

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

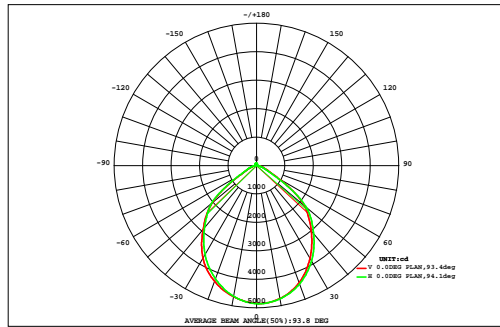
Maximum Intensity (Luminaire orientation as tested.)		404.6 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax At 50% of Imax At 90% of Imax	127.3V x 127.5H 94.1V x 93.2H 38.5V x 39.1H
Beam Flux	Total To 10% of Imax To 50% of Imax To 90% of Imax	864.2 lumens per klm. 797.6 lumens per klm. 599.5 lumens per klm. 139.5 lumens per klm.
	Upward LOR Downward LOR	3.0 % 83.4 %
Luminaire Efficiency(Light Output Ratio)		86.4 %

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:XW  
Test Date:2019-04-09

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks: ATK472-60-JL3030 5000K Ra70 C15432 STRA

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.4V I:0.2743A P:60.23W PF:0.9533 Lamp Flux:12000x1 lm		
NAME: ATK472	TYPE:	WEIGHT:
SPEC.:60W	DIM.:	SERIAL No.:20190529004
MFR.: AXLUX	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:172.16lm/W	
MODEL	JL3030 4000k Ra70	Imax(cd)	4855
NOMINAL POWER(W)	60	AVAILABILITY(%)	79.8
RATED VOLTAGE(V)	230	Avai. FLUX(lm)	9570
NOMINAL FLUX(lm)	12000	LOR(%)	86.4
LAMPS INSIDE	1	TOTAL FLUX(lm)	10369
TEST VOLTAGE(V)	230	q @50%(H,V)	93,94DEG

VERTICAL( DEG)	AREA FLUX DIAGRAM															UNIT:lm		F t	F a		
	0.05	0.16	0.27	0.40	0.55	0.72	0.90	1.04	1.12	1.13	1.06	0.92	0.74	0.56	0.40	0.27	0.17			0.10	
90	0.05	0.16	0.27	0.40	0.55	0.72	0.90	1.04	1.12	1.13	1.06	0.92	0.74	0.56	0.40	0.27	0.17	0.10	10.6	0.00	
80	0.05	0.20	0.53	1.14	1.99	3.15	4.31	5.01	5.24	5.27	5.10	4.38	3.20	2.05	1.18	0.56	0.23	0.10	43.7	0.00	
70	0.06	0.33	1.17	2.83	5.18	8.79	12.9	14.6	14.6	14.7	14.9	13.1	8.94	5.23	2.87	1.20	0.39	0.12	122	53.0	
60	0.07	0.53	2.04	5.42	11.5	21.9	34.8	43.4	47.3	47.5	43.8	34.5	21.8	11.6	5.43	2.05	0.61	0.14	334	311	
50	0.08	0.75	2.99	9.14	23.2	43.7	62.2	74.8	81.7	82.0	75.3	62.5	43.6	22.9	9.07	2.98	0.88	0.16	598	584	
40	0.09	0.96	3.93	13.7	36.7	60.2	80.6	96.8	105	105	96.2	80.3	60.3	36.3	13.4	3.91	1.16	0.19	795	784	
30	0.11	1.14	4.76	18.7	45.9	71.6	96.4	115	125	125	114	94.4	70.7	45.6	18.2	4.93	1.41	0.21	954	944	
	0.11	1.25	5.35	22.5	51.3	79.7	107	128	139	139	127	105	77.5	51.1	23.2	5.94	1.62	0.23	1064	1055	
	0.12	1.30	5.48	24.0	53.8	83.6	112	133	145	145	133	110	82.6	55.1	26.8	6.62	1.76	0.25	1119	1110	
	0.12	1.34	5.71	24.7	54.5	84.5	113	132	143	144	133	111	83.2	55.4	27.4	6.91	1.81	0.25	1122	1113	
	0.13	1.38	5.99	24.5	53.1	80.7	107	125	134	135	124	103	77.6	51.9	25.3	6.74	1.76	0.24	1057	1048	
	0.13	1.34	5.64	21.3	47.0	71.0	93.6	110	119	119	109	91.2	68.5	45.6	21.0	6.02	1.63	0.23	931	922	
-30	0.12	1.22	4.81	15.2	37.0	58.9	77.1	90.7	97.8	97.7	89.7	75.2	57.0	35.9	15.3	4.97	1.44	0.22	760	749	
-40	0.11	1.06	3.74	9.99	23.4	42.6	58.5	69.5	74.7	74.4	68.6	57.2	41.4	23.3	10.2	3.84	1.21	0.20	564	549	
-50	0.10	0.85	2.68	6.18	12.2	21.7	32.5	40.3	43.0	43.0	40.2	32.2	21.9	12.6	6.34	2.76	0.95	0.18	320	296	
-60	0.10	0.64	1.76	3.57	6.07	9.48	12.9	14.5	14.4	14.5	14.8	13.2	9.78	6.27	3.69	1.83	0.71	0.16	128	52.6	
-70	0.09	0.48	1.06	1.88	2.94	4.16	5.31	6.03	6.19	6.24	6.17	5.48	4.30	3.06	1.97	1.12	0.53	0.14	57.2	0.00	
-80	0.09	0.39	0.70	1.01	1.34	1.66	1.96	2.20	2.29	2.31	2.25	2.02	1.72	1.40	1.05	0.72	0.42	0.14	23.7	0.00	
-90	0.09	0.39	0.70	1.01	1.34	1.66	1.96	2.20	2.29	2.31	2.25	2.02	1.72	1.40	1.05	0.72	0.42	0.14	23.7	0.00	
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL( DEG)	20	30	40	50	60	70	80	90				
F t	1.74	15.3	58.6	206	468	748	1013	1202	1298	1300	1198	996	735	466	213	63.4	18.7	3.24	10004	---	
F a	0.00	0.00	15.5	178	443	724	988	1177	1270	1272	1172	972	711	441	185	21.6	0.00	0.00	---	9570	

one-half-peak spread: U:46.8,D:47.8 , L:46.3,R:47.5 NEMA Beam Type: Type 6

H <sub>b</sub> Range:-90 - 90DEG	V(B) Range:-180 - 180DEG
H <sub>b</sub> Interval: 0.5DEG	V(B) Interval: 0.5DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.290
Temperature:25.3DEG	Humidity:65.0%
Operators:XW	Test Distance:9.000m [K=1.0000]
Test Date:2019-04-09	Remarks: ATK472-60-JL3030 5000K Ra70 C15432 STRA

ISOCANDELA DIAGRAM

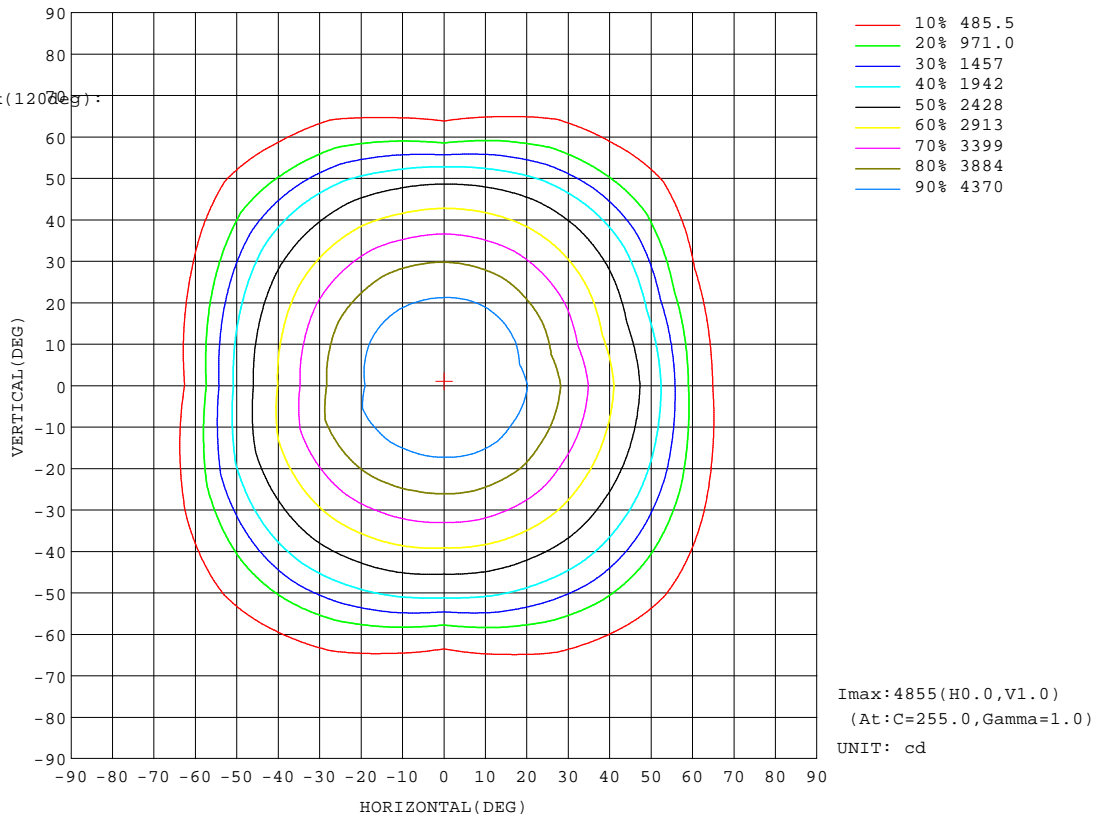
Test:U:230.4V I:0.2743A P:60.23W PF:0.9533 Lamp Flux:12000x1 lm		
NAME: ATK472	TYPE:	WEIGHT:
SPEC.:60W	DIM.:	SERIAL No.:20190529004
MFR.: AXLUX	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

6766.5 lm  
 %lum = 65.3%  
 %lamp = 56.4%

Conical surface Flux(120deg):

9156.7 lm  
 %lum = 88.3%  
 %lamp = 76.3%

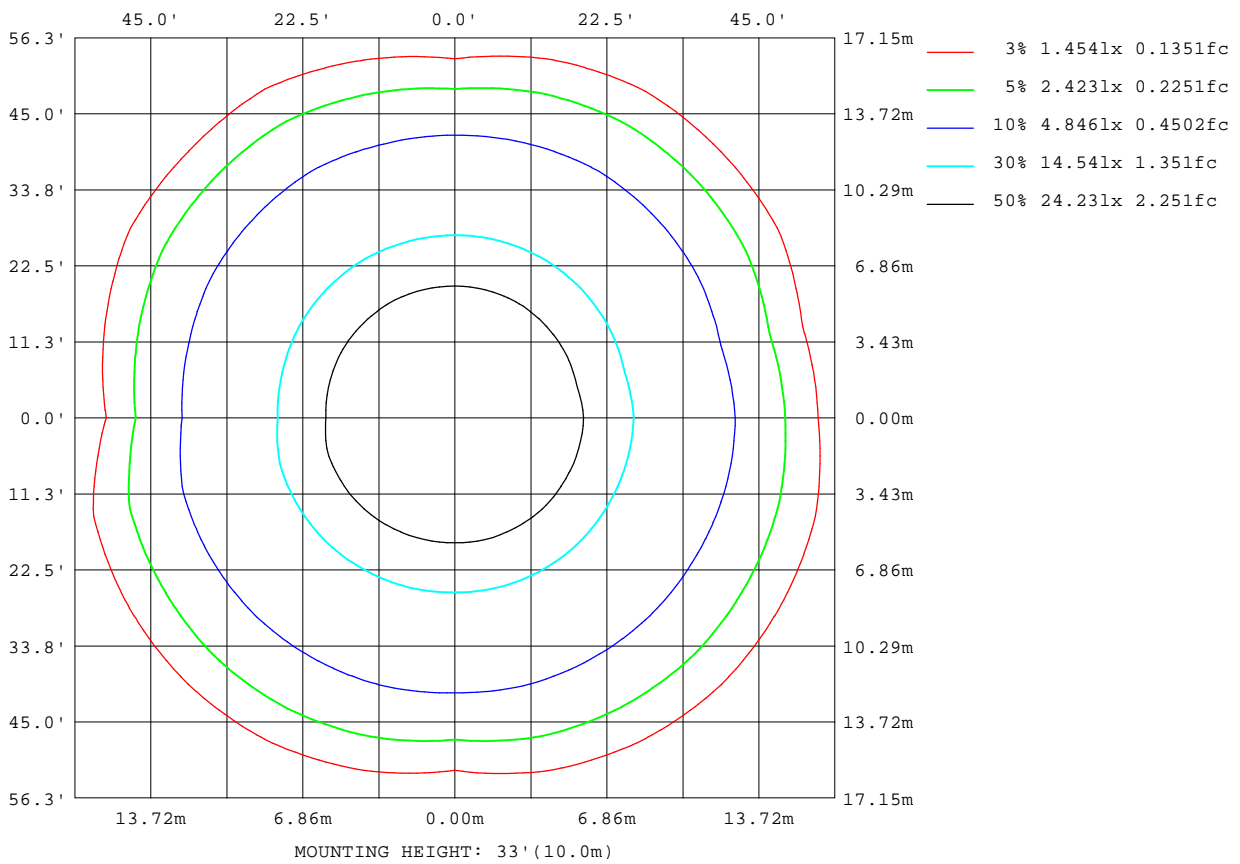


H(b) Range:-90 - 90DEG  
 H(b) Interval: 0.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XW  
 Test Date:2019-04-09

V(B) Range:-180 - 180DEG  
 V(B) Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.290  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks: ATK472-60-JL3030 5000K Ra70 C15432 STRA

ISOLUX DIAGRAM

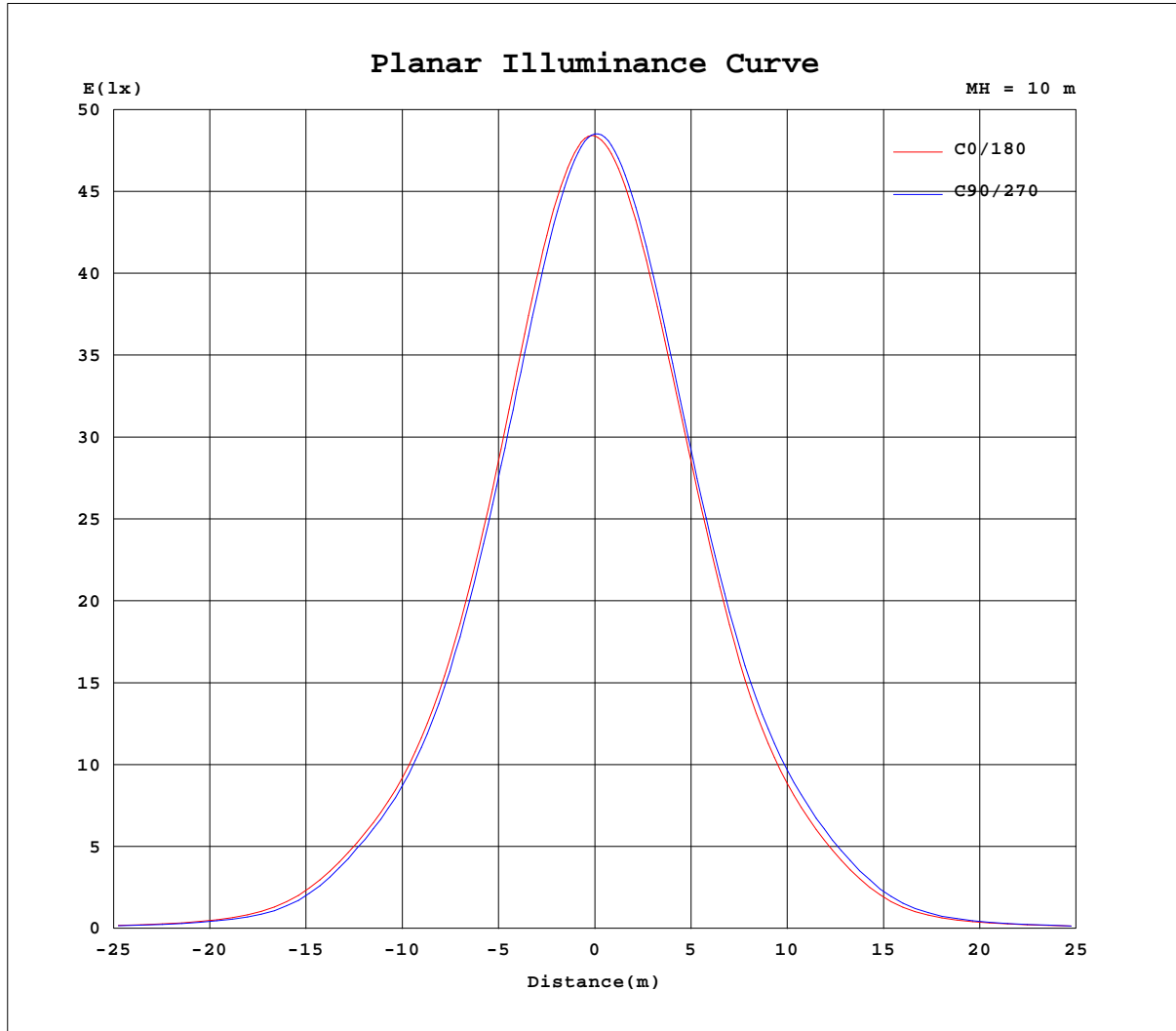
Test:U:230.4V I:0.2743A P:60.23W PF:0.9533 Lamp Flux:12000x1 lm		
NAME: ATK472	TYPE:	WEIGHT:
SPEC.:60W	DIM.:	SERIAL No.:20190529004
MFR.: AXLUX	SUR.:	PROTECTION ANGLE:



H<sub>(b)</sub> Range:-90 - 90DEG  
 H<sub>(b)</sub> Interval: 0.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XW  
 Test Date:2019-04-09

V(B) Range:-180 - 180DEG  
 V(B) Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.290  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks: ATK472-60-JL3030 5000K Ra70 C15432 STRA

Planar Illuminance Curve



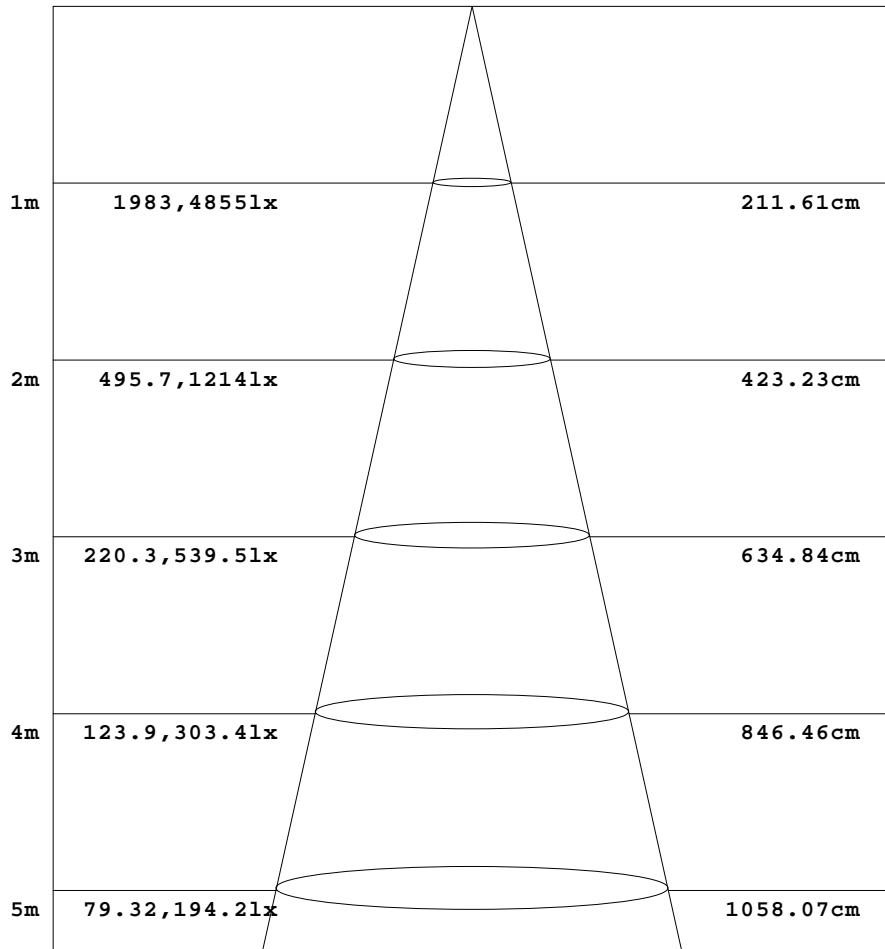
H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 0.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XW  
 Test Date:2019-04-09

V(B) Range:-180 - 180DEG  
 V(B) Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.290  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks: ATK472-60-JL3030 5000K Ra70 C15432 STRA

AAI Figure

Test:U:230.4V I:0.2743A P:60.23W PF:0.9533 Lamp Flux:12000x1 lm		
NAME: ATK472	TYPE:	WEIGHT:
SPEC.:60W	DIM.:	SERIAL No.:20190529004
MFR.: AXLUX	SUR.:	PROTECTION ANGLE:

Flux out:7164 lm



Height Eavg, Emax Angle:93.23deg Diameter

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 0.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XW  
 Test Date:2019-04-09

V(B) Range:-180 - 180DEG  
 V(B) Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.290  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks: ATK472-60-JL3030 5000K Ra70 C15432 STRA

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.4V I:0.2743A P:60.23W PF:0.9533 Lamp Flux:12000x1 lm		
NAME: ATK472	TYPE:	WEIGHT:
SPEC.:60W	DIM.:	SERIAL No.:20190529004
MFR.: AXLUX	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

H( DEG) V( DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	21.1	24.1	27.7	31.7	36.1	40.6	45.2	49.6	53.9	57.8	61.1	64.6	69.0	74.5	80.5	86.7	92.6	97.4	99.0
-170	21.1	25.6	30.5	35.7	41.1	46.9	53.0	59.2	65.8	72.6	79.7	87.4	93.3	97.2	100	103	104	103	102
-160	21.1	26.9	32.9	39.1	45.5	52.3	59.5	67.1	73.9	78.6	83.1	87.1	90.7	93.8	96.6	98.6	100.0	100	100
-150	21.1	28.1	35.1	42.0	49.2	56.6	63.0	67.2	71.4	75.6	79.8	83.4	86.4	89.0	91.3	93.1	94.1	94.5	94.2
-140	21.1	29.0	36.8	44.5	52.1	57.6	60.8	64.3	67.9	71.5	74.8	78.1	80.9	83.3	85.2	86.4	87.2	87.5	87.3
-130	21.1	29.8	38.2	46.3	53.5	55.7	58.2	60.9	63.7	66.5	69.3	71.9	74.3	76.4	78.0	79.2	80.0	80.5	80.6
-120	21.1	30.3	39.2	47.7	52.2	53.8	55.5	57.4	59.3	61.3	63.3	65.3	67.2	68.7	70.0	70.9	71.6	72.1	72.3
-110	21.1	30.6	39.8	48.7	51.0	51.9	53.0	54.1	55.2	56.4	57.6	58.9	60.0	61.0	61.8	62.4	62.8	63.1	63.2
-100	21.1	30.6	40.0	49.1	50.0	50.4	51.0	51.5	52.0	52.6	53.1	53.7	54.3	54.7	55.1	55.4	55.6	55.8	55.9
-90	21.1	30.4	39.7	49.1	49.2	49.4	49.6	49.7	49.8	50.0	50.2	50.4	50.6	50.8	50.9	51.1	51.1	51.2	51.3
-80	21.1	30.3	41.1	54.3	58.6	63.1	68.0	74.3	81.1	88.0	94.6	101	107	113	118	123	124	123	122
-70	21.1	30.4	45.5	68.6	86.6	105	125	148	172	195	220	248	275	294	305	309	307	300	290
-60	21.1	30.9	52.7	89.9	128	167	212	266	323	387	466	558	647	721	758	786	792	766	714
-50	21.1	31.5	61.9	113	178	241	324	441	588	772	1006	1273	1519	1718	1865	1975	2044	2067	2057
-40	21.1	32.0	70.8	135	218	320	459	677	1003	1408	1800	2090	2306	2479	2620	2735	2813	2852	2854
-30	21.1	32.4	77.6	151	249	386	612	1006	1536	1996	2329	2617	2881	3111	3300	3444	3550	3608	3616
-20	21.1	32.1	81.3	160	266	423	724	1327	1935	2358	2712	3060	3385	3669	3893	4045	4151	4213	4237
-10	21.1	30.9	81.0	161	265	424	749	1410	2063	2524	2942	3379	3756	4042	4261	4425	4544	4625	4663
0	21.1	28.8	76.6	152	247	384	657	1342	2037	2509	2924	3376	3766	4081	4328	4526	4678	4786	4840
10	21.1	28.5	75.2	151	248	394	684	1328	1997	2468	2872	3305	3701	4025	4281	4487	4637	4726	4755
20	21.1	27.5	69.8	141	234	369	618	1154	1799	2289	2674	3053	3433	3741	3986	4179	4317	4396	4426
30	21.1	25.8	61.3	123	206	318	508	876	1443	1964	2349	2658	2954	3231	3470	3652	3769	3843	3868
40	21.1	23.9	50.7	100	167	256	390	615	967	1398	1817	2144	2399	2618	2803	2933	3031	3098	3125
50	21.1	22.3	39.3	74.6	124	187	272	394	551	745	991	1299	1590	1840	1997	2116	2201	2266	2294
60	21.1	21.1	29.1	49.6	79.6	118	167	225	282	347	429	542	665	759	806	830	843	826	778
70	21.1	20.4	22.7	29.9	42.9	60.0	81.8	104	128	151	179	211	246	265	278	284	284	279	269
80	21.1	20.4	20.1	20.8	22.6	25.5	29.4	34.5	39.4	44.6	51.3	58.1	64.4	70.1	75.9	80.1	82.7	84.3	84.8
90	21.1	20.8	20.5	20.2	20.0	19.7	19.4	19.3	19.1	19.0	18.8	18.6	18.5	18.4	18.3	18.2	18.1	18.0	17.9
100	21.1	21.3	21.4	21.6	21.8	21.9	22.0	22.2	22.4	22.6	22.8	22.9	23.0	23.2	23.3	23.4	23.4	23.3	23.2
110	21.1	21.7	22.4	23.1	23.9	24.5	25.2	25.9	26.7	27.5	28.1	28.8	29.3	29.8	30.3	30.6	30.8	30.9	30.9
120	21.1	22.2	23.5	24.8	26.1	27.5	28.8	30.1	31.5	33.0	34.3	35.4	36.5	37.4	38.3	39.0	39.5	39.8	40.0
130	21.1	22.7	24.5	26.4	28.4	30.4	32.4	34.4	36.5	38.6	40.5	42.3	43.8	45.2	46.5	47.6	48.4	49.0	49.3
140	21.1	23.1	25.4	28.0	30.5	33.2	36.0	38.7	41.3	43.8	46.4	48.7	50.7	52.5	54.0	55.6	56.8	57.7	58.3
150	21.1	23.5	26.3	29.3	32.5	35.8	39.1	42.4	45.6	48.7	51.5	54.1	56.5	58.9	61.2	63.5	65.5	67.0	67.7
160	21.1	23.8	27.0	30.5	34.1	38.0	41.8	45.6	49.2	52.8	55.8	58.5	61.4	65.0	68.9	72.4	75.5	77.7	78.8
170	21.1	24.0	27.5	31.3	35.4	39.6	43.9	48.1	52.1	55.9	58.9	62.0	65.8	70.5	75.4	80.1	84.0	87.2	89.3
180	21.1	24.1	27.7	31.7	36.1	40.6	45.2	49.6	53.9	57.8	61.1	64.6	69.0	74.5	80.5	86.7	92.6	97.4	99.0

H<sub>(h)</sub> Range:-90 - 90DEG  
H<sub>(h)</sub> Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:XW  
Test Date:2019-04-09

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks: ATK472-60-JL3030 5000K Ra70 C15432 STRA

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.4V I:0.2743A P:60.23W PF:0.9533 Lamp Flux:12000x1 lm		
NAME: ATK472	TYPE:	WEIGHT:
SPEC.:60W	DIM.:	SERIAL No.:20190529004
MFR.: AXLUX	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

H( DEG) V( DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-180	101	100.0	97.6	94.0	89.7	85.3	81.2	77.6	74.3	70.9	67.4	63.7	60.0	56.6	53.8	51.7	50.2	50.1
-170	100	99.0	97.0	93.6	89.5	85.4	81.6	78.2	75.0	71.5	67.8	64.0	60.2	56.8	53.9	51.7	50.2	50.1
-160	98.8	96.7	93.8	90.6	87.3	84.0	80.7	77.7	74.5	71.1	67.3	63.5	59.8	56.5	53.8	51.6	50.2	50.1
-150	93.1	91.3	89.1	86.6	83.9	81.4	78.8	76.1	72.9	69.5	65.9	62.3	58.9	55.9	53.4	51.5	50.2	50.1
-140	86.6	85.5	84.0	82.2	80.2	77.9	75.4	72.7	69.9	66.8	63.6	60.4	57.5	54.9	52.8	51.2	50.1	50.1
-130	80.0	79.2	77.9	76.3	74.5	72.6	70.4	68.2	65.7	63.2	60.7	58.2	55.8	53.8	52.2	50.9	50.0	50.1
-120	71.8	71.0	70.1	69.0	67.7	66.2	64.6	62.8	61.1	59.2	57.5	55.7	54.1	52.6	51.5	50.5	49.9	50.1
-110	62.9	62.5	62.0	61.4	60.5	59.7	58.7	57.6	56.5	55.4	54.4	53.4	52.4	51.5	50.8	50.2	49.8	50.1
-100	55.8	55.6	55.4	55.1	54.7	54.4	53.9	53.4	52.8	52.4	51.9	51.4	51.0	50.5	50.2	49.9	49.7	50.1
-90	51.3	51.3	51.3	51.2	51.1	51.0	50.9	50.8	50.7	50.5	50.4	50.3	50.2	50.2	50.2	50.1	50.1	50.1
-80	124	126	126	122	117	111	104	98.7	92.4	85.4	78.4	71.8	66.6	61.8	57.5	53.9	51.6	50.1
-70	303	312	316	313	302	284	256	227	201	178	154	130	110	91.2	75.3	62.3	53.9	50.1
-60	771	802	798	765	734	658	573	484	400	332	273	219	173	134	101	74.4	57.1	50.1
-50	2059	2028	1951	1834	1677	1482	1260	1014	783	603	452	332	247	183	130	88.8	61.0	50.1
-40	2841	2788	2698	2568	2419	2242	2022	1739	1376	999	692	470	328	232	159	103	65.2	50.1
-30	3608	3538	3412	3243	3036	2792	2530	2252	1930	1494	1005	630	404	274	184	117	69.1	50.1
-20	4214	4139	4004	3816	3557	3257	2943	2618	2289	1887	1321	772	464	305	203	127	72.1	50.1
-10	4646	4567	4410	4194	3921	3604	3246	2876	2507	2116	1519	859	492	321	214	133	74.0	50.1
0	4828	4746	4599	4378	4095	3758	3389	2994	2606	2207	1578	848	480	320	216	135	74.6	50.1
10	4731	4640	4477	4231	3914	3564	3199	2841	2481	2071	1435	781	453	301	203	127	71.5	50.1
20	4406	4319	4153	3919	3642	3338	2994	2643	2275	1774	1139	637	396	269	182	115	67.3	50.1
30	3833	3747	3612	3418	3188	2932	2651	2347	1955	1405	848	494	322	225	154	99.4	62.1	50.1
40	3101	3039	2938	2805	2628	2416	2155	1807	1371	946	608	385	253	175	123	82.3	56.6	50.1
50	2276	2221	2132	2011	1830	1576	1285	986	742	554	394	271	188	125	89.6	65.0	51.2	50.1
60	835	861	850	807	759	665	554	436	350	283	226	169	121	82.1	58.7	49.3	46.6	50.1
70	281	288	289	285	271	249	213	181	154	130	106	84.3	62.5	45.2	34.3	37.8	43.1	50.1
80	84.9	83.9	81.8	77.7	72.0	66.4	60.2	53.7	47.0	41.4	36.1	31.1	26.5	23.1	21.4	31.4	40.9	50.1
90	17.9	17.9	17.9	17.9	17.9	17.9	18.0	18.1	18.3	18.4	18.6	18.7	19.0	19.3	19.6	29.7	39.9	50.1
100	23.3	23.3	23.2	23.1	23.0	22.8	22.7	22.5	22.3	22.1	21.9	21.7	21.5	21.3	21.5	30.6	39.9	50.1
110	31.0	30.9	30.7	30.4	29.9	29.4	28.9	28.3	27.6	26.9	26.1	25.3	24.5	23.7	24.4	32.2	40.5	50.1
120	40.0	39.8	39.4	38.8	38.0	37.2	36.2	35.0	33.8	32.3	30.8	29.3	27.8	26.3	28.0	34.3	41.5	50.1
130	49.4	49.1	48.5	47.6	46.5	45.3	43.9	42.2	40.2	38.1	35.8	33.6	31.2	28.9	32.0	36.8	42.6	50.1
140	58.6	58.3	57.7	56.6	55.3	53.6	51.5	49.2	46.5	43.8	40.8	37.7	34.6	34.0	36.3	39.6	44.0	50.1
150	68.0	67.6	66.6	65.3	63.6	61.4	58.8	55.7	52.5	49.0	45.4	41.6	39.9	40.0	40.8	42.6	45.4	50.1
160	79.1	78.2	76.7	74.4	71.6	68.4	65.2	61.7	57.7	53.5	50.7	48.8	47.1	45.8	45.3	45.6	47.0	50.1
170	90.0	89.1	86.7	83.2	79.0	74.8	71.1	68.2	65.4	62.4	59.5	56.6	53.8	51.4	49.6	48.7	48.6	50.1
180	101	100.0	97.6	94.0	89.7	85.3	81.2	77.6	74.3	70.9	67.4	63.7	60.0	56.6	53.8	51.7	50.2	50.1

H<sub>(h)</sub> Range:-90 - 90DEG  
H<sub>(h)</sub> Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:XW  
Test Date:2019-04-09

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks: ATK472-60-JL3030 5000K Ra70 C15432 STRA



Photometric Data Table [cd]

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	4840	4844	4849	4852	4854	4855	4853	4852	4848	4845
3.0	4844	4843	4841	4839	4835	4831	4825	4824	4818	4819
6.0	4816	4809	4800	4798	4790	4784	4773	4770	4765	4770
9.0	4764	4753	4738	4731	4715	4708	4695	4692	4691	4699
12.0	4696	4677	4654	4642	4618	4610	4594	4595	4597	4612
15.0	4599	4574	4545	4533	4505	4490	4473	4480	4486	4513
18.0	4472	4442	4411	4398	4369	4351	4337	4344	4362	4401
21.0	4327	4290	4247	4240	4211	4192	4175	4192	4215	4271
24.0	4158	4119	4082	4069	4039	4023	4015	4024	4066	4119
27.0	3964	3922	3882	3880	3847	3842	3820	3841	3882	3947
30.0	3758	3715	3673	3673	3640	3642	3616	3643	3685	3753
33.0	3542	3497	3455	3454	3431	3423	3400	3428	3467	3535
36.0	3310	3260	3222	3217	3202	3186	3173	3197	3238	3302
39.0	3073	3023	2984	2982	2959	2949	2925	2966	3004	3062
42.0	2838	2790	2750	2745	2719	2715	2695	2738	2773	2825
45.0	2606	2558	2518	2512	2499	2487	2474	2512	2541	2589
48.0	2373	2326	2288	2280	2258	2259	2228	2279	2306	2349
51.0	2107	2077	2038	2033	2018	2008	1974	2027	2057	2100
54.0	1729	1751	1749	1744	1714	1677	1549	1683	1757	1805
57.0	1262	1381	1398	1412	1354	1270	1064	1261	1383	1444
60.0	848.4	1017	1055	1068	1016	891.4	714.1	878.1	1013	1061
63.0	583.6	722.9	784.9	775.3	752.2	629.9	510.0	616.9	738.8	759.3
66.0	436.9	523.4	579.0	571.0	547.1	468.8	391.1	458.1	540.2	552.5
69.0	344.2	392.6	428.3	405.9	416.3	361.6	315.3	353.3	401.5	391.2
72.0	273.7	302.1	313.6	299.8	306.2	280.2	250.2	274.0	298.0	290.8
75.0	216.3	229.1	230.5	221.3	226.4	215.7	196.1	210.9	219.7	214.9
78.0	165.4	170.5	167.3	162.4	164.8	161.9	150.6	158.0	159.9	156.9
81.0	120.9	122.2	116.8	116.6	115.8	116.9	110.9	114.1	111.0	111.6
84.0	84.24	84.17	80.67	81.41	79.73	81.44	77.14	79.41	76.82	77.28
87.0	59.61	59.64	58.38	58.90	57.85	58.52	56.91	57.07	56.22	56.21
90.0	50.09	50.16	50.29	50.67	51.04	51.29	51.33	51.06	50.62	49.97
93.0	49.84	50.27	50.83	51.29	51.92	52.25	52.40	52.10	51.67	50.90
96.0	50.43	51.06	51.83	52.40	53.13	53.46	53.67	53.41	52.96	52.09
99.0	51.27	52.12	53.05	53.79	54.53	54.99	55.22	55.03	54.48	53.55
102.0	52.47	53.42	54.64	55.43	56.33	56.80	57.22	56.92	56.46	55.29
105.0	53.77	54.98	56.27	57.28	58.21	58.80	59.23	59.03	58.42	57.25
108.0	55.44	56.75	58.27	59.36	60.31	61.03	61.58	61.37	60.82	59.48
111.0	57.31	58.74	60.46	61.61	62.76	63.45	64.22	63.91	63.38	61.93
114.0	59.27	60.88	62.69	63.96	65.08	66.00	66.83	66.57	66.00	64.53
117.0	61.40	63.17	64.98	66.38	67.59	68.61	69.49	69.30	68.65	67.25
120.0	63.75	65.51	67.48	68.80	70.15	71.21	72.29	72.01	71.49	70.02
123.0	65.95	67.82	69.81	71.17	72.54	73.77	74.80	74.66	74.18	72.79
126.0	68.05	70.08	72.03	73.50	74.91	76.32	77.31	77.27	76.78	75.56
129.0	70.22	72.25	74.25	75.78	77.36	78.80	79.82	79.79	79.47	78.37
132.0	72.36	74.23	76.30	77.84	79.62	81.06	82.15	82.15	82.04	81.08
135.0	74.34	76.10	78.06	79.74	81.57	83.13	84.19	84.40	84.37	83.68
138.0	76.34	77.94	79.77	81.47	83.31	84.98	86.07	86.54	86.65	86.15
141.0	78.30	79.79	81.65	83.24	85.14	86.74	88.02	88.60	88.88	88.45
144.0	80.40	81.81	83.50	85.17	87.01	88.66	90.01	90.73	91.02	90.72
147.0	82.80	84.00	85.75	87.26	89.09	90.76	92.05	92.90	93.33	92.97
150.0	85.30	86.37	87.83	89.33	91.10	92.87	94.24	95.04	95.35	95.15
153.0	87.98	88.89	90.24	91.45	93.26	94.95	96.26	97.06	97.37	97.23
156.0	90.75	91.44	92.66	93.64	95.34	96.94	98.13	98.89	99.15	99.14
159.0	93.19	93.84	94.82	95.73	97.21	98.62	99.65	100.3	100.6	100.8
162.0	95.56	96.04	96.85	97.51	98.67	99.69	100.6	101.4	101.9	102.2
165.0	97.56	97.91	98.45	98.77	99.55	100.3	101.3	102.1	102.7	103.3
168.0	99.15	99.48	99.54	99.54	99.94	100.7	101.6	102.5	103.3	104.0
171.0	100.4	100.5	100.1	99.79	99.97	100.7	101.6	102.6	103.4	104.3
174.0	101.1	100.7	100.0	99.49	99.60	100.3	101.2	102.2	103.0	104.0
177.0	101.0	100.2	99.18	98.57	98.76	99.46	100.4	101.3	102.1	103.2
180.0	100.3	99.19	97.93	97.21	97.40	98.08	98.86	99.74	100.7	101.9
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	4841	4837	4840	4844	4849	4852	4854	4855	4853	4852
3.0	4817	4819	4812	4823	4833	4840	4846	4849	4851	4851
6.0	4772	4782	4767	4782	4803	4811	4820	4821	4824	4823
9.0	4708	4724	4703	4726	4753	4764	4773	4773	4775	4776
12.0	4626	4650	4622	4651	4683	4697	4707	4704	4707	4708
15.0	4534	4564	4526	4558	4595	4609	4624	4616	4620	4625
18.0	4429	4463	4412	4447	4483	4498	4513	4507	4510	4518
21.0	4301	4346	4281	4317	4351	4368	4379	4377	4380	4388
24.0	4167	4208	4136	4171	4205	4217	4226	4228	4228	4232
27.0	3994	4051	3964	4000	4040	4046	4060	4060	4057	4052
30.0	3807	3868	3766	3801	3849	3855	3880	3869	3868	3854

H<sub>(b)</sub> Range:-90 - 90DEG  
H<sub>(b)</sub> Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:XW  
Test Date:2019-04-09

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks: ATK472-60-JL3030 5000K Ra70 C15432 STRA

Photometric Data Table [cd]

33.0	3586	3651	3540	3579	3635	3646	3669	3658	3663	3645
36.0	3349	3408	3284	3328	3395	3415	3447	3431	3440	3423
39.0	3105	3145	3012	3059	3130	3167	3204	3189	3201	3194
42.0	2856	2890	2756	2800	2874	2917	2956	2953	2973	2966
45.0	2609	2641	2509	2555	2627	2671	2714	2716	2743	2735
48.0	2363	2395	2243	2300	2384	2426	2478	2470	2492	2491
51.0	2115	2126	1921	2004	2123	2164	2220	2172	2165	2194
54.0	1811	1801	1503	1644	1799	1851	1891	1805	1740	1821
57.0	1432	1421	1020	1230	1415	1465	1502	1369	1225	1387
60.0	1062	1019	656.7	842.3	1037	1052	1101	941.6	777.9	964.2
63.0	778.3	705.0	464.2	577.6	744.9	738.7	778.9	636.1	519.8	654.6
66.0	565.4	509.6	352.1	415.8	526.4	518.0	546.1	452.6	388.6	463.4
69.0	417.8	383.8	269.7	308.9	377.8	352.7	389.6	334.0	296.5	340.5
72.0	305.5	295.1	206.1	229.9	263.6	248.1	267.6	246.8	224.8	251.2
75.0	224.0	223.0	152.3	165.2	181.6	170.6	187.8	176.0	166.0	179.2
78.0	161.1	165.1	104.5	111.7	118.7	112.2	120.0	118.1	116.3	120.3
81.0	111.5	117.0	63.92	67.79	67.95	66.68	68.51	70.72	69.70	72.19
84.0	76.46	79.61	35.21	36.42	37.26	35.12	36.47	36.68	36.78	37.53
87.0	55.67	56.57	21.88	21.44	21.15	20.31	20.31	20.03	20.46	20.11
90.0	49.56	49.06	21.05	20.25	19.45	18.96	18.48	18.19	17.87	17.88
93.0	50.33	49.63	22.78	21.83	20.85	20.32	19.81	19.51	19.14	19.25
96.0	51.39	50.47	24.84	23.66	22.54	21.96	21.41	21.09	20.75	20.87
99.0	52.66	51.62	27.04	25.71	24.49	23.83	23.26	22.94	22.69	22.79
102.0	54.33	53.06	29.31	27.90	26.64	25.90	25.28	24.97	24.66	24.90
105.0	56.06	54.76	31.75	30.21	28.78	28.14	27.48	27.18	26.89	27.18
108.0	58.23	56.75	34.32	32.65	31.31	30.51	29.82	29.55	29.30	29.62
111.0	60.63	59.00	36.94	35.18	33.71	33.01	32.30	32.02	31.89	32.17
114.0	63.11	61.47	39.63	37.76	36.26	35.57	34.85	34.59	34.37	34.83
117.0	65.72	64.12	42.42	40.41	38.93	38.18	37.49	37.26	37.15	37.56
120.0	68.63	66.90	45.16	43.07	41.54	40.83	40.15	39.96	39.95	40.36
123.0	71.37	69.71	47.76	45.70	44.13	43.47	42.76	42.66	42.65	43.17
126.0	74.20	72.60	50.44	48.34	46.79	46.10	45.45	45.40	45.53	46.04
129.0	77.24	75.59	53.07	50.98	49.40	48.70	48.12	48.13	48.33	48.93
132.0	80.21	78.56	55.54	53.50	51.87	51.18	50.65	50.76	51.09	51.81
135.0	82.93	81.51	57.81	55.82	54.25	53.59	53.16	53.38	53.86	54.69
138.0	85.46	84.30	59.82	57.88	56.47	55.94	55.66	55.95	56.52	57.46
141.0	88.04	86.90	61.73	59.87	58.66	58.31	58.15	58.51	59.14	60.16
144.0	90.25	89.41	63.82	62.00	61.03	60.84	60.74	61.20	61.80	62.85
147.0	92.75	91.91	66.25	64.50	63.61	63.63	63.65	64.09	64.67	65.69
150.0	94.91	94.40	69.04	67.37	66.55	66.70	66.72	67.22	67.73	68.74
153.0	97.29	96.86	72.22	70.53	69.74	69.95	70.02	70.51	71.02	71.97
156.0	99.38	99.16	75.64	73.93	73.10	73.31	73.44	73.89	74.39	75.35
159.0	101.2	101.2	79.18	77.52	76.56	76.74	76.80	77.22	77.70	78.65
162.0	102.7	102.9	82.99	81.19	80.09	79.99	80.03	80.42	80.93	81.88
165.0	103.9	104.3	86.71	84.72	83.36	83.12	83.13	83.58	84.09	85.08
168.0	104.8	105.3	90.29	88.12	86.53	86.19	86.20	86.63	87.24	88.29
171.0	105.2	105.9	93.66	91.39	89.72	89.26	89.25	89.74	90.41	91.35
174.0	105.1	106.1	96.59	94.53	92.82	92.27	92.26	92.77	93.51	94.45
177.0	104.5	105.8	98.77	97.30	95.68	95.06	95.11	95.72	96.43	97.37
180.0	103.4	104.9	100.4	99.17	97.92	97.21	97.36	98.05	98.87	99.75
G/C	300.0	315.0	330.0	345.0						
0.0	4848	4845	4841	4837						
3.0	4848	4842	4836	4825						
6.0	4822	4814	4805	4788						
9.0	4776	4765	4753	4731						
12.0	4713	4700	4686	4652						
15.0	4628	4613	4591	4548						
18.0	4515	4501	4469	4415						
21.0	4382	4358	4321	4258						
24.0	4224	4186	4146	4077						
27.0	4039	3991	3949	3875						
30.0	3839	3785	3738	3663						
33.0	3626	3570	3523	3442						
36.0	3406	3351	3299	3209						
39.0	3177	3127	3070	2977						
42.0	2953	2906	2843	2747						
45.0	2725	2677	2613	2516						
48.0	2490	2443	2379	2280						
51.0	2227	2178	2121	1991						
54.0	1881	1847	1784	1606						
57.0	1474	1450	1386	1184						
60.0	1075	1049	1016	810.2						
63.0	777.0	741.0	737.0	558.6						
66.0	562.9	528.9	527.5	405.5						

H<sub>(h)</sub> Range:-90 - 90DEG  
 H<sub>(h)</sub> Interval: 0.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XW  
 Test Date:2019-04-09

V(B) Range:-180 - 180DEG  
 V(B) Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.290  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks: ATK472-60-JL3030 5000K Ra70 C15432 STRA

## Photometric Data Table [cd]

69.0	395.2	356.1	378.3	303.3
72.0	275.1	250.1	264.5	227.1
75.0	190.3	173.1	183.9	164.9
78.0	121.2	114.8	121.9	113.4
81.0	70.67	69.42	70.46	70.45
84.0	37.98	37.15	38.62	38.62
87.0	20.60	20.59	21.31	21.64
90.0	17.93	18.25	18.72	19.57
93.0	19.36	19.79	20.36	21.39
96.0	21.05	21.59	22.33	23.48
99.0	22.99	23.65	24.50	25.82
102.0	25.14	25.90	26.89	28.35
105.0	27.47	28.32	29.39	31.04
108.0	29.97	30.93	32.12	33.89
111.0	32.60	33.68	34.97	36.90
114.0	35.32	36.51	37.92	39.97
117.0	38.12	39.42	40.98	43.12
120.0	40.97	42.37	44.03	46.29
123.0	43.81	45.32	47.06	49.39
126.0	46.75	48.30	50.13	52.51
129.0	49.71	51.33	53.20	55.64
132.0	52.65	54.33	56.25	58.74
135.0	55.61	57.35	59.36	61.81
138.0	58.47	60.27	62.32	64.78
141.0	61.25	63.12	65.20	67.68
144.0	64.04	65.96	68.08	70.57
147.0	66.98	68.92	71.04	73.49
150.0	69.99	72.00	74.11	76.56
153.0	73.20	75.21	77.30	79.71
156.0	76.54	78.50	80.54	82.93
159.0	79.82	81.76	83.80	86.17
162.0	83.08	84.95	87.08	89.38
165.0	86.26	88.09	90.18	92.48
168.0	89.40	91.19	93.20	95.49
171.0	92.49	94.17	96.12	98.31
174.0	95.53	97.10	98.90	100.9
177.0	98.36	99.77	101.4	103.2
180.0	100.7	101.9	103.4	104.9

H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 0.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XW  
 Test Date:2019-04-09

V(B) Range:-180 - 180DEG  
 V(B) Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.290  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks: ATK472-60-JL3030 5000K Ra70 C15432 STRA