

# FANLIGHT CORPORATION, INC.

January 26, 2018

Material License: 04-23991-01E

Docket No.: 030-38462

Document Control Desk/Exempt Distribution  
Director, Office of Nuclear Material Safety and Safeguards,  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

To Whom It May Concern:

I am enclosing the annual exempt product transfer report 2017 for the above Material License which authorizes Fanlight Corp. to distribute light bulbs containing byproduct material to persons exempt from licensing pursuant to Section 30.15(a)(8), 10 CFR Part 30.

The attached report reflects the quantity transferred in 2017.

Please do not hesitate to contact me by email ([laurence@fanlightinc.com](mailto:laurence@fanlightinc.com)) or by phone (909-930-6868 ext: 120) if any questions.

Best Regards,



Laurence Lin  
Project Manager  
FANLIGHT CORPORATION, INC

NM 5503

2000 S. Grove Ave, Building B, Ontario, CA 91761  
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## FANLIGHT CORP.

### Annual Byproduct Transfer Report

Reporting for Calendar Year: 2017

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Material: Kr-85 (gas)

Metal Halide Lamp - Product Code -	Quantity Transferred (pcs)	Kr-85 per lamp (mci)	Total Quantity (mci)
1258	24	0.0000510811	0.0012259464
1223	223	0.0000510811	0.0113910853
1225	277	0.0000510811	0.0141494647
1222	12	0.0000510811	0.0006129732
1224	30	0.0000510811	0.0015324330
1261	12	0.0000724324	0.0008691888
1227	125	0.0000724324	0.0090540500
1226	35	0.0000724324	0.0025351340
1246	174	0.0000724324	0.0126032376
1247	82	0.0000724324	0.0059394568
1201	187	0.0000035676	0.0006671356
1200	12	0.0000035676	0.0000428108
1202	12	0.0000035676	0.0000428108
1207	10	0.0000035676	0.0000356757
1236	129	0.0000035676	0.0004602165
1234	534	0.0000035676	0.0019050824
1209	344	0.0000082432	0.0028356746
1208	435	0.0000082432	0.0035858094
1211	447	0.0000082432	0.0036847283
1213	28	0.0000082432	0.0002308107

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1210	70	0.0000082432	0.0005770268
1212	52	0.0000082432	0.0004286485
1238	132	0.0000082432	0.0010881077
1239	97	0.0000082432	0.0007995943
1242	284	0.0000082432	0.0023410802
1243	160	0.0000082432	0.0013189184
1256	12	0.0000260811	0.0003129732
1257	4	0.0000260811	0.0001043244
1215	177	0.0000260811	0.0046163547
1217	118	0.0000260811	0.0030775698
1216	10	0.0000260811	0.0002608110
1219	46	0.0000260811	0.0011997306
1221	18	0.0000260811	0.0004694598
1218	6	0.0000260811	0.0001564866
1220	2	0.0000260811	0.0000521622
1240	57	0.0000260811	0.0014866227
1241	25	0.0000260811	0.0006520275
1244	381	0.0000260811	0.0099368991
1245	191	0.0000260811	0.0049814901
1248	64	0.0000260811	0.0016691904
1233	4	0.0000724324	0.0002897296
1228	36	0.0000260811	0.0009389196
ZYLCMH945/DE/3K	24	0.0001020270	0.0024486480
ZYRCMP315/DE/T/4K	300	0.0001300000	0.0390000000
ZYRCMP315/ED37/U/4K	2244	0.0001300000	0.2917200000
ZYLCMH945/DE/3K	24	0.0001020270	0.0024486480
ZYLMH1000/BT37/U/4K	4908	0.0001020270	0.5007485160
ZYLMH1000/DE/10K	1836	0.0001020270	0.1873215720
ZYLMH1000/DE/4K	1188	0.0001020270	0.1212080760
ZYLMH1000/DE/6K	6840	0.0001020270	0.6978646800
ZYLMS1000/10000	4387	0.0001020270	0.4475924490
ZYLMS1000/7500	8067	0.0001020270	0.8230518090
ZYLMS400/10000	312	0.0000477297	0.0148916664
ZYLMS400/7500	1872	0.0000477297	0.0893499984
ZYLMH400/T15/U/4K	1552	0.0000477297	0.0740764944
ZYLMH600/LU	1152	0.0001050000	0.1209600000
1036	1163	0.0001162432	0.1351908416
1035	40000	0.0001162432	4.6497280000
1043	531	0.0001020270	0.0541763370
1044	1033	0.0001020270	0.1053938910
1524	316	0.0001020270	0.0322405320

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1038	942	0.0001835405	0.1728951510
1037	15739	0.0001835405	2.8887439295
1040	1096	0.0001395676	0.1529660896
1603	2269	0.0001395676	0.3166788844
1039	27007	0.0001395676	3.7693021732
1607	725	0.0001395676	0.1011865100
1554	15	0.0001395676	0.0020935140
1041	768	0.0002296486	0.1763701248
1612	245	0.0002296486	0.0562639070
1557	1947	0.0002296486	0.4471258242
1614	183	0.0000444595	0.0081360885
1613	3396	0.0000444595	0.1509844620
1616	82	0.0000444595	0.0036456790
1615	281	0.0000444595	0.0124931195
1619	314	0.0000444595	0.0139602830
1623	4	0.0000444595	0.0001778380
1622	216	0.0000444595	0.0096032520
1560	1	0.0000444595	0.0000444595
1042	6573	0.0000482162	0.3169250826
1566	152	0.0000482162	0.0073288624
1565	803	0.0000482162	0.0387176086
1564	186	0.0000482162	0.0089682132
1563	3997	0.0000482162	0.1927201514
1032	489	0.0000572162	0.0279787218
1031	12109	0.0000572162	0.6928309658
1633	774	0.0001050000	0.0812700000
1678	30	0.0001050000	0.0031500000
1034	1025	0.0000922973	0.0946047325
1033	19522	0.0000922973	1.8018278906
1509	2412	0.0001020270	0.2460891240
1655	644	0.0001395676	0.0898815344
1525	12	0.0001395676	0.0016748112
1656	483	0.0001395676	0.0674111508
1572	12	0.0001395676	0.0016748112
1669	1408	0.0001395676	0.1965111808
1672	601	0.0001395676	0.0838801276
1528	87	0.0001395676	0.0121423812
1531	4	0.0002296486	0.0009185944
1575	2781	0.0002296486	0.6386527566
1532	157	0.0002296486	0.0360548302
1537	12	0.0000602162	0.0007225944

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1578	8298	0.0000602162	0.4996740276
1533	24	0.0000602162	0.0014451888
1535	43	0.0000602162	0.0025892966
1584	182	0.0000444595	0.0080916290
1544	59	0.0000444595	0.0026231105
1680	116	0.0000444595	0.0051573020
1587	420	0.0000444595	0.0186729900
1657	30	0.0000444595	0.0013337850
1546	9	0.0000444595	0.0004001355
1150	90	0.0000444595	0.0040013550
1021	122	0.0000444595	0.0054240590
1590	307	0.0000482162	0.0148023734
1552	669	0.0000482162	0.0322566378
1589	5320	0.0000482162	0.2565101840
1551	69	0.0000482162	0.0033269178
1592	2464	0.0000482162	0.1188047168
1677	288	0.0001027297	0.0295861536
1508	3734	0.0000880270	0.3286928180
25223a	60	0.0011624320	0.0697459200
07450h	630	0.0011624320	0.7323321600
05250i	216	0.0011624320	0.2510853120
05250H	6996	0.0011624320	8.1323742720
01060F	798	0.0001020270	0.0814175460
25571a	60	0.0001835405	0.0110124300
22892B	180	0.0001835405	0.0330372900
05458B	120	0.0001835405	0.0220248600
05458c	1644	0.0001835405	0.3017405820
26595a	60	0.0001395676	0.0083740560
25456a	480	0.0001395676	0.0669924480
ZYBMP200/BT28/C/U/PS/4K	60	0.0000355676	0.0021340560
26554C	96	0.0000355676	0.0034144896
26559B	60	0.0002296486	0.0137789160
26558C	1380	0.0002296486	0.3169150680
26571a	60	0.0000602162	0.0036129720
26578B	546	0.0000977838	0.0533899548
25352a	60	0.0000482162	0.0028929720
25311a	1812	0.0000482162	0.0873677544
26586C	804	0.0000482162	0.0387658248
25147A	312	0.0000572162	0.0178514544
01835f	504	0.0000572162	0.0288369648
05325A	108	0.0000922973	0.0099681084

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20481F	732	0.0000922973	0.0675616236
32738a	120	0.0001020270	0.0122432400
26542B	60	0.0001395676	0.0083740560
26549B	60	0.0000355676	0.0021340560
06130D	120	0.0002296486	0.0275578320
26556C	636	0.0002296486	0.1460565096
26564C	996	0.0000602162	0.0599753352
26574B	60	0.0000977838	0.0058670280
23066b	138	0.0000444595	0.0061354110
26580B	1908	0.0000482162	0.0919965096
02525F	60	0.0000482162	0.0028929720
24796C	1188	0.0000880270	0.1045760760
FMP100/ED17/P/U/4K/M	1008	0.0000510811	0.0514897488
FMP150/ED17/P/U/4K/M	432	0.0000724324	0.0312907968
FMP175/ED17/PS/BU/4K	432	0.0000724324	0.0312907968
FMP175/ED17/PS/U/4K/	720	0.0000724324	0.0521513280
FMP320/ED28/PS/BU/4K	840	0.0000602162	0.0505816080
FMH320/PS/BU/O/ED28	1440	0.0000602162	0.0867113280
FMP400/ED28/PS/BU/4K	1320	0.0000048216	0.0063645384
FMP400/BU/OPEN	240	0.0000048216	0.0011571888
FMP400/ED37/PS/BU/4K	960	0.0000048216	0.0046287552
FMP50/ED17/P/U/4K/ME	288	0.0000171892	0.0049504896
FMP70/ED17/P/U/4K/ME	288	0.0000260811	0.0075113568
901544	4387	0.0010202700	4.4759244900
901538	8067	0.0010202700	8.2305180900
901542	310	0.0000482162	0.0149470220
901534	1872	0.0000482162	0.0902607264
FMH100/C/U/P/ED17	144	0.0001162432	0.0167390208
FMH100/U/P/ED17	1584	0.0001162432	0.1841292288
FMH150/U/P/ED17	576	0.0001835405	0.1057193280
FMH175/BU/P/ED17	3168	0.0001395676	0.4421501568
FMP400/BU/P/ED37	144	0.0000482162	0.0069431328
FMH50/C/U/P/ED17	144	0.0000171892	0.0024752448
FMH50/U/P/ED17	576	0.0000171892	0.0099009792
FMH70/U/P/ED17	1440	0.0000260811	0.0375567840
ZYNMP100/ED17/U/4K/MED	1368	0.0001162432	0.1590206976
ZYNMP150/ED17/U/4K/MED	720	0.0000482162	0.0347156640
ZYNMP175/ED17/U/4K/MED	2448	0.0001395676	0.3416614848
ZYNMP320/ED28/PS/BU/4K	972	0.0000602162	0.0585301464
ZYNMP70/ED17/U/4K/MED	828	0.0000260811	0.0215951508
G20203	288	0.0001162432	0.0334780416

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G20170-IP	600	0.0001162432	0.0697459200
G20204	144	0.0001835405	0.0264298320
G20201	144	0.0000171892	0.0024752448
G20202	144	0.0000260811	0.0037556784
G20169-IP	600	0.0000260811	0.0156486600
SOMH199	2100	0.0001020270	0.2142567000
GLL-315-CSI-DE	300	0.0001300000	0.0390000000
GLL-315-CSI	2244	0.0001300000	0.2917200000
GLL-1000-MH-65K	732	0.0001020270	0.0746837640
GLL-600-MH-65K	660	0.0001050000	0.0693000000
S4851	780	0.0001162432	0.0906696960
S5858	55512	0.0001162432	6.4528925184
S7921	504	0.0001020270	0.0514216080
S7882	360	0.0001020270	0.0367297200
S4853	360	0.0001835405	0.0660745800
S5860	24552	0.0001835405	4.5062863560
S5862	59496	0.0001395676	8.3037139296
S5863	3228	0.0001395676	0.4505242128
S5885	504	0.0001395676	0.0703420704
S5886	504	0.0000477297	0.0240557688
S5882	1596	0.0000477297	0.0761766012
S4254	360	0.0000602162	0.0216778320
S5883	1512	0.0000602162	0.0910468944
S4256	360	0.0000977838	0.0352021680
S5887	10620	0.0000482162	0.5120560440
S4259	360	0.0000482162	0.0173578320
S5884	4248	0.0000482162	0.2048224176
S4847	720	0.0000171892	0.0123762240
S5854	11196	0.0000171892	0.1924502832
S5856	26664	0.0000260811	0.6954264504
S7618	120	0.0000880270	0.0105632400
S4391	1104	0.0001020270	0.1126378080
S5824	2256	0.0001395676	0.3148645056
PLT-9184607 (1042)	1776	0.0000482162	0.0856319712
PLT-9338426 (1656)	300	0.0001395676	0.0418702800
PLT-9448319 (1575)	888	0.0000542432	0.0481679616
37011	2628	0.0001162432	0.3054871296
37013	1500	0.0001835405	0.2753107500
37022	1272	0.0000482162	0.0613310064
37009	300	0.0000171892	0.0051567600
37010	1002	0.0000260811	0.0261332622

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ZZAMH1000/BT37/U/4K	936	0.0001020270	0.0954972720
ZZAFXMH1000	69	0.0001020270	0.0070398630
ZYPMH100/ED17/U/4K/MED	576	0.0001162432	0.0669560832
ZYPMH1000/BT37/U/4K	972	0.0001020270	0.0991702440
ZYPMH1000/BT56/U/4K	432	0.0001020270	0.0440756640
ZYPMH150/ED17/U/4K/MED	144	0.0001835405	0.0264298320
ZYPMH175/BT28/U/GDX	288	0.0001395676	0.0401954688
ZYPMH175/ED17/U/4K/MED	432	0.0001395676	0.0602932032
ZYPMH175/ED28/U/4K/MOG	576	0.0001395676	0.0803909376
ZYPMH250/BT28/U/BDX	288	0.0002296486	0.0661387968
ZYPMH250/BT28/U/GDX	1,872	0.0002296486	0.4299021792
ZYPMH250/ED28/U/4K/MOG	1,008	0.0002296486	0.2314857888
ZYPMH400/ED28/U/4K/MOG	720	0.0000482162	0.0347156640
ZYPMH400/ED37/U/4K/MOG	288	0.0000482162	0.0138862656
ZYPMH50/ED17/U/4K/MED	144	0.0000572162	0.0082391328
ZYPMH70/ED17/U/4K/MED	144	0.0000922973	0.0132908112
ZYPMP100/EDX17/U/VP/4K	288	0.0001162432	0.0334780416
ZYPMP100/PAR38/FL/U/3K/MED	600	0.0001162432	0.0697459200
ZYPMP150/ED17/U/4K/MED	144	0.0001835405	0.0264298320
ZYPMP50/ED17/U/4K/MED	144	0.0000572162	0.0082391328
ZYPMP70/ED17/U/4K/MED	144	0.0000922973	0.0132908112
ZYPMP70/PAR38/FL/U/3K/MED	600	0.0000922973	0.0553783800
ZYPMV175/ED28/DX/MOG	240	0.0001395676	0.0334962240
ZYNMH100/ED28/U/4K	432	0.0001162432	0.0502170624
ZYNMH1000/BT56/U/4K	2160	0.0001020270	0.2203783200
ZYNMH175/ED28/C/U/4K	324	0.0001395676	0.0452199024
ZYNMH175/ED28/U/4K	6912	0.0001395676	0.9646912512
ZYNMH250/ED28/C/U/4K	324	0.0002296486	0.0744061464
ZYNMH250/ED28/U/4K	7848	0.0002296486	1.8022822128
ZYNMH400/ED28/U/4K	10152	0.0000482162	0.4894908624
ZYNMH400/ED37/C/U/4K	1188	0.0000482162	0.0572808456
ZYNMH400/ED37/U/4K	5400	0.0000482162	0.2603674800
ZYNMP100/ED17/U/4K/MED	1368	0.0001162432	0.1590206976
ZYNMP150/ED17/U/4K/MED	1296	0.0001835405	0.2378684880
ZYNMP175/ED17/U/4K/MED	3888	0.0001395676	0.5426388288
ZYNMP320/ED28/PS/BU/4K	1296	0.0000602162	0.0780401952
ZYNMP70/ED17/U/4K/MED	1440	0.0000922973	0.1329081120
ZYRCMP315/DE/T/4K	300	0.0001300000	0.0390000000
ZYRCMP315/ED37/U/4K	2,244	0.0001300000	0.2917200000
ZYRMP1000/BT37/U/65K	732	0.0001020270	0.0746837640
ZYRMP600/BT37/U/65K	660	0.0001050000	0.0693000000

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ZYTMH1000/BT37/U/4K	3000	0.0001020270	0.3060810000
ZYTMH1000/BT37/U/4K/MOG	600	0.0001020270	0.0612162000
ZYTMH1000/BT56/U/4K/MOG	432	0.0001020270	0.0440756640
ZYTMH175/ED17/U/4K	2448	0.0001395676	0.3416614848
ZYTMH175/ED17/U/4K/MED	2436	0.0001395676	0.3399866736
ZYTMH175/ED28/U/4K	780	0.0001395676	0.1088627280
ZYTMH250/ED28/U/4K	2724	0.0002296486	0.6255627864
ZYTMH400/ED28/U/4K	10200	0.0000482162	0.4918052400
ZYTMH400/ED37/C/U/4K	300	0.0000482162	0.0144648600
ZYTMH400/ED37/U/4K	4332	0.0000482162	0.2088725784
ZYTMH400/T15/U/4K	792	0.0000482162	0.0381872304
ZYTMH70W/G12/UVS/4K	300	0.0000922973	0.0276891900
ZYTMP400/BT37/BU/4K	1776	0.0000482162	0.0856319712
ZYTMS175/ED28/PS/U/4K	300	0.0001395676	0.0418702800
ZYTMS250/ED28/PS/U/4K	888	0.0002296486	0.2039279568
			<b>Total:</b> <b>82.2690527308</b> <b>(mci)</b>

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