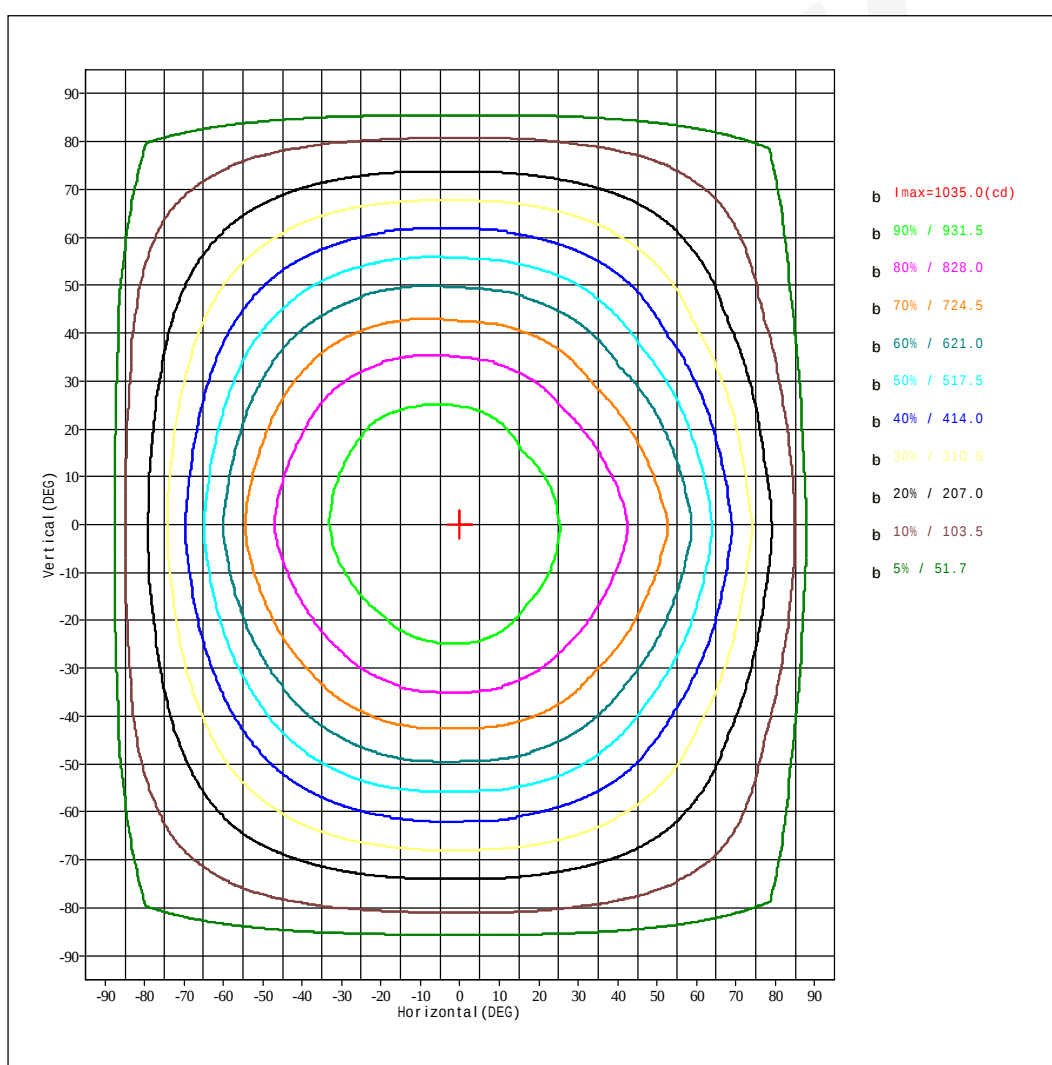
Humidity(%): 60

Date: 2023-11-02

Remark:

Measured Para U: 217.4V I: 326.0mA P: 39.20W PF: 0.553 Test LM: 3661.28lm		
Lamp Name: LED LOUVER FITTING	Lamp Type:	Weight(kg):
Lamp ID: LP-LF60A60 40W	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Planar IsoCandela Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

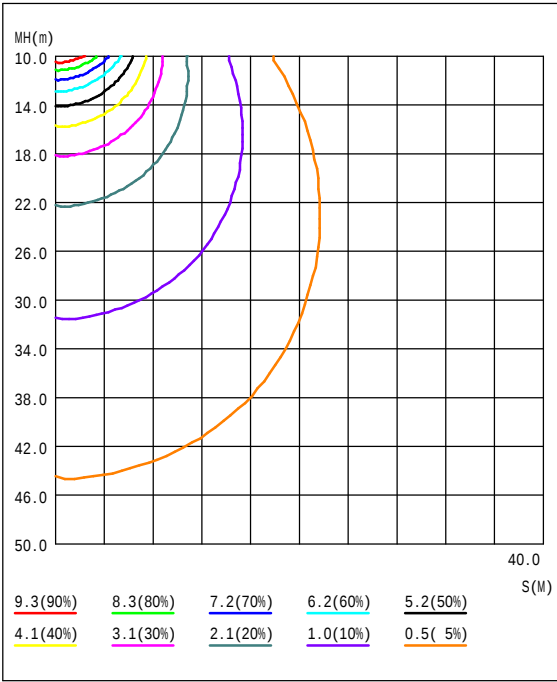
Humidity(%): 60

Date: 2023-11-02

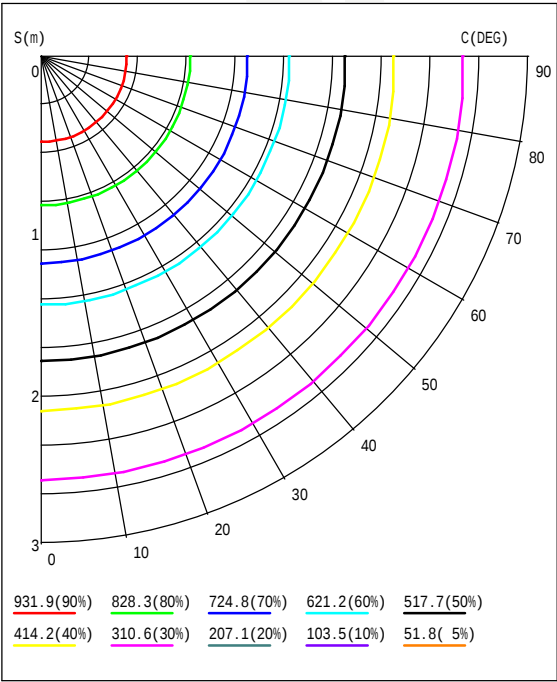
Remark:

Measured Para U: 217.4V I: 326.0mA P: 39.20W PF: 0.553 Test LM: 3661.28lm		
Lamp Name: LED LOUVER FITTING	Lamp Type:	Weight(kg):
Lamp ID: LP-LF60A60 40W	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Spacial ISOLUX Curve



Planar ISOLUX Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-11-02

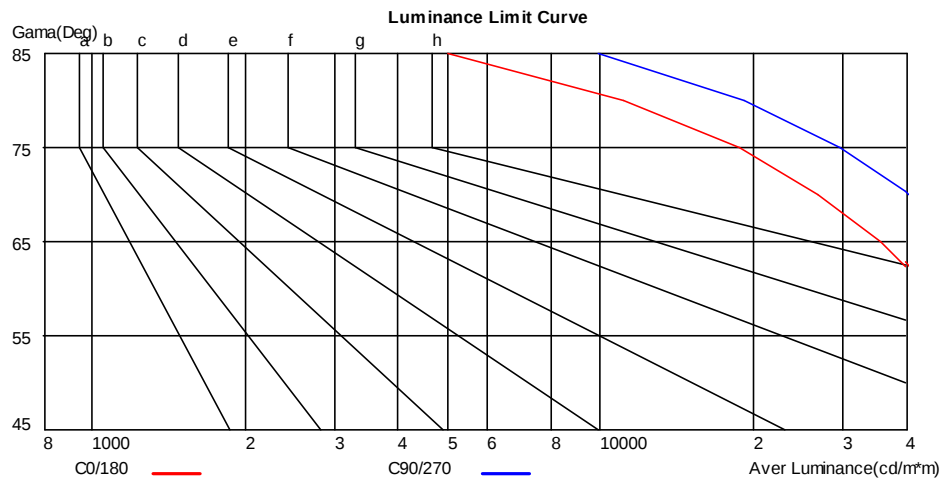
Remark:

Measured Para U: 217.4V I: 326.0mA P: 39.20W PF: 0.553 Test LM: 3661.28lm		
Lamp Name: LED LOUVER FITTING	Lamp Type:	Weight(kg):
Lamp ID: LP-LF60A60 40W	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Luminance Limit Curve

Aver Luminance(cd/m²m)									
Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	68639.8	60903.1	52709.1	44210.1	35626.2	26939.4	18763.8	11133.6	5026.5
C90	85933.0	80092.3	72292.7	62548.1	51978.3	40709.7	29669.0	19170.7	9925.5

Glare									
Glare	Class	Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



Gama Angle Range: -90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

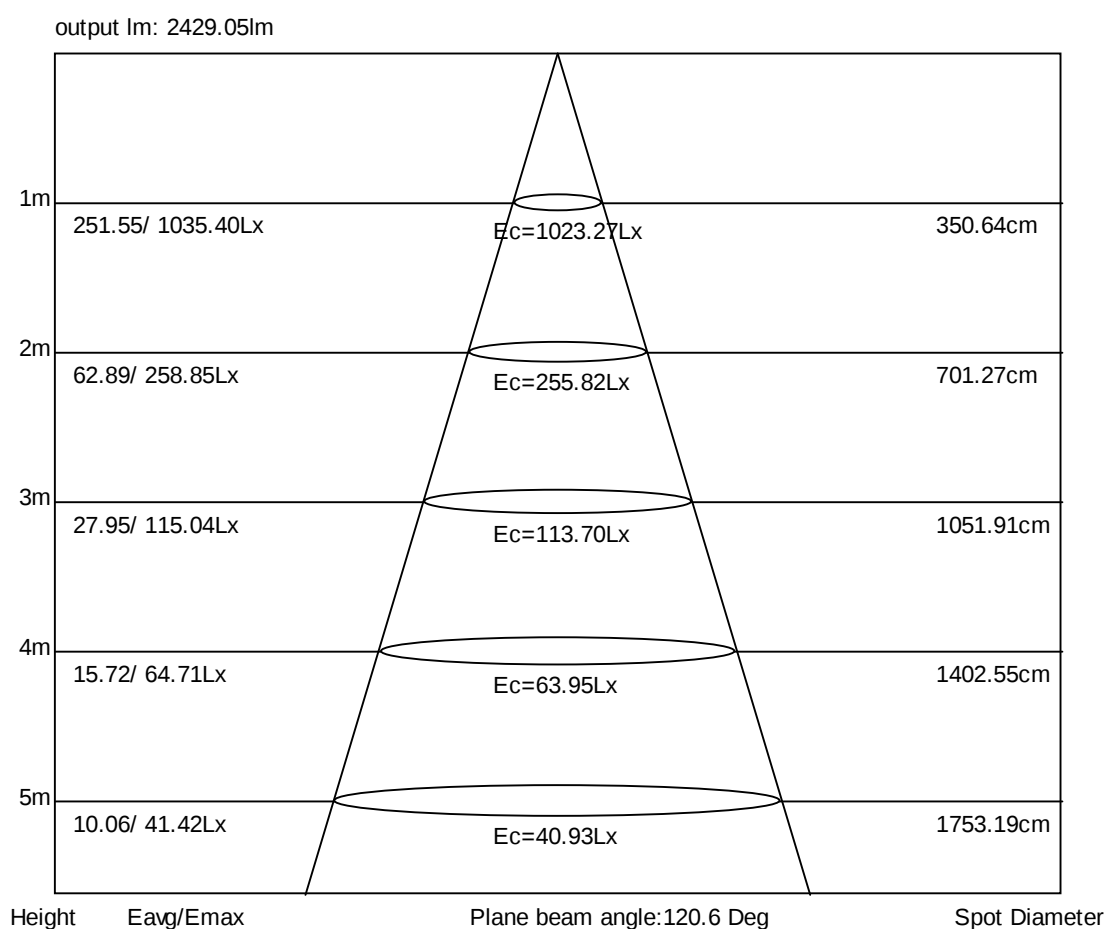
Humidity(%): 60

Date: 2023-11-02

Remark:

Measured Para U: 217.4V I: 326.0mA P: 39.20W PF: 0.553 Test LM: 3661.28lm		
Lamp Name: LED LOUVER FITTING	Lamp Type:	Weight(kg):
Lamp ID: LP-LF60A60 40W	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m ²):	Protect Angle(Deg):

Average Illumination



Gama Angle Range: -90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

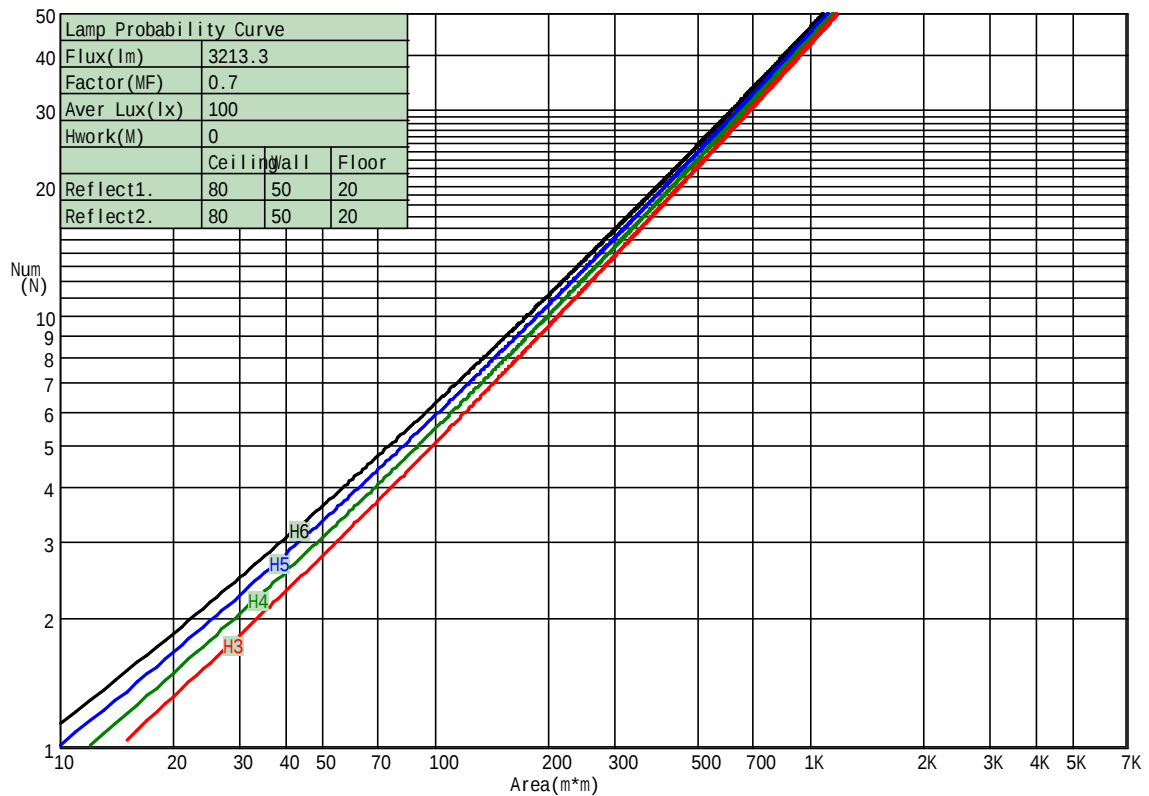
Humidity(%): 60

Date: 2023-11-02

Remark:

Measured Para U: 217.4V I: 326.0mA P: 39.20W PF: 0.553 Test LM: 3661.28lm		
Lamp Name: LED LOUVER FITTING	Lamp Type:	Weight(kg):
Lamp ID: LP-LF60A60 40W	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m ²):	Protect Angle(Deg):

Lamp Probability Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-11-02

Remark:

Measured Para U: 217.4V I: 326.0mA P: 39.20W PF: 0.553 Test LM: 3661.28lm		
Lamp Name: LED LOUVER FITTING	Lamp Type:	Weight(kg):
Lamp ID: LP-LF60A60 40W	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m ²):	Protect Angle(Deg):

UF Table

Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5
Wall	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3
Floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
0.60	52	37	27	50	36	27	47	35	26
0.80	56	40	29	54	39	28	50	37	27
1.00	59	42	30	57	41	29	52	38	28
1.25	62	44	31	59	42	30	54	39	28
1.50	64	46	31	61	44	30	55	40	29
2.00	67	48	32	63	46	31	56	41	29
2.50	68	49	32	64	46	31	57	42	29
3.00	70	50	33	65	47	31	57	42	28
4.00	71	51	33	66	48	31	58	42	28
5.00	72	52	33	67	48	32	58	43	28

CoEfficients Utilization

Ceiling(%)		0			0			0			0			0	
Wall(%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Floor (%)		0			0			0			0			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	1.03	0.99	0.95	1.01	0.97	0.93	0.97	0.93	0.9	0.93	0.9	0.87	0.89	0.87	0.85
2	0.89	0.82	0.76	0.88	0.81	0.75	0.84	0.78	0.74	0.81	0.76	0.72	0.78	0.74	0.7
3	0.78	0.7	0.63	0.77	0.69	0.62	0.74	0.67	0.61	0.71	0.65	0.6	0.68	0.63	0.59
4	0.69	0.6	0.53	0.68	0.59	0.53	0.65	0.58	0.52	0.63	0.56	0.51	0.61	0.55	0.5
5	0.61	0.52	0.45	0.6	0.52	0.45	0.58	0.51	0.45	0.56	0.49	0.44	0.54	0.48	0.44
6	0.55	0.46	0.39	0.54	0.46	0.39	0.52	0.45	0.39	0.51	0.44	0.39	0.49	0.43	0.38
7	0.5	0.41	0.35	0.49	0.41	0.35	0.48	0.4	0.34	0.46	0.39	0.34	0.45	0.39	0.34
8	0.45	0.37	0.31	0.45	0.36	0.31	0.43	0.36	0.31	0.42	0.35	0.3	0.41	0.35	0.3
9	0.42	0.33	0.28	0.41	0.33	0.28	0.4	0.33	0.27	0.39	0.32	0.27	0.38	0.32	0.27
10	0.38	0.3	0.25	0.38	0.3	0.25	0.37	0.3	0.25	0.36	0.29	0.25	0.35	0.29	0.25

Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-11-02

Remark:

Measured Para U: 217.4V I: 326.0mA P: 39.20W PF: 0.553 Test LM: 3661.28lm		
Lamp Name: LED LOUVER FITTING	Lamp Type:	Weight(kg):
Lamp ID: LP-LF60A60 40W	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Wall Exitance CoEfficients

Ceiling(%)		0			0			0			0			0	
Wall(%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Floor (%)		0			0			0			0			0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.32	0.18	0.06	0.32	0.18	0.06	0.3	0.17	0.06	0.29	0.17	0.05	0.28	0.16	0.05
2	0.3	0.17	0.05	0.3	0.16	0.05	0.28	0.16	0.05	0.27	0.15	0.05	0.26	0.15	0.05
3	0.28	0.15	0.04	0.27	0.15	0.04	0.26	0.14	0.04	0.25	0.14	0.04	0.24	0.13	0.04
4	0.26	0.13	0.04	0.25	0.13	0.04	0.24	0.13	0.04	0.23	0.12	0.04	0.22	0.12	0.04
5	0.24	0.12	0.03	0.23	0.12	0.03	0.22	0.12	0.03	0.21	0.11	0.03	0.21	0.11	0.03
6	0.22	0.11	0.03	0.21	0.11	0.03	0.21	0.11	0.03	0.2	0.1	0.03	0.19	0.1	0.03
7	0.2	0.1	0.03	0.2	0.1	0.03	0.19	0.1	0.03	0.19	0.1	0.03	0.18	0.09	0.03
8	0.19	0.09	0.03	0.19	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.03	0.17	0.09	0.03
9	0.18	0.09	0.02	0.17	0.08	0.02	0.17	0.08	0.02	0.16	0.08	0.02	0.16	0.08	0.02
10	0.17	0.08	0.02	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02	0.15	0.08	0.02

Ceiling Cavity Exitance CoEfficients

Ceiling(%)		0			0			0			0			0	
Wall(%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Floor (%)		0			0			0			0			0	
0	0.19	0.19	0.19	0.16	0.16	0.16	0.11	0.11	0.11	0.06	0.06	0.06	0.02	0.02	0.02
1	0.18	0.16	0.13	0.16	0.13	0.11	0.11	0.09	0.08	0.06	0.05	0.05	0.02	0.02	0.01
2	0.17	0.13	0.1	0.15	0.11	0.08	0.1	0.08	0.06	0.06	0.05	0.03	0.02	0.01	0.01
3	0.17	0.11	0.07	0.14	0.1	0.06	0.1	0.07	0.04	0.06	0.04	0.03	0.02	0.01	0.01
4	0.16	0.1	0.06	0.14	0.09	0.05	0.09	0.06	0.04	0.05	0.04	0.02	0.02	0.01	0.01
5	0.15	0.09	0.05	0.13	0.08	0.04	0.09	0.05	0.03	0.05	0.03	0.02	0.02	0.01	0.01
6	0.14	0.08	0.04	0.12	0.07	0.03	0.09	0.05	0.02	0.05	0.03	0.01	0.02	0.01	0
7	0.14	0.08	0.03	0.12	0.07	0.03	0.08	0.05	0.02	0.05	0.03	0.01	0.02	0.01	0
8	0.13	0.07	0.03	0.11	0.06	0.02	0.08	0.04	0.02	0.05	0.03	0.01	0.01	0.01	0
9	0.12	0.06	0.02	0.11	0.06	0.02	0.07	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0
10	0.12	0.06	0.02	0.1	0.05	0.02	0.07	0.04	0.01	0.04	0.02	0.01	0.01	0.01	0

Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-11-02

Remark:

Measured Para U: 217.4V I: 326.0mA P: 39.20W PF: 0.553 Test LM: 3661.28lm		
Lamp Name: LED LOUVER FITTING	Lamp Type:	Weight(kg):
Lamp ID: LP-LF60A60 40W	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Ring-shaped Flux Data Table

Gm\C(Deg)	0	45	90	135	180	225	270	315	Range	Ring	T(lm)
5	1030	1027	1021	1014	1032	1018	1012	1006	0-5	24.4	24.4
10	1019	1023	1018	1008	1020	1004	1001	993	5-10	72.6	97.1
15	998	1012	1011	995	1001	983	986	973	10-15	119	216
20	971	995	999	976	973	958	967	947	15-20	162	378
25	934	970	982	950	937	926	945	916	20-25	201	579
30	883	939	960	917	887	889	919	878	25-30	235	814
35	824	900	934	875	827	846	891	830	30-35	261	1076
40	759	850	901	820	761	789	859	773	35-40	280	1356
45	686	788	859	756	687	723	820	705	40-45	290	1646
50	609	716	801	683	610	646	767	628	45-50	290	1936
55	527	631	723	599	529	559	695	541	50-55	279	2216
60	442	539	625	512	445	467	603	452	55-60	257	2472
65	356	442	520	421	360	375	500	361	60-65	225	2698
70	269	345	407	330	276	283	394	272	65-70	187	2885
75	188	251	297	241	191	193	290	185	70-75	144	3029
80	111	162	192	157	117	112	189	107	75-80	99.5	3128
85	50.3	90.4	99.3	87.3	49.5	47.8	106	42.3	80-85	57.6	3186
90	35.9	34.7	42.5	37.7	26.7	27.4	30.3	24.6	85-90	27.4	3213
95									90-95		
100									95-100		
105									100-105		
110									105-110		
115									110-115		
120									115-120		
125									120-125		
130									125-130		
135									130-135		
140									135-140		
145									140-145		
150									145-150		
155									150-155		
160									155-160		
165									160-165		
170									165-170		
175									170-175		
180									175-180		

Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-11-02

Remark:

Measured Para U: 217.4V I: 326.0mA P: 39.20W PF: 0.553 Test LM: 3661.28lm		
Lamp Name: LED LOUVER FITTING	Lamp Type:	Weight(kg):
Lamp ID: LP-LF60A60 40W	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

CD Table

Gm\C(Deg)	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340
5.0	1030	1029	1028	1025	1022	1019	1016	1016	1024	1032	1026	1019	1016	1013	1011	1008	1009	1020
10.0	1019	1021	1022	1021	1019	1016	1011	1009	1015	1020	1013	1005	1003	1002	999	996	996	1007
15.0	998	1004	1011	1012	1011	1007	1000	996	998	1001	993	985	984	986	983	977	976	987
20.0	971	981	992	996	998	994	984	976	974	973	966	959	961	965	963	954	950	961
25.0	934	950	966	974	979	975	961	949	943	937	932	927	932	940	938	925	918	926
30.0	883	908	933	946	956	951	931	914	900	887	888	889	899	912	910	891	878	881
35.0	824	857	892	911	927	921	895	870	848	827	836	844	861	881	878	850	830	827
40.0	759	799	840	867	890	884	847	814	787	761	773	786	812	844	840	801	771	765
45.0	686	731	777	811	844	837	790	749	718	687	703	719	755	799	795	743	703	695
50.0	609	656	704	744	782	775	722	675	642	610	626	642	686	741	737	673	626	617
55.0	527	573	620	661	703	696	640	592	560	529	542	556	603	665	661	592	540	533
60.0	442	484	528	567	606	601	549	504	474	445	455	465	512	573	570	501	451	446
65.0	356	394	433	468	503	498	453	414	387	360	367	373	416	473	470	407	360	358
70.0	269	303	337	365	394	390	355	324	299	276	279	282	320	370	368	312	272	271
75.0	188	215	244	266	287	285	259	236	213	191	192	193	225	269	267	220	186	187
80.0	111	134	157	172	185	184	168	152	134	117	114	112	137	172	171	134	108	110
85.0	50.3	67.8	86	93.3	97.3	96.6	91.2	83.2	66.1	49.5	48.8	48	66.8	93	91.8	63.1	43.2	46.8
90.0	35.9	35.4	34.8	37.3	40.8	41.5	39.3	36.5	31.5	26.7	27	27.3	28.3	29.6	29	26.5	25.9	30.9
95.0																		
100.0																		
105.0																		
110.0																		
115.0																		
120.0																		
125.0																		
130.0																		
135.0																		
140.0																		
145.0																		
150.0																		
155.0																		
160.0																		
165.0																		
170.0																		
175.0																		
180.0																		

Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-11-02

Remark: