

**BULBWORKS**  
SPECIALTY LIGHTBULBS AND SOCKETS

**Cross Reference Guide For  
Replacement Lamps For  
OPTICAL COMPARATORS &  
PRECISION INSPECTION EQUIPMENT  
Consumer Catalog  
OCIEU 2021**



Replacement Lamps For Baty Gagemaster;  
Bendix; Deltronic; J & L; MicroVu;  
Mitutoyo; Nikon; OGP; Scherr Tumico; Starrett;  
Vermont Precision; & Many Others

**Bulbworks, Inc.**  
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Fax: 800-335-2858 · (973-584-0300)  
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**Cross Reference Guide**  
Replacement Lamps For  
Optical Comparators  
Inspection Equipment & Precision Optical Equipment

Replacement Lamps For Baty Gagemaster;  
Bendix; Deltronic; J & L; MicroVu;  
Mitutoyo; Nikon; OGP; Scherr Tumico; Starrett;  
Vermont Precision; & Many Others

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**Pictures Are For Reference Only And Are Not To Scale**  
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Figure 33



Figure 34



Figure 35



Figure 36



Figure 37



Figure 38



Figure 39



Figure 40



Figure 41



Figure 42



Figure 43



Figure 44



Figure 45



Figure 46



Figure 47



Figure 48



Figure 49



Figure 50



Figure 51



Figure 52



Figure 53



Figure 54



Figure 55



Figure 56



Figure 57



Figure 58



Figure 59



Figure 60



Figure 61



Figure 62



Figure 63



Figure 64



Figure 65



Figure 66



Figure 67

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Figure 68



Figure 69



Figure 69A



Figure 70



Figure 71



Figure 72



Figure 73



Figure 74



Figure 75



Figure 76



Figure 77



Figure 78



Figure 79



Figure 80



Figure 81



Figure 82



Figure 83



Figure 84



Figure 85



Figure 86



Figure 87



Figure 88



Figure 89



Figure 90



Figure 91

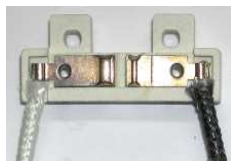


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Figure 93



Figure 94



Figure 95

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**Equipment To Lamp Cross Reference Guide**  
**For Pricing See Separate Bulbworks Price Sheet**

*Here's Just A Partial List...*

<u>Manufacturer</u>	<u>Mfr.Part No.</u>	<u>Lamp Code</u>	<u>Description</u>	<u>Bulbworks P/N</u>	<u>Fig.</u>
<b>Anca</b> Model JG-7		JA24V-70WD	24V,70W	BW.JA24V-70WD	32
<b><u>Baty Gagemaster</u></b>					
Models #14, 20, 29, 30, 50, 350, R14, R14XL, R400, SM14, SM20-XL-2, SM50, SM350					
Profile Illuminator	247-005	EVA; 64623	12V,100W	BW.EVA-OSR	26
Profile Illuminator Socket	247-021	902 Socket	G;GY6.35 BASE TYPE	BW.902	91
Surface Illuminator	247-064	EFP; 64627	12V,100W	BW.EFP-OSR	14
Surface Illuminator Socket	247-068	H705 Socket	FOR USE WITH EFP	BW.H705	84
Angle Measurement	247-050	247-050	14V, .27A T3 1/4 BASE	BW.194****	52
	247-008	247-008	15V,2W MIN.SCREW	BW.247-008	45
Models R600, R770, SM20, SM24, SM120-XL					
Profile Illuminator	247-006	FDV, 64627	24V,250W	BW.FDV-OSR	26
Profile Illuminator Socket	247-021	902 Socket	G;GY6.35 BASE TYPE	BW.902	91
Surface Illuminator	247-069	ELC, 64653		BW.ELC-OSR	14
Surface Illuminator Socket	247-075	H706 Socket	FOR USE WITH ELC	BW.H706	84
Models R14, R122, R400, R600, R770, SM14, SM20, SM24, SM350					
Profile And On Axis Surface Socket					
	247-021	902 Socket	G;GY6.35 BASE TYPE	BW.902	91
Models R600, R770, SM20					
On Axis Lamp	247-006	FDV, 64627	24V,250W	BW.FDV-OSR	26
On Axis Socket	247-021	902 Socket	G;GY6.35 BASE TYPE	BW.902	91
Model SM20-XL-2					
On Axis Lamp	247-005	EVA; 64623	12V,100W	BW.EVA-OSR	26
On Axis Socket	247-021	902 Socket	G;GY6.35 BASE TYPE	BW.902	91
Model 28					
Profile Illuminator	247-005	EVA; 64623	12V,100W	BW.EVA-OSR	26
Surface Illuminator	247-080	EKZ	10.8V,30W	BW.EKZ	16
Model 40					
Profile Illuminator	247-027	EVC/FGX	24V,250W	BW.EVC.FGX-OS	25
Surface Illuminator	247-027	EVC/FGX	24V,250W	BW.EVC.FGX-OS	25
Models 80, 89					
Profile Illuminator	247-027	EVC/FGX	24V,250W	BW.EVC.FGX-OS	25
Surface Illuminator	247-069	ELC, 64653		BW.ELC-OSR	14
For Some Other Baty Models:					
		FCR-OSR	12V,100W	BW.FCR-OSR	26
		JC12V-50WG1	12V,50W	BW.JC12V-50WG1	26
	076-223	EKE	21V,150W	BW.EKE	16
Vantage (Fostec), Venture (Fostec) Models					
	9000-127	DDL	20V,150W	BW.DDL-OSR	15
<b><u>Bendix</u></b>					
		5AG16.5/3	20V,100W	BW.BEY	63
<b><u>Blanchette</u></b> - Visual Gage					
		1619	6.7V,13.37W	BW.1619	34
<b><u>Bridger</u></b> Model 1000 VE126					
		EFP	12V,100W	BW.EFP-OSR	14
<b><u>Covel Comparator</u></b>					
		25T8DC-120	120V,25W	BW.25T8.DC-120V	41
		BHD	20V,100W	BW.BHD (Delisted)**	36
<b><u>Deltronic</u></b>					
Angle Measurement (Several Models)	46-000-900	52	14.4V,0.1A	BW.52****	45
Model DH14					
Profile Illuminator	46-000-400	64623	12V,100W	BW.EVA-OSR	26
Surface Illuminator	46-000-401	64627	12V,100W	BW.EFP-OSR	14
Model DH214; DH216; DV114					
Profile Illuminator	46-000-402	FDV;64642	24V,150W	BW.FDV-OSR	25
Surface Illuminator	46-000-404	ELC;64653	24V,250W MR16	BW.ELC	16

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\*\*Delisted Lamp. Subject to Availability.

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<u>Manufacturer</u>	<u>Mfr.Part No.</u>	<u>Lamp Code</u>	<u>Description</u>	<u>Bulbworks P/N</u>	<u>Fig.</u>
<b><u>Deltronic</u> - Deltronic Lamps Are Continued From Previous Page</b>					
Model DVC115 Video Vision System	46-000-407	64637	12V,100W	<b>BW.64637</b>	<b>16</b>
Model DVC120 Video Vision System	46-000-403	EFN	12V,75W	<b>BW.EFN</b>	<b>16</b>
*Use EFN in both positions replacing two different bulbs formerly used.					
Model 330A-IN Both Positions	46-000-400	EVA; 64623	12V,100W	<b>BW.EVA-OSR</b>	<b>26</b>
VMS121 And Other Models	46-000-406	EKZ	10.8V,30W	<b>BW.EKZ</b>	<b>16</b>
For Some Other Models	46-000-401	64627	12V,100W	<b>BW.EFP-OSR</b>	<b>14</b>
	46-065-600	Socket For 46-000-401 Lamp		<b>BW.TP-17 (Delisted)**</b>	<b>94</b>
	46-000-400	64623	12V,100W	<b>BW.EVA-OSR</b>	<b>26</b>
	46-000-403	EFN	12V,75W	<b>BW.EFN</b>	<b>16</b>
Socket	46-000-501	TP9	FOR GY6.35 BASE	<b>BW.TP9</b>	<b>92</b>
Socket	46-005-601	TP120	FOR G,GX,GY5.3	<b>BW.TP120</b>	<b>95</b>
Socket	46-065-600	TP-17	FOR G,GX,GY,GZ6.35	<b>BW.TP-17 (Delisted)**</b>	<b>94</b>
<b><u>Demco</u> Model E96/B1 Alloy Grinder (E19 or B19)</b>					
			12.8V,1.80A	<b>BW.1073****</b>	<b>34</b>
<b><u>Dorsey Gage</u></b>					
Model 16H		EFP;64627	12V,100W	<b>BW.EFP-OSR</b>	<b>14</b>
For Some Other Dorsey Models		FDV;64642	24V,150W	<b>BW.FDV-OSR</b>	<b>25</b>
		ELC;64653	24V,250W MR16	<b>BW.ELC</b>	<b>16</b>
<b><u>Federal Products</u></b>					
		JC24V-300W	24V,300W	<b>BW.JC24V-300WB</b>	<b>28</b>
<b><u>Flexbar</u></b>					
For Some Flexbar Models		16121	2.5V,0.28A	<b>BW.16121</b>	<b>56</b>
		12V20W	12V,20W	<b>BW.12V20W</b>	<b>62</b>
<b><u>Fowler</u></b>					
Officelux		JC6V-15W	6V,15W	<b>BW.JC6V-15W</b>	<b>30</b>
Model 53-900		JC12V-50W	12V,50W	<b>BW.JC12V-50W</b>	<b>26</b>
Video 500 Systems		54-711-095	6V,20W	<b>BW.M34</b>	<b>29</b>
44" Model 52-900-100		JC12V-50W	12V,50W	<b>BW.JC12V-50W</b>	<b>26</b>
For Some Other Fowler Models	53-650-925	6461	12V,10W	<b>BW.6461</b>	<b>62</b>
	51-30012-00	USH102DH	100W MERCURY	<b>BW.USH102DH</b>	<b>65</b>
<b><u>Genx</u></b>					
Profile Illuminator		BHD/BHF	20V,100W	<b>BW.BHD (Delisted)**</b>	<b>36</b>
<b><u>Gould Bass</u></b>					
Black Light Inspection Lamp			18W LED REPLACEMENT FOR H44GS100MDSK	<b>BW.LED18W365NM</b>	<b>69A</b>
<b><u>J &amp; L (Jones &amp; Lamson)</u></b>					
Model BC14	31966	BXE	10V,7.5A	<b>BW.BXE</b>	<b>37</b>
Models BC14 & PC14 (Older 6 Volt Models)		1183	5.5V,6.25A RP11 SC BAY.	<b>BW.1183</b>	<b>35</b>
Model Classic 14F	93940		21.5V,250W	<b>BW.DKM-GE (Delisted)**</b>	<b>12</b>
Model Epic 14F		HSA350SB	350W MERCURY	<b>BW.USH350DP</b>	<b>-</b>
Model Epic 30					
Profile Illuminator	91991	SAH250B	250W MERCURY	<b>BW.SAH250B</b>	<b>10</b>
Surface Illuminator	94397	CYX	120V,2000W	<b>BW.CYX</b>	<b>21</b>
Model Epic 220:	91991	SAH250B	250W MERCURY	<b>BW.SAH250B</b>	<b>10</b>
		HSH250-7446		<b>CALL</b>	<b>-</b>
Model Epic 230 Surface:	94397	CYX	120V,2000W	<b>BW.CYX</b>	<b>21</b>
Model FC14					
Profile Illuminator	91991	SAH250B	250W MERCURY	<b>BW.SAH250B</b>	<b>10</b>
Socket		Socket (Ceramic) For SAH250B Lamp		<b>BW.RL3742</b>	<b>85</b>
Socket		Socket (Plastic) For SAH250B Lamp		<b>BW.3743</b>	<b>85</b>
Surface Illuminator	94630	FSG; DN921	120V,1200W	<b>BW.FSG</b>	<b>6</b>
Obsolete Surface Illuminator	91640	DHT	120V,1200W	<b>BW.DHT (Delisted)**</b>	<b>7</b>
Model FC30 (Newer Models 1 of 2 lamps)		FDT;64648	12V,100W	<b>BW.FDT-OSR</b>	<b>23</b>
Model FC30	35-20-4270-1	1183	5.5V,6.25A RP11 SC BAY	<b>BW.1183</b>	<b>35</b>
Model PC14, PC14A	35-20-2195-1	BXE	10V,7.5A	<b>BW.BXE</b>	<b>37</b>
Model PC14A; Classic 14T	95673	FDT;64648	12V,100W	<b>BW.FDT-OSR</b>	<b>23</b>
Socket (01-52-1032-2)	95694	TP27 Socket	FOR GZ9.5 BASE	<b>BW.TP27</b>	<b>88</b>
Model TC10	91991	SAH250B	250W MERCURY	<b>BW.SAH250B</b>	<b>10</b>

Lamps for J & L (Jones & Lamson) Are Continued On the Next Page

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<u>Manufacturer</u>	<u>Mfr.Part No.</u>	<u>Lamp Code</u>	<u>Description</u>	<u>Bulbworks P/N</u>	<u>Fig.</u>
<b><u>J &amp; L (Jones &amp; Lamson)</u></b> - J & L Lamps Are Continued From Previous Page					
Model TC14 (Older Models)	31966	BXE	10V,7.5A	<b>BW.BXE</b>	<b>37</b>
Model TC14 (Newer Models)	95673	FDT	12V,100W	<b>BW.FDT</b>	<b>23</b>
Model Vertech 14	94397	CYX	120V,2000W	<b>BW.CYX</b>	<b>21</b>
For Some Other J & L Models	01-52-2029-1	ELC	24V,250W MR16	<b>BW.ELC</b>	<b>16</b>
	95673	FDT; 64628	12V,100W	<b>BW.FDT-OSR</b>	<b>23</b>
	94630	FSG; DN921	120V,1200W	<b>BW.FSG</b>	<b>6</b>
	01-52-219-04	QEWSocket	For GY;GZ9.5 BASE	<b>BW.QEW</b>	<b>87</b>
		1183	5.5V,6.25A RP11 SC BAY	<b>BW.1183</b>	<b>35</b>
		DYS	120V,600W GY9.5 BASE	<b>BW.DYS</b>	<b>24</b>
	93936	BTR	120V,1000W	<b>BW.BTR</b>	<b>5</b>
		DLR	21.5V,250W	<b>BW.DLR (Delisted)**</b>	<b>12</b>
		USH250D	250W MERCURY	<b>BW.USH250D</b>	<b>67</b>
		32982	DFD	120-125V,1000W	<b>BW.DFD (Delisted)**</b>
96397	CXZ	120V,1500W	<b>BW.CXZ</b>	<b>21</b>	
<b><u>Kodak Comparator</u></b> - (Also See OGP - Optical Gaging Products)					
Model 2A Contour		100T10P6V	6V,100W	<b>BW.CPT (Delisted)</b>	<b>-</b>
	422838	100T10/7-6V	6V,100W	<b>BW.CPS (Delisted)**</b>	<b>-</b>
With Retrofit	423507		120V,1000W	<b>BW.BTR</b>	<b>5</b>
Surface Reflection		DFT	120V,1000W	<b>BW.DFT (Delisted)**</b>	<b>7</b>
Kodak 30" Model	423509	CZX/DAB	120V,500W	<b>BW.CZX.DAB</b>	<b>7</b>
Retrofits Are Available For Some Model Kodak Comparators - Call For Further Information.					
<b><u>Magnaflux</u></b>					
Black Light Inspection Lamp	MX507320		18W LED REPLACEMENT FOR H44GS100MDSK	<b>BW.LED18W365NM</b>	<b>69A</b>
<b><u>Magwerks</u></b>					
Black Light Inspection Lamp			18W LED REPLACEMENT FOR H44GS100MDSK	<b>BW.LED18W365NM</b>	<b>69A</b>
<b><u>MicroVu</u></b>					
Century Model C 14" & 30"					
Profile Illuminator		M36	24V,250W	<b>BW.M36</b>	<b>28</b>
Surface Illuminator		BCL	120V,300W	<b>BW.BCL</b>	<b>11</b>
Century Model E Optical 14"; Model M103					
Profile Illuminator	L7390	EVA	12V,100W	<b>BW.EVA-OSR</b>	<b>26</b>
Surface Illuminator		ELS	16V,50W	<b>BW.ELS</b>	<b>18</b>
Matrix & Vector Optical With Or Without Edge Detector					
Profile Illuminator		64440	12V,50W	<b>BW.64440</b>	<b>26</b>
Surface Illuminator		BCL	120V,300W	<b>BW.BCL</b>	<b>11</b>
Model H14					
Profile Illuminator		64440	12V,50W	<b>BW.64440</b>	<b>26</b>
Surface Illuminator		ELS	16V,50W	<b>BW.ELS</b>	<b>18</b>
Models M14; 500HP; 400HP; 300; 400; 600					
Profile Illuminator		1724*	6.2V,4.5A	<b>BW.1724</b>	<b>42</b>
Surface Illuminator		ELS	16V,50W	<b>BW.ELS</b>	<b>18</b>
*If Retrofit Has Been Installed Use #73401		L7394	6V,20W	<b>BW.M34</b>	<b>29</b>
Model M30-IV		DDS	21V,80W	<b>BW.DDS</b>	<b>16</b>
Model 614 (Uses 2 Bulbs)		DKN	6V,35W 4 PIN BASE	<b>BW.DKN (Delisted)**</b>	<b>12</b>
Series V Optical					
Profile Illuminator		1724	6.2V,4.5A	<b>BW.1724</b>	<b>42</b>
Surface Illuminator		BCL	120V,300W	<b>BW.BCL</b>	<b>11</b>
Old V-Series Video With Edge Detector V/200, V/250, V2500 H14 Video					
Profile Illuminator		90	13V,0.58A DC BAYONET	<b>BW.90****</b>	<b>43</b>
Surface Illuminator		EKE	21V,150W	<b>BW.EKE</b>	<b>16</b>
For Spectra & Matrix Vector & Century Manual Qubix (No Edge Detector)					
Profile Illuminator		L1009	3.5V,1.5W	<b>BW.L1009</b>	<b>60</b>
Surface Illuminator		EKE	21V,150W	<b>BW.EKE</b>	<b>16</b>

Lamps for MicroVu Are Continued On the Next Page

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<u>Manufacturer</u>	<u>Mfr.Part No.</u>	<u>Lamp Code</u>	<u>Description</u>	<u>Bulbworks P/N</u>	<u>Fig.</u>
<b>MicroVu - MicroVu Lamps Are Continued From Previous Page</b>					
For Spectra & Matrix Vector & Century Manual Qubix (With Edge Detector)					
Profile Illuminator	L1024		3.5V,2W	BW.L1024	61
Surface Illuminator	EKE		21V,150W	BW.EKE	16
Socket For Spectra;Vector; Matrix; and Qubix Models Using EKE Lamp			GX5.3 BASE	BW.QLV-1	83
Spectra 14" Optical With Or Without Edge Detector					
Profile Illuminator	L7390 (7347)		12V,100W	BW.EVA-OSR	26
Surface Illuminator	ELS (7341)		16V,50W	BW.ELS	18
Some Other MicroVu Models					
	1724		6.2V,4.5A	BW.1724	42
	EVA		12V,100W	BW.EVA	26
	64623		12V,100W	BW.EVA-OSR	26
	1594		6V,30W DC BAYONET	BW.1594	42
	EKE		21V,150W	BW.EKE	16
	ELS		16V,50W	BW.ELS	18
600-7350	7350		Socket	BW.7350	89
<b>Mitutoyo</b>					
Model GFL10202 Manual Vision System					
	57901		12V,50W	BW.57901	27
Model MBKH1 Micro Hardness Tester					
	OP2128		6V,15W	BW.OP2128	43
Model PH14LS & PHA14 (172-810A)					
New#	512-305	FDV	24V,150W	BW.FDV	25
New#	512-305	64642	24V,150W	BW.FDV-OSR	25
Model PH350 (Newer Models); PJ250-H					
Profile Illuminator	512-437	EVA	12V,100W	BW.EVA	26
Surface Illuminator	512-305 (172-952)	FDV	24V,150W	BW.FDV	25
Model PH350 (Older Models)					
Profile Illuminator	201-131		12V,150W	BW.201-131	1
Surface Illuminator	201-131		12V,150W	BW.201-131	1
Retrofit Kit w/Halogen Bulb	MRK		12V, 100W w/Bracket	BW.MRK	-
Model PH3500 Series (Including 3515F)					
Profile Illuminator	515-530	FCS	24V,150W	BW.FCS	25
Surface Illuminator	64PPP277	ELC	24V,250W MR16	BW.ELC	16
Older Model PJ250	200-727	-	12V,100W MED. PREF.	BW.200-727	1
Model PJ250B	200-672	-	10V,70W	BW.71818	1
Model PJ300	201-131	-	12V,150W	BW.201-131	1
Retrofit Kit w/Halogen Bulb	MRK		12V, 100W w/Bracket	BW.MRK	-
Model PJ311 Old#	515-530	FCS	24V,150W	BW.FCS	25
Model PV350					
Profile Illuminator	512-437	EVA	12V,100W	BW.EVA	26
Surface Illuminator	512-305	FDV	24V,150W	BW.FDV	25
TM Series Toolmaker's Microscope					
	101-479		6.3V,0.25A	BW.46****	46
Other Mitutoyo Toolmaker's Scopes					
	64PPP516		12V,10W BA9S	BW.S-5203	49
	64PPP672		12V,10W	BW.JRM12V-10WG4	17
Model 505-510 Series 176 Toolmaker's Microscope					
Model 176-811A; 176-808	383-038	24V-MS	24V,2.4W	BW.SR24V-MS	46
Other Mitutoyo Models:					
	01-0066	EKE	21V,150W	BW.EKE-USH	16
	101-479	46	6.3V,0.25A	BW.46****	46
	172-952	FDV	24V,150W	BW.FDV	25
	172-952	64642	24V,150W	BW.FDV-OSR	25
	201-131	-	12V,150W	BW.201-131	1
	512-437	EVA	12V,100W	BW.EVA	26
	512-437	64623	12V,100W	BW.EVA-OSR	26
	515-557	EL-25C	8V,24W	BW.EL-25C	-
	515-559	EL-3B	8V,12W	BW.EL-3B	50
	-	EL-2	8V,12W	BW.EL-2	51
	-	ESB; 7388	6V,20W	BW.ESB	29
	-	64250	6V,20W	BW.ESB-OSR	29

\*\*\*\*Miniature Lamps Must Be Ordered In Packs Of Ten.

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<u>Manufacturer</u>	<u>Mfr.Part No.</u>	<u>Lamp Code</u>	<u>Description</u>	<u>Bulbworks P/N</u>	<u>Fig.</u>
<b><u>Mondo</u></b>					
Video Insp. System		A1/230	12V,75W	BW.EFN	16
<b><u>Nikon</u></b>					
Model H14A	72168	72168	15V,150W	BW.72168	2
Model H14B	76513	76513	12V,100W	BW.FCR	26
Model TM20	76516	76516	12V,50W	BW.BRL-OSR	26
Model V Vertical	72168	72168	15V,150W	BW.72168	2
Model V12	71826	71826	24V,150W	BW.FCS-OSR	25
Model V16A	72168	72168	15V,150W	BW.72168	2
Model V16 B;C;E	71826	71826	24V,150W	BW.FCS-OSR	25
Model 2A,3,3A,3C	71256	71256	10V,70W	BW.71256	2
Model 2A,3,3A,6C Shadowgraph	71818	71818	10V,70W	BW.71818	1
Model 5A,5B Surface Illuminator	CXK	CXK	115-125V,300W	BW.CXK	7
Model 5A,5B,R14,H38,V24,V24A,V24AS	71502	71502	12V,200W BLACK TOP	BW.71502*	3
Models 15;16	72168	72168	15V,150W	BW.72168	2
Some Other Nikon Models:	71818	71818	10V,70W	BW.71818	1
	71819	71819	21V,150W	BW.DKR (Delisted)**	12
<b><u>OGP (Optical Gaging Products) - (Also See Kodak)</u></b>					
	423507	BTR	120V,1000W	BW.BTR	5
B & L Model 20 & Early OGP					
Profile Illuminator	218524	BEY(5AG16.5/3)	20V,100W	BW.BEY	63
Surface Illuminator		DTJ	120V,1500W	BW.DTJ	8
Excello 30" Contour		BTL	120V,500W	BW.BTL	5
		BTL-GE	120V,500W	BW.BTL-GE	5
	423500	FDT	12V,100W	BW.FDT	23
	423500	64628	12V,100W	BW.FDT-OSR	23
	425967	EVC/FGX	24V,250W	BW.EVC.FGX	25
	425967	64657	24V,250W	BW.EVC.FGX-OS	25
	426725	ELC	24V,250W	BW.ELC	16
Excello Model 14814		100T10P-6V	6V,100W	BW.CPT (Delisted)**	-
Excello 30-826		DTJ	120V,1500W	BW.DTJ	8
Focus (Some Models)	427216	EXY	82V,250W	BW.EXY	19
Focus (Other Models)	427303	FHS	82V,300W	BW.FHS	19
FOV Smart Scope	521963	EFP	12V,100W	BW.EFP-OSR	14
Model Avant 400	521963	EFP	12V,100W	BW.EFP-OSR	14
Model OQ30B	426538	HTI400W/24	400W METAL HALIDE	BW.HTI400W.24	82
Model OQ300311					
Profile Illuminator	423500	FDT	12V,100W	BW.FDT-OSR	23
Surface Illuminator	424567	FAV	11.5V,100W	BW.FAV (Delisted)**	48
Model QC-DCC Video	423500	FDT	12V,100W	BW.FDT-OSR	23
	521963	EFP	12V,100W	BW.EFP-OSR	14
Model QL20 (Some Models)	421864	HBO200WDCTML	200W MERCURY	BW.HBO200W2TML1*	66
	423500	FDT	12V,100W	BW.FDT-OSR	23
Model QL20 (Other Models)	426725	ELC	24V,250W	BW.ELC	16
	424567	FAV	11.5V,100W	BW.FAV (Delisted)**	48
Model XL30	12887A0004	HBO200WDCTML1 (Formerly HBO200W2TML1*)	200W MERCURY	BW.HBO200W2TML1*	66
Opticon Qualifier 14B					
Profile Illuminator	423500	64628	12V,100W	BW.FDT-OSR	23
Surface Illuminator	425967	64657	24V,250W	BW.EVC.FGX-OS	25
Opticon Qualifier30 - Newer	427425	HBO200WDCTML1 (Formerly HBO200W2TML1*)	200W MERCURY	BW.HBO200W2TML1*	66

Lamps for OGP Are Continued On the Next Page

\*Can Use Equivalent Brand Ushio Lamp

\*\*Delisted Lamp. Subject to Availability.

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<u>Manufacturer</u>	<u>Mfr.Part No.</u>	<u>Lamp Code</u>	<u>Description</u>	<u>Bulbworks P/N</u>	<u>Fig.</u>
<b>OGP (Optical Gaging Products) - OGP Lamps Are Continued From Previous Page (Also See Kodak)</b>					
Opticon Qualifier30 - Older					
Profile May Have Used		BTM	120V,500W	BW.BTM	4
Surface May Have Used	423507	BTR	120V,1000W	BW.BTR	5
14" Benchtop Model	427573	64642	24V,150W	BW.FDV-OSR	25
Smartscope 1300	427332	EKP	30V,80W	BW.EKP	15
Some Other OGP Models		CPR	6V,18A	BW.CPR	9
	427303	FHS	82V,300W	BW.FHS	19
	427573	FDV	24V,150W	BW.FDV	25
	427573	64642	24V,150W	BW.FDV-OSR	25
	421864	HBO200W2TML1*)	200W MERCURY	BW.HBO200W2TML1	66
*Can Use Equivalent Brand Ushio Lamp		USH205DP	200W MERCURY	BW.USH205DP	66
<b>Pexit Paragon</b> 60" Model		EHJ	24V,250W	BW.EHJ-OSR	25
<b>Portman</b> Comparator		BEJ	120V,200W	BW.BEJ	44
<b>Prazis</b>	58-8007	CXL/CXR	8V,50W	BW.CXL.CXR	64
<b>Ram Optical</b> (Some Models)		EJV	21V,150W	BW.EJV	16
<b>Rank Pneumo</b>	48-5766-00	DSW	24V,200W	BW.DSW (Delisted)	13
Profile Illuminator Retrofit	-	DSW-RETRO	24V, 200W (EJL)	BW.DSW-RETRO	13A
<b>Scherr Tumico</b>					
Model 20-2450					
Profile Illuminator	48-7271-00	FDV	24V,150W	BW.FDV	25
Surface Illuminator	48-8086-00	EKE	21V,150W	BW.EKE	16
Model 20 - 3500, 3600, 4450, 4500 & 4600 Series					
Profile Illuminator	48-7271-00	FDV	24V,150W	BW.FDV-OSR	25
Surface Illuminator	48-7747-00	EFP;64627	12V,100W	BW.EFP-OSR	14
Model 20-4500	48-6701-00	ENH	120V,2501	BW.ENH	16
Model 22-2500 Series					
Profile Illuminator	48-5766-00	DSW*	24V,200W 4 PIN BASE	BW.DSW (Delisted)	13
Profile Illuminator Retrofit	-	DSW-RETRO	24V, 200W (EJL)	BW.DSW-RETRO	13A
Surface Illuminator	48-5442-00	DLS/DLG/DHX*	22V,150W 4 PIN BASE	BW.DLS.DLG.DHX*(Delisted)**	13
Surface Illuminator Retrofit	-	DLS-RETRO	21V,150W (EKE)	BW.DLS-RETRO	13A
Readout Bulb	1-12	1-12	Tubular With Special Base	BW.1-12	-
Model 22-3001					
Profile Illuminator	48-5442-00	DLS/DLG/DHX*	22V,150W 4 PIN BASE	BW.DLS.DLG.DHX*(Delisted)**	13
Surface Illuminator Retrofit	-	DLS-RETRO	21V,150W (EKE)	BW.DLS-RETRO	13A
Surface Illuminator	48-6701-00	ENH	120V,250W	BW.ENH	16
Model 22-5800 (Before June 1, 1998)					
Profile Illuminator	48-5766-00	DSW*	24V,200W 4 PIN BASE	BW.DSW (Delisted)	13
Profile Illuminator Retrofit	-	DSW-RETRO	24V, 200W (EJL)	BW.DSW-RETRO	13A
Surface Illuminator	48-5442-00	DLS/DLG/DHX*	22V,150W 4 PIN BASE	BW.DLS.DLG.DHX*(Delisted)**	13
Surface Illuminator Retrofit	-	DLS-RETRO	21V,150W (EKE)	BW.DLS-RETRO	13A
Model 22-5800 (After June 1, 1998)					
Profile Illuminator	48-8088-00	EJL	24V,200W	BW.EJL	16
Surface Illuminator	48-8086-00	EKE	21V,150W	BW.EKE	16
Model 1500 Series					
Profile Illuminator	48-5442-00	DLS/DLG/DHX*	22V,150W	BW.DLS.DLG.DHX* (Delisted)**	13
Surface Illuminator Retrofit	-	DLS-RETRO	21V,150W (EKE)	BW.DLS-RETRO	13A
Surface Illuminator	48-5279-00	CZX/DAB	120V,500W	BW.CZX.DAB	7
Model 2536 Profile	48-7271-00	FDV	24V,150W	BW.FDV	25
Some Other Models	48-6563-00	50	7.5V,0.22A	BW.50	45
	48-6575-00	55	7V,0.41A MINI BAYONET	BW.55	49
	48-6701-00	ENH	120V,250W	BW.ENH	16
Profile Illuminator	48-7271-00	FDV	24V,150W	BW.FDV	25
	5A/G16½/3	BEY	20V,100W	BW.BEY	63
With BEY Retrofit	48-7271-00	64642	24V,150W	BW.FDV-OSR	25



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<u>Manufacturer</u>	<u>Mfr.Part No.</u>	<u>Lamp Code</u>	<u>Description</u>	<u>Bulbworks P/N</u>	<u>Fig.</u>
<b><u>Spectronics</u></b>					
Black Light Inspection Lamp	BLE-100S/M		18W LED REPLACEMENT FOR H44GS100MDSK	BW.LED18W365NM	69A
<b><u>Starrett Precision</u></b>					
Model HB350 & HE350					
Profile Illuminator	34026 (P10099)	FCR	12V,100W	BW.FCR	26
	34026 (P10099)	64625 (FCR)	12V,100W	BW.FCR-OSR	26
Surface Illuminator	34018	EFP	12V,100W	BW.EFP	14
	34018	64627 (EFP)	12V,100W	BW.EFP-OSR	14
Model HB400					
Profile Illuminator	34019 (P10104)	FCS	24V,150W	BW.FCS	25
	34019 (P10104)	64640 (FCS)	24V,150W	BW.FCS-OSR	25
Socket For Profile Illuminator		905	G;GY6.35 BASE	BW.905	93
Surface Illuminator	34462	64653 (ELC)	24V,250W	BW.64653	16
Socket For Surface Illuminator		H706	GX5.3 BASE	BW.H706	84
Model HC400					
Profile Illuminator	34019 (P10104)	FCS	24V,150W	BW.FCS	25
	34019 (P10104)	64640 (FCS)	24V,150W	BW.FCS-OSR	25
Surface Illuminator	34462	64653	24V,250W	BW.64653	16
Model HC800 (Older Models)					
Profile Illuminator	8T20	HTI150W	150W METAL HALIDE	BW.HTI150W	67
Model HC800 (Newer Models)					
Profile Illuminator	P12418	HBO200W.DC	200W DIRECT CURRENT	BW.HBO200W.DC	66
Surface Illuminator	P12416	HTI250W/32C	250W METAL HALIDE	BW.HTI250W.32C	82
Model HD400					
Profile Illuminator	34019 (P10104)	FCS	24V,150W	BW.FCS	25
	34019 (P10104)	64640 (FCS)	24V,150W	BW.FCS-OSR	25
Surface Illuminator	34462 (P10103)	64653 (ELC)	24V,250W	BW.64653	16
Models HE400 (Earlier Models) & Sigma VF600					
Profile Illuminator	34019	FCS	24V,150W	BW.FCS	25
	34019	64640 (FCS)	24V,150W	BW.FCS-OSR	25
Surface Illuminator	34018	EFP	12V,100W	BW.EFP	14
	34018	64627	12V,100W	BW.EFP-OSR	14
Socket For Surface Illuminator		H705	GZ6.35	BW.H705	84
Model HE400 (Later Models)					
Profile Illuminator	34026 (P10099)	FCR (F007)	12V,100W	BW.FCR	26
	34026 (P10099)	64625 (FCR)	12V,100W	BW.FCR-OSR	26
Surface Illuminator	34018	EFP	12V,100W	BW.EFP	14
	34018	64627 (EFP)	12V,100W	BW.EFP-OSR	14
Model HF600					
Profile Illuminator	HL19	64640	24V,150W	BW.FCS-OSR	25
Surface Illuminator	FO07	64657	24V,250W	BW.EVC.FGX-OS	25
Model HF750					
Profile Illuminator	34018	64627	12V,100W	BW.EFP-OSR	14
Surface Illuminator	34019	64640	24V,150W	BW.FCS-OSR	25
Model ST1500					
		BEC	115-120V,150W	BW.BEC*	44
<b><u>Stocker &amp; Yale</u></b>					
For Some Stocker & Yale Models					
		EKE-HC	21V,150W	BW.EKE-HC**	16
		F4T5.BLB	4W BLACK LIGHT BLUE	BW.F4T5.BLB	72
		FC72T5VW-285	VIEW WHITE RING LIGHT	BW.FC72T5VW-285	76
		TQ-BTL	BLACK LIGHT BLUE RING	BW.TQ-BTL	77
		TQ-WTL	RING LIGHT 5300 DEG. K	BW.TQ-WTL	76
<b><u>Suburban Tool</u></b>					
Master View 14" Profile Illuminator		64638	24V,100W	BW.64638	25
		64638-IMP	24V,100W	BW.64638-IMP	25
Master View 14" Surface Illuminator		EJA	21V,150W	BW.EJA	16
		EJA-OSR	21V,150W	BW.EJA-OSR	16



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<b><u>Sunnex</u></b>					
Bench, Task & Work Light	2450	64451	24V,60W H3	BW.64451	32
<b><u>Swiss Precision Instruments</u></b>					
Model P0750		EFR 64634	15V,150W	BW.EFR-OSR	14
		JC24V-300WB	24V,300W	BW.JC24V-300WB	28
<b><u>Techniquip</u></b>					
For Some Techniquip Models		TQ-BTL	BLACK LIGHT BLUE RING	BW.TQ-BTL	77
		TQ-WTL	RING LIGHT 5300 DEG. K	BW.TQ-WTL	76
<b><u>Titan</u></b>					
Fiber Optic Illuminator Model FOL1B	Q1250	EJA	21V,150W	BW.EJA	16
Viewer TMTVS 51210	188041		2.5V HEINE	BW.HEX0188041	59
<b><u>Unison</u></b> Truflute					
		10S11N	120-130V,10W	BW.10S11N	47
<b><u>Vermont Precision</u></b> Some Models					
		JC24V-300WB	24V,300W	BW.JC24V-300WB	28

\*Price Is For Stock On Hand Only.

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